

**SACRAMENTO MUNICIPAL UTILITY DISTRICT
UPPER AMERICAN RIVER PROJECT
(FERC NO. 2101)**

**VISITOR USE AND IMPACT
TECHNICAL REPORT**

Prepared by:

Devine Tarbell & Associates, Inc.
Sacramento, California

The Louis Berger Group
Oakhurst, California

Prepared for:

Sacramento Municipal Utility District
Sacramento, California

MARCH 2005

TABLE OF CONTENTS

Section & Description	Page
1.0 INTRODUCTION	1
2.0 BACKGROUND	2
2.1 Visitor Use and Impact Study Plan.....	2
2.2 Recreation TWG Determination of Adequacy	3
3.0 METHODS	5
3.1 Summer 2002 Surveys	6
3.1.1 Developing the Survey Plan.....	6
3.1.2 Primary Data Collection	8
3.1.3 Sampling.....	9
3.1.4 Instrumentation Development.....	16
3.1.5 Data Management and Analysis	18
3.2 Winter 2002-03 Surveys	18
3.2.1 Snowplow Route Parking Areas	19
3.2.2 Loon Lake Chalet.....	20
3.3 Summer 2004 Visitor Surveys.....	20
3.3.1 Stream Angler Focus Group	21
3.3.2 Creel Survey at Storage Reservoirs	22
3.3.3 Zone 3 Dispersed Sites Survey	25
3.4 Methodology for Estimating Existing and Future Use	26
3.4.1 Use Estimates for Developed Recreation Facilities.....	27
3.4.2 Reservoir Use.....	29
3.4.4 Observations for Resource Damage.....	32
4.0 RESULTS	32
4.1 Visitor Profile and Information.....	32
4.1.1 Place of Residence	32
4.1.2 Party Size	34
4.1.3 Number of Years Visiting the Area	35
4.1.4 Overnight and Day Use Visitation.....	37
4.1.5 Length of Stay.....	38
4.1.6 Adequacy of Access to Information	40
4.1.7 Changes and Improvements Identified in Visitor Surveys	42
4.1.8 Additional Visitor Survey Results	59
4.1.9 Angling Opportunities and Angler Satisfaction.....	74
4.1.10 Other Sources of Information About Visitors.....	80

TABLE OF CONTENTS

Section & Description	Page
4.2	Effects of the UARP on Wilderness Values 81
4.3	Benefits of Recreation Associated with the UARP 82
4.4	Current and Projected User Conflicts 82
4.5	UARP and Project 184 Combined Impacts 82
4.6	Visual Assessment of Recreation Areas 83
4.7	Existing Recreational Visitor Use..... 83
4.7.1	Licensed Hydropower Development Recreation Report Form (Form 80) 83
4.7.2	Facility Capacity Observations 84
4.7.3	Recreation in Developed Facilities (ENF 1999-2002 USFS RIM Fee and Non-Fee Campgrounds, Boat Launches and Day Use Facilities)..... 89
4.7.4	Other Recreational Use Information 92
4.8	Annual Recreation Visitor Use Estimate At and Near the UARP 105
4.9	Recreational Activity Participation for the Crystal Basin..... 107
4.9.1	Crystal Basin-Summer 107
4.9.2	Crystal Basin—Winter..... 114
4.9.3	Canyonlands..... 116
4.10	Future Recreation Use Estimates 117
4.10.1	Activity Participation for Sacramento and El Dorado Populations (16 years and older) 119
4.10.2	Future Recreation Use Estimates in the UARP Area..... 128
4.11	Inventory for Resource Damage Potentially Related to Recreational Use 130
4.11.1	Dispersed Sites - High Country 130
4.11.2	Dispersed Sites - Crystal Basin..... 132
4.11.3	Dispersed Sites-Canyonlands..... 141
4.12	Creel Surveys 146
4.12.1	Effort and Catch Data 146
4.12.2	Qualitative Data 149
5.0	FINDINGS 153

LIST OF TABLES

Table No. & Description	Page
Table 3.1-1. Field survey team during the 2002 summer survey period.....	8
Table 3.1-2. Estimated total “recreation days” for UARP-related developed facilities by primary reservoir and activity, May-September 2002.	12
Table 3.1-3. Total Surveys May-September 2002 surveys for UARP-related developed facilities (planned / actual).....	13
Table 3.1-4. Weighting table for summer 2002 surveys at developed facilities.	13
Table 3.1-5. Schedule table for completed face-to-face surveys at dispersed areas near the reservoirs and the number of windshield surveys administered in the Crystal Basin during the 2002 summer survey period.	15
Table 3.2-1. Schedule table for the number of windshield surveys administered along the snowplow route during the 2002-03 winter survey period (weekends and holidays are bolded).	20
Table 3.3-1. Boat launch facility population estimates and sample size.....	24
Table 3.3-2. Breakdown of creel survey periods per reservoir.	25
Table 4.1-1. Visitors’ county of primary residence for survey areas in the vicinity of the UARP	33
Table 4.1-2. Party size of the summer visitors as reported in the visitor surveys 2002-03...34	
Table 4.1-3. Party size of wintertime visitors to the Crystal Basin as reported in the visitor surveys 2002-03.....	35
Table 4.1-4. Number of years visitors reported that they have been visiting the UARP during the summer as reported in the visitor surveys 2002-03.	35
Table 4.1-5. Number of years visitors reported that they have been visiting the UARP during the winter as reported in the winter visitor surveys.....	36
Table 4.1-6. Percent of visitor survey responses regarding summertime day and overnight use and length of stay. Responses are sorted by reservoir where developed recreation facilities are located	37

LIST OF TABLES

Table No. & Description	Page
Table 4.1-7. Percent of visitor survey responses regarding day and overnight use and length of stay. Summer responses are sorted by developed recreation facility and the winter survey responses are sorted between the surveys collected at the Loon Lake Chalet and those left on the windshields of visitors.....	38
Table 4.1-8. Responses to recreation visitor surveys conducted in 2002 at the UARP about adequacy of “access to information” for select topics (e.g., campsite availability).....	41
Table 4.1-9. Changes or improvements identified by Crystal Basin visitors during the summer.....	43
Table 4.1-10. How important services and facilities are in visitors’ decision to visit the Crystal Basin. (Developed Data Set).....	44
Table 4.1-11. Changes or improvements to the developed recreation facilities listed by summertime visitors in the Crystal Basin.....	46
Table 4.1-12. Changes or improvements to the area listed by summertime visitors in the Canyonlands.....	52
Table 4.1-13. How important services and facilities are in visitors’ decision to visit the Canyonlands. (Dispersed Data Set).....	53
Table 4.1-14. Changes or improvements to the developed recreation facilities listed by wintertime visitors in the Crystal Basin.....	55
Table 4.1-15. Percent of visitors that identified the survey location as their primary destination vs. a side trip or a stop on route to another destination, from surveys conducted in 2002 at the UARP.....	60
Table 4.1-16. Percent of overnight visitors camping in an undeveloped area who intended to camp in an undeveloped area vs. staying at a developed campground, from surveys conducted in 2002 at the UARP.....	61
Table 4.1-17. Percent of visitors surveyed in 2002 at boat launches and picnic facilities at the four primary UARP reservoirs that were camping in an undeveloped area.....	61

LIST OF TABLES

Table No. & Description	Page
Table 4.1-18. Percent of visitors surveyed in 2002 at undeveloped areas around the four primary UARP reservoirs (generally within one-quarter mile from the UARP reservoir shoreline) that were camping in an undeveloped area	62
Table 4.1-19. Frequency for “other areas visited during stay” from the 167 visitors surveyed at Ice House Reservoir’s developed facilities in 2002.....	62
Table 4.1-20. Frequency for “other areas visited during stay” from the 171 visitors surveyed at Union Valley Reservoir’s developed facilities in 2002.....	63
Table 4.1-21. Frequency for “other areas visited during stay” from the 175 visitors surveyed at Gerle Creek Reservoir’s developed facilities in 2002.....	63
Table 4.1-22. Frequency for “other areas visited during stay” from the 184 visitors surveyed at Loon Lake Reservoir’s developed facilities in 2002.....	64
Table 4.1-23. Frequency for “other areas visited during stay” from the visitors surveyed in the Dispersed area in 2002.....	64
Table 4.1-24. Frequency for “other areas visited during stay” from the visitors surveyed in the Dispersed – wilderness trailhead area in 2002.....	65
Table 4.1-25. Average (mean) ratings of importance of various settings in the visitor’s decision to come to the Crystal Basin, from the surveys conducted in 2002 at the UARP.....	67
Table 4.1-26. Average (mean) ratings of importance of various facilities and services in the visitor’s decision to come to the Crystal Basin, from the surveys conducted in 2002 at the UARP.....	68
Table 4.1-27a. Responses to recreation visitor surveys conducted in 2002 at the UARP about whether the reservoir water level allowed the visitor to participate in the activities they had planned.....	70
Table 4.1-27b. Responses to recreation visitor surveys conducted in 2002 at the UARP about the extent to which the reservoir water level negatively affected the quality of the experience they had planned.....	71
Table 4.1-28. Responses to recreation visitor surveys conducted in 2002 at the UARP about whether the amount of flow in the streams allowed the visitor to participate in the activities they had planned.....	71

LIST OF TABLES

Table No. & Description	Page
Table 4.1-29. Responses to recreation visitor surveys conducted in 2002 at the UARP about the extent to which the amount of flow in the streams negatively affected the quality of the experience they had planned.	72
Table 4.1-30. Responses to visitor surveys conducted in 2002 at the UARP about whether access improvements are needed at (1) the shorelines of the reservoir and (2) along the rivers or streams.	73
Table 4.1-31. Demographic information about visitors to the Crystal Basin.	80
Table 4.7-1. Recreational use estimates and occupancy for UARP Reservoirs in the Crystal Basin.	83
Table 4.7-2. Observations for parking areas at boat launches, day-use areas and trailheads-Crystal Basin 2002 and 2003.	85
Table 4.7-3a. UARP recreation facility use estimates in Recreation-Days May-Sept. (1999 – 2002).	89
Table 4.7-3b. UARP recreation facility use estimates in recreation days May-Sept. (1999 – 2002).	91
Table 4.7-4. ENF Hut visitor use summary.	92
Table 4.7-5. FERC 2003: Recreational Use Estimates for UARP Reservoirs in the Crystal Basin.	94
Table 4.7-6. Boating activity observations: Ice House, Union Valley and Loon Lake reservoirs, Summers of 2002 and 2003.	95
Table 4.7-7. Average number of acres per vessel on the Ice House, Union Valley and Loon Lake reservoirs based on the highest number of watercraft observed during the study observations.	96
Table 4.7-8. Boating use estimates by type of craft on Ice House, Union Valley and Loon Lake Reservoirs.	96
Table 4.7-9. Estimated dispersed recreation use near ⁺ UARP reservoirs from spring 2002 through winter 2003.	99
Table 4.7-10. ENF shoreline dispersed use estimates, July 4- Sept. 15, 2002.	99

LIST OF TABLES

Table No. & Description	Page
Table 4.7-11. Canyonlands area surveys-2002 Summer.....	100
Table 4.7-12. Canyonlands dispersed use observations.....	101
Table 4.7-13. ENF Information Center visitor use estimates 2003.....	105
Table 4.8-1. Estimates for annual recreational use at and near the UARP.....	106
Table 4.9-1. All recreation activities of Crystal Basin visitors during the summer. (Developed and Dispersed Data Sets).....	107
Table 4.9-2. All recreation activities of Crystal Basin visitors to developed recreation facilities during the summer, sorted by facility. (Developed Data Sets).....	108
Table 4.9-3. Most important recreational activities of Crystal Basin visitors during the summer.....	111
Table 4.9-4. Most important recreational activities of Crystal Basin visitors to developed recreation facilities during the summer, sorted by facility. (Developed Data Sets).....	111
Table 4.9-5. All recreational activities of wintertime visitors.....	114
Table 4.9-6. Most important recreational activities of wintertime visitors.....	115
Table 4.9-7. All recreational activities of visitors to the Canyonlands during the summer.....	116
Table 4.9-8. Most important recreational activities of visitors to the Canyonlands during the summer (Dispersed Canyonlands Data Set).....	117
Table 4.10-1. Comparison of the percent participation in various recreation activities between the population of California and the Pacific Region.....	118
Table 4.10-2. Participation activity estimates for Sacramento and El Dorado Counties: 2000.....	121
Table 4.10-3. Participation activity estimates for Sacramento and El Dorado Counties: 2010.....	122
Table 4.10-4. Participation activity estimates for Sacramento and El Dorado Counties: 2020.....	123

LIST OF TABLES

Table No. & Description	Page
Table 4.10-5. Participation activity estimates for Sacramento and El Dorado Counties: 2030	124
Table 4.10-6. Participation activity estimates for Sacramento and El Dorado Counties: 2040	125
Table 4.10-7. Participation activity estimates for Sacramento and El Dorado Counties: 2050	126
Table 4.10-8. Average participation as a percentage of the combined populations of Sacramento and El Dorado Counties.	127
Table 4.10-9. Projected estimated annual recreation use near the UARP through 2050.	129
Table 4.12-1. Kept and released species counts at Union Valley Reservoir during the Spring Creel Survey	146
Table 4.12-2. Coded responses to angler dissatisfaction regarding fishing experience.	150
Table 4.12-3. Responses regarding reservoir access.	150
Table 4.12-4. Respondent's suggestions for improvements at Ice House, Union Valley and Loon Lake Reservoirs.	151

LIST OF FIGURES

Figure No. & Description	Page
Figure 3.0-1	General location of summer 2002 visitor surveys relative.....7
Figure 4.1-1.	How important services and facilities are in visitors' decision to visit the Crystal Basin.45
Figure 4.1-2.	Percentage of how important services and facilities are in visitors' decision to visit the Canyonlands (n=33).....54
Figure 4.11-1	Dispersed recreation sites in the High Country131
Figure 4.11-2	Dispersed recreation sites at Ice House Reservoir in the Crystal Basin133
Figure 4.11-3	Dispersed recreation sites at Union Valley Reservoir in the Crystal Basin....135
Figure 4.11-4	Dispersed recreation sites at Gerle Creek Reservoir in the Crystal Basin137
Figure 4.11-5	Dispersed recreation sites at Loon Lake Reservoir in the Crystal Basin140
Figure 4.11-6	Dispersed recreation sites at Slab Creek and Brush Creek reservoirs143
Figure 4.11-7	Dispersed recreation sites at Junction Reservoir.....145

LIST OF APPENDICES

Appendix & Description

- APPENDIX A SURVEY PROTOCOLS
- A.1 Summer 2002 Survey Process Paper
 - A.2 Summary of Pretesting conducted on May 18, May 25, and June 15, 2002
 - A.3 Summary of Notifications to Participate in the Development of 2002 Summer Surveys
 - A.4 Use Estimates for UARP Recreation Facilities used for Summer 2002 Survey Design
 - A.5 Schedule Table for Summer 2002 Surveys Conducted at Developed Facilities
 - A.6 Winter 2002-03 Survey Process Paper
 - A.7 Plan for UARP Stream Angler Focus Group
 - A.8 Protocols for UARP Reservoirs Creel Survey
- APPENDIX B SURVEY INSTRUMENTS
- B.1 Developed
 - B.2 Dispersed
 - B.3 Dispersed Windshield – Crystal Basin
 - B.4 Dispersed Windshield – Canyonlands
 - B.5 Winter 2002-03 Windshield
 - B.6 Winter 2002-03 Chalet
 - B.7 Forms for Stream Angler Focus Group
 - B.8 Data Sheet for Creel Census Data
 - B.9 Data Sheet for Qualitative Creel Data
- APPENDIX C SURVEY DATA AND FREQUENCY TABLES
(RAW DATA ON CD BY REQUEST)
- C.1 Developed (detailed surveys conducted at UARP recreation facilities)
 - C.1.1 SPSS Data (Weighted)
 - C.1.2 Frequencies with Survey Questions and Cuff Notes (Unweighted)
 - C.1.3 Frequencies all Reservoirs (Weighted)
 - C.1.4 Frequencies by Reservoir
 - C.2 Dispersed (detailed surveys conducted at undeveloped areas around the four primary UARP reservoirs, generally within one-quarter mile from the reservoir shoreline)
 - C.2.1 SPSS Data

LIST OF APPENDICES

Appendix & Description

- C.2.2 Frequencies
- C.3 Dispersed Windshield – Crystal Basin (detailed surveys left on vehicles parked at the wilderness trailhead at Loon Lake Reservoir and on visitor’s vehicles parked at dispersed areas adjacent to UARP reservoirs or bypassed reaches in the Crystal Basin where the visitor was not present)
 - C.3.1 SPSS Data (all locations)
 - C.3.2 SPSS Data (wilderness trailhead only)
 - C.3.3 Frequencies (all locations)
 - C.3.4 Frequencies (wilderness trailhead only)
- C.4 Dispersed Windshield – Canyonlands (detailed surveys left on vehicles parked at dispersed recreation areas in the lower portion of the UARP from Camino Reservoir to White Rock Powerhouse)
 - C.4.1 SPSS Data
 - C.4.2 Frequencies
- C.5 Winter 2002-03 Windshield (detailed surveys left on vehicles parked along the snowplow route in the Crystal Basin)
 - C.5.1 SPSS Data
 - C.5.2 Frequencies
- C.6 Winter 2002-03 Chalet (self-administered surveys focusing on the Loon Lake Chalet made available inside the Chalet)
 - C.6.1 SPSS Data
 - C.6.2 Frequencies
- C.7 Creel Survey at Storage Reservoirs
 - C.7.1 SPSS Data
 - C.7.2 Frequencies
 - C.7.3 Crosstab by Reservoir
- C.8 Results of Stream Angler Focus Group

APPENDIX D CALCULATIONS FOR ESTIMATES OF DISPERSED USE NEAR
 THE UARP

APPENDIX E INTERVIEWER ANECDOTAL NOTES

APPENDIX F ANALYSIS OF ANGLER SATISFACTION

LIST OF APPENDICES

Appendix & Description

APPENDIX G	APPRAISAL SURVEYS AND HYPOTHETICAL QUESTION
	<ul style="list-style-type: none">• G Methods and Results• G.1 Appraisal Unregulated Streams 2002 – Instrument• G.2 Appraisal Unregulated Streams 2003 – Instrument• G.3 Appraisal Spider – Instrument• G.4 Frequencies - Dispersed Appraisals - Unregulated Streams• G.5 Frequencies - Dispersed Appraisals – Spider Lake• G.6 Dispersed Appraisals Unregulated Streams – SPSS Data (RAW DATA ON CD BY REQUEST)• G.7 Dispersed Appraisals Spider Lake – SPSS Data (RAW DATA ON CD BY REQUEST)
APPENDIX H	WINTER HUT USE DATA (ENF DATA)
APPENDIX I	CAMPGROUND OCCUPANCY DATA (ENF DATA)
APPENDIX J	SHOULDER SEASON USE DATA AT DEVELOPED FACILITIES (ENF DATA)

LIST OF APPLICABLE STUDY PLANS

Description

- Visitor Use and Impact Study Plan

7.7 Visitor Use and Impact Study Plan

The Visitor Use and Impact Study will consist of collecting primary data (survey, questionnaires, observations) and reviewing existing data sources to obtain specific information on Project-related issues. The primary data will be used to evaluate the benefits and impacts of the Project.

7.7.1 Pertinent Issue Questions

The Visitor Use and Impact Study Plan addresses the following recreational resource issue questions:

20. What is the level of Project induced recreation (e.g., What would the recreational opportunities be today if the project were not built)?
31. What are the benefits of recreation associated with the UARP?
35. How is recreator behavior affected by Project operations?
37. What are the current and projected user conflicts related to recreation at or in the vicinity of the Project?
38. What are project related reservoir fluctuations that impact reservoir recreation?
41. What are the combined impacts to recreation relative to flows and reservoir levels of the UARP and Project 184 (Silver Creek confluence downstream)?
43. How do Project operations affect site qualities at developed recreation sites (e.g. lake levels)?
44. What are the effects of Project facilities and operations on wilderness values?
62. What are the existing and future use estimates for Project-related recreation?
63. What is the existing level of public information and interpretation about Project-related aspects and recreational opportunities, and is it adequate?
64. What are the opportunities for angling at Project waters and what is the level of angler satisfaction?

7.7.2 Background

The forested Sierra Nevada setting where the Project is located provides the backdrop for a variety of recreational activities. The Project, in particular, contributes to the recreational settings in the ENF by providing reservoirs for a spectrum of recreational uses including boating, watersports, fishing, and swimming. It also provides access to and flow regimes in bypass reaches that have created recreational fishing opportunities. Project roads and powerline corridors also provide access. The Project vicinity can be described as three geographical areas based on the similarities of the character of the land and the types of recreation that occur in the area. These areas are:

1) High Country—Upstream of the northeast shore of Loon Lake to Rubicon Reservoir. This area has no developed recreation facilities and includes area designated as wilderness. There are two Project reservoirs where visitors enjoy activities such as camping, fishing, hiking and swimming. Summer is the main season of use and consists mainly of dispersed activities where visitors must provide for their own comfort and conveniences. The Rubicon OHV trail, is a popular attraction in this area and it receives a high level of use. The area is also accessed by the Rubicon Trail where mountain bikes, pack stock and hikers are allowed up to the wilderness boundary; past the wilderness boundary, access is restricted to pack stock and hiking. Visitors enjoy the high mountain setting characterized by stands of high elevation vegetation such as lodgepole pine and red fir with spectacular views of large granite outcroppings.

2) Crystal Basin—Area including Loon Lake, Gerle Creek, Union Valley and Ice House reservoirs. Project reservoirs provide locations for flatwater recreation activities and aesthetically pleasing sites for camping and day use activities. Developed Project facilities for camping and day use are located in this area to accommodate recreation at the Project reservoirs. They include paved roads, boat launches, and paved bike trails; campgrounds have water, vault toilets, paved access roads and spurs, tables and fire rings and grills. These amenities, the lakeside setting and a well-developed network of roads that provide extensive access throughout the Crystal Basin make this area the most heavily used area for recreation use on the ENF. Recreation users also come to the Project vicinity for other attractions such as OHV, equestrian and hiking trail use. In addition to the recreation use at numerous developed facilities, dispersed camping occurs along reservoir shorelines and roads in the Crystal Basin and dispersed day use occurs from people staying at Project facilities and recreating at other locations on the Forest (e.g. Wrights Lake). The main access is by the Ice House Road, which is plowed by SMUD allowing year-round

recreational use and winter sports opportunities such as snow camping, snow play and cross country skiing. Another main route of access to the area is the recently paved Wentworth Springs Road. There are also informal access points along the access roads that provide access to the Project stream reaches. The vegetation in the area is mostly stands of mixed conifers.

3) Canyonlands—Downstream of Union Valley dam to White Rock PH including Junction, Camino, Brush Creek, and Slab Creek reservoirs. This area includes steep canyons at the lower elevations in the Project (1,200-4,450 ft.). The vegetation type is mainly oak woodland with conifers occurring at the higher elevations. These Project reservoirs are small, difficult to access and provide a challenging and remote setting where visitors must provide for their own comfort and conveniences. Consequently, recreation use at these reservoirs is low and consists mainly of dispersed camping, fishing and OHV use. The only developed recreation facilities in this area are primitive boat launch sites at Junction, Brush Creek and Slab Creek reservoirs. There are informal access points to Silver Creek via Bryant Springs Road and Jay Bird Road, and the SFAR via Meadow Lane, Mosquito Road, North Canyon Road and Forebay Road near Camino Powerhouse.

7.7.3 Study Objectives

The objectives of this study include:

- Documenting use levels
- Identifying the parameters that determine impacts on recreation (e.g., indicators, thresholds)
- Identifying evaluation criteria for assessing impacts
- Designing survey tools to address the issues
- Determining demand for different recreational opportunities in the Project Vicinity
- Answering the pertinent issue questions identified in 7.7.1

7.7.4 Study Area and Sampling Locations

The study area will include the three geographical areas described in 7.7.2. Sampling locations within these areas will include developed Project recreation facilities and certain locations of recurring dispersed use close to Project reservoirs. The selection of which recreation facilities to include will be based on the need to achieve a statistically representative sample for each survey question. This may include sampling locations at the following developed facilities:

Crystal Basin-- Northshore Campground, Red Fir Group Campground, Pleasant Campground, Loon Lake Day Use Area, Loon Lake Campground, Loon Lake Group Campgrounds, Loon Lake Equestrian Campground, Loon Lake Equestrian Group Campground, Loon Lake Chalet, Loon Lake Wilderness Trailhead, Gerle Creek Campground, Airport Flat Campground, Gerle Creek Day Use Area, Angel Creek Day Use Area, Yellowjacket Campground, Wolf Creek Campground, Camino Cove Campground, West Point Campground, Jones Fork Campground, Lone Rock Campground, Fashoda Campground and Day Use Area, Sunset Campground, Big Silver Campground, Azalea Cove Campground, Wench Creek Campground, Ice House Campgrounds, Northwind Campground, Strawberry Point Campground, Ice House Day Use Area, Crystal Basin Information Station, Cleveland Corral Information Station, and all developed boat launch facilities at Loon Lake, Gerle Creek, Union Valley and Ice House reservoirs.

Canyonlands --primitive boat launches at Junction, Brush Creek and Slab Creek reservoirs.

For winter use, the study area will include winter recreation parking areas commonly plowed by SMUD in consultation with the ENF.

Impacts from dispersed use are of concern to the ENF staff and it is necessary to characterize this type of use in terms of: (1) unmet demand (i.e., are these visitors drawn to the Project then displaced because they cannot be accommodated at the existing Project recreation facilities) or user preference (i.e., are they choosing to recreate in a dispersed manner regardless of the availability of developed facilities), (2) level of use and (3) the primary recreation activities of the dispersed users. Identification of dispersed recreation locations will be consistent with the methodology described in the Recreation Supply Study. The identified dispersed recreation sites will include all

identified sites within one-quarter of a mile of Project reservoirs (including locations or river access points in the High Country, Crystal Basin and Canyonlands), as well as other sites beyond the one-quarter mile zone identified in consultation with the ENF and other interested participants, and agreed to by SMUD.

7.7.5 Information Needed From Other Studies

Dispersed recreation use locations will be obtained from the Recreation Supply Study. Recommended resource measures from other TWG's based on their investigation of resource damage at identified Project related recreation sites.

7.7.6 Study Methods And Schedule

RECREATION USER INTERVIEWS (Summer)-Interviews using questionnaires developed by the Licensee in consultation with the ENF and other interested stakeholders will be conducted at the sample locations described in 7.7.4 during the 2002 recreation season. Interviews may be conducted between 10am and 8pm or earlier depending on the type of use, on two of the three summer holiday weekends [Memorial Day (Fri-Mon), July 4th (Thurs-Sun) and Labor Day (Fri-Mon)]; two non-holiday weekends (Fri-Sun) and two non-holiday weekdays (a day of the week from Mon. through Thurs.) between May 1 and Sept. 16, for a total of 16 days. The actual survey dates will be randomly selected. The Licensee will attempt to obtain interviews from separate parties on each sample day at each developed recreation facility. The number of interviews conducted at the selected recreation sites will develop statistically representative samples. When the dispersed camping sites are identified, the Licensee, in consultation with the ENF and any other interested stakeholders, will determine the number of interviews that will be completed at these sites. The number of interviews will be based on the need to achieve a statistically representative sample. General information to be obtained from the interviews would include, as appropriate: 1) number of people in the party, 2) number of vehicles in the party, 3) origin of trip 4) length of stay, 5) primary trip destination, 6) other destinations visited on the trip, 7) 1st visit or return visit, 8) primary and other recreation activities and locations during visit, 9) user satisfaction (including quality of experience relative to expectations, facilities condition, fishing success, level of recreation information and interpretation), 10) perception of crowding, 11) perceived need for additional facilities or amenities, 12) perceived conflicts between uses, 13) difficulties due to Project operations (i.e., lake level, stream flows), 14) other locations where visitors may go for similar recreation experiences, and 15) general comments. Individual questionnaires may be tailored for use at different types of developed recreation facilities to gain specific site information. Additional information to be obtained at dispersed sites will include whether visitors had intended to recreate in a dispersed manner or if they would have preferred to stay in a developed facility. Surveys conducted at trailheads will include questions relative to assessing the Project relative to wilderness values. Methods may include self-administered [windshield] or interview surveys at trailheads, informal river access points or sites where dispersed day use activity is observed (i.e., areas where cars are parked along roads, pull-outs, stream crossings). The interview questions and sampling locations relating to angling will be reviewed by the Aquatics TWG prior to conducting the interviews.

RECREATION USER INTERVIEWS (Winter)-A questionnaire developed by the Licensee in consultation with the ENF and other interested stakeholders will be provided throughout the winter season 2002-2003 at the Loon Lake Chalet for both day use and overnight visitors (one per party) to voluntarily complete. The Licensee will monitor the return rate of the questionnaires during the season and if less than 20% of the overnight parties reserved to use the chalet by Jan. 1, 2003 have completed the questionnaire, the Licensee will conduct the questionnaires in a face-to-face manner during the remainder of the winter use period of 2003. If needed, face-to-face interviews would be conducted on Saturday of President's Holiday weekend and three other Saturdays between January and March 2003; the Licensee would attempt to interview one overnight visitor and two day use visitors from separate parties on each survey date.

Appropriate surveys will be conducted to assess winter recreation along Ice House Road (use levels, types of activities, needs, conflicts and user satisfaction) in the Crystal Basin.

USE LEVELS-

1) Developed Sites (Crystal Basin)-determine summer and shoulder-season use levels at each developed Project recreation facility from ENF concessionaire and fee demo data. Other sources of information to be reviewed will include ENF recreation data, National recreation use data to be gathered in 2003 (newly instituted) and any available ENF information on, Van Vleck, Lyons, and Wrights Lake trails. Determine winter use levels at Loon Lake Chalet and Ice House Road from ENF data and observations at plowed parking areas on Ice House Road. If the use data for the Loon Lake Chalet is unavailable or insufficient, direct observations will be conducted on President's Holiday weekend (Fri-Mon), four non-holiday weekends (Fri-Sun) and three non-holiday weekdays (a day of the week from Mon-Thurs) between Dec. 2002 and March 2003. Observations will be completed once a day between noon and 4pm and will include the number of visitors observed, their activities, and the number of vehicles present in the parking area. Developed Sites (Canyonlands)-determine use levels by direct observations at the primitive boat launches at Slab Creek, Brush Creek and Junction reservoirs on the three summer holiday weekends (as defined above), two non-holiday weekends and two non-holiday weekdays (as defined above) between April 15 and November 15 in 2002. Observations will be completed once or twice a day between 6 am and 8 pm will include the number of visitors observed, their activities, and the number of vehicles present.

2) Identified Dispersed Sites-determine use levels by direct observations on the three summer holiday weekends (as defined above), two non-holiday weekends (as defined above) and two non-holiday weekdays (as defined above) will have a similar sampling schedule as developed areas depending on location. Observations will be completed at sites with recurrent overnight use between 5pm and 8pm on the Saturday of each survey weekend and the selected weekdays. At identified dispersed day use sites and informal river access points, the observations will document the number of visitors observed and the number and types of vehicles observed. Observations will be completed between noon and 8pm on the Saturday of each survey weekend and the selected weekdays.

3) Lake Surface-if available, review existing boat count information from El Dorado Co. Sheriff's Dept., CDBAW or other existing sources. If boat count data is unavailable or inadequate, perform aerial boat counts of the Project reservoirs in the Crystal Basin and Canyonlands on Saturday or Sunday of the July 4th weekend in 2002 and one other Saturday on a non-holiday weekend in July or August 2002.

VISUAL ASSESSMENT-The Licensee will make a visual assessment and make note of any resource damage observed that appears to be related to recreation use at the sample locations and actual site of recreation activity (i.e., angling site relative to where vehicles are located).

7.7.7 Analysis

Information will be used to determine the level of use at Project reservoirs, stream bypass reaches and identified dispersed sites, visitor satisfaction and identify additional facilities or opportunities that visitors may desire. It will also be used to characterize the nature of the dispersed use as it may or may not relate to the Project and identify sites related to the Project where there is resource damage caused by recreation use. This information will be provided to other resource TWG's for further investigation. Interview responses will be used to identify user conflicts and provide data for the carrying capacity study. Ultimately, this information will be used in the Recreation Needs Assessment and to develop the Recreation Plan for the Project.

7.7.8 Study Output

The study output will be mostly a narrative report with tables displaying use data and summary of questionnaire responses. It will be organized by geographical location (High Country, Crystal Basin and Canyonlands) and include the issue questions addressed, objectives, study area, methods, results, analysis, discussion and conclusions. Maps that show the locations of the developed recreation facilities, the dispersed sites and any resource damage related to recreation use in the study area may also be included in the report. The report will be prepared in a format that allows the information to be inserted directly into the Licensee-prepared Draft Environmental Assessment that will be submitted to the FERC with the Licensee's application for a new license.

7.7.9 Preliminary Estimated Study Cost

SMUD's consultant estimates that this study will cost \$180,600 ± 20 percent.

7.7.10 Recreation and Aesthetics TWG Endorsement

This study plan was approved on February 22, 2002 by the following entities of the TWG: ENF, SWRCB, American River Recreation Association, PCWA, NPS, BLM and SMUD. This study plan will be sent out to other members of the Recreation and Aesthetics TWG for their consideration.

The Plenary Group approved this study plan on March 6, 2002. The participants at the meeting who said they could "live with" the study plan were: Taxpayers of EDC, ENF, Camp Lotus/ARRA, SMUD, EDC, PG&E, EDC Citizens for Water, PCWA, NPS, BLM, CDFG, California Outdoors, and SWRCB. None of the participants at the meeting said they could not "live with" the study plan.

7.7.11 Literature Cited

None

VISITOR USE AND IMPACT TECHNICAL REPORT

SUMMARY

During 2002 - 2004, SMUD conducted a series of recreation surveys to aid in answering pertinent issue questions raised in several study plans developed by the Recreation and Aesthetics Technical Working Group. The surveys were designed to collect primary data to be used with other types of available intelligence including recreation site and facility inventories, review of published information, interviews with key operational and managing staff and professional opinion. SMUD consulted with the resource agencies and other interested parties in developing the surveys, particularly in the areas of collection methods, sampling locations, survey design, schedule, and instrumentation.

The methodologies for each survey effort conducted during 2002 - 2004, and the associated set of results, are organized by "survey area." Summer survey areas included: (1) surveys conducted at UARP recreation facilities, referred to as "Developed," and (2) surveys conducted in undeveloped areas generally located within one-quarter mile from a UARP reservoir shoreline, referred to as "Dispersed." Winter survey areas included the locations where visitors commonly parked along the snowplow route in the Crystal Basin. The UARP recreation facilities are defined as facilities that were constructed by SMUD as part of the original Recreation Plan for the UARP and the facilities that were constructed under the amended Recreation Plan as a result of the addition of the Jones Fork Powerhouse in the late 1980s. Creel Survey areas included the boat launch facilities at Ice House Reservoir, Loon Lake Reservoir, and Union Valley Reservoir.

The majority of survey results are contained in the appendices, presented in frequency tables or cross tabulation tables. The survey raw data is also available on CD by request in SPSS format, for additional analysis by interested parties. For some issues, comparisons of data from different survey areas or a more detailed analysis of the data was conducted, the results of which are presented in the body of this report (Section 4.0).

1.0 INTRODUCTION

This technical report is one in a series of reports prepared by Devine Tarbell & Associates, Inc., (DTA) and The Louis Berger Group, Inc. for the Sacramento Municipal Utility District (SMUD) as an appendix to SMUD's application to the Federal Energy Regulatory Commission (FERC) for a new license for the Upper American River Project (UARP or Project). This technical report focuses on recreation visitor use and impact at the UARP and documents the results of several visitor survey efforts conducted in 2002 and 2003. This report includes the following sections:

- **BACKGROUND** – Includes when the applicable study plan was approved by the UARP Relicensing Plenary Group; a brief description of the issue questions addressed, in part, by the study plan; the objectives of the study plan; and the study area. In addition, requests by resource agencies for additions to this technical report are described in this section.
- **METHODS** – A description of the methods used in the study, including a listing of study sites.
- **RESULTS** – A description of the salient data results. The appendices to this report include raw data and frequency tables; the raw data is provided by request in a separate compact disc (CD) for additional data analysis by interested parties.

- **FINDINGS** – A listing of broad findings.
- **LITERATURE CITED** – A listing of all literature cited in the report.

This technical report does not include a detailed description of the UARP Alternative Licensing Process (ALP) or the UARP, which can be found in the following sections of SMUD's application for a new license: The UARP Relicensing Process, Exhibit A (Project Description), Exhibit B (Project Operations), and Exhibit C (Construction).

Also, this technical report does not include a discussion regarding the effects of the UARP on recreational resources or associated environmental resources, nor does the report include a discussion of appropriate protection, mitigation and enhancement measures. A discussion regarding resource impacts associated with the UARP is included in the applicant-prepared preliminary draft environmental assessment (PDEA) document, which is part of SMUD's application for a new license. Development of resource measures will occur in settlement discussions and will be reported on in the PDEA.

The UARP Relicensing Plenary Group agreed that the study area would not include Pacific Gas and Electric Company's Chili Bar Reservoir or the 19.1-mile Reach of the South Fork American River (SFAR) downstream of Chili Bar Dam.

2.0 BACKGROUND

The UARP Recreation and Aesthetics Technical Working Group (Recreation TWG) developed a total of eight recreation studies to collect information to answer the issue questions relating to recreation resources associated with the UARP. This report contains the results of the Visitor Use and Impact Study.

2.1 Visitor Use and Impact Study Plan

On March 6, 2002 the UARP Relicensing Plenary Group approved the Visitor Use and Impact Study Plan (see front of report), which was developed and approved by the Recreation TWG on February 22, 2002. The study plan was designed to address, in part, the following issues questions developed by the Plenary Group:

Issue Question 20	What is the level of Project induced recreation (e.g., What would the recreational opportunities be today if the project were not built)?
Issue Question 31	What are the benefits of recreation associated with the UARP?
Issue Question 35	How is recreator behavior affected by Project operations?
Issue Question 37	What are the current and projected user conflicts related to recreation at or in the vicinity of the Project?

Issue Question 38	What are project related reservoir fluctuations that impact reservoir recreation?
Issue Question 41	What are the combined impacts to recreation relative to flows and reservoir levels of the UARP and Project 184 (Silver Creek confluence downstream)?
Issue Question 43	How do Project operations affect site qualities at developed recreation sites (e.g. lake levels)?
Issue Question 44	What are the effects of Project facilities and operations on wilderness values?
Issue Question 62	What are the existing and future use estimates for Project-related recreation?
Issue Question 63	What is the existing level of public information and interpretation about Project-related aspects and recreational opportunities, and is it adequate?
Issue Question 64	What are the opportunities for angling at Project waters and what is the level of angler satisfaction?

Specifically, the objectives of the study plan were to:

- Document use levels.
- Identify the parameters that determine impacts on recreation.
- Identify evaluation criteria for assessing impacts.
- Design survey tools to address the issues.
- Determine demand for different recreational opportunities in the UARP vicinity.
- Answer the pertinent issue question listed above.

As discussed above, this report does not address UARP impacts or protection, mitigation or enhancement measures. Therefore, this report does not completely answer Issue Question 63, “... *is the existing level of public information and interpretation... adequate?*”

In addition, the study area did not include Pacific Gas and Electric Company’s Chili Bar Reservoir or the 19.1-mile Reach of the SFAR downstream of Chili Bar Dam.

2.2 Recreation TWG Determination of Adequacy

At the July 28, 2004, Recreation TWG meeting, the Recreation TWG determined that the *Technical Report on Visitor Surveys 2002-03* is adequate subject to all comments submitted by the TWG participants and items 1 through 11 listed below being incorporated into a new version of the report and reviewed by the Recreation TWG.

In preparing the revised reports, SMUD agreed to highlight how or specifically define where the additional needs are addressed in the report (e.g., response to comments format). This document provides that summary to assist the Recreation TWG in its review.

The May 13, 2004, resource agency comment letter provided no comments on this technical report. However, the Recreation TWG developed specific comments and actions items for this report at its July 28 and August 8 meetings, as referenced below in parentheses.

Comment	Reference
1. Change title to be consistent with study plan title (July 28).	This change has been made.
2. Incorporate results from angler focus group, creel survey and Zone 3; do Revision 1 now, then Revision 2 after all 2004 surveys are complete (July 28).	The stream angler focus group and creel survey results have been incorporated into Revision 2. To date, the ENF and SMUD have not reached agreement on method of analysis of the Zone 3 survey data.
3. Include all survey results in report, make user friendly so participants can find results and findings to specific Issue Questions (July 28).	All of the survey results have been included in the report. Results about visitor activities are included in section 4.9.
4. Use estimates will be explained in the text. Off-line discussions need to occur with ENF to modify use estimates, i.e., develop a range, (July 28).	Use estimates were developed in consultation with the ENF staff and information provided by the agency has been incorporated into Sections 4.7 and 4.8 of the report.
5. Include “impact” component of study plan, copy from Supply (July 28).	Section 4.11 has been added to the report with the information from the <i>Recreation Supply Technical Report</i> about resource impacts noted during field inspections.
6. Remove all reference to the “hypothetical” survey question, “How likely or unlikely would you be to come to the Crystal Basin...” (July 28).	The results of the hypothetical survey question have been moved to the appendix.
7. Address all of the objectives starting on page 3 in the revised report (July 28).	The study addressed all of the objectives listed for this study.
8. Don’t include the appraisal results with the other survey efforts; include the appraisal results in an appendix (July 28).	The results of the appraisal survey efforts have been moved to the appendix.
9. Inconsistencies in tables will be discussed off-line with ENF (July 29, 2004, Rec TWG meeting). For tables such as 4-13 and 4-14, show the entire scale; and include info to reflect range of responses (August 9).	The information for these tables has been changed to show: (1) percentage of respondents for each response; (2) calculated mean value; (3) sample size; and (4) standard deviation.
10. Include preliminary findings in revised report (July 28).	Section 5.0 includes a list of preliminary findings for this study report.

Comment	Reference
<p>11. Activities data to be analyze and presented using alternative, more rigorous statistical methods (e.g., p 48 4.4-16), to be discussed off-line with ENF (July 28). Add new section on results of activities data. Show activities by facility/resource area, including all listed activities (primary-tertiary) show activities by reservoir, show activities by similar facilities (West Point and Camino Cove campgrounds). Put this section in the Demand Study Report as well (August 9).</p>	<p>Section 4.9 has been added to the report and this section includes the activity information (all activities as well as primary activities) reported in the visitor survey responses. The data are sorted by reservoir and facility.</p>

3.0 METHODS

This section is organized primarily by survey effort, starting with summer 2002. For each survey effort, the survey development process is described, including considerations given in deciding on the data collection method, the survey instrument and the sampling plan. Because the summer 2002 survey effort was the initial survey and involved multiple survey areas, more detail is provided on its methodology.

The following terms describe areas where surveys were conducted, generally in relationship to UARP reservoirs. A description of the UARP recreation facilities and dispersed areas near the UARP, including detailed maps showing their locations, is contained in the *Recreation Supply Technical Report*. Figure 3.0-1 shows the general location where the summer 2002 surveys were conducted in relationship to the four primary UARP reservoirs (Ice House, Union Valley, Gerle Creek and Loon Lake).

Developed: detailed surveys conducted at UARP recreation facilities. The UARP recreation facilities are defined as facilities that were constructed by SMUD as part of the original recreation plan for the UARP and the facilities that were constructed under the Exhibit R of the Jones Fork amendment to the UARP license.

Dispersed: detailed surveys conducted at undeveloped areas around the four primary UARP reservoirs (Ice House, Union Valley, Gerle Creek and Loon Lake), generally within one-quarter mile from the reservoir shoreline. The survey areas were identified during the May 16, 2002, survey design meeting held at the Eldorado National Forest's (ENF) Pacific Ranger District office.

Dispersed Windshield – Crystal Basin: detailed surveys left on vehicles parked at the wilderness trailhead at Loon Lake Reservoir and on visitor's vehicles parked at dispersed areas adjacent to UARP reservoirs or bypassed reaches in the Crystal Basin where the visitor was not present.

Dispersed Windshield – Canyonlands: detailed surveys left on vehicles parked at undeveloped recreation areas in the lower portion area of the UARP from Camino Reservoir to White Rock Powerhouse. This area includes Slab Creek Reservoir and Brush Creek Reservoir.

Winter 2002-03 Windshield: detailed surveys left on vehicles parked along the snowplow route in the Crystal Basin during the 2002-03 winter recreation season. The snowplow route generally follows Ice House Road to the Loon Lake Powerhouse, with side routes to the West Point Boat Launch, Ice House Boat Launch, Big Hill and the Gerle Dam access road.

Winter 2002-03 Chalet: self-administered surveys focusing on the Loon Lake Chalet made available inside the Chalet during the 2002-03 winter recreation season.

Stream Angler Focus Group: an informational meeting conducted on April 10, 2004, with stream anglers who have knowledge of stream fishing at or near the streams located downstream of UARP dams.

Creel Survey: surveys conducted at Ice House, Union Valley and Loon Lake reservoirs to estimate fishing effort, catch rate, and angler satisfaction during the summer 2004 shoulder seasons (March 20 through June 30, and September 7 through October 31).

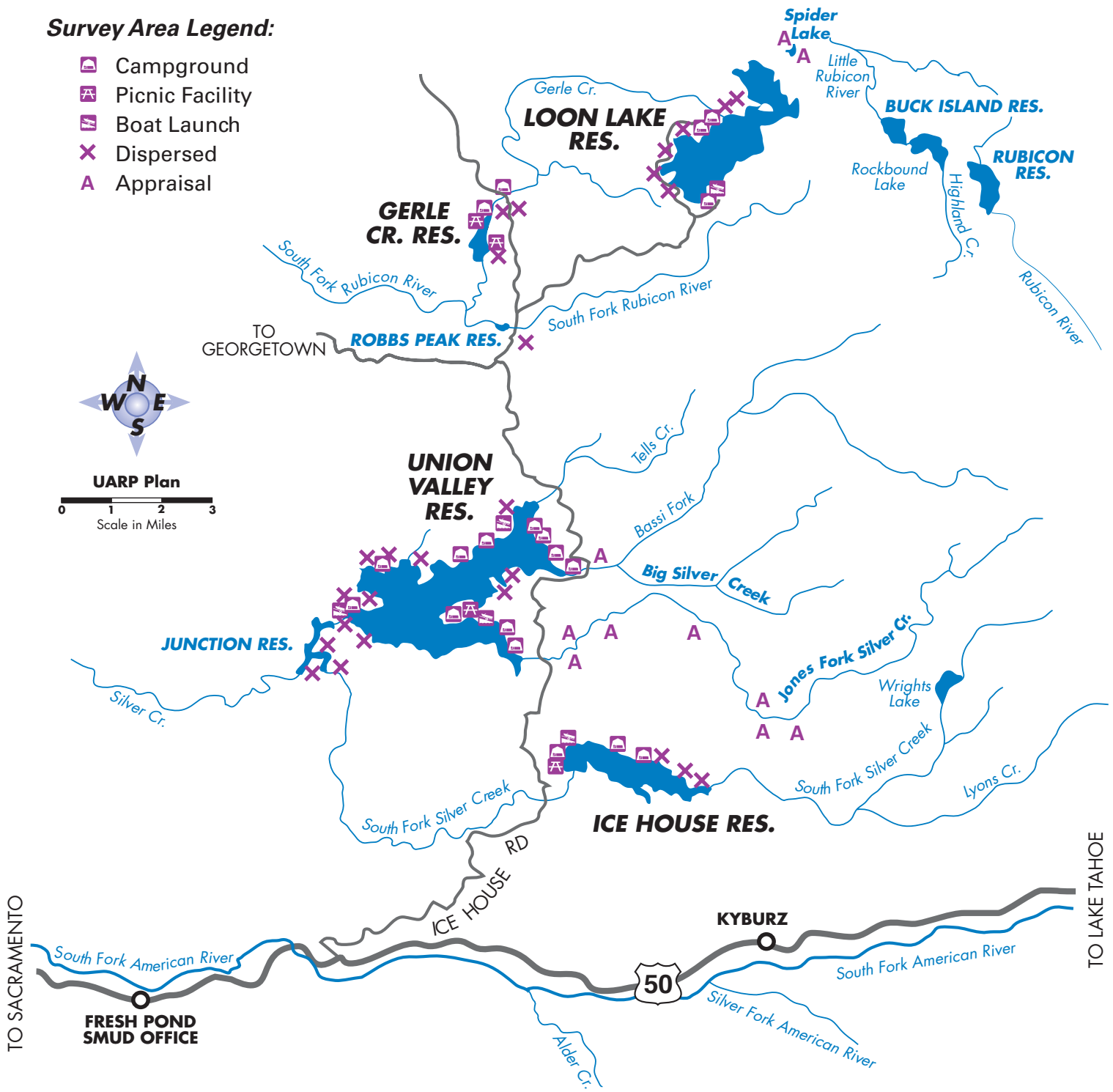
In addition to the above surveys, SMUD conducted abbreviated surveys – referred to as appraisal surveys – during the summer of 2002 and the summer of 2003 to assess the relationship of visitors in dispersed areas, located generally beyond one-quarter mile from the shoreline of a primary UARP reservoir, to the UARP. A description of the appraisal survey locations, methodology and results are contained in Appendix G. Also contained in Appendix G are the results of the hypothetical survey question SMUD asked in all summer surveys conducted in 2002 and 2003 concerning visitor relationship to the UARP.

3.1 Summer 2002 Surveys

3.1.1 Developing the Survey Plan

Following the Plenary Group approval of the Visitor Use and Impact Study Plan on March 6, 2002, SMUD consulted with interested parties in developing the summer 2002 survey plan, particularly in the areas of collection methods, sampling locations, survey design and instrumentation. Appendix A.1 contains the Survey Process Paper developed by SMUD, with input from interested parties, prior to conducting the summer 2002 surveys. The Survey Process Paper included a description of the primary data collection methods, sampling locations, survey design, scheduling, instrumentation, data management and analysis. Appendix A.2 contains a summary of the pretests conducted by SMUD prior to conducting the surveys, and Appendix A.3 is a summary of notifications distributed by SMUD to the Recreation TWG participants informing them of meetings to develop the survey plan.

Figure 3.0-1 General location of summer 2002 visitor surveys relative to the four primary UARP reservoirs.



Roads Note: Only Primary and Secondary Highway roads are shown. Paved roads (without center line), gravel roads, and dirt roads are not shown.



Although extensive collaboration occurred in developing the summer 2002 survey plan, and most aspects of the survey effort were acceptable to all interested parties, the interested parties did not officially approve the Survey Process Paper prior to survey implementation on July 4, 2002. A primary area of concern was the approach used to assess UARP-related recreation primarily in areas where dispersed recreation occurs.

After reviewing the results of the 2002 survey effort and focused consultations with the Recreation TWG, SMUD agreed to conduct three additional survey efforts in 2004 as described in Section 3.3 – a stream angler focus group, a creel survey and a survey of visitors in Zone 3.

3.1.2 Primary Data Collection

SMUD implemented two types of data collection methods for surveys in 2002: face-to-face interviews and windshield surveys. The primary method was face-to-face interviews, representing 92 percent of the surveys collected. Windshield surveys were used for the survey populations that are widely dispersed, making face-to-face interviews less appropriate. In selecting the data collection methods, SMUD considered the appropriateness, advantages and limitations of the different methods. SMUD also considered all forms of potential sources of error, including errors in sampling, questionnaire errors, interviewer error, and respondent error. The various survey instruments are contained in Appendix B.

Face-to-Face Interviews

As the interviewer is the dominant factor in the value of the data obtained, interviewers were carefully screened and selected. Prior to conducting the actual surveys, all interviewers were trained in the role and nature of the study, the role and importance of the interviewer, selection of respondents, unbiased interviewing techniques, safety, and proper recording of respondent answers. All interviewers participated in a pre-survey site visit in order to orient themselves to the geography and completed onsite practice sessions.

Members of the field survey team were selected on the basis of demonstrated expertise in recreation and/or market research (Table 3.1-1). Two members had emergency medical team certifications.

Table 3.1-1. Field survey team during the 2002 summer survey period.	
<i>SMUD Interviewers:</i>	<i>Framatome ANP DE&S (now DTA) Interviewers:</i>
Joe Davis ¹ , Hydro Relicensing	Carol Efird ³ , Recreation Specialist
Ann Graef, Research & Evaluation	Martha Goodavish, Recreation Specialist
Daune Kirrene ² , Research & Evaluation	Justin Klaurens, Associate Scientist
Rian Troth, Research & Evaluation	Patrick McKowen ² , American River College, student (Recreation)
Tom Jas, Research & Evaluation	Lindsey Potor, UC Berkeley, student
Gib Gianandreal ⁴ , Power Gen., Hydro	Jennifer Dassel, CSUS, student (Communications)
	Derek Hatzenbuhler, UC Davis, student (Economics, Mkt. Research)
	Jesus Villalvazo, CSUS, student (Economics, Mkt. Research)

¹SMUD interview team lead ²EMT certified ³The Louis Berger Group interview team lead ⁴Canyonland windshield surveys only

Windshield Surveys

Careful consideration was given to the limitations of windshield (i.e., mail-in) surveys, primarily the lack of control over respondent to ensure completeness and the lack of opportunity to explain questions or to probe for meanings of replies. However, every effort was made to achieve a successful response rate by carefully crafting the survey instrument for clear directions, providing a postage paid envelope, and by providing a contact name for questions. In addition, to further increase the response rate, a five-dollar gift certificate for Big 5 Sporting Goods was mailed to respondents who completed and returned the survey. The survey was pretested to ensure its effectiveness and clarity.

3.1.3 Sampling

3.1.3.1 Locations

All surveys occurred on either ENF-managed or SMUD-owned lands. SMUD and ENF staff identified the following sampling locations during the May 16, 2002 survey design meeting held at the ENF's Pacific Ranger District office:

Developed UARP facilities (boat launches, campgrounds & picnic areas) located at:

- Ice House Reservoir
- Union Valley Reservoir
- Gerle Creek Reservoir
- Loon Lake Reservoir

Fashoda Campground and Picnic Area were eliminated as survey locations due to closure during the summer of 2002 for the construction of the shower facility. Angel Creek and Gerle Creek Picnic Areas were treated as one site due to trail construction at Angel Creek Picnic Area.

Dispersed areas (generally within one-quarter mile from a UARP reservoir shoreline) sampled included:

Ice House Reservoir:

- Two sites on south shoreline, upstream end (overnight)
- South Fork Silver Creek above Ice House Reservoir (day-use)
- Strawberry Campground to South Fork Silver Creek (day-use)
- Strawberry Campground to Northwind Campground (day-use)
- Northwind Campground to Ice House Campground (day-use)

Union Valley Reservoir:

- East of Sunset Boat Ramp (day-use)
- South shore (overnight)
- Lizard Rock (day-use)
- Southeast of Lizard Rock (day-use)
- SMUDEA to Yellowjacket (day-use)
- Southwest of Yellowjacket (day-use)
- Southwest of Wolf Creek (day-use)
- Camino Cove-East (day-use)
- Camino Cove-West (day-use)
- North of West Point (day-use)
- East of West Point (overnight)
- Between West Point boat launches (overnight)

Gerle Creek Reservoir & Robbs Forebay:

- Wentworth Springs Road & Gerle Creek – southwest quarter (overnight)
- Wentworth Springs Road & Gerle Creek – northwest quarter (overnight)
- Wentworth Springs Road & Gerle Creek – southeast quarter (overnight)
- Forest Service Road No. 13N52-1st area (overnight)
- Forest Service Road No. 13N52-2nd area (overnight)
- Angel Creek Picnic Area-north (overnight)
- Angel Creek Picnic Area-south (overnight)
- Ice House Road & South Fork Rubicon River – southeast quarter (overnight)
- Ice House Road & South Fork Rubicon River – northwest quarter (day-use)
- Forest Service Road No. 13N29A-end of road (overnight)

Loon Lake Reservoir:

- Pleasant Lake-north (overnight)
- Pleasant Lake-south (overnight)
- North of main dam near spillway (day-use)
- Red Fir drive to main dam (primarily overnight, some day-use)
- North Shore drive to Red Fir drive (primarily overnight, some day-use)
- Winter ski trail sign to North Shore drive (primarily overnight, some day-use)
- Informal boat launch to winter ski trail sign (primarily overnight, some day-use)
- Auxiliary dam-north (day-use)
- Chalet to Auxiliary dam (primarily day-use, some overnight)

Junction Reservoir:

- South of Union Valley Dam (overnight)
- Southwest of Union Valley Dam (overnight)
- Undeveloped boat launch (overnight)
- Bryant Springs Rd. & South Fork Silver Creek – northwest quarter (overnight)
- Below Junction Dam (day use)

Dispersed areas sampled in the Canyonlands (lower UARP, Camino Res. to White Rock Powerhouse) included:

- Silver Creek at the Jaybird Powerhouse
- Forebay Road & South Fork American River
- Brush Creek Reservoir at end of road
- Forest Service Road No. 11N96 @ Slab Dam
- Forest Service Road No. 11N96 @ Slab Reservoir boat launch site
- Mosquito Road & South Fork American River

A description of the UARP recreation facilities and dispersed areas near the UARP, including detailed maps showing their locations, is contained in the *Recreation Supply Technical Report*. Figure 3.0-1 shows the general location where the 2002 summer surveys were conducted in relationship to the four primary UARP reservoirs.

3.1.3.2 Sampling Design

The survey population was considered to be the recreation users of the Crystal Basin Recreation Area that have a probable or possible relationship to the UARP. Sample units were considered to be the individuals responding to the survey, not the groups accompanying them on their visit. Individuals under 18 years of age were considered not eligible for inclusion. Eligible individuals were allowed to respond once during the survey timeframe.

Every attempt to collect a sufficient number of respondents was made, even though they may be a relatively small proportion of the survey population. The population was divided into subsamples by geographic survey locations (i.e. reservoir general areas – Ice House, Union Valley, Gerle, and Loon Lake) and by “developed” versus “dispersed” orientation. This stratified sampling design was used for the developed facilities as it is assumed that there is little variance in the population within the segments and a greater variance among them.

The ENF provided annual visitor use numbers in recreational visitor days (RVDs). An average was taken from 1996 through 1999. More recent data than 1999 was not available from the ENF at the time this survey plan was developed. RVD numbers were provided for boat launch facilities, campgrounds and picnic areas/trailheads. Specific considerations were given to the following sites based on the professional judgment of the ENF:

- Azalea Cove and Lone Rock Campgrounds at Union Valley Reservoir were treated as one site
- Loon Lake Campground included the boat ramp campsites for recreational vehicles and the equestrian campground
- Loon Lake Picnic Area is included in the Loon Lake Boat Launch facility numbers

The average number of visitors in RVDs was converted to recreation days (RD) using the following conversion factors provided by the ENF, by activity and/or recreation venue:

- Boating: 1 RVD is approximately 12 people for 1 hour (RVDs/.083 = recreation days)
- Campgrounds: 1.5 RVD equals 1 person (RVDs/1.5 = recreation days)
- Picnic Areas/Trailheads: 1 RVD is approximately 6 people for 2 hours (RVDs/.167 = recreation days)

“Recreation days” are defined as a single visit by a person during any portion of a 24-hour period. A table of annual use for each facility, presented in RVDs and equivalent “recreation days”, is provided in Appendix A.4. Based on the conversion factors stated above, the UARP-related developed facilities host a total of 334,664 recreation days per year. “Total recreation days” represents the population for the 2002 surveys at developed facilities. A breakdown of visitation by primary reservoir and by activity is shown in Table 3.1-2. Based on the estimated total “recreation days” by reservoir, the total number of surveys to be conducted at each reservoir was originally determined to be 175 in order to attain a 95 percent confidence level and ± 7.5 percent margin of error within each reservoir. Upon further review after surveying, it was found that the actual number of surveys to achieve this confidence level and margin of error was 171. Thus, only Ice House, with 167 surveys, was slightly short of goal (Table 3.1-3). Note that the total recreation days estimated below, were estimated specifically for the purposes of estimating surveying estimates and are not utilized in calculating UARP use further in this report.

	Ice House %		Union Valley %		Gerle Creek %		Loon Lake %	
Percentage of 334,664 total recreation days	24 %		42 %		6 %		28 %	
Total Recreation days	80,827		140,706		18,605		94,526	
Boating	35,786	44%	57,202	41%	N/A	0%	72,783	77%
Camping	37,385	46%	83,504	59%	15,698	84%	20,816	22%
Picnic/Trailhead¹	7,656	9%	N/A ²	0%	2,907	16%	927	1%

¹ Windshield surveys were used at the trailhead parking facility at Loon Lake.

² Fashoda Picnic Area was closed during the summer of 2002 due to construction of the shower facility.

* Total percentages may not equal 100 due to rounding.

	Ice House	Union Valley	Gerle Creek	Loon Lake
Total Surveys	175 / 167	175 / 171	175 / 175	175 / 184
Boating	77 / 71	68 / 67	N/A	136 / 136
Camping	81 / 77	107 / 104	148 / 146	39 / 48
Picnic/Trailhead	17 / 19	N/A	27 / 29	N/A ¹

¹ The results from the completed windshield surveys at the trailhead parking facility at Loon Lake are included within the “Windshield – Crystal Basin” data set.

Using a stratified random sample design developed in cooperation with the ENF, the number of surveys conducted at each facility per reservoir was proportional to the number of visitors. A total of 845 interviews were initiated at the developed facilities, with 697 interviews completed (82 percent of attempted interviews – 148 interviews were not completed due to participant’s refusal, prior participation or lack of meeting the age requirement). The 697 completed interviews represent a 95 percent confidence level within a margin of error of ± 4 percent at the global Crystal Basin/UARP-related level.

In order to evaluate certain survey questions at a global Crystal Basin/UARP-related level, data was weighted to accurately reflect recreation use at each reservoir. Of the total 697 surveys completed at developed facilities, 24.0 percent occurred at Ice House, 24.5 percent at Union Valley, 25.1 percent at Gerle Creek, and 26.4 percent at Loon Lake. Actual recreation use at each reservoir is 24.2 percent at Ice House, 42.0 percent at Union Valley, 5.6 percent at Gerle Creek, and 28.2 percent at Loon Lake. To compensate for the difference, and not over or under emphasize one reservoir relative to the others, a weighting factor was calculated for each reservoir and applied to the data (Table 3.1-4). For example, cases at Ice House warranted adjustment by 0.2 percent, inflating the number of surveys from 167 to 169.

	Ice House	Union Valley	Gerle Creek	Loon Lake
Actual Surveys by Reservoir	167	171	175	184
Total Surveys Completed	697			
% of Completes	24.0%	24.5%	25.1%	26.4%
Total Recreation days per Reservoir	80,827	140,706	18,605	94,526
Total Recreation days at Crystal Basin	334,664			
% of Total Recreation days	24.2%	42.0%	5.6%	28.2%
Adjustment Based on Usage	0.2%	17.5%	-19.5%	1.8%
Number of Surveys Needed	169	293	39	197
Weight to be Applied	1.012	1.713	0.223	1.071

SMUD anticipated the potential for subsamples (e.g., those respondents interviewed at Ice House Reservoir who identified “Fishing – Lake or Reservoir” as their most important activity) in designing the sample, recognizing the limited applicability of the results relative to the total population of that given subgroup. In these isolated cases, other types of intelligence may be used to assist in answering the issue questions and making decisions.

3.1.3.3 Scheduling

Developed Facilities

The majority of interviews were conducted over a 61-day period in 2002, from Thursday, July 4 through Monday, September 2. Sampling was performed on weekdays and weekends. Special weekdays on or near major holidays – Thursday, July 4; Friday, July 5; and Monday, September 2 – were classified as weekend days. Actual sampling days were determined randomly on a rotating basis of one weekend day to one weekday. The equal sampling distribution between weekdays and weekend days was designed to compensate for the fact that midweek use is approximately half of the weekend use. Enough days were randomly generated to accommodate the number of surveys required for each facility. In mid-August SMUD decided to extend the survey schedule through September 15 for a few facilities where the actual number of completed surveys was slightly below expectation. Unexpected events, such as the St. Pauli Fire, caused most of these deviations.

SMUD and the ENF agreed to the following interview times per facility type:

- Boat Launches: 10 am to 2 pm and 3 pm to 7 pm
- Campgrounds: 7 am to 10 am and 4 pm to 7 pm
- Picnic Areas: 10 am to 2 pm and 2 pm to 6 pm

The number of expected interviews per day at each site was based on the assumption that one completed survey would take approximately 30 minutes. This time period included pre- and post-survey activities as well as travel time between interview subjects. Therefore, one person was expected to complete a maximum of six surveys within a three-hour interview period or eight surveys within a four-hour interview period. The ENF provided use estimates by facility, interview time and weekday vs. weekend day orientation, for the minimum number of interviews obtainable.

At all locations, respondent selection was based on an “nth” sampling procedure (i.e., an n of 2 means every other group was selected, an n of 3 means every 3rd group was selected, etc.). In campgrounds, the nth sampling procedure begins with a randomly selected campsite as the starting point. At boat launches and picnic facilities, interviewers excluded “quick stop” people from their potential pool (e.g., those just stopping to put garbage in a dumpster). An n of 2 was used at all facilities except for the larger campgrounds (Ice House, Sunset, Wench Creek Family, Gerle Creek, and Loon Lake) where an n of 5 was used to allow a greater range of campsites to be surveyed. An n of 0 was used at the group campsites – Big Silver, Wench Creek, Loon Lake, and Loon Lake Equestrian – and Loon Lake Chalet was treated as one sampling unit. Affinity

bias was minimized by precise instruction to the interviewers that when approaching a group, the interviewer selects the respondent via a “birthday quiz” whereby selection is made based on the closest birthday to the date of survey.

Appendix A.5 is a schedule table showing completed surveys at developed facilities.

Dispersed Areas

At dispersed areas near the reservoirs, sampling occurred on two holiday weekend days (one from the July 4th weekend and one from the Labor Day weekend), two non-holiday weekend days, and two non-holiday weekdays (randomly selected), for a total of 6 days during the 61-day sample period. Because the population size was unknown (i.e., specific use data did not exist for dispersed use areas near the UARP), professional judgment was used to determine the number and type of sample days. Use estimates for dispersed areas were developed based on the results of the surveys and other data collected during the sample period, and are presented in Appendix D of this report. Surveys (face-to-face interviews and windshield) at “day-use” dispersed areas were conducted between 10:00 am and 5:00 pm. Windshield surveys were left on vehicles parked at the wilderness trailhead at Loon Lake Reservoir and on visitor’s vehicles parked at dispersed areas adjacent to UARP reservoirs or bypassed reaches where the visitor was not present. Face-to-face interviews at “overnight” dispersed areas were conducted in either the morning or the evening.

An *n* of 0 was used at all dispersed areas near the reservoirs except in the following case: for all dispersed areas between Loon Lake’s auxiliary dam and the main dam, if a large number of groups occupied the area an *n* of 3 was used. The number of face-to-face interviews completed at dispersed areas near the reservoirs and the number of windshield surveys administered in the Crystal Basin is shown in Table 3.1-5. Of the 75 windshield surveys administered in the Crystal Basin, 33 were completed and returned – a response rate of 44 percent.

Table 3.1-5. Schedule table for completed face-to-face surveys at dispersed areas near the reservoirs and the number of windshield surveys administered in the Crystal Basin during the 2002 summer survey period.

	7/6	7/16	8/3	8/11	8/19	8/31	
	Sat.	Tues.	Sat.	Sun.	Mon.	Sat.	
	(Face-to-Face Surveys / Windshield Surveys)						Total
Ice House Res. area	3 / 0	1 / 0	3 / 1	1 / 2	0 / 2	1 / 1	9 / 6
Union Valley Res. area	6 / 0	4 / 0	4 / 0	2 / 2	0 / 0	5 / 0	21 / 2
Junction Res. area	1 / 0	0 / 0	0 / 2	2 / 0	0 / 1	2 / 0	5 / 3
Gerle Creek Res. area	2 / 1	0 / 0	2 / 2	3 / 0	0 / 0	3 / 1	10 / 4
Loon Lake Res. area	6 / 20	2 / 7	3 / 10	5 / 11	1 / 3	6 / 9	23 / 60
Total	18 / 21	7 / 7	12 / 15	13 / 15	1 / 6	17 / 11	68 / 75

Canyonlands Areas

Windshield surveys were used exclusively in the Canyonlands (defined as Camino Reservoir downstream to White Rock Powerhouse for this survey effort). The survey schedule was the

same as described above for Dispersed Areas. The surveys were either placed on vehicle windshields parked at sampling locations if respondents were not present or were handed to respondents if they were viewed near the sampling location and were easily accessible. Additionally, visitor use was documented at sampling locations and on or around Camino Reservoir, Brush Creek Reservoir and Slab Creek Reservoir, and is presented in Appendix D of this report.

3.1.4 Instrumentation Development

There were several survey instruments used during the 2002 summer survey period, including: one for developed sites (campgrounds, day use areas and boat launches); one for identified dispersed use areas near the reservoirs (day use and overnight); and two windshield (mail-in) versions specific to either Crystal Basin or Canyonlands locations.

The various survey instruments are contained in Appendix B.

In developing the survey questions, SMUD and interested parties considered issues of brevity, clarity, simple vocabulary and sentence structure, appropriate categories and sources of bias or error. Scales were kept short and concise, respecting the respondent and wherever possible, handling neutrality issues carefully. Issues of clear organization and directing response flow were considered on both the personal interviews and the windshield surveys.

Questions on the dispersed survey and windshield surveys are virtually similar in content to the questions in the developed survey, with minor language changes indicating the different survey locations. For example, on the developed questionnaire, a respondent was asked if their visit to Ice House Reservoir was the primary destination of their trip. On the dispersed questionnaire, a respondent was asked if their visit to this location was the primary destination of their trip. On the windshield questionnaires, respondents are asked if their visit to this area was the primary destination of their trip. Also, the Canyonlands windshield survey listed Canyonland reservoirs in responses as opposed to Crystal Basin reservoirs.

A total of two additional questions were asked in the dispersed and windshield questionnaires: 1) a question regarding the number of vehicles a group brought on the visit (dispersed); and 2) a question regarding intention to stay at a developed campground (Crystal Basin windshield). Results from the first additional question was used in estimating dispersed use near the UARP, and results from the second question can be considered in assessing visitor's relationship to the UARP.

3.1.4.1 Survey Construction

Interviewers were provided with an introduction script that identifies the need for collecting the information, obtains the potential respondent's cooperation, and reassures the respondent of the confidentiality of responses.

The screening questions assisted in the sampling design rule to collect responses from appropriate individuals (age 18 or above). In order to avoid interviewing a respondent twice within the Crystal Basin, screening was expanded to exclude those who have already previously been surveyed either by this survey effort or any other survey efforts conducted with the Crystal Basin Recreation Area within the same sampling timeframe.

Core questions were designed to address relicensing issues and needs. Whenever the interviewer provided a list of items, their order was randomized to avoid response bias. Interviewers used randomized cards to assist in these questions.

To create recreation user profiles, the respondents were asked their zip code of residence, the number in their party, length of stay, and the number of years coming to the Crystal Basin. Standard demographic questions were not included in the interest of reducing interview time when weighed with the fact that the purpose of the survey was not to profile users for marketing efforts. Where applicable, the interviewer also collected weather, time, specific location, date, interview start and stop times, gender, and refusals.

With consideration given to both the interviewer and the respondent, the survey instruments were unobtrusively precoded to assist in data entry. Interviewers were provided with clear definitions of terms used throughout the survey: developed campgrounds, undeveloped, motorized, non-motorized, recreation activities, non-recreation activities, type of experience, quality of experience, develop swimming/beach areas, two-lane paved road access, off highway vehicles, personal water craft, wilderness permits, environmental or educational displays. Interviewers were also instructed to repeat questions and instructions upon the request of the respondent or in clear instances where the respondent appeared to need clarification. Interviewers repeated the questions verbatim and/or provided clarification based on definitions of terms. Interviewers did not paraphrase any question in order not to interject interviewer bias. On any question making use of the cards with activities, settings, or facilities and services listed, the interviewer confirmed the responses before recording on the instruments. Interviewers were asked to record open-ended responses verbatim in order not to interject interviewer bias. This means they did not record a “story” that comes with the answer but did record the actual message verbatim.

Interviewers were responsible for reading questions and responses that were in boldface type. This was particularly important in questions where the responses of “don’t know” and/or “no opinion” were not to be spoken to the respondent but included on the survey instrument for purposes of recording the response should the respondent insist on this category.

Directions to continue to an additional branch, to skip to another question, to record response, and to check or circle a response were provided to assist the interviewer.

3.1.4.2 Pretesting

Pretesting of survey instruments occurred on May 18, May 25, and June 15, 2002. Pretesting focused on the following elements: did the respondents understand the questions, did the

respondents understand the scales, did the respondents understand the instructions, timing the interview to control length, noting easy or difficulty of the respondents working through the flow of the questions, observing reactions, and attempting to capture any serious errors, oversights or problems. A summary of the pretesting is contained in Appendix A.2

3.1.5 Data Management and Analysis

3.1.5.1 Collection

Monitoring and control of the actual data collection was considered in order to avoid serious problems or delays. Completed survey instruments were collected by the site team lead person and reviewed for completion and proper recording. Face-to-face interviews were conducted with a minimum of interruption to the recreation users. For example, boat launch interviews were conducted at facility exit points, after the visitor has concluded their primary activity. Interviewers were disciplined in potential interviewing error and bias. Interviewers were instructed to contain non-survey related conversations to the minimum possible in order not to skew overall interview time.

3.1.5.2 Processing and Quality Control

Postcoding of non-precoded responses was necessary, establishing guidelines for the data entry individual. All open-ended questions were either coded or left verbatim. Coding for all questions was developed in cooperation with the interested parties (e.g. ENF, NPS).

Based on the nature of the data and the desired analysis, the Statistical Package for the Social Sciences (SPSS) was selected as the analysis software. As data was entered, efforts were made to control data record errors. Ten percent of all surveys were double entered, to verify accuracy in reporting. In addition, frequencies checks were performed at every 100th entry to look for errors.

3.2 **Winter 2002-03 Surveys**

Appendix A.6 contains the Survey Process Paper developed by SMUD, with input from interested parties, prior to conducting the winter 2002-03 surveys. The Survey Process Paper included a description of the primary data collection methods, sampling locations, survey design, scheduling, instrumentation, data management and analysis. In general, the interested parties found the winter survey plan acceptable.

There were two survey instruments used to collect visitor information about winter activities and services in the Crystal Basin. One survey was made available to visitors at the Loon Lake Chalet for visitors (one per party) to voluntarily complete. In addition to the surveys available in the Loon Lake Chalet, SMUD distributed windshield surveys at all winter recreation parking areas commonly plowed by SMUD along Ice House Road, including Wentworth Springs Road (to Gerle Creek Dam access road), the road to the Ice House Boat Launch and the road to the West Pont Boat Launch.

SMUD developed the survey instruments with input from the interested parties. Although the interested parties did not officially approve the instruments, SMUD believes the instruments were acceptable to the interested parties. The survey instruments were pretested to ensure effectiveness and clarity. To further increase the response rate, a five-dollar gift certificate for Big 5 Sporting Goods was mailed to respondents who complete and return a survey. The survey instruments are contained in Appendix B.

SMUD also provided its hydro operations and maintenance field staff with recreation observation cards to note any recreation activity observed in the Canyonlands area during January through May 2003. The hydro operations and maintenance staff occasionally drive past portions of the reservoirs during normal business hours, Monday through Thursday. No cards were returned.

3.2.1 Snowplow Route Parking Areas

Windshield surveys were administered on 18 days during the winter recreation season (December 16, 2002, through March 31, 2003), between 10:00 am and 2:00 pm. Since winter use estimates did not exist, the number of survey days was based on the following estimates and assumptions: 100 completed surveys was the goal, 75 from weekends and 25 from weekdays; assuming a 50 percent return rate and 20 vehicles on weekends and 5 vehicles on weekdays, 8 weekend days and 10 weekdays were needed. The survey dates were randomly selected. If weather conditions did not permit access on the randomly selected day, surveys were administered on the next available day (e.g., a cancelled weekend day was rescheduled for the next available weekend day).

Distributed surveys were logged as to specific location, date, day of week, time and weather conditions. The survey included an envelope with pre-paid postage to return the completed survey to SMUD.

Vehicle counts were also conducted each sample day to develop use estimates. Administrative use vehicles (i.e. ENF and SMUD) were counted separately from visitor vehicles. The person administering the surveys drove up to the Loon Lake Chalet and administered windshield surveys at vehicles parked along the roads. As the observer left the Loon Lake Chalet, counts were made of the number of parked cars and on-coming (moving) vehicles they encountered throughout the snowplowed route. Use estimates are presented in Appendix D of this report.

The number of winter windshield surveys administered is shown in Table 3.2-1. Of the 466 windshield surveys administered, 223 were completed and returned – a response rate of 48 percent. All open-ended questions were either coded or left verbatim. Coding for all questions was developed in cooperation with the interested parties. A total of eight visitors completed and returned more than one survey (i.e., they visited the area often during the winter); for each of those individuals, only one survey was randomly selected and included in the results data set of 223 completed surveys (Appendix C.5).

Table 3.2-1. Schedule table for the number of windshield surveys administered along the snowplow route during the 2002-03 winter survey period (weekends and holidays are bolded).

Survey Date	Number of windshield surveys left on vehicles
25 Dec 2002 Wednesday	17
3 Jan 2003 Friday	27
5 Jan 2003 Sunday	56
7 Jan 2003 Tuesday	9
9 Jan 2003 Thursday	3
15 Jan 2003 Wednesday	7
17 Jan 2003 Friday	14
25 Jan 2003 Saturday	46
28 Jan 2003 Tuesday	10
8 Feb 2003 Saturday	49
11 Feb 2003 Tuesday	6
18 Feb 2003 Tuesday	9
23 Feb 2003 Sunday	53
2 Mar 2003 Sunday	57
8 Mar 2003 Saturday	42
11 Mar 2003 Tuesday	7
26 Mar 2003 Wednesday	0
30 Mar 2003 Sunday	54
Total	466

3.2.2 Loon Lake Chalet

The Loon Lake Chalet survey was self administered, and was made available on a table within the Chalet's main cabin (i.e., family room / kitchen area). SMUD's graphics department prepared a box that held the blank surveys and served as a repository for completed surveys. The survey box was attractive, drawing the attention of the visitors, and described the purpose (e.g., Recreation Winter Survey) in a manner that was legible from any distance within the main cabin. The Chalet survey was administered by the ENF staff who lodged in the Chalet's winter patrol quarters. SMUD provided two survey boxes (one as a backup), and a supply of blank surveys, and was available to assist as needed throughout the winter survey period. The ENF staff collected the completed surveys and provided them to SMUD.

A total of 51 surveys were completed. All open-ended questions were either coded or left verbatim. Coding for all questions was developed in cooperation with the interested parties.

3.3 **Summer 2004 Visitor Surveys**

SMUD, in consultation with the Recreation TWG, conducted three focused survey efforts during the summer, 2004: 1) a focus group of stream anglers who have experience fishing in the reaches below UARP dams; 2) a creel survey of anglers at Ice House, Union Valley and Loon Lake reservoirs; and 3) a survey of visitors to dispersed sites in Zone 3. These surveys were conducted to address concerns raised in the Recreation Internal Focus Group (IFG).

3.3.1 Stream Angler Focus Group

The methods for the stream angler focus group conformed to those approved by the UARP Relicensing Plenary Group for the overall Visitor Use and Impact Study Plan, as refined in the February 28, 2004, Stream Angling Focus Group Study Plan (Appendix A.7), which was developed and approved by the Recreation TWG. This study required that a focus group of anglers convene to provide information about the stream reaches below UARP dams. Each participant individually completed a survey that queried the participant about general angling information and about specific reaches below UARP dams. After the participants completed their surveys, a group discussion was conducted and documented by notes and audiotape.

The focus group was designed to include 8 to 15 experienced stream anglers with knowledge about central Sierra Nevada streams and past experience in stream fishing in the Crystal Basin or streams below UARP dams (e.g., Gerle Creek, South Fork Silver Creek, Silver Creek, and the South Fork American River) to participate in a one-day (5 hours with a meal provided) focus group. The focus group meeting was designed to include individual surveys and a facilitated group discussion which was audiotaped. Recreation TWG members helped to identify the stream anglers who could participate in the focus group. A survey was developed from the list of questions created by the Recreation TWG and the fishing subcommittee members. The survey consisted of a General Information Questionnaire and a Stream Reach Information Questionnaire (Appendix B.7). Each of these survey instruments was sent to the Recreation TWG for approval on March 25, 2004. A list of discussion questions for the group discussion was also developed (Appendix B.7).

Participants in the Stream Angler Focus Group were selected based on recommendations from Recreation TWG members and contacts with local fishing organizations and outdoor retailers. The main criterion for selecting the participants was angling experience in the Crystal Basin or streams below UARP dams. SMUD contacted each potential participant by phone to solicit their participation and followed up with a letter to each participant to confirm their participation and provide logistical details of the meeting. In all, there were eight participants in the focus group. Ages ranged from 38 to 66 years old and all of the participants were male. Participants included: Bob Macy, Michael Matus, Monte Hendricks, John Murphy, Chris Schnaidt, Bill Felts, Bob Oswald, and Rich Trimble. Chris Shutes also attended to observe the focus group meeting and participated in some of the discussion, however, he had not fished any of the previously mentioned streams. Each of the focus group members had between 10 and 47 years of fishing experience.

The focus group meeting was conducted at the El Dorado Hills Fire Station No. 85 in El Dorado Hills on Saturday, April 10, 2004, from 9:00 a.m. to 1:00 p.m. The participants were briefed on the purpose of the focus group at the beginning of the session by the facilitator. Each of the survey forms were handed out and the facilitator reviewed the various sections with the group to answer questions and provide clarity to the participants. Along with the Stream Reach Information Form the group was shown a map of the UARP to review the location of each of the stream reaches that were listed on the form. This insured that the participants would clearly

understand the locations of the reaches for which they were providing information. These reaches included:

1. Rubicon River from Rubicon Reservoir Dam to Hell Hole Reservoir.
2. Gerle Creek from Loon Lake Dam to Gerle Creek Reservoir.
3. South Fork Rubicon River from Robbs Forebay Dam to confluence with Rubicon River.
4. South Fork Silver Creek from Ice House Dam to Junction Reservoir.
5. Silver Creek from Junction Dam to Camino Reservoir.
6. Silver Creek from Camino Dam to confluence with South Fork American River.
7. South Fork American River from Camino Powerhouse to Slab Creek Reservoir.
8. South Fork American River from Slab Creek Dam to Chili Bar Reservoir.

The participants were instructed to fill out one Stream Reach Form for each of the reaches on which they had angling experience. After the group had completed the surveys they participated in a facilitated focus group discussion. In this discussion, participants answered questions regarding general angling preferences as well as angling on specific reaches below UARP dams.

3.3.2 Creel Survey at Storage Reservoirs

3.3.2.1 Protocol Approval

On February 18, 2004, the Recreation TWG's fishing subgroup met and made revisions to the draft Protocols; participants were: Stafford Lehr, California Department of Fish and Game (CDFG); Sharon Stohrer, State Water Resources Control Board; Harry Williamson, National Park Service; Tami Zemel, El Dorado County Water Agency; Bill Center, American River Recreation Association; Chris Shutes, citizen; and Dave Hanson and Joe Davis, SMUD. On March 2, 2004, SMUD emailed the revised draft Protocols to the members listed above, as well as to the following Forest Service fishing subgroup members: Jann Williams, Lester Lubetkin, Jeff Marsolais, Rich Platt and Beth Paulson, for final review and approval. As of March 10, 2004, no comments or suggested changes were received from the subgroup members, thus the Protocols were deemed acceptable to the subgroup.

3.3.2.2 Background and Objectives

The primary objective of the creel survey for the UARP storage reservoirs was to estimate fishing effort, catch rate, and angler satisfaction. The basic protocols utilized by the California Department of Fish and Game (CDFG) in conducting creel surveys were followed in this survey effort. SMUD also used the CDFG's creel survey software package Fisheries Information

Sharing Host (F.I.S.H) to analyze the effort and catch data. The information generated from this survey will aid in fish stocking programs and other management decisions related to the recreational fishery at the UARP reservoirs.

3.3.2.3 Sampling Plan

SMUD implemented a random sampling plan in conducting the surveys, similar to the sampling plans used for the 2002 and 2003 visitor surveys conducted at the UARP developed facilities. The survey protocol is located in Appendix A.8.

The sampling plan differentiates between midmorning/midday and afternoon/evening, as well as weekday and weekend.

SMUD utilized an on-site intercept method, which employed face-to-face interviews. There are two basic approaches to the intercept method that are commonly used in creel surveys: the roving method and access point method. Each method has advantages and disadvantages. The roving method has the advantage of efficiently collecting data in a short period of time. It also is useful in circumstances where there are multiple points of access to a lake, as well as multiple opportunities to fish such as docks, piers, and shoreline areas. However, this method suffers from the fact that the interviewer meets the angler on the lake before the angler has completed his/her fishing experience. This method also tends to select for anglers whose fishing experience is long in duration. Short-duration anglers would be less likely to be included in the roving method. The access point method focuses on the point of ingress and egress from the lake, positioning the interviewer at a boat launch site. Because the three reservoirs under consideration have either one or two primary boat ramps (Union Valley has two primary boat ramps used by anglers – Sunset and West Point), the point access method has significant advantages for this study. The general advantage of the point access method is that it captures the full angler's experience via exit interviews. The point access method can also be cost effective. Based on these considerations, SMUD used the point access method for this study.

3.3.2.4 Location

Surveys were conducted at developed boat launch facilities at: Ice House, Union Valley, and Loon Lake reservoirs. These included: 1) Ice House Boat Launch Facility ; 2) Union Valley Reservoir's Sunset Boat Launch Facility and West Point Boat Launch Facility; and 3) Loon Lake Reservoir Boat Launch Facility. The Yellowjacket Boat Launch Facility, located at the Yellowjacket Campground on Union Valley Reservoir, was excluded because it receives limited use by anglers relative to the other two boat launch facilities on the reservoir.

3.3.2.5 Sample Design

Each reservoir was considered a separate population. The survey population was considered to be all anglers, regardless of age, who have just completed a fishing experience on the reservoir in a boat, as well as those shore anglers who are in the vicinity of the boat launch facility. All angler effort was documented in the survey.

The Forest Service provided 1999 through 2002 visitor use data in people days for each facility. From this data, SMUD estimated the average annual visitation for boat launch facilities per reservoir (Table 3.3-1). A sample size of approximately 100 per reservoir was the goal, resulting in a 95% confidence level within a margin of error of $\pm 10\%$ for each reservoir. The survey instrument was designed to anticipate the potential for limited sub-sampling, for example, spring respondents verses fall respondents.

Table 3.3-1. Boat launch facility population estimates and sample size.

Reservoir	Total estimated annual boat launch facility use	Sample size needed for 95% CI within $\pm 10\%$ margin of error
Union Valley Reservoir	18,240	96
Loon Lake Reservoir	8,176	95
Ice House Reservoir	14,278	95

3.3.2.6 Schedule

Creel survey interviews were conducted during the summer 2004 shoulder seasons (March 20 through June 30, and September 7 through October 31). Between March 20 and June 30, 29 sample days were selected, and between September 7 and October 31, eight sample days were selected. During the first half of the sampling period, sample days were randomly determined yet split between weekend days and weekdays. Between March 30 and June 30, 15 weekend days and 14 weekdays were selected. Between September 7 and October 31 the sample dates were chosen randomly however they were confined to the weekend.

During each sample day the Licensee implemented two interview periods. The first interview period occurred during the morning/midday hours starting at 10:00am and ending at 2:00pm. The second interview period occurred during the afternoon/evening hours starting at 3:00pm and continued until 7:00pm.

For each boat launch facility the Licensee estimated an average of 6 interviews to be completed during a weekend interview period, and three surveys to be completed during a weekday interview period. The licensee scheduled two consecutive interview periods during the same day (defined as a survey unit). The following three survey units were randomly scheduled.

- Survey Unit 1 = Union Valley Reservoir then Ice House Reservoir
- Survey Unit 2 = Ice House Reservoir then Loon Lake Reservoir
- Survey Unit 3 = Loon Lake Reservoir then Union Valley Reservoir

Thirty five survey units and one additional interview period at Union Valley Reservoir and Ice House Reservoir were scheduled. Because Union Valley Reservoir has two primary boat launch facilities used by anglers, SMUD considered use estimates for each, along with professional judgment, to arrive at a split as follows: approximately 60 percent of the surveys would occur at Sunset and 40 percent would occur at West Point.

At the February 18, 2004, Recreation TWG fishing subgroup meeting, the participants developed and agreed to the distribution schedule shown in Table 3.3-2. Thus, for each reservoir, a total of 24 four-hour survey periods were conducted.

Timeframe	Number of Weekend Survey Periods	Number of Weekday Survey Periods	Total
March 20 through April 30	4	0	4
May 1 through June 30	6	9	15
September 7 through October 31	5	0	5
Total	15	9	24

3.3.2.7 Instrumentation

Face-to-face survey instruments were used at the three reservoirs. To create recreation user profiles, the respondents were asked to provide their zip code of residence. Standard demographic questions were not included in the interest of reducing interview time when weighed with the fact that the purpose of the survey was not to profile users for marketing efforts.

Effort and catch data was logged onto creel survey field forms developed by CDFG, as modified for this survey effort (Appendix B.8). All angler effort and catch data was documented (including youth effort), however the same angler was not interviewed twice in the same day at the same reservoir. Effort was measured per rod, e.g., an angler fishing for 4 hours with two rods is 8 hours of effort. The data is located in Appendix C.7

Qualitative data was documented onto a single-page survey instrument, similar in format to the instrument used for the 2002 survey effort (Appendix B.9). Only one angler per group was asked to respond to the qualitative survey questions. The interviewer selected the respondent via a “birthday quiz” whereby selection is made based on the closest birthday to the date of survey. The data is located in Appendix C.7.1 for SPSS Data and C.7.2 for Frequency Tables.

3.3.3 Zone 3 Dispersed Sites Survey

Another area of concern with the 2002 summer survey effort was the approach used to assess UARP-related recreation, primarily in areas where dispersed recreation occurs on ENF-managed lands. After reviewing the 2002 survey results and attempts to resolve concerns, SMUD and the interested parties developed a survey instrument and sampling plan that focused on assessing UARP-related dispersed recreation in Zone 3. Zone 3 was defined by the ENF, and in general, consists of ENF-managed lands located beyond the UARP Project Boundary where the visitors to undeveloped areas have a possible relationship to the UARP. Dispersed recreational use of most if not all of these undeveloped areas of the forest is encouraged by the ENF (e.g., an ENF information sheet titled "Pick Your Own Spot Camping" is made available to the public describing where and where not to camp). The goal of the survey was to quantitatively establish the level of dispersed recreation in Zone 3 that is related to the UARP in order to assist in determining SMUD’s proportional share for addressing dispersed recreation in this zone, if any.

The survey of visitors in Zone 3 dispersed sites occurred during the summer of 2004, Memorial Day weekend through Labor Day weekend. However, to date, the ENF and SMUD have been unable to agree on data analysis. Thus, this report does not include any results from this survey.

3.4 Methodology for Estimating Existing and Future Use

Several methods were utilized to develop use estimates within and near the UARP. These included: 1) collecting occupancy data for UARP recreation facilities; 2) documenting boating use on UARP reservoirs; 3) collecting use data at dispersed areas near the UARP reservoirs; 4) using historical ENF use estimates and counts for developed and dispersed areas; and 5) compiling use estimates and occupancy data for private recreation developments near UARP reservoirs. In combination with recent data collection efforts, collecting occupancy and historical data from the ENF provided a means to calculate estimates for current, past, and average use over cycles of time.

Field observations were also employed to obtain information where there was insufficient existing information about use levels at some recreation facilities and the reservoir surface. Key locations where use counts were conducted for this study include: 1) campgrounds; 2) day use areas; 3) parking lots; 4) reservoir surface; and 5) dispersed sites. The methodology also included collecting boat counts on the main reservoirs. The methodologies used to collect use level information at the UARP recreation facilities, areas with dispersed recreation near the reservoirs and boating use on the reservoirs are discussed below. The UARP *recreation facilities* are defined as facilities that were constructed by SMUD as part of the original Recreation Plan for the UARP and the facilities that were constructed by SMUD under the amended Recreation Plan as a result of the Jones Fork Powerhouse in the late 1980's.

Dispersed use estimates are based primarily on the number of groups observed during the survey visits to the specific survey locations described in section 3.1.3.1 of this report, group size data from the surveys and professional judgment. Appendix D of this report describes how the dispersed use estimates were calculated for each area and season.

Based on the coordination meeting with ENF to discuss details of the Recreation Technical Reports, August 09, 2004, use estimates are compartmentalized by geographic region, season, and type of use area (e.g., reservoirs, developed facilities, and dispersed use) in order to provide visitor use representation of the UARP. Specifically, several sources were incorporated into UARP use calculations including the following estimations and counts for:

Developed Recreation Facilities

- 1) ENF 1999-2002 USFS RIM Fee/non-Fee Campgrounds
- 2) ENF Day Use Facilities (Boat and Picnic) with 1.0-1.5 adjusted multiplier
- 3) ENF 1995-1996 "Shoulder Season" use estimates for developed facilities
- 4) ENF Huts Reservation Data 2003-2004 (Loon Lake Chalet, Robbs Hut, Van Vlecks Bunkhouse)
- 5) Organizational Camps Permitted by the ENF (Mountain, Deer), SMUDEA

Reservoir Recreation Use

- 1) SMUD 2002-03 reservoir surface counts (Boat Counts)

Dispersed Recreation Use

- 2) Crystal Basin Dispersed Use Counts-2002
- 3) ENF shoreline dispersed use around the four primary UARP reservoirs (Loon Lake, Gerle Creek Reservoir, Union Valley Reservoir, and Ice House Reservoir)
- 4) Winter Use: 2002-03 Windshield and Chalet Surveys
- 5) Canyonlands: primarily Brush Creek Reservoir and Slab Creek Reservoir Counts
- 6) Zone 3 Dispersed Use Survey-2004

Other Information Regarding Visitor Use

- 1) Rubicon OHV Trail Use Estimates
- 2) ENF Information Centers Visitor Counts

3.4.1 Use Estimates for Developed Recreation Facilities

3.4.1.1 ENF 1999-2002 USFS RIM Fee/non-Fee Campgrounds

The ENF provided visitor use information RIM data for most of the campgrounds and day use areas; however, this information was incomplete. Therefore, SMUD identified a need to conduct additional field observations, beyond the study plan. In order to estimate the visitor use at recreation facilities, where use data were not available, recreational use estimates were developed based on what data have been provided by the Forest Service and additional occupancy observations collected by SMUD in 2003.

Occupancy observations were collected at the two boat-in or hike-in campgrounds at Azalea Cove and Lone Rock, located at Union Valley Reservoir, in 2003 to supplement the existing visitor use data. This information was collected on six observation dates during the summer of 2003: two Saturdays on holiday weekends, two Saturdays on non-holiday weekends and two weekdays. Although this methodology was not specified in the study plan, it is similar to the methodology outlined in the Visitor Use and Impact Study that was used to collect visitor use data. The only notable difference is that there was one less observation conducted on holiday weekends. The dates to collect this data were randomly selected between Fourth of July and Labor Day and are listed below:

Holiday Weekends	July 5, 2003 (Saturday of Fourth of July)
	August 30, 2003 (Saturday of Labor Day)
Non-Holiday Weekends	July 26, 2003 (Saturday)
	August 9, 2003 (Saturday)
Weekdays	August 5, 2003 (Tuesday)
	August 28, 2003 (Thursday)

The sites were visited between 10 am and 4 pm on the observation dates. The observer recorded the number of camp sites occupied based on visual inspection. Even if people were not present, the site was considered occupied if there was camping equipment present at the site. The annual number of visitors to these facilities is estimated using the average party size determined by analysis of the responses to the 2002 visitor use surveys.

3.4.1.2 ENF 1995-1996 “Shoulder Season” for Campgrounds

Shoulder season data was provided by the ENF for campgrounds visitation during the shoulder season. This data was collected by the ENF during October 1 1995-Memorial Day 1996; Labor Day 1996-Sept 30 1996; October 1 1996-Memorial Day 1997; Labor Day 1997-Sept 30 1997. This data was included in total visitor estimates and in calculating shoulder season visitation to campground facilities.

3.4.1.3 ENF Day Use Facilities (Boat and Picnic)

Existing information on parking areas was provided by the ENF RIM Data. In addition, SMUD identified a need to conduct additional field observations, beyond what was specified in the study plan, to obtain additional information. Observations at these recreation facilities were conducted during the summers of 2002 and 2003. In 2002, observations were recorded while visiting various sites in the course of conducting other recreation work. These dates were not randomly selected and did not include mid-week observations. Six observation dates were randomly selected during the summer of 2003 between Fourth of July and Labor Day: two Saturdays on holiday weekends, two Saturdays on non-holiday weekends and two weekdays. Although this methodology was not specified in the study plan, it is similar to the methodology outlined in the Visitor Use and Impact Study that was used to collect visitor use data. The only notable difference is that there were three more observations conducted on holiday weekends.

Data were collected on the following dates:

Holiday Weekends	May 25, 2002, May 26, 2002 (Sat & Sun of Memorial Day)
	July 4, 2002, July 5, 2002 (Sat & Sun of Fourth of July)
	July 5, 2003 (Saturday of Fourth of July),
	August 30, 2003 (Saturday of Labor Day)
Non-Holiday Weekends	August 10, 2002 (Saturday)
	July 26, 2003 (Saturday)
	August 9, 2003 (Saturday)
Weekdays	August 5, 2003 (Tuesday)
	August 28, 2003 (Thursday)

The sites were visited between 11 am and 2 pm on the observation date. At each site the observer recorded the number of: 1) vehicles only; 2) vehicles with trailers; and 3) trailers only. If the facility was filled, the observer also recorded if there were vehicles or trailers parked adjacent to the facility (overflow).

Due to the incomplete ENF RIM data and the non-random observations and counts, adjustments to visitor counts for boating, trailhead and day use facilities were made as part of the consultation process August 09, 2004. The adjusted multiplier for counts was set as a range from 1.0-1.5.

3.4.1.4 ENF Huts Reservation Data 2003-04

The ENF provided data from the Huts reservation system for 2003-04. This data set included the following locations: Robbs Hut, Loon Lake Chalet, and Van Vlecks Bunkhouse. This data set includes year round use. Visitor use was analyzed on a seasonal as well as annual basis.

3.4.1.5 Organizational Camps (Mountain Camp, Deer Camp and SMUDEA)

The ENF authorizes two private camps to operate within one-quarter mile of UARP reservoirs. Mountain Camp is located on the north side of Ice House Reservoir and it has a capacity of 100 PAOT. Deer Camp is located on the east side of Loon Lake Reservoir and it has a capacity of 50 PAOT's. Both of these developments are youth camps that operate between June and August. An additional recreation facility, SMUDEA, is a 43-site campground located at Union Valley that is operated by SMUD's employee association.

3.4.2 Reservoir Use

3.4.2.1 Reservoir Surfaces

Existing reliable sources of information on boating use for main UARP reservoirs (Ice House, Loon Lake, and Union Valley) was not available for the study. In the absence of reliable existing data, SMUD conducted boat counts from the reservoir surface. Boat counts were conducted on three days during the summer: Saturday of Labor Day weekend and on two non-holiday weekend days for the main UARP reservoirs. Additional land-based boat counts at these reservoir surfaces were taken in 2002 and 2003 and included in this report. SMUD acknowledges that the land-based observation points did not offer a complete view of the reservoir surfaces. Therefore boating adjustments were made in consultation with ENF (personal communication September 10, 2004) to determine a range for overall visitation. Peak boating use on the reservoirs was estimated using observation data collected during the summers of 2002 and 2003. The observations took place at the main UARP reservoirs: Ice House, Union Valley, and Loon Lake reservoirs. In 2002, observations were recorded while visiting various sites in the course of conducting other recreation work. The 2002 observation dates were not randomly selected and did not include mid-week observations. Six observation dates were randomly selected during the summer of 2003 between Fourth of July and Labor Day: two Saturdays on holiday weekends, two Saturdays on non-holiday weekends and two weekdays.

Data was collected in 2002 and 2003 on the following dates:

Holiday Weekends	July 4, 2002, (Saturday of Fourth of July)
	August 30, 2003 (Saturday of Labor Day)
Non-Holiday Weekend	August 10, 2002 (Saturday)
	July 26, 2003 (Saturday)
	August 9, 2003 (Saturday)
Weekday	August 5, 2003 (Tuesday)
	August 28, 2003 (Thursday)

The observations included boat counts taken from the reservoir surface (by boat) and from key vantage points on land. Boat counts were taken between 10am and 3pm and the number of active watercraft was counted on the reservoir surface. The observer recorded the number of active watercraft operating on the reservoir at one time by the following categories: 1) powerboats; 2) small fishing boats; 3) non-motorized watercraft; and 4) personal watercraft (PWC). The observer recorded all active watercraft on the surface of the reservoir. Watercraft were considered active if they were engaged in activities on the reservoir surface or if they were at the shoreline with people in or around them (an active day use type of situation as opposed to a moored watercraft).

When field observations of the reservoir surface were conducted using a boat, the entire reservoir surface was traversed to collect the boating use data. The active watercraft was counted by systematically traversing the reservoir from one end to the other to avoid double counting or omitting watercraft in the count.

When observations were made from land, binoculars were used to discern between the types of watercrafts. Although there are good vantage points, a few portions of the reservoir surfaces are not visible from land. Consequently the number of boats observed from land may be less than the actual number of boats operating on the reservoir during the observation.

3.4.3 Dispersed Area Recreation Use

Summer, Spring, Fall Dispersed

SMUD collected observation data consistent with the methodology established in this Study Plan which specified conducting direct observations on three summer holiday weekends, two non-holiday weekends and two non-holiday weekdays, to estimate the recreational use at dispersed sites at Ice House, Union Valley, Gerle Creek, Robbs Forebay, Loon Lake, Junction, Slab Creek, and Brush Creek reservoirs. Observations were also made at Mosquito Road where it crosses the SF American River, Bryant Springs Road where it crosses SF Silver Creek, and Wentworth Springs Road at Gerle Creek. The recreational use at dispersed sites at the UARP is estimated based on group and vehicle counts taken during SMUD's observations at these locations in 2002 and 2003 as part of the surveys for the Visitor Use and Impact Study. The questionnaire responses for party size allow an average number of people per group to be calculated. This value is applied to the number of groups observed on weekdays, weekends and holidays to

develop an estimate of non-winter recreational use at the dispersed sites at the UARP reservoirs and river access points.

Reservoir Shoreline Use

The ENF provided shoreline use data from 2002. The shoreline counts were based on a stratified random sample conducted between July 04 and September 15, 2002. Samples were stratified by weekend, holiday weekend, and weekday. Counts were conducted during peak periods between 11 AM-3PM, from the water, with the exception of Gerle Creek, which was counted on foot. Counts for each reservoir were conducted 10-12 times during this period.

Winter Dispersed

Vehicle counts taken as part of the winter portion of this study are the basis for winter recreational use estimates at the UARP discussed in the winter section above. Plowed routes of travel in the UARP area allow vehicular access to the UARP area and visitors can drive and park along these routes to enjoy winter recreation activities. Between December 2002 and March 2003 vehicle counts were taken:

- Along the Bryant Springs Road between Ice House Road and Westpoint Boat Launch.
- Along Ice House Road between Highway 50 and Loon Lake Chalet.
- At Ice House Boat Launch.
- Along Wentworth Springs Road between Ice House Road and the turnoff to Gerle Creek Dam.
- At Big Hill Overlook.

Observations were conducted on holidays, weekends and weekdays, consistent with the methodology specified in the Study Plan. The observer drove the entire route on each survey date and noted the number of vehicles parked along the routes. As the observer left Loon Lake Chalet and Westpoint Boat Launch, the observer recorded the number of oncoming vehicles seen driving on the roads. Administrative vehicles were recorded separate from non-administrative vehicles, based on the outward appearance of the vehicles such as insignias on doors and license plates. The winter questionnaire responses for the number of people in each vehicle allow an average number of people per vehicle to be calculated. This value is applied to the number of vehicles observed during the winter months to develop an estimate of winter recreational use in and near the UARP.

Canyonlands

Windshield surveys were used exclusively in the Canyonlands (defined as Camino Reservoir downstream to White Rock Powerhouse for this survey effort). The survey schedule was the same as described above for Dispersed Areas. The surveys were either placed on vehicle windshields parked at sampling locations if respondents were not present or were handed to respondents if they were viewed near the sampling location and were easily accessible. Additionally, visitor use was documented at sampling locations and on or around Camino

Reservoir, Brush Creek Reservoir and Slab Creek Reservoir, and is presented in Appendix D of this report.

3.4.4 Observations for Resource Damage

Resource damage can be an indication that an area may be receiving excessive recreational use. As part of the Visitor Use and Impact Study, SMUD also made site inspections in the study area with recreation activity to report where recreational use may be causing resource damage. The results of this investigation are included in this report however the reader is referred to the Visitor Use and Impact Study Report for additional information. Similarly, the possible effects of recreational use on water quality were investigated as part of the Water Quality Study. The results of water quality sampling near areas with recreational use are referenced in this report however the reader is referred to the Water Quality Study Report for additional information.

4.0 RESULTS

The majority of survey results are contained in frequency tables, located in Appendix C, organized by survey area. The survey areas are described in Section 3.0 and are shown in Figure 3.0-1. For each set of frequency tables, the results are presented in approximately the same order in which the survey questions were asked or as they appeared on the survey instrument (survey instruments are contained in Appendix B). In addition, the raw data in SPSS format is available on CD by request for additional analysis by interested parties.

For some issues, comparisons of data from different survey areas or a more detailed analysis of the data was conducted, the results of which are presented below. In cases where the results are presented in other technical reports, the information is also duplicated in this report for ease of review and the specific report is referenced. Anecdotal notes made by interviewers during the fieldwork are contained in Appendix E.

In addition to this study report, estimated current and future recreational use within and near UARP recreation facilities and resources are also included as part of the *Recreation Demand Technical Report*.

4.1 Visitor Profile and Information

Data collected by SMUD in the 2002-03 Visitor Surveys included several questions about where visitors live, their preferences and use patterns. The following section includes several tables summarizing this information. The types of information include place of residence, party size, number of years visiting the UARP, length of stay, gender, and types of improvements that visitors would like to see in the area where they were surveyed.

4.1.1 Place of Residence

Based on the survey responses, it appears that during the summer at the developed recreation facilities and areas with dispersed recreation activity most visitors at and near the UARP reside

in Sacramento and El Dorado counties and that there are approximately twice as many visitors from Sacramento County than El Dorado County. In the winter, there are a greater proportion of visitors to areas at and near the UARP who reside in El Dorado County than Sacramento County. This same pattern is observed in the data from the surveys conducted in the Canyonlands.

Additionally, the ENF provided survey data collected at the Ice House Road as part of the agency's National Visitor Use and Monitoring (NVUM) program. This survey effort was conducted at approximately 30 locations on the ENF between October 2002 and September 2003. One of these locations was on Ice House Road in the vicinity of Highway 50 where a signed survey station was set up for visitors to voluntarily stop to participate in the survey. Visitors participating in the survey effort provided their zip codes and this information was analyzed to determine the place of residence for visitors to the area. The place of residence for the visitors surveyed in the NVUM effort are also summarized in Table 4.1-1 below. Both the data collected by SMUD and the ENF indicate that the majority of visitors to the UARP come from El Dorado and Sacramento counties.

Table 4.1-1. Visitors' county of primary residence for survey areas in the vicinity of the UARP. (SOURCE: Visitor Surveys 2002-03 and NVUM data from ENF)							
Survey Area ¹	County of Primary Residence (by percent)						
	El Dorado County	Sacramento County	Bay Area ²	Placer County	Yolo County	other / no response	Total
% SMUD Visitor Surveys 2002-03							
Developed (all four reservoirs)	24	43	15	4	4	10	100%
Developed – Ice House Reservoir	21	46	15	5	4	9	100%
Developed – Union Valley Reservoir	30	38	16	2	3	11	100%
Developed – Gerle Creek Reservoir	11	45	19	4	5	16	100%
Developed – Loon Lake Reservoir	21	46	11	6	4	12	100%
Dispersed (all four reservoirs)	19	40	25	3	2	11	100%
Dispersed – wilderness trailhead	8	36	28	4	12	12	100%
Dispersed – Canyonlands	78	14	5	0	3	0	100%
Winter – Crystal Basin	48	30	10	5	5	2	100%
Winter – Loon Lake Chalet only	33	29	28	0	2	8	100%
% National Visitor Use Monitoring Data							
Surveys completed on Ice House Road	32	37	12	2	4	2	100%

¹Sample size: Developed, n=698 (weighted data); Developed-IHR, n=167; Developed-UVR, n=171; Developed-GCR, n=175; Developed-LLR, n=184; Dispersed, n=68; Dispersed-wilderness trailhead, n=25; Dispersed-Canyonlands, n=36; Winter-Crystal Basin, n=223; and Winter-Loon Lake Chalet, n=51.

²Bay Area=San Francisco, San Mateo, Sonoma, Santa Clara, Alameda, Contra Costa, Solano, Napa, Marin, Salinas, and Fremont Counties.

4.1.2 Party Size

Table 4.1-2 shows the party size reported by the visitors who were surveyed during the summer of 2002. Approximately half of the visitors surveyed in the dispersed recreation areas reported a party size of 1 to 5 and the remainder reported a party size of 6 to 40; the most frequent response, 23.6 percent was for a party size of 7 to 10 persons. Approximately half of the visitors surveyed at the developed recreation facilities reported a party size of 1 to 4 and the remainder reported a party size of 5 to more than 50; the most frequent response, 26.6 percent was for a party size of 2. Sorting the data by the reservoir where the developed recreation facilities are located shows a similar pattern of frequencies when compared to the combined responses for all reservoirs. Approximately half of the visitors surveyed in the dispersed recreation areas in the Canyonlands reported a party size of 2 and the remainder reported a party size of 3 to 10; the most frequent response, 50 percent, was for a party size of two persons. Of the survey areas presented in the table, summertime visitors to the reservoirs came in larger groups than the visitors to the high country, the Canyonlands or the winter visitors.

Party Size (No. of Persons)	Percent of Visitors- Dispersed	Percent of Visitors-Crystal Basin					Percent of Visitors- Canyonlands
		Total ¹	Loon Lake Res.	Gerle Cr. Res.	Union Valley Res.	Ice House Res.	
1	2.9	3.0	4.3	5.1	2.9	1.2	0
2	14.7	26.6	33.2	22.9	19.3	32.3	50.0
3	10.3	13.0	14.1	10.3	11.1	15.6	16.7
4	13.2	14.9	11.4	16.0	18.1	13.2	16.7
5	10.3	8.7	8.2	10.9	7.6	10.8	5.6
6	4.4	8.6	6.5	7.4	10.5	7.8	5.6
7-10	23.6	11.9	10.3	13.7	13.5	10.8	5.6
11-15	8.9	6.3	6.5	7.4	7.6	3.6	0
16-20	5.9	2.9	2.7	3.4	2.9	3.0	0
21-30	3.0	1.9	1.1	2.3	3.5	0	0
31-40	3.0	0.5	0	0.6	1.2	0	0
41-50	0	0.8	1.1	0	0.6	1.2	0
51 or more	0	0.8	0.5	0	1.2	0.6	0
Total	100	100	100	100	100	100	100

¹Weighted data set and excludes Group Sites.

The wintertime surveys indicated that approximately 71 percent of the visitors came to the Crystal Basin in one car and the other 29 percent had multiple cars with their party. The majority, 80 percent, of the visitors traveled with 1 to 3 passengers per vehicle. Of the parties that traveled with multiple vehicles, the percent of visitors by party size is shown in Table 4.1-3. For visitors with multiple vehicles in their group, the most frequent response, 24.6 percent, was a party size of four persons; party sizes of six and seven persons were also common and the combined responses accounted for approximately 34 percent of the visitors in groups with multiple vehicles. A review of the raw data contained in the *Visitor Use and Impact Technical Report* reveals that a good portion of the solo winter visitors were anglers intercepted at the boat

launch facilities at Ice House Reservoir and Union Valley Reservoir (SMUD snowplows the Ice House and West Point boat launch facilities, allowing for year-round access to these reservoirs).

Table 4.1-3. Party size of wintertime visitors to the Crystal Basin as reported in the visitor surveys 2002-03.

Party size	Percent of Visitors in Multiple-Vehicle Groups
2	1.5
4	24.6
5	7.7
6	16.9
7	16.9
8	3.1
9	3.1
10	7.7
11-15	9.2
16-20	9.2

4.1.3 Number of Years Visiting the Area

The existing summertime visitors include first-time visitors as well as those who have been coming to the area for a number of years. Approximately half of the visitors to the dispersed areas in the Crystal Basin have been coming to area for less than ten years and 13.2 percent said that it was their first visit to the area. Approximately half of the visitors to the developed recreation facilities in the Crystal Basin have been coming to area for less than eight years and 16.7 percent said that it was their first visit to the area. Sorting the data by the reservoir where the developed facilities are located shows a similar pattern with Ice House Reservoir having the highest frequency response for first-time visitors at 21 percent. Approximately half of the visitors to the dispersed areas in the Canyonlands have been coming to area for less than six years and 22.2 percent said that it was their first visit to the area. Among the three categories of surveys, the Canyonlands had the highest frequency (22.2%) of first-time visitors of those surveyed. The summarized survey responses for the number of years the respondents have been visiting the UARP are shown in Table 4.1-4.

Table 4.1-4. Number of years visitors reported that they have been visiting the UARP during the summer as reported in the visitor surveys 2002-03.

No. of years visiting the UARP	Percent of Visitors- Dispersed Areas in the Crystal Basin	Percent of Visitors- Developed Facilities in the Crystal Basin					Percent of Visitors- Canyonlands
		Total ¹	Loon Lake Res. ²	Gerle Cr. Res. ²	Union Valley Res. ²	Ice House Res. ²	
First Visit	13.2	16.7	18.5	18.9	12.9	21	22.2
1	4.4	3.1	1.1	2.3	4.7	3.0	2.8
2	5.9	6.2	7.1	8.0	5.8	5.4	8.3
3	2.9	6.4	6.5	5.7	7.0	5.4	8.3
4	1.5	2.7	1.6	4.6	2.3	4.2	2.8
5	7.4	6.8	11.4	7.4	4.1	6.0	2.8
6	2.9	4.3	2.2	2.9	6.4	3.6	5.6
7	4.4	1.7	1.6	2.3	2.3	0.6	0

Table 4.1-4. Number of years visitors reported that they have been visiting the UARP during the summer as reported in the visitor surveys 2002-03.

No. of years visiting the UARP	Percent of Visitors-Dispersed Areas in the Crystal Basin	Percent of Visitors-Developed Facilities in the Crystal Basin					Percent of Visitors-Canyonlands
		Total ¹	Loon Lake Res. ²	Gerle Cr. Res. ²	Union Valley Res. ²	Ice House Res. ²	
8	0	2.1	2.7	2.3	1.8	1.8	2.8
9	1.5	0.7	1.1	2.3	0	1.2	2.8
10	8.8	7.3	5.4	8.6	7.0	9.6	13.9
11-15	13.2	12.6	12.0	6.9	15.8	9.0	11.1
16-20	8.8	9.5	8.7	6.3	9.4	11.4	11.1
21-30	14.7	10.5	10.3	11.4	9.9	11.4	5.6
31-40	8.8	5.1	3.8	8.6	6.4	3.6	0
41-50	1.5	2.5	2.2	0.6	2.9	2.4	0
51 or more		1.8	3.8	1.1	1.2	0.6	0

¹Weighted data set

²Unweighted data set

The wintertime visitors were also asked about how long they have been coming to the area and the number of visits they had made during the previous winter. Similar to the summer survey responses, a considerable number of those surveyed were first-time visitors to the area (see Table 4.1-5). In fact, it was the most frequent response (27.5%) in the surveys conducted at the Loon Lake Chalet. Additionally, most (56.9%) of those surveyed, at the Loon Lake Chalet had not visited in the previous year. This is noticeably different from the responses to the windshield surveys where approximately 80 percent of the visitors said they had visited more than one time during the previous winter.

Table 4.1-5. Number of years visitors reported that they have been visiting the UARP during the winter as reported in the winter visitor surveys.

No. of years visiting the UARP	Percent of Visitors-Loon Lake Chalet	Percent of Visitors-Windshield Surveys	No. of visits during the last year	Percent of Visitors-Loon Lake Chalet	Percent of Visitors-Windshield Surveys
First visit	27.5	10.8	0	56.9	20.2
1	7.8	7.2	1	23.5	10.3
2	13.7	7.2	2	7.8	9.0
3	3.9	8.1	3	3.9	9.0
4	7.8	4.9	4	0	8.1
5	3.9	6.3	5	2.0	8.1
6	3.9	4.5	6	2.0	6.3
7	2.0	1.8	7	0	2.2
8	5.9	2.2	8	0	2.7
9	3.9	1.3	9	0	1.3
10	0	9.9	10	2.0	7.2
11-15	15.7	9.0	12	0	3.1
16 or more	3.9	26.9	13-15	0	3.1
			16 or more	2.0	8.1

4.1.4 Overnight and Day Use Visitation

Visitors can be characterized as overnight and day users. The visitor surveys conducted in the summer of 2002 indicate that most of the existing users in the Crystal Basin stay overnight during their visit however most of the existing summertime visitors to the Canyonlands are day users. In the Crystal Basin, the visitors surveyed in developed recreation facilities indicated a length of stay from 1 to 14 nights with a two-night stay being the most frequent response at 31.8 percent. The visitors to the dispersed areas in the Crystal Basin indicated similar lengths of stays with the most frequent response, 45.3 percent, being a two-night stay. In the Canyonlands there were no responses greater than a two-night stay.

Less than one-quarter of those surveyed in the Crystal Basin during the summer were day users and the most frequent response for their length of stay was 4 to 6 hours. The majority of the summertime visitors to the Canyonlands, 83.3 percent, were day users and the most frequent response for their length of stay was also 4 to 6 hours. The summarized survey responses relating to day and overnight use are by reservoir are provided in Table 4.1-6.

Table 4.1-6. Percent of visitor survey responses regarding summertime day and overnight use and length of stay. Responses are sorted by reservoir where developed recreation facilities are located. (SOURCE: Visitor surveys 2002-03)

Overnight or Day Use	Percent of Visitors- Dispersed Areas in the Crystal Basin	Percent of Visitors- Developed Facilities in the Crystal Basin					Percent of Visitors- Canyonlands
		Total ¹	Loon Lake Res. ²	Gerle Cr. Res. ²	Union Valley Res. ²	Ice House Res. ²	
Overnight Use	77.9	76.0	69.6	94.9	80.1	71.9	16.7
Length of Stay							
1 night	5.7	9.4	14.7	13.9	6.6	7.6	66.7
2 nights	45.3	31.8	36.4	31.3	27.0	36.1	33.3
3 nights	11.3	25.3	21.7	28.3	29.9	19.3	0
4 nights	13.2	15.3	14.0	11.4	16.8	15.1	0
5 nights	5.7	7.5	3.1	6.0	10.2	7.6	0
6 nights	1.9	2.6	2.3	1.8	2.9	2.5	0
7 nights	7.5	2.9	1.6	3.0	2.9	4.2	0
8-14 nights	7.5	3.9	3.9	4.2	2.9	5.9	0
Day Use	22.1	23.7	29.3	5.1	19.9	28.1	83.3
Length of Stay							
3 hours or less		9.3	14.8	0	2.9	10.6	20.0
4-6 hours	53.3	50.3	42.6	44.4	47.1	63.8	63.3
7-9 hours	13.3	25.5	35.2	22.2	26.5	12.8	6.7
10 hours or more	33.3	12.0	3.7	33.3	20.6	10.6	0

¹Weighted data set
²Unweighted data set

4.1.5 Length of Stay

The lengths of stay as indicated by the survey responses sorted by facility were fairly consistent between facilities. Overnight visitors indicated stays of 2 to 3 nights and most day users indicated stays of 4 to 6 hours. Sorting the data by reservoir shows that most of the respondents stayed two nights with one exception. At Union Valley the data indicate a slightly longer length of stay where the most frequent response, 29.9 percent, was a three-night stay. Most wintertime visitors reported a two-night length of stay and the longest stay reported was three nights. These data sorted by facility and the winter survey responses are shown in Table 4.1-7.

Table 4.1-7. Percent of visitor survey responses regarding day and overnight use and length of stay. Summer responses are sorted by developed recreation facility and the winter survey responses are sorted between the surveys collected at the Loon Lake Chalet and those left on the windshields of visitors. (SOURCE: Visitor surveys 2002-03)							
Loon Lake Res.	Boat Launch	Loon Lake Chalet	Loon Lake Group CG	Loon Lake Campground	Northshore CG	Red Fir Gr. CG	Pleasant CG
Overnight Use	58.8	100	100	100	100	100	100
Length of Stay							
1 night	14.8	100	25	6.9	20		100
Loon Lake Res.	Boat Launch	Loon Lake Chalet	Loon Lake Group CG	Loon Lake Campground	Northshore CG	Red Fir Gr. CG	Pleasant CG
2 nights	40.7		25	37.9	10		
3 nights	23.5		25	20.7	20		
4 nights	11.1		25	17.2	20		
5 nights	2.5			6.9	0		
6 nights	0			3.4	10	100	
7 nights	1.2			3.4	0		
8-14 nights	2.5			3.4	20		
Day Use	39.7	0	0	0	0	0	0
Length of Stay							
3 hours or less	14.8						
4-6 hours	42.6						
7-9 hours	35.2						
10 hours or more	3.7						
Gerle Cr. Res.	Gerle CG	Airport CG	Angel Cr. Day Use				
Overnight Use	100	95.3	75.9				
Length of Stay							
1 night	11.7	18.6	13.6				
2 nights	30.1	34.6	27.3				
3 nights	33.0	11.6	36.4				
4 nights	10.7	11.6	13.6				
5 nights	5.8	4.7	9.1				
6 nights	1.9	2.3	0				
7 nights	3.9	2.3	0				
8-14 nights	2.9	9.8	0				
Day Use	0	4.7	24.1				

Table 4.1-7. Percent of visitor survey responses regarding day and overnight use and length of stay. Summer responses are sorted by developed recreation facility and the winter survey responses are sorted between the surveys collected at the Loon Lake Chalet and those left on the windshields of visitors. (SOURCE: Visitor surveys 2002-03)							
Gerle Cr. Res.	Gerle CG	Airport CG	Angel Cr. Day Use				
Length of Stay							
3 hours or less							
4-6 hours			57.1				
7-9 hours		50	14.3				
10 hours or more		50	28.6				
Union Valley Res.	Big Silver Group CG	Camino Cove CG	Jones Fork CG	Azalea Cove/Lone Rock CG	Sunset CG ¹	Wench Cr. CG	Wench Cr. Group CG
Overnight Use	100	100	100	100	100	95	100
Length of Stay							
1 night	0	11.1	33.3	0	0	0	0
2 nights	50.0	0	16.7	50.0	28.2	36.8	0
3 nights	50.0	0	16.7	0	35.9	31.6	33.3
4 nights	0	44.4	33.0	0	7.7	21.1	33.3
5 nights	0	22.2	0	50.0	15.4	5.3	16.7
6 nights	0	11.1	0	0	2.6	0	16.7
7 nights	0	11.1	0	0	2.6	5.3	0
8-14 nights	0	0	0	0	5.1	0	0
Day Use	0	0	0	0	0		0
Length of Stay							
3 hours or less							
4-6 hours							
7-9 hours							
10 hours or more							
Union Valley Res. (continued)	Westpoint CG	Wolf Cr. CG	Yellowjacket CG	Yellowjacket BL	Westpoint BL	Sunset BL	
Overnight Use	100	100	100	60	50	50	
Length of Stay							
1 night	33.0	0		33.0	21.4	5.9	
2 nights	33.0	66.7	9.1	33.0	42.9	17.6	
3 nights	33.0	16.7	45.5	33.0	0	52.9	
4 nights	0	16.7	18.2	0	14.3	17.6	
5 nights	0	0	18.2	0	0	5.9	
6 nights	0	0	0	0	7.1	0	
7 nights	0	0	0	0	7.1	0	
8-14 nights	0	0	9.1	0	7.1	0	
Day Use	0	0	0	40	50	50	
Length of Stay							
3 hours or less				0	7.1	0	
4-6 hours				50	57.1	41.2	
7-9 hours				0	21.4	35.3	
10 hours or more				50	14.3	23.5	

Table 4.1-7. Percent of visitor survey responses regarding day and overnight use and length of stay. Summer responses are sorted by developed recreation facility and the winter survey responses are sorted between the surveys collected at the Loon Lake Chalet and those left on the windshields of visitors. (SOURCE: Visitor surveys 2002-03)

Ice House Res.	IH Boat Launch	Ice House CG	Ice House Day Use	Northwind CG	Strawberry CG		
Overnight Use	53.5	100	31.6	85.7	100		
Length of Stay							
1 night	0	6.5	60.0	16.7	12.5		
2 nights	44.7	32.3	20.0	50	25.0		
3 nights	18.4	21.0	0	16.7	37.5		
4 nights	7.9	21.0	20.0	16.7	12.5		
5 nights	10.5	6.5	0	16.7	0		
6 nights	0	4.8	0	0	0		
7 nights	0	6.5	0	0	12.5		
8-14 nights	13.2	1.6	0	0	0		
Day Use	46.5	0	68.4	14.3	0		
Length of Stay							
3 hours or less	12.1		7.7	0			
4-6 hours	68.6		69.2	100			
7-9 hours	18.2		0	0			
10 hours or more	9.1		15.4	0			
Winter Surveys	Loon Lake Chalet	Windshield-Cryst. Basin					
Overnight Use	64.7	24.7					
Length of Stay							
1 night	27.3	34.5					
2 nights	39.4	49.1					
3 nights	18.2	10.9					
4 nights	6.1	3.6					
5 nights	0	0					
6 nights	0	0					
7 nights	3.0	0					
8-14 nights	0	0					
Day Use	35.3	75.3					
Length of Stay							
3 hours or less	16.7	13.7					
4-6 hours	55.6	58.3					
7-9 hours	16.7	22.0					
10 hours or more	0	4.8					

¹Includes surveys at Fashoda CG and DU Area

4.1.6 Adequacy of Access to Information

Table 4.1-8 summarizes the results of the survey question related to the adequacy of “access to information” for select topics. Complete results to this survey question can be found in the

frequency tables contained in Appendix C of the *Visitor Use and Impact Technical Report*. For each topic identified by the surveyor, respondents were asked to reflect on the adequacy of access to information by responding “adequate,” “inadequate” or “never looked for information.” Generally across all survey areas and for all topics, the responses were mostly “never look for it” or “adequate.”

Table 4.1-8. Responses to recreation visitor surveys conducted in 2002 at the UARP about adequacy of “access to information” for select topics (e.g., campsite availability).					
Question: Please tell me about access to information by responding “adequate,” “inadequate” or “never looked for information”:		Percent responses from visitor surveys at:¹			
		Developed	Dispersed	Dispersed – wilderness trailhead	Dispersed – canyonlands
Campsite Availability	Adequate	60	32	72	17
	Inadequate	11	12	8	14
	Never looked for information	28	54	20	64
Two most common suggestions for improvement, by %, of respondents who said “inadequate”:					
Improve internet / web		35	25	50	20
Provide more information		15	-	-	-
Campfire Restrictions	Adequate	67	75	84	33
	Inadequate	6	2	-	8
	Never looked for information	26	22	16	56
Two most common suggestions for improvement, by %, of respondents who said “inadequate”:					
Post at facilities		28	-	-	-
Improve internet / web		7	-	-	-
Reservoir Levels	Adequate	46	46	40	31
	Inadequate	11	7	4	11
	Never looked for information	42	46	56	58
Two most common suggestions for improvement, by %, of respondents who said “inadequate”:					
Improve internet / web		32	60	-	-
Post at facilities		12	-	-	50
Wilderness Permits	Adequate	28	27	84	17
	Inadequate	5	2	8	11
	Never looked for information	66	69	8	69
Two most common suggestions for improvement, by %, of respondents who said “inadequate”:					
Post at facilities		17	-	-	-
Improve internet / web		-	-	-	25
Trail Locations	Adequate	42	41	84	22
	Inadequate	11	16	16	22
	Never looked for information	45	41	-	53
Two most common suggestions for improvement, by %, of respondents who said “inadequate”:					
Post at facilities		9	18	-	13
Provide more trail signs		9	45	25	13
Stream Flow Rate	Adequate	22	25	16	25
	Inadequate	9	4	8	8
	Never looked for information	67	69	76	64
Two most common suggestions for improvement, by %, of respondents who said “inadequate”:					
Improve internet / web		11	33	50	-
Post at facilities		6	-	-	-
Environmental Displays	Adequate	33	31	32	17
	Inadequate	10	4	8	14
Never looked for information		57	63	60	67

<i>Question: Please tell me about access to information by responding “adequate,” “inadequate” or “never looked for information”:</i>	Percent responses from visitor surveys at: ¹			
	Developed	Dispersed	Dispersed – wilderness trailhead	Dispersed – canyonlands
Two most common suggestions for improvement, by %, of respondents who said “inadequate”:				
Provide more displays	22	100	-	20
Improve internet / web	8	-	-	-
Fish Stocking	Adequate	25	24	8
	Inadequate	11	9	20
	Never looked for information	62	66	72
Two most common suggestions for improvement, by %, of respondents who said “inadequate”:				
Post at facilities	28	17	20	20
Improve internet / web	8	17	20	-

¹Sample size: Developed, n=698; Dispersed, n=68; Dispersed – wilderness trailhead, n=25; Dispersed – canyonlands, n=36. For each topic, approximately one percent did not provide a response.

4.1.7 Changes and Improvements Identified in Visitor Surveys

4.1.7.1 Changes and Improvements Identified in Visitor Surveys—Crystal Basin

SMUD also asked visitors questions about what changes or improvements are needed to the motorized and non-motorized trail systems, reservoir shorelines, and to the access for stream and rivers. These results are summarized in Table 4.1-9 below. The figures represent the data collected from this study area in the Crystal Basin. The suggested changes listed by those surveyed in developed recreation facilities were fairly consistent with the suggested changes listed by those surveyed in the dispersed recreation areas. Consequently all of the suggested changes listed in both data sets are included in the table and they are not sorted by data set. Across all four of these survey questions relating to changes or improvements to the area, the response frequencies from the responses collected in the dispersed recreation areas were higher than the responses collected from visitors at the developed recreation facilities. Overall, changes or improvements to the motorized trail system and access to the reservoir shorelines had the highest response frequencies. The list of changes to the motorized trail system includes suggestions from visitors to restrict or limit OHV opportunities while some respondents would prefer to have more trails for motorized use. The highest frequency response related to changes in the motorized trails occurred in the survey responses that were collected at Gerle Creek Reservoir and Airport Flat Campground had the highest frequency response at this reservoir. Visitors at both the developed recreation facilities and the dispersed recreation areas stated a desire for more non-motorized trails including bicycle, equestrian, and hiking trails. In addition, visitors would like to see improvements in trail conditions and information. The need for shoreline improvements appears to be the lowest at Gerle Creek Reservoir. The frequencies of response at the other three reservoirs were approximately the same and many of the suggested changes included shoreline development such as trails, day use areas, campgrounds and docks. The need for changes or improvements to access rivers or streams had the lowest frequency response of these four survey questions. Based on the suggestions provided in the survey responses, it appears there are a few visitors who would like to see trails to some of the streams

and rivers and the highest response frequency for this survey question occurred at Ice House Reservoir.

Table 4.1-9. Changes or improvements identified by Crystal Basin visitors during the summer. (SOURCE: Visitor Use and Impact Technical Report (Dispersed and weighted Developed Data Sets))			
<i>Survey Question: 'Would you like to see any changes or improvements to the existing motorized trail system, such as off-highway vehicle trails, in the Crystal Basin?'</i>			
% of Visitors Answered 'Yes'- Developed Recreation Facilities		% of Visitors Answered 'Yes'- Dispersed Recreation Areas³	Suggested Change/Improvement
All Reservoirs¹	15.4	29.4	Expanding the motorized trail system
Loon Lake Res.²	11.4		Reopening Bassi Falls area
Gerle Cr. Res.²	20.0		Reduce regulations or enforcement of OHV use
Union Valley Res.²	18.7		Improve trailhead markers
Ice House Res.²	13.2		Reduce or eliminate motorized trail system
			Strengthen regulations or enforcement of OHV use
			More paved or other road improvements
<i>Survey Question: 'Would you like to see any changes or improvements to the existing non-motorized trail system, such as off-highway vehicle trails, in the Crystal Basin?'</i>			
% of Visitors Answered 'Yes'- Developed Recreation Facilities		% of Visitors Answered 'Yes'- Dispersed Recreation Areas	Suggested Change/Improvement
All Reservoirs¹	15.2	16.2	Better trail/trailhead marking
Loon Lake Res.²	15.8		Increase information /maps
Gerle Cr. Res.²	18.3		More bike trails
Union Valley Res.²	15.2		More hiking trails
Ice House Res.²	13.8		More equestrian trails
			More trails
			Increase trail maintenance
			Increase level of development
			More hike-in or boat-in campgrounds
<i>Survey Question: 'Are improvements needed to make access to the shorelines of the reservoirs easier, safer or more enjoyable?'</i>			
% of Visitors Answered 'Yes'- Developed Recreation Facilities		% of Visitors Answered 'Yes'- Dispersed Recreation Areas	Suggested Change/Improvement
All Reservoirs¹	23.1	30.9	Clearly defined trail to shoreline
Loon Lake Res.²	22.8		More docks
Gerle Cr. Res.²	12.6		More parking
Union Valley Res.²	24.6		Make improvements for seniors or disabled
Ice House Res.²	23.4		Keep water levels up
			More sand/less rocks
			Pave trail to shoreline
			More picnic or day use areas
			More fish
			Banks are too steep
			More campground or campsites closer to shoreline

Table 4.1-9. Changes or improvements identified by Crystal Basin visitors during the summer. (SOURCE: Visitor Use and Impact Technical Report (Dispersed and weighted Developed Data Sets))			
<i>Survey Question: 'Are improvements needed to make access to the shorelines of the reservoirs easier, safer or more enjoyable?'</i>			
% of Visitors Answered 'Yes'- Developed Recreation Facilities		% of Visitors Answered 'Yes'- Dispersed Recreation Areas	
		Suggested Change/Improvement	
Ice House Res.²			Greater road access
			More designated swimming areas
			Floating bathrooms
			More boat ramps
			More information about access
<i>Survey Question: 'Are improvements needed to make access to the rivers or streams easier, safer or more enjoyable?'</i>			
% of Visitors Answered 'Yes'- Developed Recreation Facilities		% of Visitors Answered 'Yes'- Dispersed Recreation Areas	
		Suggested Change/Improvement	
All Reservoirs¹	6.8	8.8	Improve road and trail access to river or stream
Loon Lake Res.²	5.4		Paved trails or walkways
Gerle Cr. Res.²	8.6		Better parking
Union Valley Res.²	5.8		Picnic areas
Ice House Res.²	9.6		More information about access
			Remove some of the brush along river or stream
			Improve accessibility for seniors or disabled

¹ Weighted data set (n=698)

² Unweighted data set (n(LL)=184; n(GC)=175; n(UV)=171;n(IH)=167)

³ Dispersed surveys conducted face-to-face with visitors generally within ¼ mile of the reservoir shoreline (n=68)

An additional question asked participants to rate how important various facilities and services were in their decision to visit the area. The results of this question are presented in Table 4.1-10 below and bar graphs of the responses for each facility and service are provided in Figure 4.1-1. Among the facilities and services listed, the most important to the visitors surveyed were picnic facilities, boat launches and developed campgrounds; swimming beaches had the lowest response frequency.

Table 4.1-10. How important services and facilities are in visitors' decision to visit the Crystal Basin. (Developed Data Set).					
<i>Survey Question: Please rate how important these facilities and services are in your decision to visit this area?</i>					
% of survey responses (n=697)					
	Not at all important	Somewhat important	Moderately important	Extremely important	No Response
Boat Launches/Ramps	24.2	18.7	17.6	39.2	.3
Developed Campgrounds	7.2	9.9	29.7	52.9	.3
Developed Swimming/Beach Areas	20.9	22	23.2	33.4	.4
Non-motorized trails	16.4	14.2	31.3	37.9	.3
OHV Trails	42.8	21.1	11.2	24.2	.7
Picnic Facilities	12.8	20.7	31.1	35	.4
Two-lane paved road access	8.3	13.3	29.4	48.6	.3

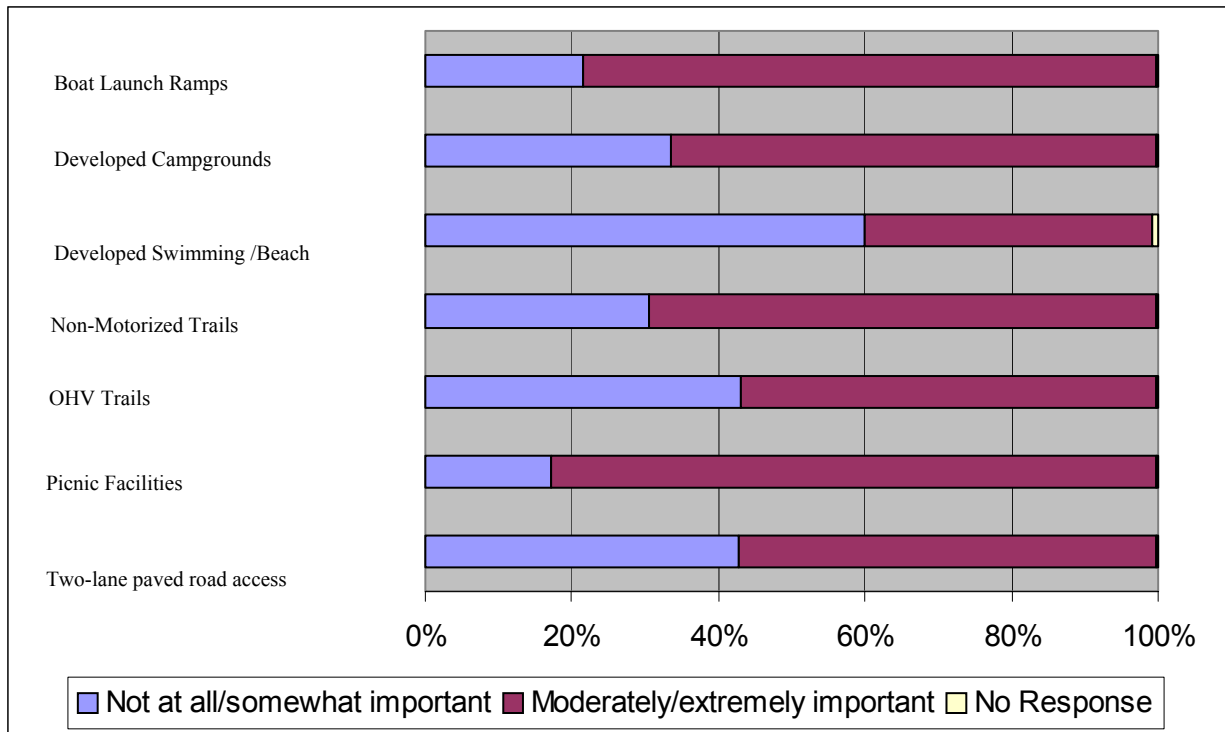


Figure 4.1-1. How important services and facilities are in visitors' decision to visit the Crystal Basin. (SOURCE: Visitor Use and Impact Technical Report (Developed Data Set)).

SMUD also asked visitors questions about needed changes or improvements at UARP recreation facilities. These results are summarized in Table 4.1-11 below. The data are sorted by the reservoir where the facilities are located and by facility. The individual survey responses were recorded verbatim in the field and then common responses were grouped together to further tabulate the responses. The data for the actual improvement or change are listed in the categories of the coded responses. Most of the responses related to restrooms. Visitors often commented that they would like to have flush toilets and showers at the developed facilities. Visitors would also like to see potable water provided in the developed facilities or where potable water is already provided, visitors commented that improvements to these water systems are needed. Improvements for RV access at developed recreation facilities were also identified in the visitor responses. The types of improvements suggested by those surveyed include longer spur lengths and RV hookups at campsites. Visitors also commented on improvements in site management such as picking up litter, more frequent trash collection, cleaner restrooms and enforcing campground rules (e.g. quiet hours).

Table 4.1-11. Changes or improvements to the developed recreation facilities listed by summertime visitors in the Crystal Basin.		
<i>Survey Question: 'Are there any changes or improvements that you would like to see at this facility?'</i>		
	Drilldown of Coded Responses	Percent of Visitors Surveyed at Developed Sites that Answered 'Yes'
<i>All Reservoirs¹</i>		54.4
<i>Loon Lake Reservoir¹</i>		55.4
Loon Lake Chalet² (n=2)		50.0
		% of affirmative responses
Bathroom or shower related	Shower	100
Loon Lake Campground² (n=29)		79.3
		% of affirmative responses
Bathroom or shower related	Shower	52.2
	Flush toilets	
	Cleaner restrooms	
Potable water related	Potable water for dish/hand washing	8.7
	Potable water to fill up RVs	
	Potable water at campsite	
More first-come/first-serve opportunities		8.7
Install food storage boxes		8.7
Solve the bear problem		8.7
RV related	More access for larger RVs	4.3
	Hookups for RVs	
Other developed facility changes related		4.3
Other		4.3
Loon Lake Group Campground² (n=4)		75.0
		% of affirmative responses
Bathroom or shower related	Shower	66.7
	Bathroom improvements	
Less personal watercraft		33.3
Northshore Campground² (n=10)		70.0
		% of affirmative responses
Bathroom or shower related	Bathroom improvements	42.9
	More bathrooms	
	Cleaner bathrooms	
Potable water related	Provide potable water	28.6
Improve management services related	Enforce quiet hours	28.6
	More trash removal	
Red Fir Campground² (n=1)		100
		% of affirmative responses
No response		100
Pleasant Campground² (n=1)		100
		% of affirmative responses
Other developed facility changes related	Response not provided	100
Loon Lake Boat Launch² (n=136)		48.4
		% of affirmative responses
Bathroom or shower related	Shower	31.3
	Flush toilets	
	Bathroom improvements	

Table 4.1-11. Changes or improvements to the developed recreation facilities listed by summertime visitors in the Crystal Basin.		
<i>Survey Question: 'Are there any changes or improvements that you would like to see at this facility?'</i>		
	Drilldown of Coded Responses	Percent of Visitors Surveyed at Developed Sites that Answered 'Yes'
Loon Lake Reservoir¹		55.4
Loon Lake Boat Launch² (n=136)		48.4
Boat launch related	Launching improvements	16.4
Solve the bear problem		7.5
Potable water related	Potable water for dish/hand washing	4.5
	Potable water to fill up RVs	
Other developed facility changes	More picnic tables	4.5
	Bigger parking lot	
Fix or improve roads		4.5
Buoy or markers identifying hazards		4.5
Less powerboats		4.5
Improve management services related	Enforce quiet hours	3.0
Install food storage boxes		3.0
More campgrounds or campsites		3.0
Trails related	Increase/improve trails	1.5
More first-come/first-serve opportunities		1.5
RV related	More access for larger RVs	1.5
More beaches		1.5
Less personal water craft		1.5
Other		4.5
Gerle Creek Reservoir¹		52.0
Gerle Creek CG² (n=103)		51.5
		% of affirmative responses
Bathroom or shower related	Shower	56.6
	Flush toilets	
	Bathroom improvements	
	Cleaner restrooms	
Install food storage boxes		7.5
Fix or improve roads		3.8
Other developed facility changes	Bigger parking lot	3.8
Improve management services related	Enforce quiet hours	3.8
	More trash removal	
Solve the bear problem		3.8
Stock more fish		3.8
Potable water related	Potable water for hand washing	1.9
	Potable water at campsite	
Trails related	Increase/improve trails	1.9
More campgrounds or campsites		1.9
Allow electric motors on Gerle Cr. Reservoir		1.9
Better signs along roadway		1.9
Other		3.8
Airport Flat Campground² (n=43)		58.1
		% of affirmative responses
Bathroom or shower related	Shower	36.0
	Bathroom improvements	
	Cleaner restrooms	

Table 4.1-11. Changes or improvements to the developed recreation facilities listed by summertime visitors in the Crystal Basin.		
<i>Survey Question: 'Are there any changes or improvements that you would like to see at this facility?'</i>		
	Drilldown of Coded Responses	Percent of Visitors Surveyed at Developed Sites that Answered 'Yes'
<i>Gerle Creek Reservoir¹</i>		52.0
Airport Flat Campground² (n=43)		58.1
Potable water related	Provide potable water	28.0
	Potable water for dishes/hands	
RV related	More access for larger RVs	12.0
Install food storage boxes		12.0
Improve management services related		4.0
Other developed facility changes		4.0
Other		4.0
Angel Creek & Gerle Creek Day Use Areas² (n=29)		44.8
		% of affirmative responses
Other developed facility changes	More picnic tables	23.1
	Bigger parking lot	
Install food storage boxes		15.4
Potable water related	Potable water at campsite	7.7
Bathroom or shower related		7.7
RV related	Hookups for RVs	7.7
Fix or improve roads		7.7
Solve the bear problem		7.7
More campgrounds or campsites		7.7
Other		15.4
<i>Union Valley Reservoir¹</i>		54.4
Big Silver Group Campground² (n=2)		50.0
		% of affirmative responses
Potable water related	Provide potable water	50.0
No response		50.0
Camino Cove Campground² (n=9)		55.6
		% of affirmative responses
Potable water related	Provide potable water	40.0
	Do not add potable water	
Other developed facility changes related	More picnic tables	20.0
RV related	More access for larger RVs	20.0
Less OHVs		20.0
Jones Fork Campground² (n=6)		66.7
		% of affirmative responses
Bathroom or shower related	Cleaner restrooms	50.0
Potable water related	Provide potable water	50.0
Azalea Cove/Lone Rock Campground² (n=2)		100
		% of affirmative responses
Potable water related	Provide potable water	50
Other		50

Table 4.1-11. Changes or improvements to the developed recreation facilities listed by summertime visitors in the Crystal Basin.		
<i>Survey Question: 'Are there any changes or improvements that you would like to see at this facility?'</i>		
	Drilldown of Coded Responses	Percent of Visitors Surveyed at Developed Sites that Answered 'Yes'
<i>Union Valley Reservoir¹</i>		54.4
Sunset Campground^{2,3} (n=39)		69.2
		% of affirmative responses
Bathroom or shower related	Shower	88.9
	Flush toilets	
	Bathroom improvements	
	Cleaner restrooms	
Potable water related	Potable water for dish/hand washing	3.7
Other developed facility changes related		3.7
Improve management services related	Reduce litter	3.7
Wench Creek Campground² (n=20)		65.0
		% of affirmative responses
Bathroom or shower related	Shower	69.2
	Bathroom improvements	
Potable water related	Potable water for dish/hand washing	15.4
Other developed facility changes related		7.7
	More beaches	7.7
Wench Creek Gr. Campground² (n=6)		83.3
		% of affirmative responses
Bathroom or shower related	Shower	20.0
Potable water related	Improve water pressure/availability	40.0
Other developed facility changes related		20.0
	Higher reservoir levels	20.0
Westpoint Campground² (n=3)		66.7
		% of affirmative responses
Other developed facility changes related	More picnic tables	50.0
	RV related	50.0
	More access for larger RVs	50.0
Wolf Creek Campground² (n=6)		66.7
		% of affirmative responses
Bathroom or shower related	Shower	25
Potable water related	Improve taste of water	25
Other developed facility changes related		25
	More beaches	25
Yellowjacket Campground² (n=11)		81.8
		% of affirmative responses
Bathroom or shower related	Shower	55.6
Potable water related	Potable water for dish/hand washing	22.2
	Improve water pressure/availability	
RV related	Hookups for RVs	11.1
Boat launch related	Boat launch improvements	11.1
Yellowjacket Boat Launch² (n=5)		60
		% of affirmative responses
Boat launch related		33.3
	More beaches	66.7

Table 4.1-11. Changes or improvements to the developed recreation facilities listed by summertime visitors in the Crystal Basin.		
<i>Survey Question: 'Are there any changes or improvements that you would like to see at this facility?'</i>		
	Drilldown of Coded Responses	Percent of Visitors Surveyed at Developed Sites that Answered 'Yes'
<i>Union Valley Reservoir¹</i>		54.4
Westpoint Boat Launch² (n=28)		39.3
		% of affirmative responses
Boat launch related	Launching improvements	27.3
Bathroom or shower related	Shower	18.2
	Cleaner restrooms	
Other developed facility changes related	Bigger parking lot	18.2
RV related	More access for larger RVs	9.1
Potable water related	Provide potable water	9.1
Trails related	Increase/improve trails	9.1
More beaches		9.1
Sunset Boat Launch² (n=34)		20.6
		% of affirmative responses
Bathroom or shower related	Flush toilets	83.3
	Bathroom improvements	
	More bathrooms	
	Floating bathrooms	
Other developed facility changes related	Cleaner restrooms	
Other developed facility changes related	More picnic tables	16.7
<i>Ice House Reservoir¹</i>		53.9
Ice House Campground² (n=62)		53.2
		% of affirmative responses
Bathroom or shower related	Shower	57.6
	Flush toilets	
	Bathroom improvements	
Improve management services related	Enforce quiet hours	15.2
	Reduce litter	
	More trash removal	
RV related	More access for larger RVs	9.1
	Hookups for RVs	
Potable water related	Potable water for dish/hand washing	3.0
Other developed facility changes related		3.0
Trails related	Increase/improve trails	3.0
Install food storage boxes		3.0
More campgrounds or campsites		3.0
Less personal watercraft		3.0
Northwind Campground² (n=7)		42.9
		% of affirmative responses
Potable water related	Provide potable water	50
Unreadable response		50
Strawberry Campground² (n=8)		62.5
		% of affirmative responses
Bathroom or shower related	More bathrooms	60.0
	Cleaner restrooms	
Potable water related	Provide potable water	20.0
More campgrounds or campsites		20.0

Table 4.1-11. Changes or improvements to the developed recreation facilities listed by summertime visitors in the Crystal Basin.		
<i>Survey Question: 'Are there any changes or improvements that you would like to see at this facility?'</i>		
	Drilldown of Coded Responses	Percent of Visitors Surveyed at Developed Sites that Answered 'Yes'
Ice House Reservoir¹		53.9
Ice House Boat Launch² (n=71)		52.1
		% of affirmative responses
Bathroom or shower related	Shower	42.1
	Flush toilets	
	Bathroom improvements	
	Cleaner restrooms	
RV related	More access for larger RVs	10.5
	Hookups for RVs	
Boat launch related	Launching improvements	10.5
Potable water related	Potable water for dishes and hand washing	7.9
	Potable water to fill RVs	
	Potable water at campsite	
More campgrounds or campsites		7.9
Other developed facility changes related	More picnic tables	5.3
Trails related	Increase/improve trails	2.6
Less powerboats		2.6
Less personal watercraft		2.6
Buoys or markers identifying hazards		2.6
Stock more fish		2.6
Other		2.6
Ice House Day Use Area² (n=19)		63.2
		% of affirmative responses
Bathroom or shower related	Flush toilets	33.3
	More bathrooms	
	Cleaner bathrooms	
Other developed facility changes	More picnic tables	33.3
	Bigger parking lot	
Potable water related	Provide potable water	8.3
	Potable water for dish/hand washing	
Bee traps		8.3
Other		8.3

Note: Non-responses not included so totals may not equal 100 percent.

¹Weighted data set.

²Unweighted data set.

³Includes surveys at Fashoda CG and DU Area

4.1.7.2 Changes and Improvements Identified in Visitor Surveys—Canyonlands

SMUD also asked visitors questions about what changes or improvements are needed in the area where they were intercepted for a survey and changes or improvements needed as related to motorized and non-motorized trail systems. Some of the more common responses for changes or improvements to the area related to the need for restrooms and litter removal. At Brush Creek and Slab Creek reservoirs visitors commented about improving the boat launches, parking area

and access roads. Visitors to Brush Creek and Slab Creek reservoirs also stated that they would like to see management actions that support slow speed motorized boating and flatwater paddling opportunities. These results are summarized in Table 4.1-12 below.

Table 4.1-12. Changes or improvements to the area listed by summertime visitors in the Canyonlands. (SOURCE: Visitor Use and Impact Technical Report (Dispersed Data Set))		
Survey Question: 'Are there any changes or improvements that you would like to see in this area?'		
Reservoir¹/Suggested Change or Improvement	Drilldown of Coded Responses	Percent of Visitors Surveyed at Developed Sites that Answered 'Yes'
Junction Reservoir (n=5)		80.0
Improve management services		
Boat launch related		
Trails related		
Other developed facility changes	More picnic tables	
Slab Creek Reservoir (n=27)		59.0
Cleaner camping area		
Bathrooms and trash cans		
Cleaner		
Easier access to lower reservoir		
Easier access-not able to launch a boat with a trailer		
Eliminate dams on the river		
Less broken glass and trash		
Less pollution		
Survey Question: 'Are there any changes or improvements that you would like to see in this area?'		
Reservoir¹/Suggested Change or Improvement	Drilldown of Coded Responses	Percent of Visitors Surveyed at Developed Sites that Answered 'Yes'
Slab Creek Reservoir (n=27)		59.0
Portable toilet at Slab BL at upper end		
Restrict size of motor/speed limit enforcement		
Stock the reservoirs and streams w/ more fish		
Stock with trout		
Stricter rules for alcohol use in power boats		
Trash cans; FS needs to patrol		
Trash picked up		
Under age drinking-people w/guns shooting		
Brush Creek (n=5)		80.0
Better parking area		
Better road for boat ramp		
Improve access-continue past strong flow		
More clearly marked OHV trails		
More low-speed motorized areas for canoe&kayak-safety		
One lane road needs signs to honk your horn before entering		
Open gate to SFAR at North Canyon/Slab Creek Rd.		

Table 4.1-12. Changes or improvements to the area listed by summertime visitors in the Canyonlands. (SOURCE: Visitor Use and Impact Technical Report (Dispersed Data Set))

<i>Survey Question: 'Would you like to see any changes or improvements to the existing motorized trail system, such as off-highway vehicle trails?'</i>		
Reservoir ¹ /Suggested Change or Improvement	Drilldown of Coded Responses	Percent of Visitors Surveyed at Developed Sites that Answered 'Yes'
Junction Reservoir (n=5)		60.0
Expanded motorized trail system		
Reduce or eliminate motorized trail system		
Slab Creek Reservoir (n=27)		56.0
Expanded motorized trail system		
Reduce or eliminate motorized trail system		
Brush Creek Reservoir (n=5)		40.0
Expanded motorized trail system		
Improve trailhead markers (not obvious if allowable)		
<i>Survey Question: 'Would you like to see any changes or improvements to the existing non-motorized trail system, such as hiking trails?'</i>		
Reservoir ¹ /Suggested Change or Improvement	Drilldown of Coded Responses	Percent of Visitors Surveyed at Developed Sites that Answered 'Yes'
Junction Reservoir (n=5)		0
Slab Creek Reservoir (n=27)		22.0
Better trail/trailhead marking		
More hiking trails		
Increased level of development		
Brush Creek Reservoir (n=5)		0

¹Dispersed Data Set includes Slab Creek, Brush Creek and Junction Reservoirs. No visitors were found at Camino Reservoir during the survey effort.

An additional question asked participants to rate how important various facilities and services were in their decision to visit the area. The results of this question are presented in Table 4.1-13 below and bar graphs of the responses for each facility and service are provided in Figure 4.1-2.

Table 4.1-13. How important services and facilities are in visitors' decision to visit the Canyonlands. (Dispersed Data Set)					
% of survey responses (n=33)					
<i>Please rate how important these facilities and services are in your decision to visit this area?</i>	Not at all important	Somewhat important	Moderately important	Extremely important	No Response
Boat Launches/Ramps	66.7	12.1	6.1	3	12.1
Developed Campgrounds	36.4	21.2	15.2	18.2	9.1
Developed Swimming/Beach Areas	39.4	30.3	12.1	9.1	9.1
Non-motorized trails	12.1		21.2	63.6	3
OHV Trails	75.8	6.1	9.1	0	9.1
Picnic Facilities	48.5	27.3	15.2	3	6.1
Two-lane paved road access	27.3	24.2	30.3	18.2	0

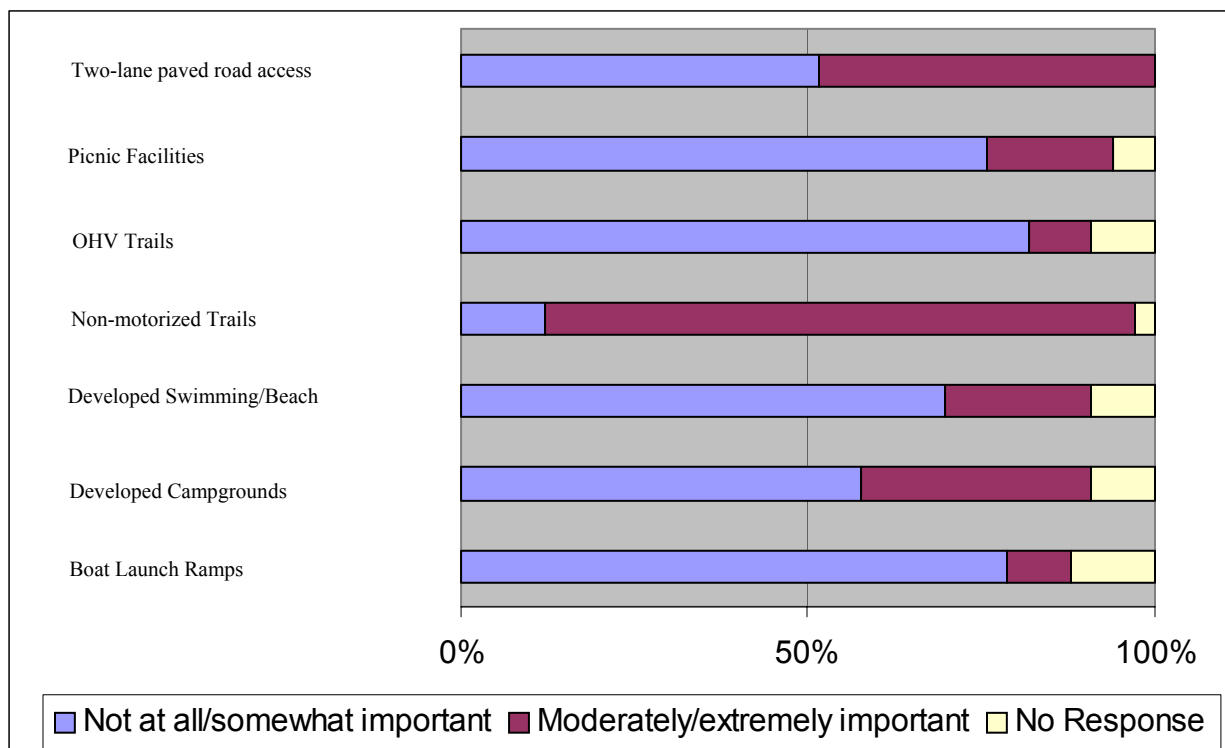


Figure 4.1-2. Percentage of how important services and facilities are in visitors' decision to visit the Canyonlands (n=33). (SOURCE: Visitor Use and Impact Technical Report (Dispersed Data Set)).

Visitors were asked about their access to information about campsite availability, campfire restrictions, reservoir levels, wilderness permits, trails, stream flows, education and environmental displays, and fish stocking. Approximately two-thirds of all visitors surveyed in the Canyonlands responded for that they 'had never looked for' each type of information. The remaining one-third of the respondents found the information either 'adequate' or 'inadequate' and the majority of these responses were 'adequate'.

4.1.7.3 Changes and Improvements—Winter

Both types of winter surveys solicited visitor responses regarding changes and improvements. These responses are tabulated in Table 4.1-14 below. Most of the affirmative survey responses relating to changes at the Loon Lake Chalet concerned the restrooms. People commented that they would like cleaner restrooms, flush toilets, indoor restrooms and showers. Other amenities that people said they would like at the Chalet included: mirrors, ceiling fans, telephone/pay phone, electricity, TV/VCR, radio and hot tub. Many visitors commented that they would like to see larger areas plowed for parking, more plowed roads and they would like to have access to campgrounds and boat launches during the winter. The responses included suggestions to improve winter opportunities such as more ski trails, groomed trails, and more huts. Some comments reflected opposing views of activities that should be allowed during winter months. In particular, some visitors want increased access for OHVs and snowmobiles while others would like to see restrictions placed on these recreational activities.

Table 4.1-14. Changes or improvements to the developed recreation facilities listed by wintertime visitors in the Crystal Basin. (SOURCE: Visitor Use and Impact Technical Report.)		
Survey Question: 'Are there any changes or improvements that you would like to see at Loon Lake Chalet?'		
	Responses recorded as 'Other'	Percent of Visitors Surveyed that Answered 'Yes'
Loon Lake Chalet Surveys (n=51)		66.7
		% of affirmative responses
Other	Responses not provided	38.2
Telephone/Pay phone		8.8
Flush Toilets		5.9
Showers		5.9
Ceiling Fans		5.9
Oven		5.9
Electricity/Outlets in Loft		5.9
Radio		5.9
Hot tub		5.9
Indoor Bathrooms		2.9
Cleaner Bathrooms		2.9
Mirror		2.9
TV/VCR		2.9
Crystal Basin Windshield Surveys (n=223)		12.1
		% of affirmative responses
Other	Less bears in campgrounds (summer)	37.0
	Public BBQ area	
	Open it to snowmobiling	
	Open to public on holidays	
	Area not available for most of my use	
	Access for disabled	
	Open one day per week	
	Limit commercial use	
	One more bathroom	
Flush Toilets		11.1
Water/sink in bathrooms		11.1
Showers		7.4
Info on renting/day use		7.4
Reduce ice @ entrance/parking lot		7.4
Indoor bathrooms		3.7
Mirror		3.7
Oven		3.7
TV/VCR		3.7
Hot tub		3.7

Table 4.1-14. Changes or improvements to the developed recreation facilities listed by wintertime visitors in the Crystal Basin. (SOURCE: *Visitor Use and Impact Technical Report.*)

Survey Question: 'Do you have adequate access to information about reservations and availability of the Loon Lake Chalet?'

	Suggested Changes or Improvements	Percent of Visitors Surveyed that Answered 'Adequate'
Loon Lake Chalet Surveys (n=51)	Website improvements	70.6
	Simplify reservation process	
	More advertisement	
	Improve road signs	
Crystal Basin Windshield Surveys (n=223)	Expand chalet	40.4
	Add new huts in other areas	
	Did not know it was available	
	Hard to find available weekend to rent	
	Post info on how to reserve outside chalet or at commercial business in Placerville.	
	Less advertisement	
	Mailers, advertisements, brochures	
	Provide info at Camino FS office	

Survey Question: Are there any changes or improvements that you would like to see¹:

	Suggested Changes or Improvements	Percent of Visitors Surveyed that Answered 'Yes'
Related to parking		17.9
		% of affirmative responses
	More/enlarge plowed parking areas along route	55.0
	More/enlarge plowed parking areas at a campground	12.5
	More/enlarge plowed parking areas at Ice House Res.	10.0
	Other:	7.5
	Handicap boat spaces needed	
	Signs telling others not to block other vehicles in	

Survey Question: 'Do you have adequate access to information about reservations and availability of the Loon Lake Chalet?'

	Suggested Changes or Improvements	Percent of Visitors Surveyed that Answered 'Adequate'
Related to parking		17.9
	More/enlarge plowed parking areas at Robbs Hut	5.0
	More/enlarge plowed parking areas at Loon Lake Res.	5.0
	More/enlarge plowed parking areas at Gerle Cr. Dam Rd.	2.5

Table 4.1-14. Changes or improvements to the developed recreation facilities listed by wintertime visitors in the Crystal Basin. (SOURCE: *Visitor Use and Impact Technical Report.*)

Survey Question: 'Do you have adequate access to information about reservations and availability of the Loon Lake Chalet?'

	Suggested Changes or Improvements	Percent of Visitors Surveyed that Answered 'Adequate'
<i>Related to the access road</i>		20.2
		% of affirmative responses
	Open/plow Sunset Boat Launch	51.1
	More road repairs	13.3
	Open a campground	13.3
	Other:	11.1
	Blocked to 4 wheelers	
	Better access	
	Open restrooms at Cleveland Corral	
	Need bike lanes	
	Close Cheese Camp Rd. after 1 st snow (no OHVs)	
	Snow plow more often	8.9
	Open more roads	8.9
	Reduce ice on roads	8.9
	More/enlarge plowed parking areas	8.9
	Expand roads plowed	4.4
	Open/plow Loon Lake Launch	4.4
	Better road signs	4.4
<i>Related to the winter sports trails</i>		16.6
		% of affirmative responses
	More trails	24.3
	Improve trail markers	21.6
	Other:	16.2
	Trails to telemark (telemark hill is not steep enough)	
	Signage to unplowed roads that would be good cross country ski trails	
	Add ski area	
	Van Vleck trail-Loon Lake-after campground, needs to be rerouted and improved through chaparral area	
	More warming huts	
	Bathrooms	
	Groomed trails	13.5
	Provide map of trails	8.1
	More OHV opportunities	8.1
	Limit OHV access	5.4
<i>Related to the winter sports trails</i>		16.6
	Improve trailhead signs	2.7

Table 4.1-14. Changes or improvements to the developed recreation facilities listed by wintertime visitors in the Crystal Basin. (SOURCE: Visitor Use and Impact Technical Report.)

<i>Survey Question: 'Do you have adequate access to information about reservations and availability of the Loon Lake Chalet?'</i>		
	Suggested Changes or Improvements	Percent of Visitors Surveyed that Answered 'Adequate'
<i>Other improvements related to winter recreation in the Crystal Basin</i>		22.0
		% of affirmative responses
	Other:	32.7
	Boat docks/launch ramps always open	
	Organize parking for snowplay areas	
	Date maps /info so visitor know how current it is	
	Keep boat docks floating year round	
	Stock the lake better	
	Cheaper camping	
	Develop marked trails around Ice House area & low level areas. Signs become covered in deep snow.	
	Provide more snow	
	Safe, designated snow play areas	
	We like the limited snowmobiling	
	More open gates	
	Better boat ramp at Loon Lake	
	Not building more campgrounds	
	Maintain Robbs Hut & Chalet as they are	
	No snowmobiles on Cheese Camp Rd.	
	Open a campground	20.4
	More warming huts	12.2
	Bathroom improvements	6.1
	Trash bins	6.1
	Less OHV opportunities	6.1
	More/enlarge plowed parking areas	4.1
	More OHV opportunities	4.1
	Improvements for snowmobiling	2.0
	Groomed trails	2.0
	Expand roads plowed	2.0

Crystal Basin Windshield Winter Surveys only, Visitor Use and Impact Technical Report

Other cuff notes on the survey responses to this question included: boat docks/launch ramps should always be open, organize parking for snow play areas, date maps and information so visitors can determine how current it is, keep boat docks floating in water year-round, stock the lake better, lower fees for camping, develop marked trails around Ice House, designate safe snow play areas, enjoy that snowmobile use is restricted, more open gates, better boat ramp at Loon Lake, do not build more campgrounds, maintain Robbs Hut and the Chalet as they are and snowmobiles should not be allowed on Cheese Camp Road.

4.1.8 Additional Visitor Survey Results

The following survey questions were asked of visitors during the 2002 survey effort to reveal information about visitors intended and actual visit.

- Is your visit to (state reservoir name, location, or campground):
 - the primary destination of your trip?
 - a side trip while camped at another location in the Crystal Basin?
 - or a stop on route to another destination? If so, where?
- If you are staying overnight in the Crystal Basin, are you:
 - camping at a campground in the Crystal Basin? (record campground name)
 - camping in an undeveloped campsite? (describe location)
 - or staying in a resort or private cabin or residence? (record resort or describe location)
- If you are staying overnight at this location, did you plan to stay here or did you intend to stay at a developed campground? (Question for only those overnight visitors who were not surveyed at a developed facility.)
 - Intended to stay here
 - Intended to stay at a developed campground (specify which one)
 - Not staying at an undeveloped campsite
- Did you arrive here in a vehicle? If yes, did you cross Loon Lake Dam or arrive by another route (specify)? (Question for only Spider Lake visitors.)
- From the activities listed on this card, please select the recreational activities you have participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping.
 - Activities listed on card: backpacking, hunting, sail boating, bicycling, off-highway vehicle use, swimming, canoeing/kayaking, picnicking, visiting cultural/historic sites, fishing (lake or reservoir), photography, wildlife viewing, fishing (stream or river), power boating, hiking/walking, PWC use (jet ski), and other (specify).
- What are your three most important recreational activities from this list?
 - Activities listed on card: backpacking, hunting, sail boating, bicycling, off-highway vehicle use, swimming, canoeing/kayaking, picnicking, visiting cultural/historic sites, fishing (lake or reservoir), photography, wildlife viewing, fishing (stream or river), power boating, hiking/walking, PWC use (jet ski), and other (specify).

- From the settings listed on this card, please rate how important these settings are in your decision to visit the Crystal Basin. (Scale: not at all important somewhat important, moderately important, extremely important.)
 - Setting rated: mountain/forested area, natural lakes and ponds, reservoirs, and rivers/streams.

- From the facilities and services listed on the card, please rate how important these facilities and services are in your decision to visit the Crystal Basin. (Scale: not at all important somewhat important, moderately important, extremely important.)
 - Facilities and services rated: boat launch ramps, developed campgrounds, developed swimming/beach areas, non-motorized trails, OHV trails, picnic facilities, two-lane paved road access.

- What other areas have you visited or plan to visit during your stay at the Crystal Basin, and what is the primary activity you did or will do there?

Frequency tables contained in Appendix C, organized by survey area, show the results to the survey questions listed above. The following tables compare various results from each survey area.

4.1.8.1 Primary or Other Destination

Table 4.1-15 shows the percent of visitors surveyed that identified the survey location as their primary destination vs. a side trip or a stop on route to another destination.

Table 4.1-15. Percent of visitors that identified the survey location as their primary destination vs. a side trip or a stop on route to another destination, from surveys conducted in 2002 at the UARP			
Type of Visit	Survey Area¹		
	Developed	Dispersed	Dispersed – Wilderness Trailhead
Primary destination of trip	88 %	87 %	84 %
A side trip while camped at another location in the Crystal Basin	9 %	10 %	4 %
A stop on route to another destination	3 %	3 %	12 %
Total	100 %	100 %	100 %

¹Sample size: Developed, n=692; Dispersed, n=68; Dispersed – Wilderness Trailhead, n=25.

4.1.8.2 Overnight Use at Developed and Undeveloped Sites

Most overnight visitors surveyed in dispersed settings stated they were camping in an undeveloped campsite. And most overnight visitors surveyed in dispersed settings stated they

intended to camp in an undeveloped area, versus staying in a developed campground (Table 4.1-16).

Table 4.1-16. Percent of overnight visitors camping in an undeveloped area who intended to camp in an undeveloped area vs. staying at a developed campground, from surveys conducted in 2002 at the UARP.			
Type of Camping Planned	Survey Area¹		
	Developed	Dispersed	Dispersed – Wilderness Trailhead
Intended to camp in an undeveloped area	N/A	93 %	100 %
Intended to camp at a developed campground	N/A	7 %	0 %
Total		100 %	100 %

¹Sample size: Dispersed, n=46; Dispersed – Wilderness Trailhead, n=18.

Tables 4.1-17 and 4.1-18 show survey results that provide an indication of the magnitude of visitation to UARP reservoirs from visitors who camp in undeveloped settings. Table 4.1-17 shows the percentage of visitors surveyed at boat launches and picnic facilities at the four primary UARP reservoirs that were camping in an undeveloped area. Survey results shown in Table 4.1-18 shows the percentage of visitors who were surveyed at undeveloped areas at a UARP reservoir who were camping in an undeveloped areas.

Table 4.1-17. Percent of visitors surveyed in 2002 at boat launches and picnic facilities at the four primary UARP reservoirs that were camping in an undeveloped area.¹		
Description of Undeveloped Camping Area	Frequency	Percent
Site within .25 mile of Ice House Reservoir	0	0.0
Site within .25 mile of Union Valley Reservoir	14	4.3
Site within .25 mile of Gerle Creek Reservoir	0	0.0
Site within .25 mile of Loon Lake Reservoir	7	2.2
Upper Jones Fork Silver Creek Area	1	0.3
Lower Jones Fork Silver Creek Area	0	0.0
Big Silver Creek Area	1	0.3
Undecided	3	1.0
Other Dispersed Area	2	0.6
No Response	2	0.6
Total	30	9.3
Not Camping in an Undeveloped Area	292	90.7
Total	322	100.0

¹Developed data set – weighted (n=322).

Description of Undeveloped Camping Area	Frequency	Percent
Site within .25 mile of Ice House Reservoir	0	0.0
Site within .25 mile of Union Valley Reservoir	10	15.9
Site within .25 mile of Gerle Creek Reservoir	10	15.9
Site within .25 mile of Loon Lake Reservoir	21	33.3
Upper Jones Fork Silver Creek Area	0	0.0
Lower Jones Fork Silver Creek Area	0	0.0
Big Silver Creek Area	0	0.0
Undecided	0	0.0
Other Dispersed Area	0	0.0
Total	41	65.1
No Response	1	1.6
Not Camping in an Undeveloped Area	21	33.3
Total	63	100.0

¹Dispersed data set (n=63).

4.1.8.3 Visits to Other Nearby Areas

Tables 4.1-19 through 4.1-24 provide an indication of where else visitors to the UARP reservoirs and nearby areas go to recreate in the Crystal Basin during a single visit. For example, about 9 percent of the visitors surveyed at Ice House Reservoir’s developed facilities also visit Wrights Lake (Table 4.1-19). For Table 4.1-19, the results can be read as follows: of the 167 surveyed visitors at Ice House Reservoir’s developed facilities, 110, or 65.9 percent, stayed at the current location during the visit. Of the 57 surveyed visitors who visited other areas, 30, representing 18.0 percent of the 167 surveyed visitors, visited another area at Ice House Reservoir; 19, representing 11.4 percent of the 167 surveyed visitors, visited another area at Union Valley Reservoir; etc. Each respondent could have identified up to five other areas.

	Count	Percent of Cases
Stayed at current location ¹	110	65.9
Visited other areas	57	34.1
Other Areas Visited		
Ice House Reservoir	30	18.0
Union Valley Reservoir	19	11.4
Wright’s Lake	15	9.0
Gerle Creek Reservoir	9	5.4
Loon Lake Reservoir	7	4.2
Other non-UARP streams	4	2.4
Rubicon OHV Trail / Wentworth Springs Road	3	1.8
Other	3	1.8
Robbs Resort	2	1.2
Gerle Creek below Loon Lake Dam	1	0.6

Table 4.1-19. Frequency for “other areas visited during stay” from the 167 visitors surveyed at <u>Ice House Reservoir’s developed facilities in 2002.</u>		
	Count	Percent of Cases
Other Areas Visited		
Bassi Falls	1	0.6

¹Includes the survey site and the visitor’s campground, if applicable. Of the 120 who stayed overnight, 89% stayed in a developed campground at Ice House Reservoir.

Table 4.1-20. Frequency for “other areas visited during stay” from the 171 visitors surveyed at <u>Union Valley Reservoir’s developed facilities in 2002.</u>		
	Count	Percent of Cases
Stayed at current location ¹	106	62.0
Visited other areas	65	38.0
Other Areas Visited		
Union Valley Reservoir	31	18.1
Loon Lake Reservoir	21	12.3
Ice House Reservoir	19	11.1
Gerle Creek Reservoir	10	5.8
Wrights Lake	7	4.1
Other non-UARP streams	5	2.9
Robbs Resort	5	2.9
Ice House Resort	4	2.3
Other	4	2.3
Bassi Falls	3	1.8
Crystal Basin Information Station	2	1.2
Rubicon OHV Trail / Wentworth Springs Road	2	1.2
Gerle Creek below Loon Lake Dam	2	1.2
Rubicon Reservoir	1	0.6
Bunker Hill Lookout	1	0.6
Robbs Hut	1	0.6

¹Includes the survey site and the visitor’s campground, if applicable. Of the 137 who stayed overnight, 91% stayed in a developed campground at Union Valley Reservoir.

Table 4.1-21. Frequency for “other areas visited during stay” from the 175 visitors surveyed at <u>Gerle Creek Reservoir’s developed facilities in 2002.</u>		
	Count	Percent of Cases
Stayed at current location ¹	78	44.6
Visited other areas	97	55.4
Other Areas Visited		
Loon Lake Reservoir	47	26.9
Gerle Creek Reservoir	37	21.1
Union Valley Reservoir	19	10.9
Rubicon OHV Trail / Wentworth Springs Road	16	9.1
Ice House Reservoir	14	8.0
Gerle Creek below Loon Lake Dam	9	5.1
Robbs Resort	9	5.1
Wrights Lake	8	4.6
Other non-UARP streams	6	3.4
Other	5	2.9
Spider Lake	3	1.7

	Count	Percent of Cases
Other Areas Visited		
Bunker Hill Lookout	3	1.7
Robbs Hut	3	1.7
Big Hill Lookout	2	1.1
Bunker Hill Lookout	1	0.6
Robbs Hut	1	0.6
Rubicon Reservoir	1	0.6
Rubicon River	1	0.6
Wentworth Springs	1	0.6
End of FS Road 13N77 (near Deer Creek)	1	0.6
Rubicon Hiking Trail	1	0.6

¹Includes the survey site and the visitor’s campground, if applicable. Of the 166 who stayed overnight, 96% stayed in a developed campground at Gerle Creek Reservoir.

	Count	Percent of Cases
Stayed at current location ¹	113	61.4
Visited other areas	71	38.6
Other Areas Visited		
Loon Lake Reservoir	25	12.5
Rubicon OHV Trail / Wentworth Springs Road	18	9.8
Ice House Reservoir	17	9.2
Gerle Creek Reservoir	15	8.2
Union Valley Reservoir	12	6.5
Spider Lake	7	3.8
Wrights Lake	5	2.7
Other	4	2.2
Gerle Creek below Loon Lake Dam	3	1.6
Big Hill Lookout	2	1.1
McKinstry Lake	2	1.1
Robbs Resort	2	1.1
Robbs Hiking Trail	2	1.1
Other non-UARP streams	1	0.5
Shadow Lake	1	0.5
Rubicon Reservoir	1	0.5
Rubicon Hiking Trail to Spider Lake	1	0.5
Rubicon Hiking Trial to Buck Island Reservoir	1	0.5
Robbs Hut	1	0.5

¹Includes the survey site and the visitor’s campground, if applicable. Of the 130 who stayed overnight, 82% stayed in a developed campground at Loon Lake Reservoir.

	Count	Percent of Cases
Stayed at current location ²	29	42.6
Visited other areas	39	57.4

Table 4.1-23. Frequency for “other areas visited during stay” from the visitors surveyed in the Dispersed area in 2002.¹

Other Areas Visited		
Rubicon OHV Trail / Wentworth Springs Road	16	23.5
Loon Lake Reservoir	13	19.1
Union Valley Reservoir	13	19.1
Gerle Creek Reservoir	8	11.8
Ice House Reservoir	7	10.3
Other	6	8.8
Robbs Resort	5	7.4
Gerle Creek below Loon Lake Dam	2	2.9
Bunker Hill Lookout	2	2.9
Bassi Falls	1	1.5
Buck Island Reservoir	1	1.5
Wrights Lake	1	1.5
Rubicon Hiking Trail to Spider Lake	1	1.5
Spider Lake	1	1.5
Wentworth Springs	1	1.5
Ice House Resort	1	1.5
End of FS Road 13N77 (near Deer Creek)	1	1.5
Crystal Basin Information Station	1	1.5

¹Includes the survey site and the visitor’s campground, if applicable.

²Sample size: n=68.

Table 4.1-24. Frequency for “other areas visited during stay” from the visitors surveyed in the Dispersed – wilderness trailhead area in 2002.¹

	Count	Percent of Cases
Stayed at current location ²	0	0.0
Visited other areas	25	100.0
Other Areas Visited		
Rubicon Hiking Trail	10	40.0
Rockbound Lake	8	32.0
Buck Island Reservoir	6	24.0
Loon Lake Reservoir	5	20.0
Rubicon Reservoir	5	20.0
Spider Lake	3	8.0
Ice House Reservoir	2	8.0
Other	2	8.0
Other non-UARP streams	2	8.0
Union Valley Reservoir	1	4.0
Gerle Creek Reservoir	1	4.0
Shadow Lake	1	4.0
Rubicon River	1	4.0

¹Sample size: n=25.

²Includes the survey site and the visitor’s campground, if applicable.

4.1.8.3 Importance of Settings, Facilities and Services to Visitors

Table 4.1-25 shows the average (mean) ratings of importance of various settings in the visitor’s decision to come to the Crystal Basin, organized by survey area. For example, the “reservoirs”

setting was rated the highest by the visitors surveyed at the developed facilities located around the four primary UARP reservoirs (3.66 on average), followed by visitors surveyed in dispersed areas generally within one-quarter mile from a UARP reservoir shoreline (3.51 on average). Whereas visitors surveyed in dispersed areas at the wilderness trailhead, along unregulated streams and at Spider Lake rated “reservoirs” lower in their decision to come to the Crystal Basin (averages of 3.16, 3.25, and 3.16, respectively). Similarly, Table 4.1-26 shows the average (mean) ratings of importance of various facilities and services in the visitor’s decision to come to the Crystal Basin, by survey area.

Table 4.1-25. Average (mean) ratings of importance of various settings in the visitor's decision to come to the Crystal Basin, from the surveys conducted in 2002 at the UARP.

Setting	Survey Area	Percentage of Respondents					Mean	Total n	Standard Deviation
		Not at all important=1	Somewhat important=2	Moderately important=3	Extremely important=4	No Response			
Mountain/Forested Setting	Developed	0.7	2	11	86.5	1	3.83	697	0.47
	Dispersed	0	3	12	85	0	3.82	33	.047
	Dispersed Trailhead	0	4	16	80	0	3.76	25	0.52
Natural Lakes & Ponds	Developed	3.5	5.9	15.7	75	1	3.62	697	0.75
	Dispersed	0	6	9	85	0	3.79	33	0.55
	Dispersed Trailhead	0	4	8	88	0	3.84	25	0.52
Reservoirs	Developed	1.5	7.3	15.2	76	1	3.66	697	0.68
	Dispersed	9.4	19	19	53	0	3.16	33	1.05
	Dispersed Trailhead	4	17	17	62	1	3.38	24	0.92
Rivers & Streams	Developed	5.1	11.4	19.8	63.7	1	3.42	697	0.88
	Dispersed	3	6	21	70	0	3.58	33	0.75
	Dispersed Trailhead	4	8	24	64	0	3.48	24	0.82

Table 4.1-26. Average (mean) ratings of importance of various facilities and services in the visitor's decision to come to the Crystal Basin, from the surveys conducted in 2002 at the UARP.¹									
Facility or Service	Survey Area ²	Percentage of Respondents							
		Not at all important=1	Somewhat important=2	Moderately important=3	Extremely important=4	No Response	Mean	Total n	Standard Deviation
Boat Launch Ramps	Developed	19	17	19	44	0.2	2.88	698	1.18
	Dispersed	67	12	6	3	12	1.38	33	0.77
	Dispersed Trailhead	64	12	4	4	16	1.38	25	0.80
Developed Campgrounds	Developed	8	11	30	51	0.4	3.25	698	0.93
	Dispersed	36	21	15	18	9	2.17	33	1.17
	Dispersed Trailhead	36	16	16	20	12	2.23	25	1.23
Developed Swimming/ Beach Areas	Developed	21	21	23	35	0.3	2.71	698	1.53
	Dispersed	39	30	12	9	9	1.9	33	1.00
	Dispersed Trailhead	32	40	12	4	12	1.86	25	0.83
Non-Motorized Trails	Developed	18	14	33	34	0.2	2.83	698	1.09
	Dispersed	12	0	21	64	3	3.41	33	1.01
	Dispersed Trailhead	8	12	76	96	4	3.63	25	0.88
OHV Trails	Developed	43	22	10	23	0.5	2.14	698	1.21
	Dispersed	76	6	9	0	9	1.27	33	0.64
	Dispersed Trailhead	76	4	8	0	12	1.23	25	0.61
Picnic Facilities	Developed	13	20	31	35	0.3	2.88	697	1.04
	Dispersed	48	27	15	3	6	1.71	33	0.86
	Dispersed Trailhead	0	40	32	20	8	1.78	25	0.80

Table 4.1-26. Average (mean) ratings of importance of various facilities and services in the visitor's decision to come to the Crystal Basin, from the surveys conducted in 2002 at the UARP.¹

Facility or Service	Survey Area ²	Percentage of Respondents							
		Not at all important=1	Somewhat important=2	Moderately important=3	Extremely important=4	No Response	Mean	Total n	Standard Deviation
Two-Laned Paved Road Access	Developed	9	13	28	50	0.2	2.88	697	1.04
	Dispersed	27	24	30	18	0	2.39	33	1.09
	Dispersed Trailhead	na	na	na	na	na	na	na	na

¹Scale: 1=not at all important, 2=somewhat important, 3=moderately important, and 4=extremely important. Horizontal placement of mean is approximate; a bolded mean designates it exceeds its placement on table.

²Sample size: Developed, n=694; Dispersed, n=68; Dispersed – Wilderness Trailhead, n=25.

4.1.8.4 Effects of UARP Operation on Recreation

During the 2002 summer survey effort, specific questions were asked concerning how **reservoir levels** affected visitors. The *Visual Assessment of Upper American River Project Operations Technical Report* also presents visitor survey results concerning the effects of UARP operation on recreation and aesthetics. In general, the reservoir levels of all three storage reservoirs (Ice House, Union Valley and Loon Lake) were at or were slightly above the historical median elevation during the 2002 survey period.

As part of the 2002 summer survey, visitors were asked: “*Did the water level of this reservoir allow you to participate in the recreational activities you had planned?*” For those who answered “no,” a follow-up question was asked: “*To what degree did the water level of this reservoir negatively impact your ability to have the type of experience you had planned?*” Table 4.1-26 summarizes the results of the two questions above. Another question asked related to reservoir levels was: “*To what extent did the water level of this reservoir negatively affect the quality of the experience you had planned?*” Table 4.1-27b summarizes the results to this question.

Table 4.1-27a. Responses to recreation visitor surveys conducted in 2002 at the UARP about whether the reservoir water level allowed the visitor to participate in the activities they had planned.					
	Question: “Did the water level of this reservoir allow you to participate in the recreational activities you had planned?”				
	(percent response)				
Survey Area¹	Yes	No		No Opinion	
Developed (all four reservoirs)	92	3		5	
Developed – Ice House Reservoir	94	2		4	
Developed – Union Valley Res.	92	4		4	
Developed – Gerle Creek Res.	85	1		14	
Developed – Loon Lake Reservoir	92	2		6	
Dispersed (all four reservoirs)	93	-		7	
Dispersed – Canyonlands	83	10		7	
	Question asked of those who said “no” to the above question: “To what degree did the water level of this reservoir negatively impact your ability to have the <u>type</u> of experience you had planned?” ²				
	(number/percent response)				
	No Impacts	Minimal Impacts	Moderate Impacts	Significant Impacts	No Opinion
Developed (all four reservoirs)	-	8/46	6/31	-	4/23
Developed – Ice House Reservoir	-	1/25	1/25	-	2/50
Developed – Union Valley Res.	-	3/50	2/33	-	1/17
Developed – Gerle Creek Res.	-	-	-	-	2/100
Developed – Loon Lake Reservoir	-	2/67	1/33	-	-
Dispersed (all four reservoirs)	-	-	-	-	-

¹Sample size: Developed, n=698 (weighted data); Developed – IHR, n=167; Developed – UVR, n=171; Developed – GCR, n=175; Developed – LLR, n=184; Dispersed, n=68; and Dispersed – Canyonlands, n=30. These questions were not included in the mail-back survey instrument provided to the visitors at the wilderness trailhead.

²This question was not included in the mail-back survey instrument provided to the Canyonlands visitors.

Table 4.1-27b. Responses to recreation visitor surveys conducted in 2002 at the UARP about the extent to which the reservoir water level negatively affected the quality of the experience they had planned.

Survey Area ¹	Question: "To what extent did the water level of this reservoir negatively affect the <u>quality</u> of the experience you had planned?"				
	(percent response)				
	None	Minimal	Moderate	Significant	No Opinion
Developed (all four reservoirs)	90	4	1	-	5
Developed – Ice House Reservoir	92	1	2	1	4
Developed – Union Valley Res.	90	6	1	-	3
Developed – Gerle Creek Res.	87	1	1	-	11
Developed – Loon Lake Reservoir	90	3	-	-	7
Dispersed (all four reservoirs)	85	3	3	2	7

¹Sample size: Developed, n=698 (weighted data); Developed – IHR, n=167; Developed – UVR, n=171; Developed – GCR, n=175; Developed – LLR, n=184; and Dispersed, n=68. This question was not included in the mail-back survey instrument provided to the visitors at the wilderness trailhead.

The survey question shown in Table 4.1-27 was included in the mail-back survey instrument used in the dispersed – canyonlands survey area. However, results from the canyonlands survey area for this question are not included in Table 4.1-27 because the question was only applicable for respondents who checked "no" to the question: "*Did the level of this reservoir allow you to participate in the recreation activities you had planned?*" Even though only 10 percent (3 visitors) answered "no" to the question on participation, 31 percent (11 visitors) answered the question: "*To what extent did the water level of this reservoir negatively affect the quality of the experience you had planned?*" Of the 11 visitors who answered the question, six (55%) checked "minimal," two (18%) checked "moderate," two (18%) checked "significant," and one (9%) checked "no-response."

Similar questions were asked during the 2002 summer survey effort concerning how **stream flows** affected visitors. Visitors were asked: "*Did the amount of flow in the streams allow you to participate in the activities you had planned?*" For those who answered "no," a follow-up question was asked: "*To what degree did the amount of flow in the streams negatively impact your ability to have the type of experience you had planned?*" Table 4.1-28 summarizes the results of the two questions above. Another question asked related to stream flows was: "*To what extent did the amount of flow in the streams negatively affect the quality of the experience you had planned?*" Table 4.1-29 summarizes the results to this question.

Table 4.1-28. Responses to recreation visitor surveys conducted in 2002 at the UARP about whether the amount of flow in the streams allowed the visitor to participate in the activities they had planned.

Survey Area ¹	Question: "Did the amount of flow in the streams allow you to participate in the activities you had planned?"		
	(percent response)		
	Yes	No	No Opinion
Developed (all four reservoirs)	46	5	49
Developed – Ice House Reservoir	53	5	42
Developed – Union Valley Res.	44	6	50
Developed – Gerle Creek Res.	66	6	28
Developed – Loon Lake Reservoir	39	4	57
Dispersed (all four reservoirs)	42	9	49

Table 4.1-28. Responses to recreation visitor surveys conducted in 2002 at the UARP about whether the amount of flow in the streams allowed the visitor to participate in the activities they had planned.					
Survey Area¹	Question: “Did the amount of flow in the streams allow you to participate in the activities you had planned?”				
	(percent response)				
	Yes	No	No Opinion		
Dispersed – Canyonlands	82	12	6		
Dispersed – wilderness trailhead	64	8	28		
	Question asked of those who said “no” to the above question: “To what degree did the amount of flow in the streams negatively impact your ability to have the <u>type</u> of experience you had planned?” ²				
	(number/percent response)				
	No Impacts	Minimal Impacts	Moderate Impacts	Significant Impacts	No Opinion
Developed (all four reservoirs)	-	7/19	8/20	1/3	22/58
Developed – Ice House Reservoir	-	-	2/25	1/13	5/62
Developed – Union Valley Res.	-	2/18	2/18	-	7/64
Developed – Gerle Creek Res.	-	2/20	-	-	8/80
Developed – Loon Lake Reservoir	-	3/38	2/25	-	3/37
Dispersed (all four reservoirs)	2/33	-	1/17	-	3/50

¹Sample size: Developed, n=698 (weighted data); Developed – IHR, n=167; Developed – UVR, n=171; Developed – GCR, n=175; Developed – LLR, n=184; Dispersed, n=68; Dispersed – Canyonlands, n=17; and Dispersed – wilderness trailhead, n=25.

²This question was not included on the mail-back survey instrument provided to the visitors at the Canyonlands or at the wilderness trailhead.

Table 4.1-29. Responses to recreation visitor surveys conducted in 2002 at the UARP about the extent to which the amount of flow in the streams negatively affected the <u>quality</u> of the experience they had planned.					
Survey Area¹	Question: “To what extent did the amount of flow in the streams negatively affect the <u>quality</u> of the experience you had planned?”				
	(percent response)				
	None	Minimal	Moderate	Significant	No Opinion
Developed (all four reservoirs)	56	2	2	-	40
Developed – Ice House Reservoir	64	1	3	-	32
Developed – Union Valley Res.	54	1	2	-	43
Developed – Gerle Creek Res.	74	1	2	-	23
Developed – Loon Lake Reservoir	49	3	1	-	47
Dispersed (all four reservoirs)	59	3	-	-	38

¹Sample size: Developed, n=698 (weighted data); Developed – IHR, n=167; Developed – UVR, n=171; Developed – GCR, n=175; Developed – LLR, n=184; and Dispersed, n=68.

The survey question shown in Table 4.1-29 was included in the mail-back survey instruments used in the dispersed – canyonlands survey area and the dispersed – wilderness trailhead survey area. However, results from the canyonlands survey area and the wilderness trailhead survey area for this question are not included in Table 4.6-4 because the question was only applicable for respondents who checked “no” to the question: “*Did the amount of flow in this stream allow you to participate in the recreation activities you had planned?*”

For the dispersed – canyonlands survey area, even though only 6 percent (2 visitors) answered “no” to the question on participation, 11 percent (4 visitors) answered the question: “*To what*

extent did the amount of flow in this stream negatively affect the quality of the experience you had planned?” Of the four visitors who answered the question, one (25%) checked “minimal,” one (25%) checked “moderate,” one (25%) checked “significant,” and one (25%) checked “no-response.”

For the dispersed – wilderness trailhead survey area, of the 8 percent (2 visitors) who answered “no” to the question on participation, one (50%) checked “minimal” and one (50%) checked “significant” in answering the question: “*To what extent did the amount of flow in this stream negatively affect the quality of the experience you had planned?*”

4.1.8.5 Adequacy of Access to UARP Reservoirs and Streams

Table 4.1-30 summarizes the results to the following two survey questions related to whether access improvement are needed to reservoirs or streams: “*Are improvements needed to make access to the shorelines of the reservoirs: easier, safer, more enjoyable? If yes, what?*” and “*Are improvements needed to make access to rivers and streams: easier, safer more enjoyable? If yes, what?*” These two survey questions were not asked of the visitors to the canyonlands area. Complete results can be found in the frequency tables contained in Appendix C.

Table 4.1-30. Responses to visitor surveys conducted in 2002 at the UARP about whether access improvements are needed at (1) the <u>shorelines of the reservoir</u> and (2) along the <u>rivers or streams</u>.				
Question: “Are improvements needed to make access to the...: easier, safer, more enjoyable?”:		Percent responses from visitor surveys at: ¹		
		Developed	Dispersed	Dispersed – wilderness trailhead
Shorelines of the reservoir?	Yes	23	31	24
	No	71	60	56
	No Opinion	6	9	20
Four most common suggestions for improvement, by %, of respondents who said “yes”: ²				
Clearly defined trail to the shoreline		16	16	-
More sand/less rocks		16	10	-
More campgrounds closer to shoreline		6	-	17
Make improvements for seniors or disabled		5	-	-
Rivers or streams?	Yes	7	9	12
	No	57	76	56
	No Opinion	36	15	32
Four most common suggestions for improvement, by %, of respondents who said “yes”: ²				
Improve road and trail access to streams		38	57	-
Provide more information about access		12	14	-
Better parking		10	-	-
Make improvements for seniors or disabled		7	-	-

¹Sample size: Developed, n=698; Dispersed, n=68; Dispersed – wilderness trailhead, n=25; Dispersed – canyonlands, n=36.

²Each respondent could have identified up to four improvements.

In general, most visitors, regardless of survey area, said improvements are not needed to make access to the shorelines of the reservoirs or to the streams easier, safer or more enjoyable. Across all three survey areas, a greater percentage of respondents answered “yes” to this question relative to shorelines of the reservoir, than to rivers and streams. Only about 10 percent of the respondents said improvements are needed to make access to rivers and streams easier,

safer or more enjoyable (7% for developed, 9% for dispersed and 12% for dispersed – wilderness trailhead).

4.1.9 Angling Opportunities and Angler Satisfaction

The UARP's reservoirs and the streams downstream of UARP dams provide angling opportunities. One of the primary issue questions addressed by the visitor surveys conducted in 2002 relate to fishing. Specifically, the surveys were designed to answer the issue question: "*What are the opportunities for angling at Project waters and what is the level of angler satisfaction?*"

Although results of several survey questions were analyzed to answer this issue question, two survey questions were specifically developed for this issue question per the request of California Department of Fish and Game staff. Those two survey questions are:

"Did the quality of the fishing attract you to (*record general area and circle response*): Yes or No?" and

"Please rate the quality of your fishing experience at (*record general area and circle response*): Poor, Fair, Good, or Excellent."

The first question was asked of those respondents who identified fishing as an activity they participated in or plan to participate in during the visit. The second question was only asked of those respondents who identified fishing as an activity they have participated in during this visit.

The results of the analysis are presented primarily in crosstabulation format between 1) the survey questions listed below; and 2) respondents who (a) participated in or plan to participate in fishing, (b) said fishing was their most important activity, and (c) said fishing was their most important activity and was surveyed at a boat launch facility.

1. Did the quality of the fishing attract you to..., Yes or No?
2. Please rate the quality of your fishing experience at..., Poor, Fair, Good or Excellent.
3. Are improvements needed to make access to the shorelines of the reservoirs easier, safer, or more enjoyable?
4. Are improvements needed to make access to rivers or streams easier, safer, or more enjoyable?
5. Did the water level of this reservoir (*or closest reservoir*) allow you to participate in the recreational activities you had planned?
6. To what extent did the water level of this reservoir (*or closest reservoir*) negatively affect the quality of the experience you had planned?

7. Did the amount of flow in the streams allow you to participate in the activities you had planned?
8. To what extent did the amount of flow in the streams negatively affect the quality of the experience you had planned?
9. Adequacy of access to information about 1) fish stocking; 2) stream flow rates and/or depths; and (3) reservoir levels.

Also, to further assess satisfaction of anglers who fish the streams below UARP dams, crosstabulations are presented for survey questions 4, 7 and 8 (above) with respondents who said river/stream fishing was their 1st, 2nd or 3rd most important activity.

Because the results are presented in numerous crosstabulation tables, organized by survey locations (i.e., developed, dispersed, dispersed – canyonlands) in outline format, the results of the analysis on angling opportunities and angler satisfaction is contained in Appendix F. Additional information on angling opportunities is contained in the *Recreation Supply Technical Report*.

4.1.9.1 Stream Angler Focus Group Results

The primary objective of the stream angler focus group was to determine what the opportunities are for angling in the streams below UARP dams and the level of angler satisfaction. The results are presented in two sections: 1) general information, which covers the general angling preference of the anglers in the focus group; and 2) the stream reach information which targets specific stream reaches located below UARP dams. Both survey responses and group discussion responses are referenced in the discussion below.

General Information

Results from the General Information Form show that the group was composed primarily of fly anglers, with one spin angler and one fly angler that occasionally also used bait. The number of fishing days per year, ranged from 6 days to more than 20. Specifically, two anglers reported an average of 6 to 10 days per year, one angler reported 11 to 15 days per year, two others reported an average of 16 to 20 days per year, and the remaining four anglers reported fishing more than 20 days per year. The participant responses to each of the two survey instruments are included in Appendix C.8.

The entire group stated that trout was their species of choice. Most of the participants fished during the entire trout-angling season, April through October. Anglers from the group stated that the time of year that they fish is determined by the fishing season and natural constraints. These constraints included lack of access due to snow and high flows. The days of the week that people fished was largely determined by the individuals work schedules. Those that did not have schedule constraints reported a preference to fish mid-week due to reduced fishing pressure during that time (i.e., more likely not to see other people during mid-week). Almost all of the

participants fished in small groups, one to two people, with only two anglers stating that they had typical group sizes of 3-5 anglers.

Results of the survey revealed the most important attribute for a quality fishing experience was river aesthetics. During the focus group, the participants elaborated on this topic to explain that stream health was the most important attribute for quality fishing. This included clean water and good aesthetics. Fishing success was secondary to stream health. While the numbers of fish caught was not as important, the anglers expressed it was important to know that there were fish in the stream. This was a determining factor whether a reach would be revisited or not. One angler stated that “You have to know that you are casting over something,” and that the challenge was in trying to catch them. Several other attributes included solitude, availability of wild trout, and stable flows. Stable flows were generally viewed as better for fishing. Most of the group felt that flow information would be beneficial to anglers for the reaches located below UARP dams.

Access was also listed as an important attribute. However, it was unclear from the survey results if anglers felt that easy access or difficult access was a positive attribute. During the group discussion most of the group clarified that they felt that poor access was actually considered to be a positive attribute. The general feeling was that the more difficult the access, the better the fishing could be due to a decrease in the number of anglers fishing that reach. Most also reported that they preferred a more remote fishing experience. Some members of the group stated that as they became older, better access became more important to them. This information was consistent with the stream reach surveys where most of these anglers did not recommend any improvements to access on any of the reaches. In fact, in some cases they recommended reducing access.

The participants that had experience with commercial guiding did not see good opportunities for future commercially guided fishing trips on the reaches below UARP dams. The participants agreed that most of the reaches are too difficult to access due to very steep and rugged topography to provide quality, guided experiences.

Stream Reach Information

At least one participant had fished each of the reaches listed on the survey. The South Fork Silver Creek below Ice House Dam and Silver Creek below Junction Dam each had five anglers that had fished in these reaches. Three anglers had experience on the Rubicon below Rubicon Dam and Silver Creek below Camino Dam. Gerle Creek below Loon Lake Dam, South Fork Rubicon below Robbs Forebay Dam and the South Fork American below Slab Creek Dam each had two anglers that had fished these reaches. The short reach below the Camino Powerhouse, only had one angler that had previously fished this section.

Rubicon River from Rubicon Reservoir Dam to Hell Hole Reservoir

This 11.7-mile reach is one of the more remote reaches evaluated. Due to its remoteness most anglers hike into this reach for long day excursions or backpack in and stay overnight. There are

a number of ways to access this reach from the Loon Lake area and from the bottom of the reach up from Hell Hole Reservoir. The season of use on this reach was reported to be June through October. The primary constraint on earlier access is high flows and or snow. The anglers considered the fishing on this river reach to be excellent, where anglers reported that they primarily caught rainbows with a few brown trout. The poor access to this reach was considered to be one of the reasons for the minimal fishing use that this reach receives. None of the anglers had any interest in seeing access to this reach improved. Two of the three anglers felt that flow information would be helpful on this reach, although none had encountered flows in the past that were a problem. One angler suggested increased flows in the summer.

Gerle Creek from Loon Lake Dam to Gerle Creek Reservoir.

Roaded access on this 8.5-mile stream reach is better than on most of the other reaches that were evaluated. The reach can be accessed from Wentworth Springs Road and Forest Service Road 14N34. It can also be accessed from the Loon Lake area at the end of Ice House Road. One of the anglers noted that it was difficult to access the stream in some areas due to vegetation. Neither angler who had fished this reach recommended any access improvements.

One of the two anglers found the flows to be too high for fishing in the early spring and also too low in the late summer for good fishing, however, both felt flow information would be a benefit. The anglers agreed that they felt that this reach receives a moderate amount of pressure from anglers. Both of the anglers who fished this reach reported their fishing success to be fair, however, in the group discussion there seemed to be consensus that this was one of the better reaches at the UARP. Gerle Creek is the one reach that was evaluated that is populated with high numbers of resident brown trout.

One angler from the group discussion stated that he had seen people keeping brown trout near the Airport Flat Campground during the fall spawning season. The group expressed some interest in having some special regulations, possibly catch and release or a two fish limit, to protect the native brown trout fishery in Gerle Creek and Gerle Creek Reservoir. One of the members of the group expressed concern that special regulations could actually attract more anglers to this reach. In general, the focus group agreed that protecting this reach was a high priority.

South Fork Rubicon River from Robbs Forebay Dam to confluence with Rubicon River

Two anglers in the focus group had fished this reach in the past. They had accessed it from Ice House Road, near Robbs Peak Reservoir, below the South Fork Campground and on the Deer Creek Trail. Both anglers had found this reach to receive moderate to high amount of fishing pressure. Although, in the group discussion they stated that the amount of fishing pressure decreases substantially once you get away from the primary points of access. Each angler reported very different fishing experiences on the reach. While one had poor fishing on the reach the other had excellent fishing. They had each fished the South Fork Rubicon River between three to six times. Neither recommended improving access but there was a suggestion

to keep this reach as a walk-in only area. They were split on whether flow information for this reach would be helpful.

South Fork Silver Creek from Ice House Dam to Junction Reservoir

Five members of the focus group had previously fished this reach. This 11.5-mile reach has a number of access points all along its course. Most of the access points allow drive up access to the river. It is also the reach with the closest access to Highway 50 in the Crystal Basin. The group was split on their estimations of the amount of fishing pressure on this reach. Two rated it low, two rated it high and one said that it had a moderate amount of fishing pressure. All of the anglers rated the fishing from fair to poor. Most of the anglers stated that they did not feel the need for any access improvements but one did feel that a pathway along the river would be helpful. Most felt that they would like to see flow information on this reach.

Silver Creek from Junction Dam to Camino Reservoir

This 8.3-mile reach is very difficult to access. There are two options for access, either hiking up from Camino Reservoir or hiking down from Junction Reservoir. Hiking along the river channel was described as challenging due to the very steep canyon. Surprisingly, this reach had the second highest number of anglers to have fished this reach of any in the survey. All of the anglers found the fishing on this reach to be only fair. They all described the fishing pressure on this reach as moderate to low. Most did not recommend any access improvements, however, one did feel that a trail would be helpful.

Silver Creek from Camino Dam to confluence with South Fork American River

This 9.0-mile reach also offers challenging access. The two routes taken by anglers were hiking up from the bottom, near the Camino Powerhouse, or hiking down from Camino Reservoir. In the spring, flows are more of an issue for anglers accessing the reach from the Camino Powerhouse area. This is due to the high natural flows that occur on the South Fork American River which constitutes the bottom portion of this reach. The quality of the fishing rating ranged from poor to good by the three anglers that had fished the reach. The one angler who had the most extensive experience on this reach, twelve trips, stated that his fishing success on this reach had decreased since the 1997 flood, but had been improving in recent years. Both brown and rainbow trout were caught in this reach. None of the anglers recommended any access improvements on this river segment stating they preferred keeping the access difficult. Two of the three anglers who had fished the reach recommended having flow information available.

South Fork American River from Camino Powerhouse to Slab Creek Reservoir

This very short river segment was only fished by one of the anglers in the focus group. It is essentially the tail waters below the Camino Powerhouse, above Slab Creek Reservoir. As such, this reach has relatively high flows that can vary throughout the day. Even so, the angler that had fished this area stated that these flows had not impacted his fishing experience. He also

reported the fishing to be good to very good. This area has drive up access that is approximately a 20-minute drive from Pollock Pines. No access improvements were recommended.

South Fork American River from Slab Creek Dam to Chili Bar Reservoir

This is the lowest elevation river reach evaluated by the group. Both anglers that had fished this section accessed the reach from Slab Creek Dam. They reported the quality of the fishing to be low. One angler felt that this was due to low flows. Rattlesnakes were said to be a problem on this reach. It was difficult for anglers to move up and down this reach due to large boulders and steep canyon walls. Both felt that flow information would be helpful. Neither recommended any access improvements.

Analysis

The Stream Angling Focus Group consisted of a relatively small group of experienced anglers and was primarily made up of fly anglers. Fishing success on the surveyed reaches ranged from excellent to poor. The participants' experiences often varied on the same reaches, but this is not uncommon. Given these qualifiers there seem to be some consistent responses in some of the information provided by this group. First, stream anglers seek to fish areas where they are not likely to see other anglers or other recreationists. This is also consistent with the preferred group sizes identified by the participants, generally one to two people. One of the general conditions that exists with stream angling is that after a pool has been fished, the fish will become generally "spooked" and become uncatchable for some time. Even with a party size of two anglers, fisherman would have to alternate fishing pools in small streams such as the ones investigated during this study effort. Fishing success could be easily impacted by the presence of other anglers or visitors. This also helps to explain the participants' lack of interest, in most cases, in any access improvements. In fact, the group often expressed access "improvements" as a means to limit access, particularly vehicular access. It is also interesting to note that the reach from Camino Powerhouse to Slab Creek Reservoir, which has drive-up access and potentially good fishing, had very little interest from the anglers in this group. This is consistent with this group of anglers desire to have a more remote angling experience.

Most anglers had found flows on the surveyed reaches to be stable in the past. This would be consistent with the release patterns that exist below the UARP dams. The group generally felt that stable flows improve fishing. However, fishing was reported to be good to very good below the Camino Powerhouse where flows fluctuate regularly. Most anglers also felt that flow information would be helpful. This was not specific to particular reaches but rather the anglers who expressed a desire to have flow information available to them wanted it available for all of the reaches. Those who stated that they did not need flow information consistently responded it was not necessary on all of the reaches.

One of the only recommendations to come from the group was a desire to protect the native brown trout fishery on Gerle Creek and in Gerle Creek Reservoir, particularly during the fall spawning season. Suggestions from the participants included closing this area to fishing during spawning and imposing a lower limited catch during the rest of the year. Having flows and

reservoir elevations that are adequate for spawning should also be considered. One other concern expressed by one of the anglers was regarding the possibility of flow changes for recreational whitewater boating and potential impacts to the fishing opportunities on the reaches below UARP dams.

In general the group indicated that good angling opportunities exist on some of the reaches below UARP dams. The quality of angling opportunities on some of the reaches are below average, particularly when combined with their difficult access. Many of the anglers also indicated that some of their favorite streams were not below UARP dams but regionally they did have numerous high quality angling opportunities on central Sierra Nevada streams. They also stated that this was contrary to the common perception that California stream fisheries are highly impacted because of the State's large population.

Additional investigation regarding angling is planned to be completed in 2004.

4.1.10 Other Sources of Information About Visitors

Supplemental information about visitors to the UARP can be inferred from data collected as part of other survey efforts. Recognizing that these other information sources were not developed specifically to provide information about visitors to the UARP, the information does provide a general characterization about visitors who visit forested settings within approximately 20 miles of the UARP reservoirs. One of these sources of demographic information is the NVUM surveys conducted on Ice House Road near Highway 50 where the ENF collected data from 212 respondents. Another source is the visitor surveys completed as part of the relicensing effort for FERC Project No. 184 which includes reservoirs that the visitors to the UARP said that they visit for similar recreation experiences. Visitor data regarding the gender, ethnicity and age from various information sources are presented in Table 4.1-31.

Comparing the information from these surveys shows some areas of consistency. The UARP visitor surveys show a higher percentage of male survey respondents than female respondents. The surveys completed by EID show this same tendency. The NVUM survey responses captured ethnicity data and most (88.6%) of those surveyed identified their ethnic background as white. The EID surveys also showed high percentages (82.7% and 86.7%) of white respondents in the 1999 and 2002. The most frequent age grouping in both the NVUM survey and EID survey responses was 40 to 49 years with the majority of the respondents being between 30 and 59 years.

		Percent of Respondents		
Gender-		Visitor Surveys-summer	Visitor Surveys-Winter/LLC	Visitor Surveys-Winter/Windshield
	Male	57.5	56.9	68.2
	Female	38.6	43.1	31.8

Table 4.1-31. Demographic information about visitors to the Crystal Basin. (SOURCE: Visitor surveys 2002-03, NVUM Surveys and EID Visitor Surveys)				
		Percent of Respondents		
Gender-		Visitor Surveys-summer	Visitor Surveys-Winter/LLC	Visitor Surveys-Winter/Windshield
			EID Surveys³	
			1999	2002
	Male		61.9	61.0
	Female		38.1	39.0
Ethnicity²		NVUM Surveys²		
	Black/African American	3.3	0.7	0.4
	Asian	1.4	4.3	2.7
	Native Hawaiian or Pacific Islander	0.5		
	White	88.6	82.7	86.7
	American Indian/Alaska Native	2.4	2.0	1.7
	Spanish, Hispanic or Latino	3.8	6.5	4.1
	Other		3.8	4.4
Age				
	16-19	3.8		10.9
	20-29	8.0		
	30-39	15.6		25.3
	40-49	27.8		32.7
	50-59	23.1		19.6
	60-69	16.0		11.5
	70 and over	5.7		

¹Unweighted Developed Data Set, Visitor Surveys 2002-03
²NVUM Survey responses collected on Ice House Road 2003
³El Dorado Irrigation District Visitor Surveys, FERC Project No. 184

4.2 Effects of the UARP on Wilderness Values

The 2002 recreation survey effort included responses from visitors who parked their vehicle at the wilderness trailhead at Loon Lake Reservoir, many of whom hiked into the Desolation Wilderness via the Rubicon Hiking Trail (it is a 6-mile hike from the trailhead to the wilderness boundary near Rockbound Lake). The Rubicon Hiking Trail also provides access to Buck Island and Rubicon reservoirs. There are no developed recreation facilities at either Buck Island Reservoir or Rubicon Reservoir.

The wilderness trailhead survey results help answer the following issue question: “*What are the effects of Project facilities and operations on wilderness values?*” Although the sample size is small, the survey responses from those visitors to the wilderness trailhead parking lot provides information that can be considered in assessing the effects of the UARP on wilderness values and recreation in the high country. Tables 4.11-2, 4.6-3 and 4.7-1 show the trail users’ views concerning the hiking trail, stream flows and access to reservoirs and streams. In addition, the results presented in the *Visual Assessment of Upper American River Project Features Technical Report* also provide an indication of the effects of the UARP on wilderness vales and recreation in the high country.

As background, the US Congress also considered this question in 1969 during the process to initially designate the Desolation Wilderness (see Public Law 91-82, October 10, 1969). They acknowledged that the existing structures of the Rubicon Dam (constructed in 1963) are nonconforming manmade structures that are not consistent with the concept of wilderness, and that SMUD must have reasonable access for operation and maintenance, including for streamflow and snow gaging purposes. Thus, the area containing the Rubicon Reservoir was excluded from the wilderness. Moreover, to ensure the area containing the Rubicon Reservoir does not become commercialized or further developed, they decided the excluded area would be managed in a manner that is consistent with the adjacent wilderness with a provision that SMUD would continue to have reasonable access for facility operation and maintenance.

Since the designation of the Desolation Wilderness, SMUD has operated and maintained the Rubicon Reservoir facilities in a manner that is, at a minimum, consistent with past practices prior to the designation, and no new development or commercialization has occurred in the area containing the Rubicon Reservoir.

4.3 Benefits of Recreation Associated with the UARP

In conducting the Socioeconomic Impact Study for the UARP and the Chili Bar Socioeconomic Study, SMUD gathered information to answer the following issue question: “*What are the benefits of recreation associated with the UARP?*” Expenditures from visitors to UARP reservoirs, as well as visitors who whitewater boat below Chili Bar Dam, contribute to the local economy. In addition, these visitors receive non-monetary value by participating in the recreational activity associated with the UARP. The technical reports for these socioeconomic studies document the recreation benefits associated with the UARP.

4.4 Current and Projected User Conflicts

The 2002 recreation survey effort included responses from visitors concerning crowding and conflicts (see survey instrument contained in Appendix B.2, survey questions 23 through 26). Conflicts caused by other recreation activities (e.g., noise from jet skis, rowdy people, gunshots) as well as conflicts caused by non-recreation activities (e.g., fear of bears, disturbance from road construction activities, timber harvesting), and the magnitude of how crowded visitors felt at recreation facilities and on the reservoirs in boats were documented. Frequency tables of the results of the crowding and conflict survey questions are contained in Appendix C. A summary of the results to these questions is presented in the *Recreation Carrying Capacity Technical Report*, Section 4.0.

4.5 UARP and Project 184 Combined Impacts

In conducting the Recreation Flow Study (Downstream Reach below Chili Bar Dam), SMUD gathered information to answer the following issue question: “*What are the combined impacts to recreation relative to flows and reservoir levels of the UARP and Project 184 (Silver Creek to confluence downstream)?*” The *Recreation Flow Technical Report* includes a hydrological assessment of the combined impacts of the two hydro projects.

4.6 Visual Assessment of Recreation Areas

During the 2002 and 2003 recreation survey effort and other related fieldwork, SMUD conducted a visual assessment of resource damage that appeared to be related to recreation use and noted the observed damage. The results of this visual assessment are contained in the following two reports. The *Recreation Supply Technical Report* includes maps that show the location of UARP recreation facilities and commonly uses areas for dispersed recreation near the UARP reservoirs. And the *Recreation Carrying Capacity Technical Report*, Sections 4.1.4 and 4.3.3, includes a description of the resource damage noted at UARP recreation facilities and at areas with dispersed recreation activities near the UARP reservoirs.

4.7 Existing Recreational Visitor Use

In general, most of the UARP recreational use occurs at the UARP reservoirs in the Crystal Basin at Ice House, Union Valley, Gerle Creek and Loon Lake reservoirs. UARP recreation facilities including campgrounds, day use areas, boat launches, trailheads and scenic overlooks exist at these UARP reservoirs. The following sections include discussions about estimated recreational use, related to UARP recreation facilities and areas at and near the UARP. The sources of information used to develop an estimate of existing recreational use at and near the UARP include SMUD’s FERC Form 80, ENF RIM and Fee Demonstration Project data, and various forms of ENF data provided for visitor use at dispersed recreation, huts and developed facility use during the shoulder season.

4.7.1 Licensed Hydropower Development Recreation Report Form (Form 80)

Hydropower licensees are required to report recreational use at their projects to the FERC every six years. The most recent filing of this information for the UARP was in 2003. The recreational use data to prepare this filing with the FERC was developed using data from the 2002 recreation season that was summarized on the Licensed Hydropower Development Recreation Report Form, which is also known as Form 80. This form was filed with and accepted by the FERC on April 1, 2003. The information on the 2003 FERC Form 80 is another source of information that documents the levels and patterns of recreational use occurring at the UARP. Table 4.7-1 below summarizes this information for the main UARP reservoirs.

Table 4.7-1. Recreational use estimates and occupancy for UARP Reservoirs in the Crystal Basin.				
	Ice House	Union Valley	Gerle Creek	Loon Lake
Number of Recreation Days¹:				
Daytime Annual Total	17,333	20,989	2,905	13,346
Daytime Peak Weekend Average ²	794	1,257	113	524
Nighttime Annual Total	43,234	79,826	11,057	26,330
Nighttime Peak Weekend Average ²	1,178	3,744	558	928
Facility Capacity Percent³				
Access Areas ⁴	50%	50%	50%	50%
Boat Ramps	30%	30%	N/A	20%
Boat Launching Lanes	30%	30%	N/A	20%
Fishing Piers	N/A	N/A	25%	N/A
Trails	N/A	20%	N/A	25%

Table 4.7-1. Recreational use estimates and occupancy for UARP Reservoirs in the Crystal Basin.				
	Ice House	Union Valley	Gerle Creek	Loon Lake
Facility Capacity Percent³				
Swimming Areas	N/A	30%	N/A	N/A
Picnic Areas	30%	30%	35%	25%
Camping Areas	65%	50%	50%	75%
Organization Camps	50%	40%	N/A	100%
Group Camps	50%	50%	N/A	N/A

¹Each visit by a person to a development for recreational purposes during any portion of a 24-hour period.

²Weekends when recreational use is at its peak for the season (July 4th weekend and other holiday weekends).

³Amount of weekend use for this season reported compared with the facility's capacity to handle such use.

⁴Unimproved but well-known/popular sites which can be used to reach development waters (including waters below a dam) without trespassing on other property.

4.7.2 Facility Capacity Observations

SMUD made observations at parking areas at the various UARP boat launches, day use areas and trail heads facilities in the Crystal Basin in 2002 and 2003. These observations were only taken at one time of the day during the afternoon in an effort to capture the recreational use during its peak on holidays, weekends and weekdays. Table 4.7-2 below summarizes the observations taken during the summers of 2002 and 2003, the capacity of the individual facilities and their occupancy rates. Typically the highest occupancies were observed on holiday and some weekend days during between and including Memorial Day and Labor Day. Capacity of the parking areas in some cases exceeded 100 percent as vehicles were observed parked along road shoulders and beyond the developed boundaries of the facility.

Table 4.7-2. Observations for parking areas at boat launches, day-use areas and trailheads-Crystal Basin 2002 and 2003.										
Location (BL=Boat Launch DU=Day Use TH=Trailhead)	Date/Time/Day of week (H=holiday, WE=weekend, WD=weekday)	No. of Spaces Occupied ¹			Capacity of the Site ¹			% Occupancy (No. Sites Occupied/Site Capacity)		
		Single vehicle or trailer	Vehicle with trailer	Total No. Sites Occupied	Single vehicle	Vehicle with trailer	Total capacity	Single vehicle or trailer	Vehicle with trailer	Total
Ice House										
Ice House DU Area	7/4/02, 3:00pm (H)	37	0	37	12	3	15	308%	0%	260%
	7/5/03, 2:38pm (H)	49	0	49				408%	0%	327%
	8/30/03, 11:05am (H)	4	0	4				33%	0%	27%
	7/26/03, 12:35pm (WE)	37	0	37				308%	0%	247%
	8/9/03, 11:04am (WE)	12	0	12				100%	0%	80%
	8/5/03, 1:56pm (WD)	5	0	5				42%	0%	33%
	8/27/03, 1:53pm (WD)	3	0	3				25%	0%	20%
Ice House BL	7/4/02, 10:00am (H)	18	9	27	0	62	62	N/A	15%	44%
	7/4/02, 2:45pm (H)	26	17	43				N/A	27%	69%
	7/5/03, 2:15pm (H)	45	16	61				N/A	26%	98%
	8/30/03, 11:am (H)	14	12	26				N/A	19%	42%
	8/10/02, 5:20pm (WE)	17	0	17				N/A	0%	27%
	7/26/03, 12:15pm (WE)	32	17	49				N/A	27%	79%
	8/9/03, 11:00am (WE)	28	11	39				N/A	18%	63%
	8/5/03 1:50pm (WD)	8	6	14				N/A	10%	23%
	8/27/03, 1:46pm (WD)	5	1	6				N/A	2%	10%
Union Valley										
Jones Fk. Bike TH	7/5/03, 2:06pm (H)	18	0	18	13	0	13	138%	N/A	138%
	8/30/03, 11:15am (H)	3	0	3				23%	N/A	23%
	7/29/03, 12noon (WE)	1	0	1				8%	N/A	8%
	8/9/03, 11:12am (WE)	3	1	4				23%	N/A	31%
	8/5/03, 1:35pm (WD)	0	0	0				0%	N/A	0%
	8/27/03, 1:24pm (WD)	0	0	0				0%	N/A	0%
Westpoint BL	5/26/02, 2:00pm (H)	14	0	14	9	6	15	156%	0%	93%
	7/5/03, 11:38am (H)	16	10	26				178%	167%	173%
	8/30/03, 12:24pm (H)	11	0	11				122%	0%	73%
	7/26/03, 11:15am (WE)	10	4	14				111%	67%	93%
	8/9/03, 2:48pm (WE)	12	5	17				133%	83%	113%
	8/5/03, 10:51am (WD)	3	3	6				33%	50%	40%
	8/27/03, 10:54am (WD)	5	1	6				56%	17%	40%

Table 4.7-2. Observations for parking areas at boat launches, day-use areas and trailheads-Crystal Basin 2002 and 2003.										
Location (BL=Boat Launch DU=Day Use TH=Trailhead)	Date/Time/Day of week (H=holiday, WE=weekend, WD=weekday)	No. of Spaces Occupied ¹			Capacity of the Site ¹			% Occupancy (No. Sites Occupied/Site Capacity)		
		Single vehicle or trailer	Vehicle with trailer	Total No. Sites Occupied	Single vehicle	Vehicle with trailer	Total capacity	Single vehicle or trailer	Vehicle with trailer	Total
Union Valley										
Sunset BL	7/4/02, 4:00pm (H)	25	18	43	0	92	92	N/A	20%	47%
	7/5/03, 1:55pm (H)	71	51	122				N/A	55%	133%
	8/30/03, 11:38am (H)	31	26	57				N/A	28%	62%
	8/10/02, 4:20pm (WE)	24	25	49				N/A	27%	53%
	7/26/03, 11:50am (WE)	48	45	93				N/A	49%	101%
	8/9/03, 11:25am (WE)	23	23	46				N/A	25%	50%
	8/5/03, 1:28pm (WD)	14	9	23				N/A	10%	25%
	8/27/03, 1:18pm, (WD)	2	1	3				N/A	1%	3%
Fashoda DU Area ³	5/26/02, 2:30pm (H)	35	0	35	110	0	110	32%	N/A	32%
	7/4/02, 4:00pm (H)	42	1	43				38%	N/A	39%
	7/5/03, 1:52pm (H)	110	0	110				100%	N/A	100%
	8/30/03, 11:35am (H)	25	2	27				23%	N/A	25%
	7/26/03, 11:52am (WE)	55	0	55				50%	N/A	50%
	8/9/03 11:23am (WE)	62	3	65				56%	N/A	59%
	8/5/03, 1:30pm (WD)	6	1	7				5%	N/A	6%
	8/27/03, 1:15pm (WD)	2	0	2				2%	N/A	2%
Big Silver Bike TH	7/5/03, 1:46pm (H)	5	0	5	7	0	7	71%	N/A	71%
	8/30/03, 11:46am (H)	0	0	0				0%	N/A	0%
	7/25/03, 11:45am (WE)	0	0	0				0%	N/A	0%
	8/9/03, 11:32am (WE)	0	0	0				0%	N/A	0%
	8/5/03, 1:23pm (WD)	1	0	1				14%	N/A	14%
	8/27/03, 1:11pm (WD)	1	0	1				14%	N/A	14%
Wench Cr. Bike TH	7/5/03, 1:20pm (H)	5	0	5	6	0	6	83%	N/A	83%
	8/30/03, 11:19am (H)	2	0	2				33%	N/A	33%
	7/26/03, 11:40am (WE)	0	0	0				0%	N/A	0%
	8/9/03, 11:35am (WE)	2	0	2				33%	N/A	33%
	8/5/03, 1:13pm (WD)	0	0	0				0%	N/A	0%
	8/27/03, 1:01pm (WD)	0	0	0				0%	N/A	0%
Yellowjacket BL ²	7/5/03, 11:57am (H)	30	5	35	0	18	18	N/A	28%	194%
	8/30/03, 12:07pm (H)	15	6	21				N/A	33%	117%
	7/26/03, 11:30pm (WE)	14	3	17				N/A	17%	94%
	8/9/03, 11:44am (WE)	16	4	20				N/A	22%	111%
	8/5/03, 11:08am (WD)	2	2	4				N/A	11%	22%
	8/27/03, 11:17am (WD)	0	0	0				N/A	0%	0%

Table 4.7-2. Observations for parking areas at boat launches, day-use areas and trailheads-Crystal Basin 2002 and 2003.										
Location (BL=Boat Launch DU=Day Use TH=Trailhead)	Date/Time/Day of week (H=holiday, WE=weekend, WD=weekday)	No. of Spaces Occupied ¹			Capacity of the Site ¹			% Occupancy (No. Sites Occupied/Site Capacity)		
		Single vehicle or trailer	Vehicle with trailer	Total No. Sites Occupied	Single vehicle	Vehicle with trailer	Total capacity	Single vehicle or trailer	Vehicle with trailer	Total
Union Valley										
Big Hill Overlook	7/5/03, 3:38pm (H)	1	0	1	5	0	5	20%	N/A	20%
	7/26/03 12:45pm (WE)	1	0	1				20%	N/A	20%
	8/5/03,2:24pm (WD)	2	0	2				40%	N/A	40%
	8/27/03, 2:00pm (WD)	1	0	1				20%	N/A	20%
Gerle Creek										
Angel Cr. DU Area ²	7/5/02, 9:00am (H)	1	0	1	12	0	12	8%	N/A	8%
	7/5/03, 1:04pm, (H)	9	0	9				75%	N/A	75%
	8/30/03, 12:09pm (H)	7	0	7				58%	N/A	58%
	7/26/03, 1:45pm (WE)	2	0	2				17%	N/A	17%
	8/9/03,12:20pm (WE)	7	0	7				58%	N/A	58%
	8/5/03, 11:39 (WD)	2	0	2				17%	N/A	17%
	8/27/03, 11:47am (WD)	0	0	0				0%	N/A	0%
Gerle Cr. DU Area	7/5/02, 10:30am (H)	4	0	4	18	0	18	22%	N/A	22%
	7/5/03, 12:55pm (H)	9	0	9				50%	N/A	50%
	8/30/03, 1:00pm (H)	9	0	9				50%	N/A	50%
	7/26/03, 1:30 (WE)	16	0	16				89%	N/A	89%
	8/9/03,12:08pm (WE)	14	0	14				78%	N/A	78%
	8/5/03, 11:39 (WD)	2	0	2				11%	N/A	11%
	8/27/03, 11:37am (WD)	1	0	1				6%	N/A	6%
Gerle Cr. TH	7/5/03, 12:50pm (H)	10	0	10	15	0	15	67%	N/A	67%
	8/30/03, 12:53pm (H)	0	0	0				0%	N/A	0%
	7/26/03 1:28pm (WE)	2	0	2				13%	N/A	13%
	8/9/03, 12:02pm (WE)	4	0	4				27%	N/A	27%
	8/5/03,11:26am (WD)	0	0	0				0%	N/A	0%
	8/27/03, 11:33am (WD)	0	0	0				0%	N/A	0%

Table 4.7-2. Observations for parking areas at boat launches, day-use areas and trailheads-Crystal Basin 2002 and 2003.										
Location (BL=Boat Launch DU=Day Use TH=Trailhead)	Date/Time/Day of week (H=holiday, WE=weekend, WD=weekday)	No. of Spaces Occupied ¹			Capacity of the Site ¹			% Occupancy (No. Sites Occupied/Site Capacity)		
		Single vehicle or trailer	Vehicle with trailer	Total No. Sites Occupied	Single vehicle	Vehicle with trailer	Total capacity	Single vehicle or trailer	Vehicle with trailer	Total
Loon Lake										
Loon Lake TH	7/5/03, 12:20pm (H)	41	0	41	40	0	40	103%	N/A	103%
	8/30/03, 1:25pm (H)	9	0	9				23%	N/A	23%
	7/26/03, 1:50pm (WE)	21	0	21				53%	N/A	53%
	8/9/03 12:35am (WE)	38	0	38				95%	N/A	95%
	8/5/03, 11:52am (WD)	9	1	10				23%	N/A	25%
	8/27/03, 12:07pm (WD)	2	0	2				5%	N/A	5%
Loon Lake BL	5/25/02, 3:30pm (H)	11	7	18	13	40	53	85%	18%	34%
	7/5/03, 12:26pm (H)	35	19	54				269%	48%	102%
	8/30/03, 1:34pm (H)	36	10	46				277%	25%	87%
	8/10/02, 2:10pm (WE)	18	14	32				138%	35%	60%
	7/26/03, 1:51pm (WE)	48	11	59				369%	28%	111%
	8/9/03, 12:40pm (WE)	35	15	50				269%	38%	94%
	8/5/03, 11:55am (WD)	4	3	7				31%	8%	13%
	8/27/03, 12:21 pm (WD)	3	4	7				23%	10%	13%

¹Includes the sites that are designated as accessible parking spaces.

²Parking area does not have striped parking spaces. Capacity is estimated.

³Parking lot was reconstructed between 2002 and 2003 observations. The capacity is based on the reconstructed design.

N/A=Not Applicable

4.7.3 Recreation in Developed Facilities (ENF 1999-2002 USFS RIM Fee and Non-Fee Campgrounds, Boat Launches and Day Use Facilities)

The estimated number of visitors, number of sites occupied and turn-away days (campgrounds only) are displayed in tables in Appendix I. A turn-away day is counted when a visitor arrives at the facility but cannot find a site due to full capacity. However, the information provided by the ENF as turn-away information is actually site occupancy data which indicates the number of days when the facilities are filled to capacity; there is no documentation that visitors were actually turned away when a campground was at capacity. It should be noted that there are some years where no data is provided for some of the campgrounds. Additionally, in analyzing this data, several errors were noted between the daily record sheets and the summary sheets prepared by the ENF. It also appears that there was inconsistent data collection related to sites closed for maintenance and host sites. These sites were not consistently accounted for in recording the occupancy at each campground. Groups sites showed higher turnaway because either a site is occupied or not so occupancy is either 0 or 100 percent. Tables in Appendix I also include information tabulated using site occupancy data from: 1) the concessionaire that operates the UARP facilities in the Crystal Basin; 2) visitor use information from the ENF for UARP facilities that the ENF operates under the Fee Demonstration Project; and 3) the visitor use information from the ENF for UARP facilities that the ENF operates and does not charge a user fee. The period of time includes the months of May through October from 1999 to 2002. In addition to the above information, turn-away data was further tabulated by weekday, weekend and holidays so that an understanding of when visitors were being turn-away could be determined. The detailed display of turn-away data is also located in Appendix I. Typically the most frequent times when facilities were at capacity occurred on holidays. Some of the campgrounds occasionally filled to capacity on non-holiday weekends and on a few occasions there were some weekdays when campgrounds were at capacity. It should be noted that this assessment is provided as a general characterization of demand at developed campgrounds however it is based on incomplete and irregular data. In order to properly assess if visitors are being turned away, additional data collection would be advisable under consistent data collection standards.

The ENF RIM data had several gaps in the occupancy data that was provided to SMUD. Recognizing that these data gaps could underestimate use, therefore SMUD developed an estimate of use by making some assumptions and incorporating use information from the FERC Form 80. This use estimate and the underlying assumptions are provided in Table 4.7-3a/b below.

Table 4.7-3a. UARP recreation facility use estimates in Recreation-Days May-Sept. (1999 – 2002).						
	Type¹	1999	2000	2001	2002	Average
CAMPGROUNDS²		(R-D)	(R-D)	(R-D)	(R-D)	(R-D)
Ice House Reservoir						
Ice House	C	21,328	28,235	25,492	27,027	26,918
Northwind	FD	2,790	2,623		2,674	2,696

Table 4.7-3a. UARP recreation facility use estimates in Recreation-Days May-Sept. (1999 – 2002).						
	Type¹	1999	2000	2001	2002	Average
CAMPGROUNDS²						
		(R-D)	(R-D)	(R-D)	(R-D)	(R-D)
Strawberry Point	FD	2,607	2,659		3,201	2,822
Total for Ice House Reservoir						32,436
Union Valley Reservoir						
Azalea Cove	F	n/a	109		1,690	900
Big Silver Group	FD	n/a	881		1,375	1,128
Camino Cove	F	n/a	6,961		8,704	7,833
Fashoda	C	4,049	3,564	3609	n/a	3,741
Jones Fork	FD	2,629	2,696		2,694	2,673
Lone Rock	F	n/a	123		775	449
Sunset	C	26,552	29,524	29,962	29,629	28,917
Wench Creek Family	C	16,622	15,143		13500	15,088
Wench Creek Group 1 & 2	C	5,895	4,785		5,425	5,368
Westpoint	F	1,989	2,051		2,272	2,104
Wolf Creek	C	7,910	3,976		6,849	6,245
Yellow Jacket	C	8,866	7,828		6,190	7,628
Total for Union Valley Reservoir						82,074
Loon Lake Reservoir						
Loon Lake Family	C	8,607	13,256	9,248	11,761	10,718
Loon Lake Equestrian Family	C	725	69	491	2,515	1,244
Loon Lake Group 1 & 2	C	2,123	1,648		5,015	2,929
Loon Lake Equestrian Group	C	671	803		680	718
Northshore	FD	1,757	1,689		2,731	2,059
Pleasant	F					500 ⁴
Red Fir Group	FD		513		1385	949
Loon Lake Chalet	FFS				3,000	3,000
Total for Loon Lake Reservoir						22,116
Gerle Reservoir						
Airport Flat	F	2709	2202			2,456
Gerle Creek	C	10177	8757	8767	11057	9,690
Total for Gerle Creek Reservoir						12,146
TOTAL ANNUAL CAMPGROUND USE ESTIMATE						148,772

Table 4.7-3b. UARP recreation facility use estimates in recreation days May-Sept. (1999 – 2002)								
BOAT LAUNCHES³	Type	1999	2000	2001	2002	Average	Estimated Range*	
Ice House (I)	C	19,898	10,479		12,458	14,278	14,278	21,417
Yellow Jacket (U)	C	4,396	3,878		4,036	4,103	4,103	6,155
Sunset (U)	C	8,810	3,675		11,712	10,261	10,261	15,392
Westpoint (U)	F	4,211	2,478		4,938	3,876	3,876	5,814
Loon Lake (L)	C	3,805	7,074		8,176	8,176	8,176	12,264
TOTAL ANNUAL BOAT LAUNCH USE ESTIMATE						40,694	40,694	61,041
DAY USE AREAS/TRAILHEADS	Type	1999	2000	2001	2002	Average	Estimated Range*	
Fashoda (U)	C	1,021	1,176		1,691	1,296	1,296	1,944
Ice House (I)	C	3,686	1,543		4,875	4,875	4,875	7,313
Angel Creek (G)	F	854	295		n/a	575	575	862
Gerle Creek (G)	C	3,144	3,069		5,223	4,184	4,184	6,275
Loon Lake Picnic (L)	C	934	1,490		1,450	1,291	1,291	1,937
Loon Lake Wilderness Trailhead ³ (L)	--	6,111	4,914		3,017	4,681	4,681	7,021
TOTAL ANNUAL DAY USE ESTIMATE						16,902	16,902	25,353

Source: Forest Service use data sheets unless otherwise noted.

¹ C=Concessionaire; FD=Fee Demo; FFS=Fee to FS; F=Free

² Includes use counts for boat launch site camping.

³ Boat launch day use AND Loon Lake Wilderness Trailhead use were recorded in vehicles. Thus, these estimates incorporate a persons-per-vehicle multiplier of 3.5 (as provided by the Forest Service) to convert to Recreation Days.

⁴ This use number uses professional judgment because no use data was provided for any of the 4 years.

Blank/empty cells indicate the Forest Service did not provide any data for the facility for the entire year.

An bold non-total number indicates the Forest Service provided only partial data for the facility for the year.

A non-total italicized number indicates this use estimate was obtained from the estimates used for the FERC Form 80 for 2002, developed by Mr. Bob Logan; these estimates are used (1) where the Forest Service did not provide any data for the facility, or (2) when the Form 80 estimate is substantially greater than the estimate derived from the Forest Service data sheets.

n/a = Facility was not yet constructed and/or open for use that year.

Average column does not include partial data years unless that use estimate represents the largest use estimate of the set.

[†] Recreation Day is defined as a visit by a person during any portion of a 24-hour period.

*Estimated ranges were calculated by utilizing a 1.0-1.5 index multiplied by the average for boat launches and picnic sites (As provided by the ENF).

4.7.4 Other Recreational Use Information

4.7.4.1 ENF 1995-1996 “Shoulder Season” Use Estimates for Developed Facilities

Shoulder season data was submitted by the ENF (see Appendix J). This data was collected over a two-year period during the weeks and months outside of the typically busy which generally between Memorial Day and Labor Day. As noted in Appendix J there are periods of time where counts were not conducted. Therefore visitor use was estimated based on average use estimates. The average number of visitors or Recreation-Days for the shoulder season **October 1 1995-Memorial Day 1996; Labor Day 1996-Sept 30 1996 (Est. 270 Days) and October 1 1996-Memorial Day 1997; Labor Day 1997-Sept 30 1997** was estimated at 24,023 Recreation-Days at developed campsites.

4.7.4.2 ENF Huts Reservation Data 2003-2004

The ENF submitted results of reservations for January 1 2003-January 1 2004, and January 2 thru September 2004. This data documents visitor use for Robbs Hut, Loon Lake Chalet, and Van Vlecks Bunkhouse. Once annual reservations were compiled, the average for each season was estimated. A summary of the total data set is located in Appendix H. A summary of results is displayed in Table 4.7-4 below.

Table 4.7-4. ENF Hut visitor use summary. (Source: ENF, September 2004)			
LOON LAKE CHALET			
Total Actual Recreation-Days: January 01, 2003-January 01, 2004	2,781		
Total Actual Recreation-Days: January 02, 2004-September 2004 ¹	891		
Averages for Total Seasons Represented 2003-04	Average # Persons	# Days	RD
Winter Summary Average	25	59	1475
Spring/Summer Average	32	47	1504
Fall Average	34	13	442
Total Annual Recreation-Days Estimated Average-Loon Lake Chalet			3,421
ROBB’S HUT			
Total Actual Recreation Days: January 01, 2003-January 01, 2004	891		
Total Actual Recreation Days: January 02, 2004-September 2004 ¹	650		
Averages for Total Seasons Represented 2003-04	Average # Persons	# Days	RD
Winter Summary Average	9	40	360
Spring/Summer Average	9	47	423
Fall Average	8	18	144
Total Annual Recreation-Days Estimated Average-Robb’s Hut			927

Table 4.7-4. ENF Hut visitor use summary. (Source: ENF, September 2004)			
VAN VLECK HUT			
Total Actual Recreation Days: January 01, 2003-January 01, 2004			685
Total Actual Recreation Days: January 02, 2004-September 2004 ¹			583
Averages for Total Seasons Represented 2003-04	Average # Persons	# Days	RD
Winter Summary Average	10	10	100
Spring/Summer Average	14	43	602
Fall Average	12	10	120
Total Annual Recreation Days Estimated Average-Van Vleck Hut			822

NOTE: For all Huts data, the annual season splits were based on the following seasons:

Spring and Summer - April 1 through September 30, 2002

Fall - October 1 through November 30, 2002

Winter - December 1, 2002, through March 31, 2003

¹Data was available to mid-September 2004 only.

4.7.4.3 Organization Camps Permitted by the ENF (Mountain Camp, Deer Camp), and SMUDEA

The ENF authorizes two private camps to operate within one-quarter mile of UARP reservoirs. Mountain Camp is located on the north side of Ice House Reservoir and it has a capacity of 100 PAOT. Deer Camp is located on the east side of Loon Lake Reservoir and it has a capacity of 50 PAOT's. Both of these developments are youth camps that operate between June and August. An additional recreation facility, SMUDEA, is a 43-site campground located at Union Valley that is operated by SMUD's employee association. The total use estimate for 2003 was as follows:

Deer Camp:	2,100 Recreation-Days
Mountain Camp:	4,000 Recreation-Days
SMUDEA	7,500 Recreation-Days
Total Estimate:	13,500 Recreation-Days (w/rounding)

4.7.4.4 Reservoir Recreational Use

Hydropower licensees are required to report recreational use at their Projects to the FERC every six years. The most recent filing of this information for the UARP was in 2003. The recreational use data to prepare this filing with the FERC was developed using data from the 2002 recreation season that was summarized on the Licensed Hydropower Development Recreation Report Form, which is also known as Form 80. This form was filed with and accepted by the FERC on April 1, 2003. The information on the 2003 FERC Form 80 is another source of information that documents the levels and patterns of recreational use occurring at the UARP. Table 4.7-5 below summarizes this information for the main UARP reservoirs.

Table 4.7-5. FERC 2003: Recreational Use Estimates for UARP Reservoirs in the Crystal Basin				
	Ice House	Union Valley	Gerle Creek	Loon Lake
Number of Recreation-Days¹:				
Daytime Annual Total	17,333	20,989	2,905	13,346
Daytime Peak Weekend Average ²	794	1,257	113	524
Nighttime Annual Total	43,234	79,826	11,057	26,330
Nighttime Peak Weekend Average ²	1,178	3,744	558	928
Facility Capacity Percent³				
Access Areas ⁴	50%	50%	50%	50%
Boat Ramps	30%	30%	N/A	20%
Boat Launching Lanes	30%	30%	N/A	20%
Fishing Piers	N/A	N/A	25%	N/A
Trails	N/A	20%	N/A	25%
Swimming Areas	N/A	30%	N/A	N/A
Picnic Areas	30%	30%	35%	25%
Camping Areas	65%	50%	50%	75%
Organization Camps	50%	40%	N/A	100%
Group Camps	50%	50%	N/A	N/A

¹Recreation-Day is each visit by a person to a development for recreational purposes during any portion of a 24-hour period.

²Weekends when recreational use is at its peak for the season (July 4th weekend and other holiday weekends).

³Amount of weekend use for this season reported compared with the facility's capacity to handle such use.

⁴Unimproved but well-known/popular sites which can be used to reach development waters (including waters below a dam) without trespassing on other property.

4.7.4.5 Reservoir Surface Counts by SMUD 2002-03

The UARP provides boating opportunities on seven of its reservoirs. As part of this study, the number of watercraft and the type of boating activities occurring on the reservoirs were recorded at the three primary storage reservoirs (Ice House, Union Valley and Loon Lake). All three of these reservoirs are located in the Crystal Basin. The weather on survey dates was typical for the summer season with pleasant temperatures and no precipitation. The reservoir elevations were at levels that visitors would normally expect during the course of the summer during a normal type of water year.

Boating use information was not collected at the four other UARP reservoirs because of their remote locations, small sizes and low use. At Gerle Creek Reservoir, there is minimal concern for safety issues related to boat density on the reservoir surface since motorized boating is not allowed at this reservoir. Consequently, information relating to boat density was not collected at this reservoir. The information collected during the summers of 2002 and 2003 is presented in Table 4.7-6.

Table 4.7-6. Boating activity observations: Ice House, Union Valley and Loon Lake reservoirs, Summers of 2002 and 2003.							
Observation Date/Time	WD=Weekday WE=Weekend H=Holiday	Point of Observation¹	No. of Active Powerboats	No. of Active Small Fishing Boats	No. of Active Personal Watercraft	No. of Active Non-motorized Watercraft	Total No. of Active Watercraft on Reservoir
Ice House							
7/4/02, 10:00am	H (Thursday)	IHBL	4	0	0	13	17
7/4/02, 1:35pm	H (Thursday)	IHBL	7	0	2	4	13
7/4/02, 2:45pm	H (Thursday)	IHBL	13	0	0	12	25
8/30/03, 10:52am	H (Saturday)	Reservoir Surface	6	8	0	1	15
8/10/02, 4:45pm	WE (Saturday)	Reservoir Surface	5	3	3	6	17
7/26/03, 12:18pm	WE (Saturday)	IHBL	7	2	1	2	12
8/9/03, 11:15am	WE (Saturday)	Reservoir Surface	6	7	3	0	16
8/5/03, 2:00pm	WD (Tuesday)	IHBL	1	1	0	2	4
8/27/03, 1:52pm	WD (Thursday)	IHBL	1	2	1	0	4
Union Valley							
8/30/03, 11:45am	H (Saturday)	Reservoir Surface	28	8	12	9	57
8/10/02, 2:50pm	WE (Saturday)	Reservoir Surface	17	4	10	13	44
7/26/03, noon	WE (Saturday)	Big Hill	24	6	5	5	40
8/9/03, 1:55pm	WE (Saturday)	Reservoir Surface	49	14	14	26	103
8/5/03, 2:30pm	WD (Tuesday)	Big Hill	10	1	1	0	12
8/27/03, 2:00pm	WD (Thursday)	Big Hill	2	1	0	0	3
Loon Lake							
8/30/03, 2:00pm	H (Saturday)	Reservoir Surface	1	4	1	8	14
8/10/02, 11:30am	WE (Saturday)	Reservoir Surface	1	7	1	14	23
7/26/03, 2:10pm	WE (Saturday)	Main Dam	1	8	1	12	22
8/9/03, 12:32pm	WE (Saturday)	Reservoir Surface	9	9	1	9	28
8/5/03, noon	WD (Tuesday)	Main Dam	1	2	0	9	12
8/27/03, 12:08pm	WD (Thursday)	Main Dam	1	3	0	3	7

¹IHBL=Ice House Boat Launch, Big Hill=Big Hill Overlook, Main Dam=Main Dam at Loon Lake, Reservoir Surface=Observations taken by boat

The observer recorded the types of watercraft observed and estimated the percentage of the watercraft that were near the shoreline floating, with visitors picnicking or otherwise taking a break from boating. At Ice House Reservoir, the percentage of active watercraft along the shoreline varied from 0 to 30 percent. At Union Valley and Loon Lake reservoirs, the percentage of active watercraft along the shoreline varied from 20 to 30 percent and 5 to 20 percent, respectively. Even though these watercraft were not moving on the reservoir surface during the observation, they were counted as active watercraft so that the level of boating use on the reservoir would not be under estimated. It should be noted that this investigation was intended to assess boat density as it relates to boating safety.

Based on the highest number of watercraft observed during the study, the boat densities for the three reservoirs with motorized boating are presented in Table 4.7-7 below. On each reservoir, the highest number of watercraft observed were derived from reservoir-based observations.

Table 4.7-7. Average number of acres per vessel on the Ice House, Union Valley and Loon Lake reservoirs based on the highest number of watercraft observed during the study observations.			
Reservoir	Reservoir surface acres¹	Highest no. of watercraft observed	Average no. of acres per vessel
Ice House	678	25	27.1
Union Valley	2,860	103	27.7
Loon Lake	1,450	28	51.8

¹UARP Initial Information Package, July 2001. Values are at maximum pool elevation.

Boating estimates were also calculated based on the type of watercraft utilized. Table 4.7-8 below breaks out visitor by type of boating use and calculates estimated averages based on peak Summer 2002-2003 boating counts.

Table 4.7-8. Boating use estimates by type of craft on Ice House, Union Valley and Loon Lake Reservoirs.						
Ice House						
Power Boats	Range of Boats		Range of Visitors (3 Per Boat)		Annual Range Estimate	
Holiday	4	13	12	39	132	429
Weekday	1	1	3	3	261	261
Weekend	5	7	15	21	570	798
Active Small Fishing Boats	Range of Boats		Range of Visitors (3 Per Boat)		Annual Range Estimate	
Holiday	0	8	0	24	0	264
Weekday	1	2	3	6	261	522
Weekend	2	7	6	21	228	798
Personal Water Craft	Range of Boats		Range of Visitors (1 per PWC)		Annual Range Estimate	
Holiday	0	2	0	2	0	22
Weekday	0	1	0	1	0	87
Weekend	1	3	1	3	38	114

Table 4.7-8. Boating use estimates by type of craft on Ice House, Union Valley and Loon Lake Reservoirs.						
Ice House						
Non-motorized Water Craft	Range of Boats		Range of Visitors (1.5 per Boat)		Annual Range Estimate	
Holiday	1	13	1.5	19.5	16.5	214.5
Weekday	1	13	1.5	19.5	130.5	1696.5
Weekend	0	6	0	9	0	342
Union Valley						
Power Boats	Range of Boats		Range of Visitors (3.5 Per Boat)		Annual Range Estimate	
Holiday	28	28	98	98	1078	1078
Weekday	2	10	7	35	609	3045
Weekend	17	49	59.5	171.5	2261	6517
Active Small Fishing Boats	Range of Boats		Range of Visitors (3.5 Per Boat)		Annual Range Estimate	
Holiday	8	8	28	28	308	308
Weekday	1	1	3.5	3.5	304.5	304.5
Weekend	4	14	14	49	532	1862
Personal Water Craft	Range of Boats		Range of Visitors (1 per PWC)		Annual Range Estimate	
Holiday	12	12	12	12	132	132
Weekday	0	1	0	1	0	87
Weekend	5	14	5	14	190	532
Non-motorized Water Craft	Range of Boats		Range of Visitors (1.5 per Boat)		Annual Range Estimate	
Holiday	9	9	13.5	13.5	148.5	148.5
Weekday	0	0	0	0	0	0
Weekend	5	26	7.5	39	285	1482
Loon Lake						
Power Boats	Range of Boats		Range of Visitors (2.3 Per Boat)		Annual Range Estimate	
Holiday	1	1	2.3	2.3	25.3	25.3
Weekday	1	1	2.3	2.3	200.1	200.1
Weekend	1	9	2.3	20.7	87.4	786.6
Active Small Fishing Boats	Range of Boats		Range of Visitors (2.3 Per Boat)		Annual Range Estimate	
Holiday	4	4	9.2	9.2	101.2	101.2
Weekday	2	3	4.6	6.9	400.2	600.3
Weekend	7	9	16.1	20.7	611.8	786.6
Personal Water Craft	Range of Boats		Range of Visitors (1 per PWC)		Annual Range Estimate	
Holiday	1	1	1	1	11	11
Weekday	0	0	0	0	0	0
Weekend	1	1	1	1	38	38

Table 4.7-8. Boating use estimates by type of craft on Ice House, Union Valley and Loon Lake Reservoirs.						
Loon Lake						
Non-motorized Water Craft	Range of Boats		Range of Visitors (1.5 per Boat)		Annual Range Estimate	
Holiday	8	8	12	12	132	132
Weekday	3	9	4.5	13.5	391.5	1174.5
Weekend	9	14	13.5	21	513	798
Reservoir Visitor Use Estimates Range					9,997	25,698

Total population summer use estimate is based on 50% use for May and September, 100% use June-August.

Loon Lake per person estimates for motorized boats=2.3 persons per boat.

Union Reservoir per person estimates for motorized boats=3.5 persons per boat.

Ice House per person estimates for motorized boats=3 persons per boat.

For all Reservoirs: Personal Water Craft=1 per boat for all boats; Non-Motorized Boats=1.5

Season Estimates are based off of May 15-September 15, with 11 holiday days, 87 non-holiday weekdays, and 28 non-holiday weekend days

4.7.4.6 Dispersed Recreation Areas

Dispersed recreation occurs at the UARP reservoirs in the form of overnight use, fishing, picnicking, swimming, and other day use activities. Although most of the dispersed recreation occurs in the Crystal Basin, the reservoirs in the High Country and the Canyonlands also provide settings for dispersed recreational use. The following sections include the results of this study relative to dispersed recreational use including estimated recreational use, visitor survey responses, key contact interviews and areas where resource damage was observed in the vicinity of dispersed recreation areas.

The dispersed recreation use that occurred generally within one-quarter of a mile of UARP reservoirs in 2002 was estimated by SMUD's observation data and the average party size determined from the visitor surveys conducted at areas with dispersed recreation use. These estimates are included in Table 4.7-9 below. Similar to the use estimates for the UARP recreation facilities, there are limitations associated with these estimates. The main limitation is that these data were only collected in one year, 2002-03. In addition, the data used to prepare this estimate only included the land at and near the four main reservoir shorelines. Based on further investigation by SMUD in 2004, there may be other areas where dispersed recreation use is occurring that is related to the UARP. When these areas are identified, the use estimates should reflect the use that is also occurring in these areas. The estimates were based on observed number of parties at areas around the reservoirs. The estimates were then developed by applying an average party size that was calculated from the responses to the surveys conducted in 2002-03 to the number of parties observed. A more rigorous investigation can be devised to develop more accurate estimates that include all of the areas where dispersed recreation use that is related to the UARP to develop more accurate use estimates. Despite these shortcomings, existing and projected recreation use estimates are provided in this report because they represent the most recent existing use data available at this time and it is reasonable to use this information for the purpose of providing an estimate of recreation use for the license application with the

understanding of the limitations for using this information to make decisions about potential PME's for the UARP.

Table 4.7-9. Estimated dispersed recreation use near[†] UARP reservoirs from spring 2002 through winter 2003. (SOURCE: Results of the Visitor Use and Impact Study)

Reservoir/Area	Season	Day Use (R-D ¹)	Overnight Use (R-D)	Total (R-D)
Junction Reservoir	Sp, Sum, F, W	1,204	918	2,122
Ice House Reservoir	Sp, Sum, F	2,329	0	2,329
Union Valley Reservoir	Sp, Sum, F	2,760	2,226	4,986
Gerle Creek Reservoir	Sp, Sum, F	377	2,416	2,793
Loon Lake Reservoir	Sp, Sum, F	1,648	15,217	16,865
Crystal Basin	W	11,403	2,908	14,311
Canyonlands	Sp, Sum, F, W	6,036	1,234	7,271
Total				50,677

[†] Generally within ¼ mile of the reservoir shoreline

¹ Recreation Day=one person for a day or a portion of a day.

4.7.4.7 ENF Shoreline Dispersed Use for Primary UARP Reservoirs (Loon Lake, Gerle Creek Reservoir, Union Valley Reservoir, and Ice House Reservoir)

The results of the ENF Shoreline Dispersed Use data collection are provided in Table 4.7-10 below. These visitor counts along shorelines were collected between July 04 and September 15, 2002 based on a stratified random sample. Samples were stratified by weekend, holiday weekend, and weekday. Counts were conducted during peak periods between 11 AM-3PM, from the water, with the exception of Gerle Creek, which was counted on from land. Counts for each reservoir were conducted 10-12 times during this period (personal communication with J. Marsolais, September 2004).

Table 4.7-10. ENF shoreline dispersed use estimates, July 4- Sept. 15, 2002. (Source: ENF)

	Weekday	Weekend
Number of Days	68	24
Number of sites	4	4
Population Size	272	96
Sample Size	4	11
Total Observed	272	1588
Variance (s ²)	809	6266
Estimated Users	18,496	13859
Standard Error	3,753	2156
80% CI	(12,341, 24,651)	(10,905, 16,813)
90% CI	(9,676, 27,316)	(9,957, 17,761)
95% CI	(6,561, 30,431)	(9,051, 18,667)
Total Estimated Users		
80% CI	(23246, 41,464)	
90% CI	(19,633, 45,077)	
95% CI	(15,612, 49,098)	

4.7.4.8 Canyonlands

The number of windshield surveys administered in the Canyonlands area is shown in Table 4.7-11. Of the 75 windshield surveys administered in the Canyonlands area, 36 were completed and returned – a response rate of 48 percent.

	7/7	7/13	7/28	8/9	8/23	9/2	Total
	Sun.	Sat.	Sun.	Fri.	Fri.	Mon.	
Silver Creek at Jaybird PH Area	1	0	0	0	0	0	1
Forebay Road at SFAR Area	6	5	10	0	0	2	23
Brush Creek Reservoir Area	4	0	5	0	0	2	11
FS Road 11N96 at Slab Creek Dam	1	1	1	1	0	2	6
FS Road 11N96 at Slab Boat Launch	5	3	6	2	1	8	25
Mosquito Road at SFAR Area	0	4	2	0	0	3	9
Total	17	13	24	3	1	17	75

Table 4.7-12 displays results from Canyonlands observations taken during SMUD’s study. The estimated use levels were derived based on low to high observations at each location. These low to high observations were then multiplied by the number of weekend days (76) and weekdays (168) during the spring, summer, and fall seasons, or peak use periods.

Table 4.7-12. Canyonlands dispersed use observations.													
Dispersed Use Locations		Month	Day of Month	Day of Week	24-Hr	#Groups	#Vehicles	#People	Total Use Estimate			Total Season	
Silver Creek	1	August	23	Friday	12.15	0	0	0	0	4	WE	0	304
	2	July	7	Sunday	13.36	1	1	0	0	0	WD	0	0
	3	July	13	Saturday	9.12	0	0	0				0	304
	4	September	2	Monday	9.13	0	0	0					
	5	July	28	Sunday	8.44	0	0	0					
	6	August	9	Friday	8.47	0	0	0					
	Total	N				1	1	0	Total Use Estimate			Total Season	
Forebay Rd	1	August	23	Friday	13.32	0	0	0	4	18	WE	304	1368
	2	July	7	Sunday	14.53	6	6	13	0	2	WD	0	180
	3	July	13	Saturday	10.24	4	4	4				304	1548
	4	September	2	Monday	10.45	3	2	2					
	5	July	28	Sunday	10.3	10	10	18					
	6	August	9	Friday	10.16	0	0	0					
	Total	N				23	22	37	Total Use Estimate			Total Season	
Brush Creek Res	1	August	23	Friday	14	0	0	0	0	9	WE	0	684
	2	July	7	Sunday	15.29	4	4	9	0	4	WD	0	672
	3	July	13	Saturday	10.57	0	0	0				0	1356
	4	September	2	Monday	11.27	2	2	4					
	5	July	28	Sunday	11.2	3	3	9					
	6	August	9	Friday	10.49	0	0	0					
	Total	N				9	9	22	Total Use Estimate			Total Season	

Table 4.7-12. Canyonlands dispersed use observations.													
Dispersed Use Locations		Month	Day of Month	Day of Week	24-Hr	#Groups	#Vehicles	#People	Total Use Estimate			Total Season	
FS Rd Slab Dam	1	August	23	Friday	15.38	0	0	0	0	2	WE	0	152
	2	July	7	Sunday	16.51	1	1	0	0	2	WD	0	336
	3	July	13	Saturday	12.58	1	1	2				0	488
	4	September	2	Monday	13.47	2	2	0					
	5	July	28	Sunday	13.08	1	1	0					
	6	August	9	Friday	12.19	1	1	2					
	Total	N				6	6	4	Total Use Estimate			Total Season	
FS Rd Boat Ramp	1	August	23	Friday	15.76	2	2	4	7	9	WE	532	684
	2	July	7	Sunday	17.12	5	5	9	2	14	WD	336	2352
	3	July	13	Saturday	13.15	3	4	7				868	3036
	4	September	2	Monday	13.15	8	8	14					
	5	July	28	Sunday	13.15	6	6	9					
	6	August	9	Friday	12.29	2	2	2					
	Total	N				26	27	45	Total Use Estimate			Total Season	
Mosquito Rd.	1	August	23	Friday	16.39	0	0	0	0	8	WE	0	608
	2	July	7	Sunday	18.05	3	3	6	0	0	WD	0	0
	3	July	13	Saturday	14.1	3	4	8				0	608
	4	September	2	Monday	14.21	3	3	0					
	5	July	28	Sunday	14.1	2	2	0					
	6	August	9	Friday	13.4	0	0	0					
	Total	N				11	12	14	Total Use Estimate			Total Season	

Table 4.7-12. Canyonlands dispersed use observations.													
Dispersed Use Locations		Month	Day of Month	Day of Week	24-Hr	#Groups	#Vehicles	#People	Total Use Estimate			Total Season	
South of Union Valley Dam	1	July	7	Sunday	11.55	0	0	0	0	4	WE	0	304
	2	August	3	Saturday	14.4	0	0	0	0	4	WD	0	672
	3	August	10	Saturday	17.41	0	0	0				0	976
	4	August	31	Saturday	14.44	1	2	4					
	5	July	18	Thursday	14.5	1	1	4					
	6	August	19	Monday	12.06	0	0	0					
	Total	N				2	3	8					Total Season
SW of Union Valley Dam	1	July	7	Sunday	11.59	0	0	0	0	0	WE	0	0
	2	August	3	Saturday	14.44	0	0	0	0	0	WD	0	0
	3	August	10	Saturday	17.4	0	0	0				0	0
	4	August	31	Saturday	14.31	0	0	0					
	5	July	18	Thursday	14.45	0	0	0					
	6	August	19	Monday	11.59	0	0	0					
	Total	N				0	0	0	Total Use Estimate				Total Season
Undeveloped Boat Launch	1	July	7	Sunday	12.15	2	2	7	0	7	WE	0	532
	2	August	3	Saturday	15.04	1	1	0	0	2	WD	0	336
	3	August	10	Saturday	17.14	1	3	5				0	868
	4	August	31	Saturday	13.17	0	0	0					
	5	July	18	Thursday	16.37	0	0	0					
	6	August	19	Monday	12.18	1	1	2					
	Total	N				5	7	14	Total Use Estimate				Total Season

Table 4.7-12. Canyonlands dispersed use observations.													
Dispersed Use Locations		Month	Day of Month	Day of Week	24-Hr	#Groups	#Vehicles	#People	Total Use Estimate			Total Season	
Bryant Springs Rd/SF Silver Creek	1	July	7	Sunday	12	1	1	5	0	5	WE	0	380
	2	August	3	Saturday	14.49	0	0	0	0	0	WD	0	0
	3	August	10	Saturday	17.42	0	0	0				0	380
	4	August	31	Saturday	13.23	1	1	3					
	5	July	18	Thursday	14.43	0	0	0					
	6	August	19	Monday	12.04	0	0	0					
	Total	N				0	2	8	Total Use Estimate			Total Season	
Below Junction Dam	1	July	7	Sunday	13	0	0	0	0	1	WE	0	76
	2	August	3	Saturday	15.19	0	0	0	0	0	WD	0	0
	3	August	10	Saturday	16.47	1	1	1				0	76
	4	August	31	Saturday	13.11	0	0	0					
	5	July	18	Thursday	16.43	0	0	0					
	6	August	19	Monday	12.28	0	0	0					
	Total	N				1	1	1	Total Season		1172	9640	

Total use estimates based on 76 Weekend (WE) days and 168 Weekdays (WD), as per dispersed use estimates for other data entries.

4.7.4.9 Rubicon OHV Trail Use

Rubicon OHV Trail: The annual Rubicon OHV Trail Use Estimates were reported by the ENF (personal communication, Jeff Marsolais, August 24, 2004) as a range 45,000 to 65,000.

4.7.4.10 Information Centers

Visitor counts were conducted at the Crystal Basin Information Station and the Cleveland Corral Information Center by the ENF. These visitor estimates are reported in Table 4.7-13 below. The data referring to the Cleveland Corral Information Center also provided a breakdown of the types of needs or interests of visitors. A high percentage of visitors stopped for general and OHV related information.

Table 4.7-13. ENF Information Center visitor use estimates 2003 (Source: ENF)						
Crystal Basin Information Station						
Month/2003	Daily Visitors					
May	no data					
June	1,433					
July	3,039					
August	2,525					
September, 9/1-9/9	282					
Season Total	7,279					
Cleveland Corral Information Station						
	Visitors-2003¹					
Season Total	8,000	Breakdown of Types of Needs/Information				
Number of Cars	26,666					
Month/2004	Actual Daily Visitors	Picnic Area	General	OHV Related	Wilderness	Phone Calls
May (5/26-5/31)	1,224	15	801	392	0	16
June	7,253	46	4,400	2,737	48	22
July	3,681	32	2,354	1,262	22	11
August	5,110	24	3,437	1,600	27	22
September, no data available to date.						
Season Total	17,268	117	10,992	5,991	97	71
Combined Total Visitation to Information Centers				24,547		

¹Estimate based on ENF cuff notes

4.8 Annual Recreation Visitor Use Estimate At and Near the UARP

SMUD in collaboration with the ENF, calculated an annual estimated recreation visitor use range and total for areas at and near the UARP. The annual use calculated range was estimated as between 335,000 and 380,000 recreation days, with the mid-range at 357,500 visitors. The calculations are outlined in Table 4.8-1, and based on estimates from several inputs. These inputs include the following components of recreational use:

- UARP Developed facilities (campgrounds, boat ramps and parking areas, and picnic sites);
- ENF shoulder season use estimates for campgrounds (1995 and 1996);
- SMUD dispersed use estimate (Crystal Basin Reservoirs);
- SMUD winter use estimate (dispersed and developed sites including huts and campgrounds);
- ENF Shoreline use estimates (2002);
- Canyonlands Reservoir Use Estimate (including Junction Reservoir); and,
- Rubicon Trail estimates: according to Steve Peterson (2004), the estimated use on the Rubicon Trail is between 45,000 to 65,000 annually. Based on preliminary results of the Zone 3 study, it was estimated that approximately half of Rubicon Trail use is by thru OHV users, the rest remain in the Crystal Basin or High Country areas. To calculate use on the Rubicon Trail for the purposes of an annual total, the following assumptions were created through discussions between SMUD and the ENF (September 14, 2004):
 - a. The estimated total use for the Rubicon Trail is somewhere between 45,000-65,000 annually;
 - b. Approximately half of these users are estimated to be “thru trail” users;
 - c. Approximately half are using facilities within the High Country and Crystal Basin regions; therefore have most likely been accounted for within the facility and dispersed use counts from items listed above;
 - d. Approximately 10% of those traveling through the High Country and Crystal Basin areas could have been counted when starting their journey or stopping to use day-use facilities; and,
 - e. The midpoint between 45,000-65,000 would be used to calculate through trail users and area trail users.

Based on these assumptions, thru-trail users of the Rubicon OHV Trail were estimated based on the following calculation: 55,000 (midpoint)-5,500(10 percent) / 50 percent (thru users) = 24,750.

Table 4.8-1. Estimates for annual recreational use at and near the UARP. (Source: multiple sources, see above text)		
Components of Recreational Use	Low Range Estimate	High End Estimate
UARP Developed Facilities	206,368	235,166
Average shoulder season use for developed campgrounds	24,023	24,023
Dispersed use estimate	30,000	40,000
Winter use estimate	16,950	16,950
ENF 2002 Shoreline use estimate	32,555	32,555
Rubicon OHV Trail Use not counted within previous developed and dispersed use estimates	24,750	24,750
Canyonlands use estimate (includes Junction)	2,700	5,600
Total Estimated Annual Visitor Use At And Near UARP	337,347	379,044
Total Estimated Annual Visitor Use At and Near UARP (w/rounding)	335,000	380,000
Mid-range Total	357,500	

4.9 Recreational Activity Participation for the Crystal Basin

4.9.1 Crystal Basin-Summer

SMUD conducted several hundred surveys with Crystal Basin visitors at UARP recreation facilities and at dispersed recreation areas at and near the UARP reservoirs in the summer of 2002. The data collected in the surveys provide information about the recreation activities that the current visitors enjoy as well as indications of latent demand. Question no. 8 asked visitors to, "...select the recreational activities you have participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping." The responses to this question are shown in Tables 4.9-1 and 4.9-2 below. The four activities with the most frequent response at both the developed recreation facilities and the dispersed recreation areas in the Crystal Basin were: 1) swimming, 2) hiking/walking, 3) fishing (lake or reservoir), and 4) picnicking. The fifth most frequent responses were wildlife viewing and photography at the developed recreation facilities and the dispersed recreation areas, respectively. The frequency of the response for OHV use was higher in the dispersed visitor survey responses than in the developed recreation facilities.

The respondents were also given the opportunity to list other activities that they participated or planned to participate in that did not appear on the list of activities that they were given to respond to this question. The responses collected at the developed recreation facilities included: archery, botanizing, camping, church camp, scouting water levels at the lakes, disabled Sports USA, driving, eating and drinking at Robb's Valley Resort, experiments, geocaching, gold panning, horseback riding, paddle boating, painting, rafting, relaxing, scouting the area, scuba diving, shooting, star gazing, staying away from people, stop-over, sunbathing, and playing. The responses collected at the dispersed recreation areas that did not appear on the list of activities included: beer, gold panning, looking at vegetation, paintball shooting, and target shooting.

Table 4.9-1. All recreation activities of Crystal Basin visitors during the summer. (Developed and Dispersed Data Sets)							
<i>Survey Question: 'From the activities listed below, please select the recreational activities you participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping.'</i>							
Activity	Percent of Visitors- Developed Facilities in the Crystal Basin					Percent of Visitors- Dispersed Areas in the Crystal Basin	
	Total ¹	Loon Lake Res. ²	Gerle Cr. Res. ²	Union Valley Res. ²	Ice House Res. ²	All ³ 4 Reservoirs	Loon Lake TH ⁴
Swimming	66.7	57.6	73.1	76.6	58.7	77.9	84.0
Hiking /Walking	60.1	58.7	68.6	65.5	50.3	55.9	92.0
Fishing (Lake or Reservoir)	56.8	54.9	36.0	61.4	55.7	64.7	40.0
Picnicking	51.7	54.9	50.3	50.9	49.7	51.5	20.0
Wildlife viewing	44.2	45.1	54.3	42.1	44.3	41.2	40.0
Photography	32.7	34.8	33.1	32.7	29.9	42.6	52.0
Powerboating	28.3	18.5	2.9	39.8	25.7	23.5	0
Bicycling	17.5	15.8	13.7	19.3	17.4	16.2	4.0

Table 4.9-1. All recreation activities of Crystal Basin visitors during the summer. (Developed and Dispersed Data Sets)

Survey Question: 'From the activities listed below, please select the recreational activities you participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping.'

Activity	Percent of Visitors- Developed Facilities in the Crystal Basin					Percent of Visitors- Dispersed Areas in the Crystal Basin	
	Total ¹	Loon Lake Res. ²	Gerle Cr. Res. ²	Union Valley Res. ²	Ice House Res. ²	All ³ 4 Reservoirs	Loon Lake TH ⁴
Canoeing/Kayaking	16.5	19.6	20.6	15.2	14.4	7.4	4.0
OHV Use	8.4	8.7	16.0	7.6	7.8	38.2	4.0
Fishing (Stream or River)	7.8	2.2	16.0	7.0	13.8	10.3	24.0
PWC Use	6.3	0	0	8.8	10.8	2.9	0
Backpacking	6.3	7.1	10.3	6.4	4.2	4.4	72.0
Visiting Cultural/Hist. Sites	5.5	6.0	6.9	5.8	4.2	10.3	0
Sailboating	3.4	3.8	0	4.1	2.4	2.9	0
Hunting	1.4	2.2	1.7	0.6	1.8	1.5	0

¹ Weighted data set (n=698), *Visitor Use and Impact Technical Report*

² Unweighted data set (n(LL)=184; n(GC)=175; n(UV)=171; n(IH)=167), *Visitor Use and Impact Technical Report*

³ Dispersed surveys conducted face-to-face with visitors generally within ¼ mile of the reservoir shoreline (n=68), *Visitor Use and Impact Technical Report*

⁴ Dispersed surveys left on windshields at the Loon Lake Trailhead.(n=25), *Visitor Use and Impact Technical Report*

Table 4.9-2. All recreation activities of Crystal Basin visitors to developed recreation facilities during the summer, sorted by facility. (Developed Data Sets)

Survey Question: 'From the activities listed below, please select the recreational activities you participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping.'

Loon Lake Res.	% of Visitors Surveyed at Each Developed Recreation Facility ¹						
	Boat Launch	Loon Lake Chalet	Loon Lake Group CG	Loon Lake Campground	Northshore CG	Red Fir Gr. CG	Pleasant CG
	n=136	n=2	n=4	n=29	n=10	n=1	n=1
Swimming	54.4	0	75.0	72.4	70.0	100	100
Hiking /Walking	54.4	0	25.0	86.2	50.0	100	100
Fishing (Lake or Res.)	55.9	0	50.0	58.6	40.0	100	100
Picnicking	52.9	100	50.0	58.6	50.0	100	100
Wildlife viewing	40.4	100	25.0	58.6	50.0	100	100
Photography	30.1	0	50.0	37.9	70.0	100	100
Powerboating	21.3	0	0	10.3	10.0	100	0
Bicycling	13.2	0	0	20.7	40.0	100	0
Canoeing/Kayaking	18.4	0	50.0	24.1	10.0	0	0
OHV Use	4.4	0	50.0	10.3	40.0	100	0
Fishing (Stream or River)	1.5	0	0	6.9	0	0	0
PWC Use	0	0	0	0	0	0	0
Backpacking	6.6	100	0	3.4	0	0	100
Visiting Cultural/Hist. Sites	4.4	50	0	6.9	10.0	100	0
Sailboating	4.4	0	2.5	0	0	0	0
Hunting	2.2	50	0	0	0	0	0

Table 4.9-2. All recreation activities of Crystal Basin visitors to developed recreation facilities during the summer, sorted by facility. (Developed Data Sets)

Survey Question: 'From the activities listed below, please select the recreational activities you participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping.'

	% of Visitors Surveyed at Each Developed Recreation Facility ¹						
<u>Gerle Cr. Res.</u>	Gerle CG	Airport CG	Angel Cr. Day Use				
	n=103	n=43	n=29				
Swimming	78.6	53.5	82.8				
Hiking /Walking	69.9	62.8	72.4				
Fishing (Lake or Res.)	38.8	27.9	37.9				
Picnicking	52.4	46.5	48.3				
Wildlife viewing	59.2	48.8	44.8				
Photography	38.8	20.9	31.0				
Powerboating	1.9	2.3	6.9				
Bicycling	17.5	9.3	6.9				
Canoeing/Kayaking	28.2	2.3	20.7				
OHV Use	5.8	51.2	0				
Fishing (Stream or River)	14.6	25.6	6.9				
PWC Use	0	0	0				
Backpacking	15.5	2.3	3.4				
Visiting Cultural/Hist. Sites	10.7	2.3	0				
Sailboating	0	0	0				
Hunting	0	4.7	3.4				
<u>Union Valley Res.</u>	Big Silver Group CG	Camino Cove CG	Jones Fork CG	Azalea Cove/Lone Rock CG	Sunset CG	Wench Cr. CG	Wench Cr. Group CG
	n=2	n=9	n=6	n=2	n=39	n=20	n=6
Swimming	100	77.8	50.0	100	87.2	85.0	83.3
Hiking /Walking	100	88.9	83.5	50.0	87.2	80.0	66.7
Fishing (Lake or Res.)	50.0	55.6	83.5	50.0	66.7	40.0	83.3
Picnicking	50.0	44.4	66.7	50.0	53.8	65.0	0
Wildlife viewing	0	44.4	33.3	50.0	48.7	50.0	66.7
Photography	0	33.3	16.7	50.0	41.0	9.0	50.0
Powerboating	0	11.1	0	0	48.7	15.0	33.3
Bicycling	100	11.1	33.3	0	20.5	20.0	50.0
Canoeing/Kayaking	50.0	22.2	16.7	0	2.6	25.0	33.3
OHV Use	0	22.2	0	0	7.7	15.0	0
Fishing (Stream or River)	0	22.2	16.7	50.0	7.7	5.0	16.7
PWC Use	0	0	0	0	10.3	0	16.7
Backpacking	0	22.2	33.3	0	7.7	10.0	0
Visiting Cultural/Hist. Sites	0	0	0	0	2.6	15.0	16.7
Sailboating	0	11.1	0	0	5.1	5	16.7
Hunting	0	0	0	0	0	0	0

Table 4.9-2. All recreation activities of Crystal Basin visitors to developed recreation facilities during the summer, sorted by facility. (Developed Data Sets)

Survey Question: 'From the activities listed below, please select the recreational activities you participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping.'

	% of Visitors Surveyed at Each Developed Recreation Facility ¹						
Union Valley Res. (continued)	Westpoint CG	Wolf Cr. CG	Yellowjacket CG	Yellowjacket BL	Westpoint BL	Sunset BL	
	n=3	n=6	n=11	n=5	n=28	n=34	
Swimming	66.7	100	81.8	80.0	57.1	70.6	
Hiking /Walking	100	83.3	72.7	40.0	35.7	41.2	
Fishing (Lake or Res.)	66.7	16.7	81.8	40.0	71.4	58.8	
Picnicking	66.7	50.0	45.5	80.0	50.0	44.1	
Wildlife viewing	33.3	50.0	18.2	40.0	46.4	32.4	
Photography	33.3	33.3	9.1	20.0	28.6	29.4	
Powerboating	0	16.7	36.4	40.0	42.9	70.6	
Bicycling	33.3	33.3	18.2	20.0	7.1	14.7	
Canoeing/Kayaking	0	33.3	0	20.0	14.3	17.6	
OHV Use	33.3	0	0	0	14.3	0	
Fishing (Stream or River)	33.3	0	0	0	3.6	2.9	
PWC Use	0	0	18.2	20.0	14.3	5.9	
Backpacking	0	0	0	0	3.6	0	
Visiting Cultural/Hist. Sites	0	33.3	0	0	3.6	2.9	
Sailboating	0	0	9.1	0	3.6	0	
Hunting	0	0	0	0	3.6	0	
Ice House Res.	IH Boat Launch	Ice House CG	Ice House Day Use	Northwind CG	Strawberry CG		
	n=71	n=62	n=19	n=7	n=8		
Swimming	43.7	72.6	63.2	57.1	75.0		
Hiking /Walking	38.0	62.9	52.6	42.9	100.0		
Fishing (Lake or Res.)	62.0	53.2	42.1	42.9	62.5		
Picnicking	40.8	56.5	78.9	14.3	37.5		
Wildlife viewing	39.4	50.0	36.8	42.9	62.5		
Photography	25.4	37.1	21.1	42.9	25.0		
Powerboating	38.0	24.2	0	0	12.5		
Bicycling	9.9	27.4	0	28.6	37.5		
Canoeing/Kayaking	12.7	14.5	10.5	14.3	37.5		
OHV Use	7.0	12.9	0	0	0		
Fishing (Stream or River)	15.5	11.3	10.5	14.3	25.0		
PWC Use	12.7	9.7	15.8	0	0		
Backpacking	1.4	6.5	0	0	12.5		
Visiting Cultural/Hist. Sites	1.4	8.1	5.3	0	0		
Sailboating	1.4	3.2	5.3	0	0		
Hunting	1.4	0	5.3	14.3	0		

The visitors were also asked to identify what they considered to be their most important recreational activity during their visit. Comparing the data collected at the developed recreation facilities and in the dispersed areas, the order of the most to least frequent response for each activity were similar however OHV use tended to be listed as the primary activity more frequently by visitors surveyed in dispersed areas of the Crystal Basin. Additionally, canoeing/kayaking tended to be listed as the primary activity less frequently by visitors surveyed

in these dispersed areas. Comparing the data between reservoirs, the survey responses show the highest frequency for OHV use at Gerle Reservoir and the highest frequency for powerboating at Union Valley Reservoir. Fishing at a lake or reservoir had the highest frequency response at Loon Lake and Ice House reservoirs. Personal watercraft use had the highest frequency response at Ice House Reservoir. This information is summarized in Tables 4.9-3 and 4.9-4.

Table 4.9-3. Most important recreational activities of Crystal Basin visitors during the summer.
Survey Question: 'What are your three most important recreational activities from this list?' (This table provides the frequencies for the respondents' first choice.)

Activity	Percent of Visitors- Developed Facilities in the Crystal Basin					Percent of Visitors- Dispersed Areas in the Crystal Basin		
	Total ¹	Loon Lake Res. ²	Gerle Cr. Res. ²	Union Valley Res. ²	Ice House Res. ²	All ³ 4 Reservoirs	Loon Lake TH ⁴	
Swimming	14.5	12.0	22.3	14.6	15.6	17.6	0	
Hiking /Walking	9.6	12.0	21.7	8.2	6.6	5.9	32.0	
Fishing (Lake or Reservoir)	29.6	33.7	13.1	28.1	31.1	30.9	0	
Picnicking	5.9	5.4	4.0	6.4	6.0	4.4	0	
Wildlife viewing	4.6	1.6	6.3	5.8	5.4	4.4	4.0	
Photography	1.8	2.2	1.7	2.3	0.6	0	0	
Powerboating	13.9	6.5	0.6	21.6	12.0	7.4	0	
Bicycling	2.0	3.3	0.6	1.8	1.2	0	0	
Canoeing/Kayaking	5.5	9.8	6.9	2.9	4.8	0	0	
OHV Use	3.8	4.3	11.4	2.9	3.0	26.5	0	
Fishing (Stream or River)	0.2	0	1.7	0	0.6	1.5	0	
PWC Use	3.0	0	0	2.9	7.2	0	0	
Backpacking	0.9	1.6	3.4	0	1.2	0	60.0	
Visiting Cultural/Hist. Sites	0.3	0.5	0.6	0	0.6	0	0	
Sailboating	0.5	1.6	0	0	0	0	0	
Hunting	0.7	0.5	1.1	0	1.8	1.5	0	

Note: Non-responses and 'other' responses not included so totals may not equal 100 percent.

¹ Weighted data set (n=698), *Visitor Use and Impact Technical Report*

² Unweighted data set (n(LL)=184; n(GC)=175; n(UV)=171; n(IH)=167), *Visitor Use and Impact Technical Report*

³ Dispersed surveys conducted face-to-face with visitors generally within ¼ mile of the reservoir shoreline (n=68), *Visitor Use and Impact Technical Report*

⁴ Dispersed surveys left on windshields at the Loon Lake Trailhead.(n=25), *Visitor Use and Impact Technical Report*.

Table 4.9-4. Most important recreational activities of Crystal Basin visitors to developed recreation facilities during the summer, sorted by facility. (Developed Data Sets)

Survey Question: 'What are your three most important recreational activities from this list?' (This table provides the frequencies for the respondents' first choice.)

Activity	% of Visitors Surveyed at Each Developed Recreation Facility ¹						
	Boat Launch	Loon Lake Chalet	Loon Lake Group CG	Loon Lake Campground	Northshore CG	Red Fir Gr. CG	Pleasant CG
	n=136	n=2	n=4	n=29	n=10	n=1	n=1
Swimming	11.8	0	25.0	17.2	0	0	0
Hiking /Walking	11.0	0	0	17.2	20.0	0	0
Fishing (Lake or Res.)	36.0	0	25.0	37.9	10.0	0	0
Picnicking	5.9	0	0	0	10.0	0	0

Table 4.9-4. Most important recreational activities of Crystal Basin visitors to developed recreation facilities during the summer, sorted by facility. (Developed Data Sets)							
	% of Visitors Surveyed at Each Developed Recreation Facility ¹						
<u>Loon Lake Res.</u>	Boat Launch	Loon Lake Chalet	Loon Lake Group CG	Loon Lake Campground	Northshore CG	Red Fir Gr. CG	Pleasant CG
	n=136	n=2	n=4	n=29	n=10	n=1	n=1
Wildlife viewing	2.2	0	0	0	0	0	0
Photography	2.2	0	0	3.4	0	0	0
Powerboating	8.1	0	0	3.4	0	0	0
Bicycling	2.9	0	0	3.4	10.0	0	0
Canoeing/Kayaking	11.8	0	0	6.9	0	0	0
OHV Use	0.7	0	25.0	3.4	40.0	100	0
Fishing (Stream or River)	0	0	0	0	0	0	0
PWC Use	0	0	0	0	0	0	0
Backpacking	0.7	100	0	0	0	0	0
Visiting Cultural/Hist. Sites	0.7	0	0	0	0	0	0
Sailboating	2.2	0	0	0	0	0	0
Hunting	0.7	0	0	0	0	0	0
<u>Gerle Cr. Res.</u>	Gerle CG	Airport CG	Angel Cr. Day Use				
	n=103	n=43	n=29				
Swimming	22.3	18.6	27.6				
Hiking /Walking	27.2	14.0	13.8				
Fishing (Lake or Res.)	14.6	7.0	17.2				
Picnicking	1.9	4.7	10.3				
Wildlife viewing	5.8	7.0	6.9				
Photography	1.0	0	6.9				
Powerboating	1.0	0	0				
Bicycling	1.0	0	0				
Canoeing/Kayaking	7.8	0	13.8				
OHV Use	3.9	37.2	0				
Fishing (Stream or River)	1.9	2.3	0				
PWC Use	0	0	0				
Backpacking	4.9	2.3	0				
Visiting Cultural/Hist. Sites	1.0	0	0				
Sailboating	0	0	0				
Hunting	0	2.3	3.4				
<u>Union Valley Res.</u>	Big Silver Group CG	Camino Cove CG	Jones Fork CG	Azalea Cove/Lone Rock CG	Sunset CG ¹	Wench Cr. CG	Wench Cr. Group CG
	n=2	n=9	n=6	n=2	n=39	n=20	n=6
Swimming	50.0	33.3	0	0	5.1	20.0	33.3
Hiking /Walking	0	22.2	16.7	0	10.3	15.0	0
Fishing (Lake or Res.)	0	11.1	33.3	50.0	25.6	15.0	33.3
Picnicking	0	22.2	16.7	0	5.1	10.0	0
Wildlife viewing	0	0	0	0	12.8	15.0	0
Photography	0	0	0	50.0	5.1	0	0
Powerboating	0	0	0	0	30.8	0	16.7
Bicycling	0	0	16.7	0	0	5.0	0
Canoeing/Kayaking	50.0	0	16.7	0	0	5.0	0
OHV Use	0	11.0	0	0	0	15.0	0
Fishing (Stream or River)	0	0	0	0	0	0	0

Table 4.9-4. Most important recreational activities of Crystal Basin visitors to developed recreation facilities during the summer, sorted by facility. (Developed Data Sets)							
	% of Visitors Surveyed at Each Developed Recreation Facility ¹						
<u>Union Valley Res.</u>	Big Silver Group CG	Camino Cove CG	Jones Fork CG	Azalea Cove/Lone Rock CG	Sunset CG ¹	Wench Cr. CG	Wench Cr. Group CG
PWC Use	0	0	0	0	5.1	0	0
Backpacking	0	0	0	0	0	0	0
Visiting Cultural/Hist. Sites	0	0	0	0	0	0	0
Sailboating	0	0	0	0	0	0	0
Hunting	0	0	0	0	0	0	0
<u>Union Valley Res. (continued)</u>	Westpoint CG	Wolf Cr. CG	Yellowjacket CG	Yellowjacket BL	Westpoint BL	Sunset BL	
	n=3	n=6	n=11	n=5	n=28	n=34	
Swimming	0	16.7	27.3	20.0	17.9	8.8	
Hiking /Walking	66.7	16.7	9.1	0	0	0	
Fishing (Lake or Res.)	33.3	16.7	27.3	0	50.0	29.4	
Picnicking	0	33.3	0	0	0	5.9	
Wildlife viewing	0	0	0	20.0	3.6	0	
Photography	0	0	0	0	0	2.9	
Powerboating	0	0	18.2	40.0	14.3	47.1	
Bicycling	0	0	0	0	3.6	0	
Canoeing/Kayaking	0	0	0	0	3.6	2.9	
OHV Use	0	0	0	0	3.6	0	
Fishing (Stream or River)	0	0	0	0	0	0	
PWC Use	0	0	9.1	20.0	0	2.9	
Backpacking	0	0	0	0	0	0	
Visiting Cultural/Hist. Sites	0	0	0	0	0	0	
Sailboating	0	0	0	0	0	0	
Hunting	0	0	0	0	0	0	
<u>Ice House Res.</u>	IH Boat Launch	Ice House CG	Ice House Day Use	Northwind CG	Strawberry CG		
	n=71	n=62	n=19	n=7	n=8		
Swimming	7	24.2	15.8	14.3	25.0		
Hiking /Walking	0	14.5	5.3	14.3	0		
Fishing (Lake or Res.)	42.3	22.6	10.5	28.6	50.0		
Picnicking	4.2	0	31.6	0	12.5		
Wildlife viewing	2.8	8.1	5.3	14.3	0		
Photography	0	1.6	5.3	0	0		
Powerboating	19.7	9.7	0	0	0		
Bicycling	2.8	0	0	0	0		
Canoeing/Kayaking	4.2	3.2	5.3	14.3	12.5		
OHV Use	1.4	6.5	0	0	0		
Fishing (Stream or River)	0	0	5.3	0	0		
PWC Use	9.9	6.5	5.3	0	0		
Backpacking	0	3.2	0	0	0		
Visiting Cultural/Hist. Sites	1.4	0	0	0	0		
Sailboating	0	0	0	0	0		
Hunting	1.4	0	5.3	14.3	0		

Note: non-responses and 'other' responses not included so totals may not equal 100 percent.

¹ Unweighted data set, *Visitor Use and Impact Technical Report*

Respondents were also asked if there were recreation activities that they would like to but participate in which they currently cannot. At the developed recreation facilities there were 54 affirmative responses (7.9%) to this question. The most common response was that the lack of boat rentals prevented visitors from boating. Other desired activities and comments listed by the visitors in dispersed areas included:

- Horseback riding (there is no place to rent horses)
- Horseshoes
- Mountain biking (need trails or not known where this activity is allowed)
- Quieter experience without motorized vehicles

There were 10 affirmative responses (14.7%) to the question from those surveyed in the dispersed areas. These visitors also commented that the lack of boat rentals prevented them from boating. Other desired activities and comments listed by the visitors in dispersed areas included:

- Waterskiing at night
- More OHV trails
- Deer hunting (out of season)
- Trail to bassi Falls
- Ability to have campfires in undeveloped sites (fires restricted to developed sites)

4.9.2 Crystal Basin—Winter

SMUD conducted visitor surveys during the winter 2002-2003. Surveys were collected from visitors staying at the Loon Lake Chalet and windshield surveys were left on visitors' windshields throughout the areas with plowed access. The data collected in the surveys provide information about the recreation activities that the current visitors enjoy as well as indications of latent demand. On the windshield survey Question no. 9 asked visitors to, "...select the recreational activities you participated in or plan to participate in during this visit." The responses to this question are shown in Table 4.9-5 below. Most of the verbatim responses listed by respondents as 'Other' could be included under snow play but some of the more unique activities listed as 'Other' included: ATV with snow tracks, bicycling on and off road, boating, canoeing, downhill skiing, hunting, backpacking, kayaking, scuba diving, and viewing the waterfall. There were 40 responses to the 'Other' category, and most of these had only one response for each of them.

Table 4.9-5. All recreational activities of wintertime visitors. (SOURCE: <i>Visitor Use and Impact Technical Report (Winter Data Set)</i>)		
Activity	Windshield Surveys in the Crystal Basin during the Winter	
	No. of People Interviewed that Participated in the Activity (n=223)	Percent of Visitors
Photography	89	39.9
Snow play	83	37.2
Fishing (lake or reservoir)	81	36.3
Hiking/walking	78	35
Cross-country skiing	72	32.3

Table 4.9-5. All recreational activities of wintertime visitors. (SOURCE: *Visitor Use and Impact Technical Report (Winter Data Set)*)

Activity	Windshield Surveys in the Crystal Basin during the Winter	
	No. of People Interviewed that Participated in the Activity (n=223)	Percent of Visitors
Picnicking	71	31.8
Wildlife viewing	66	29.6
Snowshoeing	65	29.1
Camping	60	26.9
Off-Highway Vehicle Use	30	13.5
Fishing (stream or river)	10	4.5
Snowmobiling	9	4
Whitewater Boating	0	0
Other (see list below)	40	18.0

The visitors were also asked to identify what they considered to be their most important recreational activity during their visit (see Table 4.9-6). The most important activities respondents provided in the windshield surveys were: fishing in a lake or reservoir, cross-country skiing, and snowshoeing. The second most important activities were: snow play, camping and photography. The third most popular activities were: photography, hiking/walking and wildlife viewing.

Table 4.9-6. Most important recreational activities of wintertime visitors. (SOURCE: *Visitor Use and Impact Technical Report (Winter Data Set)*)

Survey Question: 'What are your three most important recreational activities from this list?' (This table provides the frequencies for the respondents' first choice.)

Activity	Windshield Surveys in the Crystal Basin during the Winter	
	No. of People Interviewed that Participated in the Activity (n=223)	Percent of Visitors
Photography	0	0
Snow play	18	8.1
Fishing (lake or reservoir)	63	28.3
Hiking/walking	8	3.6
Cross-country skiing	55	24.7
Picnicking	4	1.8
Wildlife viewing	0	0
Snowshoeing	31	13.9
Camping	14	6.3
Off-Highway Vehicle Use	14	6.3
Fishing (stream or river)	0	0
Snowmobiling	5	2.2
Whitewater Boating	0	0
Other	8	3.6

Respondents were also asked if there were recreation activities that they would like to but participate in which they currently cannot. There were 31 affirmative responses (13.9%) to this question. The activities they could not participate in included: camping in a campground because they were closed for the season, snowmobiling, ice skating, hut-to-hut cross country

skiing and fishing at Union Valley Reservoir because the ramp was closed. Other cuff notes on the survey responses to this question included: cable sledding, hiking, could not stay at the Chalet because it was already reserved, driving to the main dam at Loon Lake Reservoir because the road was not plowed and cross-country skiing or snowshoeing on the south side of Union Valley Reservoir.

4.9.3 Canyonlands

SMUD also conducted visitor surveys in the Canyonlands in the summer of 2002. The data collected in the surveys provide information about the recreation activities that the current visitors enjoy as well as indications of latent demand. Question no. 8 asked visitors to, "...select the recreational activities you have participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping." The responses to this question are shown in Table 4.19-7 below.

The respondents were also given the opportunity to list other activities that they participated or planned to participate in that did not appear on the list of activities that they were given to respond to this question. The responses collected in the Canyonlands included: gathering/shooting, hanging out, stress reliever, meeting with friends and reading.

Table 4.9-7. All recreational activities of visitors to the Canyonlands during the summer. (SOURCE: Visitor Use and Impact Technical Report (Dispersed Canyonlands Data Sets))			
Survey Question: 'What are your three most important recreational activities from this list?' (This table provides the frequencies for the respondents' first choice.)			
Activity	% of Visitors Surveyed at Each Reservoir¹		
	Junction Res..	Slab Creek Res.	Brush Creek
	n=5	n=27	n=5
Swimming	60.0	63.0	80.0
Hiking /Walking	60.0	44.0	20.0
Fishing (Lake or Res.)	40.0	41.0	20.0
Picnicking	40.0	37.0	20.0
Wildlife viewing	40.0	0	0
Photography	40.0	26.0	0
Powerboating	0	7.0	20.0
Bicycling	0	4.0	0
Canoeing/Kayaking	0	33.0	20.0
OHV Use	20.0	11.0	20.0
Fishing (Stream or River)	0	41.0	20.0
PWC Use	0	4.0	0
Backpacking	0	7.0	0
Visiting Cultural/Hist. Sites	0	0	0
Sailboating	0	0	0
Hunting	0	4.0	0

¹Dispersed Data Set, *Visitor Use and Impact Technical Report*, includes Slab Creek, Brush Creek and Junction Reservoirs. No visitors were found at Camino Reservoir during the survey effort.

The visitors were also asked to identify what they considered to be their most important recreational activity during their visit (see Table 4.9-8). Compared to the survey responses

collected in the Crystal Basin, there are fewer activities in which the visitors to the Canyonlands participate. The five most frequent responses were swimming, fishing (lake or reservoir), canoeing/kayaking, fishing (stream or river), and wildlife viewing.

Table 4.9-8. Most important recreational activities of visitors to the Canyonlands during the summer (Dispersed Canyonlands Data Set)			
<i>Survey Question: 'What are your three most important recreational activities from this list?' (This table provides the frequencies for the respondents' first choice.)</i>			
Activity	% of Visitors Surveyed at Each Reservoir¹		
	Junction Res..	Slab Creek Res.	Brush Creek
	n=5	n=27	n=5
Swimming	40.0	11.0	40.0
Hiking /Walking	20.0	0	20.0
Fishing (Lake or Res.)	40.0	30.0	0
Picnicking	0	0	0
Wildlife viewing	0	7.0	0
Photography	0	0	0
Powerboating	0	0	0
Bicycling	0	0	0
Canoeing/Kayaking	0	26.0	0
OHV Use	0	0	20.0
Fishing (Stream or River)	0	19.0	0
PWC Use	0	0	0
Backpacking	0	0	0
Visiting Cultural/Hist. Sites	0	0	0
Sailboating	0	0	0
Hunting	0	0	0

Note: non-responses and 'other' responses not included so totals may not equal 100 percent.

¹Dispersed Data Set, *Visitor Use and Impact Technical Report*, includes Slab Creek, Brush Creek and Junction Reservoirs. No visitors were found at Camino Reservoir during the survey effort.

Respondents were also asked if there were recreation activities that they would like to but participate in which they currently cannot. There were only four affirmative responses (11.1%) to this question. One person commented that they could not boat in the area because they do not have a boat and there is no place to rent a boat. The second respondent at the upstream end of Slab Creek Reservoir said he/she could not swim because the water is too cold and runs too fast. The third responded said that they could not boat because the road at the informal boat launch site at Slab Creek Reservoir was too narrow to launch a boat transported by a trailer. The fourth respondent said they could not kayak on Slab Creek Reservoir because the water was flowing too fast at the upstream end of Slab Creek Reservoir.

4.10 Future Recreation Use Estimates

The projected recreation participation and use estimates within the UARP are discussed in two parts. The first section discusses participation in activities from a regional then county perspective. The second part of this section includes projections of how many visitors may likely participate in various recreation activities during visits to areas at and near the UARP. The projections for future estimated use at the UARP are based on several assumptions about

population growth, trends in participation in various recreation activities and local factors that may influence these trends.

Cordell (1999) provided projected regional participation for various activities. These projection indices were developed for regions across the United States, and specifically for the Pacific region which is based on data from California, Oregon, Washington, Alaska and Hawaii. Although there may be limitations for applying these projected indices which were compiled for five states to estimating future use at the UARP, it is a reasonable approach considering the data provided in table 4.10-1 below which shows fairly consistent existing participation percentages between California and the Pacific Region as defined above.

Table 4.10-1. Comparison of the percent participation in various recreation activities between the population of California and the Pacific Region (SOURCE: Cordell 2004).					
Activity	CA	Pacific Region	Activity	CA	Pacific Region
Walking for pleasure	80.1	81.3	Basketball outdoors	12.4	13.0
Family gathering	72.5	73.0	Tennis outdoors	13.4	12.0
Viewing/photographing nat. scenery	60.6	63.7	Soccer outdoors	13.4	11.4
Visiting nature centers	56.2	58.1	Warm-water fishing	11.4	10.9
Gardening/landscaping for pleasure	50.3	57.4	Sledding	6.2	9.6
Picnicking	52.5	56.2	Snorkeling	7.6	9.6
Sightseeing	46.1	49.7	Softball	9.2	9.5
Visiting a beach	46.2	49.2	Horseback riding (general)	9.7	9.4
View/photo wildflowers, trees	45.6	47.9	Jetskiing	10.2	9.2
Driving for pleasure	42.9	46.3	Downhill skiing	8.6	9.2
Attending outdoor sports events	43.5	45.5	Volleyball outdoors	8.9	9.0
Day hiking	44.6	45.2	Anadromous fishing	5.7	8.9
Visiting historic sites	41.0	43.3	Snowboarding	9.2	8.7
Bicycling	41.0	41.6	Football	9.2	8.5
Swimming in lakes, streams	37.9	40.8	Rafting	7.0	8.2
Attending outdoor concerts, plays	42.5	40.8	Mountain climbing	6.9	7.8
View/photo other wildlife	36.5	40.5	Horseback riding on trails	7.1	7.1
Running or jogging	39.9	40.0	Waterskiing	6.8	6.9
Swimming in lakes, streams	41.8	37.5	Caving	6.3	6.5
Visiting wilderness/primitive area	32.8	36.4	Hand/racquetball outdoors	8.5	6.4
Yard games (e.g. horseshoes)	30.5	33.0	Canoeing	4.3	6.3
Developed camping	28.5	31.7	Sailing	5.4	5.6
View/photo birds	28.3	30.2	Kayaking	4.4	5.3
Visiting other waterside	24.5	26.9	Ice skating outdoors	5.0	4.9
View/photo fish	22.1	26.2	Big game hunting	1.9	4.7
Gathering mushrooms, berries	20.7	25.7	Baseball	4.5	4.7
Inline skating or rollerblading	28.5	24.0	Surfing	3.8	4.6
Visiting a farm/agricultural setting	21.5	23.4	Snowmobiling	2.3	4.0
Boat tours or excursions	20.1	22.8	Small game hunting	2.6	3.9
Mountain biking	21.1	22.4	Cross-country skiing	2.4	3.9
Visiting prehistoric/arch sites	21.3	21.5	Rowing	3.6	3.8
Motorboating	17.6	19.7	Rock climbing	4.6	3.6
Primitive camping	14.6	18.9	Orienteering	3.2	2.9
Golfing	15.2	17.3	Scuba diving	1.9	2.5
Driving off-road	15.1	16.8	Ice fishing	0.1	2.0

Table 4.10-1. Comparison of the percent participation in various recreation activities between the population of California and the Pacific Region (SOURCE: Cordell 2004).

Activity	CA	Pacific Region	Activity	CA	Pacific Region
Coldwater fishing	13.8	16.4	Migratory bird hunting	1.2	1.8
Backbacking	12.9	15.1	Snowshoeing	1.2	1.4
Saltwater fishing	11.3	14.1	Windsurfing	0.7	0.9

Recognizing that the UARP draws a majority of the visitors from of El Dorado and Sacramento counties, which are projected to grow at a faster rate than the State of California (see Table 4.3-2, *Recreation Demand Technical Report*), it is reasonable to believe that using projection indices developed for the region (Cordell 1999) would provide a conservative estimate of the recreational use at and near the UARP that could be expected in the future. This concept is considered below in the development of the projected recreation use estimates.

4.10.1 Activity Participation for Sacramento and El Dorado Populations (16 years and older)

The calculation of participation estimates are based on the projection indices created from Bowker, English, and Cordell, 1999) who utilized the National Survey on Recreation and the Environment (NSRE) descriptive findings for populations 16 years and older, not institutionalized (Cordell, McDonald, Lewis, Miles, Martin, and 1996) to develop participation by millions 2000-2050 on ten year increments.

The county projections are presented in a range derived from national and regional participation projection estimates. These are calculated based on the indices created for the nation and region, utilizing the same rate of increase index created by Bowker et. al, (1999). To obtain the county level estimated activity participation rates the following individuals were contacted and the following methodology was applied:

- a. Dr. Bricker consulted Dr. Rodney Warnick, professor at the University of Massachusetts, and co-author of *Recreation Trends and Markets: The 21st Century* (1999) for a procedure to estimate local participation in selected activities.
- b. To obtain population information and index information, Dr. Bricker consulted with Carter J. Betz, of the USDA Forest Service, Southern Research Station, 320 Green St., Athens, GA 30602-2044 with regard to the NSRE population numbers and process for estimating use and participation rates.
- c. From the above discussions and correspondence, Dr. Bricker employed the following steps to develop county participation in selected activities:
 1. By county, the indexes from national and regional participation rates were multiplied by the base number of participants (represented in millions) then divided by the base population used in national and regional calculations (Bowker et.al, 1999, pp. 323-349). This yielded a national and regional participation rate for each activity by decade.

2. Next, the national and regional participation rates were multiplied by the estimated county populations of individuals non-institutionalized and over the age of 16, consistent with the estimate parameters developed by Bowker et al.. The population estimates came from the Department of Finance, extracting estimates of institutionalized individuals from the Department of Corrections (see Table 4.3-3, *Recreation Demand Technical Report*).
3. This calculation resulted in a range of participation by activity for Sacramento and El Dorado Counties, as well as a combination of the two counties together.

The following tables are representative of these calculations in an attempt to relate regional and national trends to the population of counties that constitute most of the use at and near the UARP (Tables 4.10-2 to 4.10-7).

Table 4.10-2. Participation activity estimates for Sacramento and El Dorado Counties: 2000									
Selected Activities	NPR 2000	RPR 2000	Participation Estimates Sacramento County-2000		Participation Estimates El Dorado County-2000		Combined County Participation Estimates-2000		
Cross Country Skiing	3.4%	3.7%	31,076	to 34,336	575	to 576	35,197	to	38,889
Downhill Skiing	8.6%	12.2%	79,547	to 112,371	589	to 584	90,096	to	127,273
Snowmobiling	3.5%	2.4%	32,639	to 22,468	574	to 576	36,967	to	25,448
Canoeing	7.2%	4.1%	66,114	to 37,457	576	to 581	74,882	to	42,424
Motor-boating	24.1%	21.5%	222,542	to 198,505	604	to 608	252,053	to	224,829
Non-pool Swimming	40.1%	39.3%	369,798	to 362,085	632	to 633	418,838	to	410,101
Rafting/Floating	1.2%	3.7%	11,102	to 33,688	576	to 572	12,574	to	38,155
Visit Beach or Waterside	65.1%	71.4%	600,462	to 658,325	673	to 683	680,091	to	745,627
Fishing	29.7%	25.2%	274,152	to 231,898	610	to 617	310,508	to	262,650
Hunting	9.0%	5.1%	82,939	to 47,057	578	to 584	93,938	to	53,297
Non-Consumptive Wildlife Activities	60.5%	57.6%	557,931	to 531,112	661	to 666	631,919	to	601,544
Backpacking	7.6%	12.7%	69,875	to 117,495	582	to 590	79,141	to	133,076
Hiking	24.6%	37.6%	226,330	to 346,654	609	to 629	256,344	to	392,625
Horseback Riding	7.3%	8.1%	67,052	to 74,207	581	to 583	75,944	to	84,048
Off-Road Driving	13.9%	15.6%	128,257	to 143,939	592	to 595	145,265	to	163,027
Primitive Camping	14.0%	18.8%	128,716	to 173,150	592	to 600	145,786	to	196,112
Developed Camping	21.1%	29.8%	194,592	to 274,685	603	to 617	220,397	to	311,111
Rock Climbing	3.9%	5.6%	35,512	to 51,562	576	to 579	40,221	to	58,400
Biking	29.8%	33.2%	274,424	to 305,899	617	to 622	310,815	to	346,465
Family Gathering	64.2%	66.0%	591,875	to 608,117	674	to 671	670,365	to	688,761
Picnicking	51.0%	54.0%	469,962	to 497,837	651	to 655	532,285	to	563,856
Sightseeing	59.4%	64.4%	547,367	to 593,806	664	to 672	619,954	to	672,552
Visiting Historic Places	46.7%	47.6%	430,759	to 438,883	644	to 645	487,883	to	497,085
Walking	68.7%	72.8%	633,060	to 671,046	679	to 685	717,011	to	760,035

Table 4.10-3. Participation activity estimates for Sacramento and El Dorado Counties: 2010									
Selected Activities	NPR 2010	RPR 2010	Participation Estimates Sacramento-2010		Participation Estimates El Dorado-2010		Combined County Estimates-2010		
Cross Country Skiing	3.8%	4.3%	45,619	to 51,549	576	to 577	51,514	to	58,210
Downhill Skiing	9.5%	13.9%	112,911	to 165,961	592	to 585	127,502	to	187,408
Snowmobiling	3.7%	3.2%	43,918	to 37,871	575	to 576	49,593	to	42,765
Canoeing	7.6%	4.6%	90,572	to 55,320	577	to 582	102,276	to	62,469
Motor-boating	26.0%	24.6%	310,292	to 292,833	609	to 611	350,389	to	330,674
Non-pool Swimming	43.6%	44.1%	520,257	to 525,925	640	to 639	587,487	to	593,888
Rafting/Floating	0.0%	4.2%	0	to 50,291	577	to 570	0	to	56,790
Visit Beach or Waterside	71.4%	80.0%	850,878	to 954,278	683	to 696	960,832	to	1,077,594
Fishing	31.5%	26.8%	375,365	to 320,036	612	to 620	423,872	to	361,392
Hunting	8.6%	4.6%	102,883	to 55,054	577	to 584	116,178	to	62,168
Non-Consumptive Wildlife Activities	67.5%	65.6%	805,152	to 782,602	674	to 677	909,198	to	883,733
Backpacking	7.9%	13.6%	94,021	to 162,151	582	to 591	106,171	to	183,105
Hiking	26.9%	42.8%	321,259	to 510,800	613	to 638	362,774	to	576,808
Horseback Riding	8.0%	9.0%	95,258	to 107,898	583	to 584	107,568	to	121,841
Off-Road Driving	14.2%	16.5%	169,260	to 196,974	592	to 596	191,132	to	222,428
Primitive Camping	14.1%	20.2%	168,201	to 241,094	592	to 602	189,937	to	272,249
Developed Camping	23.2%	33.5%	276,449	to 398,978	607	to 623	312,173	to	450,536
Rock Climbing	4.1%	5.8%	49,069	to 68,655	577	to 579	55,409	to	77,527
Biking	32.9%	37.3%	392,608	to 444,316	622	to 629	443,342	to	501,733
Family Gathering	70.4%	74.0%	839,411	to 882,384	687	to 681	947,883	to	996,410
Picnicking	55.9%	60.6%	666,511	to 722,366	658	to 666	752,641	to	815,714
Sightseeing	66.7%	74.5%	795,874	to 888,099	675	to 688	898,720	to	1,002,863
Visiting Historic Places	52.5%	53.8%	625,674	to 641,443	653	to 655	706,527	to	724,333
Walking	74.7%	82.9%	890,633	to 988,796	688	to 701	1,005,724	to	1,116,573

Table 4.10-4. Participation activity estimates for Sacramento and El Dorado Counties: 2020										
Selected Activities	NPR 2020	RPR 2020	Participation Estimates Sacramento-2020		Participation Estimates El Dorado-2020			Combined County Estimates-2020		
Cross Country Skiing	4.1%	4.7%	60,520	to 69,251	576	to	577	67,887	to	77,682
Downhill Skiing	10.2%	15.1%	151,455	to 223,233	594	to	586	169,892	to	250,408
Snowmobiling	3.9%	3.4%	57,187	to 51,027	575	to	576	64,149	to	57,239
Canoeing	8.1%	5.0%	119,820	to 73,843	578	to	583	134,407	to	82,832
Motor-boating	28.4%	26.6%	420,240	to 393,639	612	to	615	471,398	to	441,559
Non-pool Swimming	47.1%	47.8%	698,313	to 708,324	646	to	644	783,323	to	794,552
Rafting/Floating	0.0%	4.4%	0	to 64,613	577	to	570	0	to	72,478
Visit Beach or Waterside	76.9%	88.0%	1,139,872	to 1,303,185	692	to	709	1,278,635	to	1,461,829
Fishing	33.8%	28.8%	500,586	to 426,017	615	to	623	561,525	to	477,878
Hunting	8.4%	4.3%	125,074	to 63,571	577	to	583	140,300	to	71,310
Non-Consumptive Wildlife Activities	75.1%	73.1%	1,112,435	to 1,082,981	685	to	689	1,247,858	to	1,214,819
Backpacking	8.4%	14.9%	124,675	to 221,245	583	to	594	139,853	to	248,178
Hiking	29.3%	46.7%	434,457	to 691,378	616	to	644	487,346	to	775,543
Horseback Riding	8.8%	9.9%	129,974	to 146,550	584	to	586	145,796	to	164,390
Off-Road Driving	14.6%	18.0%	216,475	to 266,970	593	to	598	242,828	to	299,470
Primitive Camping	14.5%	22.0%	215,182	to 326,045	593	to	605	241,377	to	365,736
Developed Camping	24.6%	37.1%	364,930	to 549,845	609	to	629	409,355	to	616,781
Rock Climbing	4.5%	6.3%	67,060	to 93,345	577	to	580	75,223	to	104,708
Biking	36.6%	40.4%	542,920	to 598,411	628	to	634	609,013	to	671,260
Family Gathering	76.6%	80.2%	1,134,374	to 1,187,640	697	to	691	1,272,468	to	1,332,218
Picnicking	61.3%	66.1%	907,983	to 979,743	667	to	674	1,018,517	to	1,099,014
Sightseeing	74.7%	83.9%	1,106,117	to 1,243,495	688	to	703	1,240,771	to	1,394,873
Visiting Historic Places	58.2%	58.6%	862,264	to 868,790	662	to	663	967,232	to	974,553
Walking	80.7%	90.3%	1,195,448	to 1,338,355	697	to	713	1,340,977	to	1,501,281

Table 4.10-5. Participation activity estimates for Sacramento and El Dorado Counties: 2030										
Selected Activities	NPR 2030	RPR2030	Participation Estimates Sacramento-2030		Participation Estimates El Dorado-2030			Combined County Estimates-2030		
Cross Country Skiing	5.0%	5.5%	88,005	to 97,260	578	to 579	98,168	to	108,492	
Downhill Skiing	12.0%	17.8%	211,211	to 314,250	598	to 589	235,603	to	350,541	
Snowmobiling	4.2%	5.2%	73,657	to 91,853	578	to 577	82,163	to	102,461	
Canoeing	8.7%	5.8%	153,713	to 102,047	579	to 584	171,465	to	113,832	
Motor-boating	30.7%	30.6%	541,303	to 539,293	618	to 619	603,816	to	601,574	
Non-pool Swimming	51.8%	53.0%	913,216	to 934,190	654	to 652	1,018,680	to	1,042,076	
Rafting/Floating	0.0%	5.1%	0	to 89,882	578	to 570	0	to	100,262	
Visit Beach or Waterside	85.6%	96.6%	1,509,282	to 1,702,018	705	to 723	1,683,583	to	1,898,578	
Fishing	35.5%	29.5%	626,116	to 519,526	617	to 626	698,424	to	579,524	
Hunting	8.3%	4.0%	145,537	to 69,890	576	to 583	162,345	to	77,961	
Non-Consumptive Wildlife Activities	82.1%	81.1%	1,446,641	to 1,429,556	698	to 700	1,613,709	to	1,594,650	
Backpacking	8.5%	15.1%	149,669	to 265,367	583	to 594	166,954	to	296,013	
Hiking	31.9%	53.3%	563,123	to 939,202	620	to 654	628,157	to	1,047,667	
Horseback Riding	9.6%	11.2%	169,723	to 197,335	585	to 588	189,324	to	220,125	
Off-Road Driving	14.8%	18.0%	260,005	to 317,629	593	to 598	290,032	to	354,311	
Primitive Camping	14.7%	22.7%	258,475	to 400,528	593	to 606	288,325	to	446,783	
Developed Camping	26.9%	40.8%	474,310	to 718,607	613	to 634	529,086	to	801,597	
Rock Climbing	4.7%	6.1%	83,081	to 107,228	577	to 580	92,676	to	119,611	
Biking	40.4%	44.1%	711,544	to 778,191	634	to 640	793,718	to	868,061	
Family Gathering	84.0%	87.6%	1,480,234	to 1,543,429	708	to 703	1,651,181	to	1,721,674	
Picnicking	67.2%	72.7%	1,183,982	to 1,281,329	676	to 685	1,320,715	to	1,429,305	
Sightseeing	83.1%	93.4%	1,465,552	to 1,646,151	701	to 718	1,634,804	to	1,836,259	
Visiting Historic Places	65.7%	64.4%	1,158,002	to 1,134,679	674	to 672	1,291,736	to	1,265,719	
Walking	86.7%	100.4%	1,528,079	to 1,770,556	707	to 729	1,704,551	to	1,975,031	

Table 4.10-6. Participation activity estimates for Sacramento and El Dorado Counties: 2040										
Selected Activities	NPR 2040	RPR2040	Participation Estimates Sacramento-2040		Participation Estimates El Dorado-2040			Combined County Estimates-2040		
Cross Country Skiing	5.6%	6.1%	111,811	to 121,909	579	to 580	124,056	to	135,260	
Downhill Skiing	13.7%	20.7%	272,283	to 412,732	603	to 592	302,103	to	457,934	
Snowmobiling	4.5%	6.5%	89,657	to 129,743	580	to 577	99,476	to	143,953	
Canoeing	9.4%	6.5%	186,464	to 129,170	580	to 585	206,885	to	143,316	
Motor-boating	33.3%	34.0%	663,605	to 678,142	624	to 623	736,282	to	752,412	
Non-pool Swimming	56.5%	58.2%	1,126,010	to 1,159,981	662	to 659	1,249,330	to	1,287,022	
Rafting/Floating	0.0%	5.8%	0	to 115,699	579	to 570	0	to	128,370	
Visit Beach or Waterside	92.4%	106.5%	1,843,019	to 2,122,704	716	to 738	2,044,866	to	2,355,182	
Fishing	37.3%	31.2%	742,662	to 621,009	619	to 629	823,999	to	689,022	
Hunting	8.2%	3.6%	162,749	to 72,547	576	to 583	180,573	to	80,492	
Non-Consumptive Wildlife Activities	87.9%	89.1%	1,752,149	to 1,776,340	711	to 709	1,944,044	to	1,970,884	
Backpacking	8.9%	16.3%	178,340	to 324,326	584	to 596	197,872	to	359,846	
Hiking	34.6%	58.9%	689,158	to 1,173,293	625	to 663	764,635	to	1,301,791	
Horseback Riding	10.6%	12.3%	211,858	to 246,111	587	to 590	235,061	to	273,065	
Off-Road Driving	15.3%	18.9%	305,155	to 377,191	594	to 600	338,575	to	418,501	
Primitive Camping	14.9%	19.7%	297,896	to 392,350	594	to 601	330,522	to	435,320	
Developed Camping	28.8%	44.7%	573,570	to 891,196	615	to 641	636,387	to	988,799	
Rock Climbing	5.1%	6.6%	101,420	to 131,017	578	to 580	112,527	to	145,366	
Biking	44.1%	47.9%	878,933	to 955,016	640	to 646	975,193	to	1,059,609	
Family Gathering	90.1%	95.0%	1,797,201	to 1,893,090	720	to 712	1,994,030	to	2,100,421	
Picnicking	71.1%	77.7%	1,417,244	to 1,549,784	682	to 693	1,572,460	to	1,719,515	
Sightseeing	89.9%	102.8%	1,792,806	to 2,050,285	712	to 732	1,989,154	to	2,274,831	
Visiting Historic Places	71.9%	69.7%	1,432,726	to 1,388,767	684	to 680	1,589,637	to	1,540,864	
Walking	92.7%	109.2%	1,847,862	to 2,177,162	716	to 743	2,050,239	to	2,415,604	

Table 4.10-7. Participation activity estimates for Sacramento and El Dorado Counties: 2050										
Selected Activities	NPR 2050	RPR2050	Participation Estimates Sacramento-2050		Participation Estimates El Dorado-2050			Combined County Estimates-2050		
Cross Country Skiing	6.3%	6.7%	139,739	to 147,600	580	to	581	154,248	to	162,925
Downhill Skiing	16.2%	24.3%	357,468	to 536,445	608	to	596	394,583	to	592,143
Snowmobiling	5.0%	8.1%	109,586	to 177,968	583	to	578	120,965	to	196,446
Canoeing	10.3%	7.2%	226,956	to 160,171	581	to	586	250,521	to	176,801
Motor-boating	36.3%	37.8%	803,156	to 836,448	630	to	627	886,546	to	923,295
Non-pool Swimming	61.5%	63.7%	1,360,437	to 1,409,052	671	to	667	1,501,689	to	1,555,351
Rafting/Floating	0.0%	6.6%	0	to 146,082	580	to	570	0	to	161,249
Visit Beach or Waterside	99.9%	113.8%	2,208,090	to 2,514,428	728	to	750	2,437,351	to	2,775,497
Fishing	39.3%	33.1%	868,136	to 730,938	622	to	632	958,273	to	806,830
Hunting	8.3%	3.5%	182,504	to 76,837	575	to	583	201,454	to	84,815
Non-Consumptive Wildlife Activities	93.7%	94.4%	2,071,415	to 2,087,518	719	to	718	2,286,486	to	2,304,261
Backpacking	9.6%	17.7%	211,147	to 391,811	585	to	598	233,070	to	432,492
Hiking	37.4%	64.4%	827,367	to 1,424,094	629	to	672	913,271	to	1,571,955
Horseback Riding	11.8%	13.6%	261,707	to 300,003	589	to	591	288,879	to	331,151
Off-Road Driving	16.1%	20.0%	356,806	to 441,459	596	to	602	393,853	to	487,294
Primitive Camping	15.4%	25.8%	339,564	to 569,496	594	to	611	374,820	to	628,626
Developed Camping	30.8%	48.6%	681,718	to 1,075,150	619	to	647	752,500	to	1,186,781
Rock Climbing	5.6%	7.3%	124,029	to 160,877	579	to	581	136,907	to	177,581
Biking	48.7%	51.7%	1,075,799	to 1,141,959	647	to	652	1,187,497	to	1,260,526
Family Gathering	96.9%	101.7%	2,142,845	to 2,248,960	731	to	723	2,365,332	to	2,482,465
Picnicking	75.5%	82.3%	1,668,955	to 1,818,801	689	to	700	1,842,240	to	2,007,644
Sightseeing	96.7%	110.5%	2,137,862	to 2,443,171	723	to	745	2,359,832	to	2,696,841
Visiting Historic Places	77.6%	74.1%	1,715,281	to 1,637,302	693	to	687	1,893,376	to	1,807,300
Walking	97.4%	116.6%	2,152,062	to 2,577,918	724	to	754	2,375,506	to	2,845,578

Table 4.10-8 provides estimated average participation as percentages of the population of Sacramento and El Dorado counties over the next 50 years. In addition to participation rates per decade, an average activity growth rate was also calculated. In summary, hunting is the only activity estimated as negative participation growth. Rafting/floating, rock climbing, cross-country skiing, canoeing, off-road driving, backpacking, snowmobiling, primitive camping and horseback riding are estimated to increase, but only slightly, at 5 percent or less. Participation in fishing and downhill skiing show a slightly higher participation increase estimate, with an average of 8.7 and 9.8 respectively. Developed camping and motor-boating are nearly tied, with an estimated increase of 14% over 50 years. Biking, hiking, and non-pool swimming show a slightly higher overall increase at nearly 20 percent over the next 50 years. Picnicking and visiting historic places demonstrated not only high average participation rates, but also an estimated 26-29 percent increase over the next 50 years. The top five with respect to largest increases in participation include family gathering (34%), non-consumptive wildlife activities (35%), walking (36%), visiting beach or waterside (39%), and sightseeing (42%). While these figures demonstrate only estimates, they are reflective of demographic trends in Sacramento and El Dorado counties.

Selected Activities	Average Percent of Population Participation						50 Year % Change
	2000	2010	2020	2030	2040	2050	
Hunting	7.10%	6.60%	6.40%	6.10%	5.90%	5.90%	-1.20%
Rafting/Floating	2.40%	2.10%	2.20%	2.50%	2.90%	3.30%	0.90%
Rock Climbing	4.70%	4.90%	5.40%	5.40%	5.80%	6.40%	1.70%
Cross Country Skiing	3.50%	4.10%	4.40%	5.30%	5.90%	6.50%	3.00%
Canoeing	5.60%	6.10%	6.50%	7.30%	7.90%	8.80%	3.20%
Off-Road Driving	14.80%	15.40%	16.30%	16.40%	17.10%	18.10%	3.30%
Backpacking	10.20%	10.70%	11.70%	11.80%	12.60%	13.60%	3.40%
Snowmobiling	3.00%	3.40%	3.70%	4.70%	5.50%	6.50%	3.50%
Primitive Camping	16.40%	17.20%	18.30%	18.70%	17.30%	20.60%	4.20%
Horseback Riding	7.70%	8.50%	9.30%	10.40%	11.50%	12.70%	5.00%
Fishing	27.50%	29.20%	31.30%	32.50%	34.20%	36.20%	8.70%
Downhill Skiing	10.40%	11.70%	12.60%	14.90%	17.20%	20.20%	9.80%
Developed Camping	25.50%	28.30%	30.90%	33.80%	36.70%	39.70%	14.20%
Motor-boating	22.80%	25.30%	27.50%	30.70%	33.70%	37.10%	14.30%
Biking	31.50%	35.10%	38.50%	42.30%	46.00%	50.20%	18.70%
Hiking	31.10%	34.90%	38.00%	42.60%	46.70%	50.90%	19.80%
Non-pool Swimming	39.70%	43.90%	47.50%	52.40%	57.30%	62.60%	22.90%

Selected Activities	Average Percent of Population Participation						50 Year % Change
	2000	2010	2020	2030	2040	2050	
Picnicking	52.50%	58.20%	63.70%	69.90%	74.40%	78.90%	26.40%
Visiting Historic Places	47.20%	53.10%	58.40%	65.00%	70.80%	75.80%	28.60%
Family Gathering	65.10%	72.20%	78.40%	85.80%	92.60%	99.30%	34.20%
Non-Consumptive Wildlife Activities	59.10%	66.60%	74.10%	81.60%	88.50%	94.10%	35.00%
Walking	70.70%	78.80%	85.50%	93.60%	100.90%	107.00%	36.30%
Visit Beach or Waterside	68.30%	75.70%	82.40%	91.10%	99.50%	106.80%	38.50%
Sightseeing	61.90%	70.60%	79.30%	88.30%	96.40%	103.60%	41.70%

4.10.2 Future Recreation Use Estimates in the UARP Area

In general, visitors to the UARP are either overnight or day users who visit one of the developed UARP recreation facilities or an undeveloped area at or near one of the UARP reservoirs. Most of the visitation to the UARP occurs in the summer and the winter use levels are considerably lower than what occurs in the summer. Between these two main periods of use, visitors continue to visit the UARP but much more infrequently. Visitation between summer and winter tends to be influenced by weather and road conditions which are unpredictable.

The assumptions for developing the projected use estimates (see Table 4.10-9) for developed recreation facilities and dispersed areas include:

- Population has been, is and will be the major driver of outdoor recreation participation growth (Cordell et al 2004).
- Increasing trends in percentage of the population participating in various recreation activities will also contribute to a projected increase in recreation use at the UARP.
- The majority of the visitors to the UARP will continue to come from El Dorado and Sacramento counties proportionate to the expected rate of growth of each of the counties.
- The existing recreation opportunities available at and near the UARP will continue to be available in the future and will not be constrained (e.g. dispersed camping will continue to be a permitted activity on NFS lands).
- The estimates of existing use at the UARP (see Section 4.2 and 4.3) are used as the basis for the projected estimated use at the UARP.

Table 4.10-9. Projected estimated annual recreation use near the UARP through 2050.						
	Existing Use Estimate (R-D)¹	2000-2010	2011-2020	2021-2030	2031-2040	2041-2050
Non-winter Use						
Projection Indices for Developed Camping ²		1.19	1.29	1.41	1.53	1.65
Use Estimate (R-D)	172,795	177,039	222,906	243,641	264,376	285,112
Projection Indices for Picnic and Trailheads ²		1.2	1.31	1.44	1.54	1.63
Use Estimate (R-D)	21,127	25,352	27,676	30,423	32,536	34,437
Projection Indices for Boating (includes Canyonlands) ²		1.22	1.32	1.52	1.69	1.88
Use Estimate (R-D)	55,017	67,121	72,622	83,626	92,979	103,432
Projection Indices for Dispersed Camping Use ²		1.13	1.23	1.27	1.35	1.44
Use Estimate (R-D)	67,555	76,337	83,093	85,795	91,199	97,279
Projection Indices for OHV Use ²		1.10	1.20	1.20	1.26	1.33
Rubicon Trail-OHV	24,750	27,225	29,700	29,700	31,185	32,918
Total Non-Winter Use Estimate (R-D)	341,244	373,074	435,997	473,185	512,275	553,177
Winter Use						
Projection Indices ³		1.23	1.33	1.57	1.74	1.9
Use Estimate ⁴ (R-D)	16,950	20,849	27,729	43,534	75,749	143,923
Total Estimated Projected Annual Recreation Use at the UARP (R-D)	358,194	393,923	463,726	516,719	588,024	697,100

¹Recreation Day= one person for a day or a portion of a day. See Tables 4.5-3, 4.5-4, 4.5-8, 4.5-9, 4.5-10 and section 4.5.4.1 and section 4.6.

²Cordell 1999

³Cordell 1999. Indices for cross-country skiing.

⁴Winter use estimates included are for the Crystal Basin only. Winter use in the Canyonlands was incidental and a separate winter use estimate was not prepared. Existing winter use estimates for the Canyonlands were included in the non-winter dispersed recreation use estimate.

4.11 Inventory for Resource Damage Potentially Related to Recreational Use

4.11.1 Dispersed Sites - High Country

An inventory of dispersed recreation sites was completed at Rubicon and Buck Island Reservoirs in 2002 and 2003 using the methods described in Section 3.3 of the Recreation Supply Technical Report. Dispersed sites are also located at Spider Lake however, since this is not a UARP feature and it is partially located on privately owned land, this water body was not included in the inventory. For informational purposes, the locations of these dispersed sites at Spider Lake, which are mainly accessed by vehicles using the Rubicon OHV Route, are included with the dispersed recreation site locations in Figure 4.11-1.

Rubicon Reservoir

Rubicon Reservoir, located inside the Desolation Wilderness adjacent to the Rubicon Hiking Trail, was inspected on July 15, 2003. Campfires are not allowed in the wilderness however the presence of flat areas that had been cleared of duff, twigs and pine cones, and a few fire rings revealed nine campsites at the reservoir, most of them on the south side of the reservoir. Trash was not observed during the site inspection and the presence of needles and cones covering the previously cleared areas at the dispersed sites indicates that seven of the nine sites had not received use at the of the site inspection. Fire rings at two of the sites had ashes and appeared to have been recently used. Visitors have constructed a rock bench at one site. All of the sites are located 50 to 300 feet from the high water mark of the reservoir. Other than the evidence of campfires at two of the dispersed campsites, resource damage was not observed. Visitors access these sites from the Rubicon Hiking Trail.







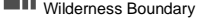

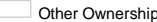


Buck Island Reservoir

Buck Island Reservoir receives a high level of recreation use that is mostly associated with OHV access by way of the Rubicon OHV Route. A site inspection on July 15, 2003 of the shoreline revealed 17 dispersed campsites with some of the sites having multiple campfire rings that seem to be used by groups of visitors. The types of resource damage observed at this reservoir included soil compaction, cut and damaged vegetation, nails and signs in trees, oil and transmission fluid on rocks and soil, carved trees, trash, vehicle tracks off of designated routes, vehicle tracks in streams and wet areas and scorched trees. There are also user-created tables and outhouses and evidence of improperly disposed human and animal waste. Some of the sites are not set back from the shoreline and are located at the high water mark of the reservoir. Fourteen of the sites are accessed by vehicle from the Rubicon OHV Route and three of the sites are accessed from the Rubicon Hiking Trail.

West of the primitive trail that connects the Rubicon Hiking and OHV Routes there is evidence of an informal trail apparently used by hikers to access the shoreline and by SMUD's staff to access UARP structures at the reservoir. The trail appears to only have been used for non-motorized forms of travel such as hiking and possibly mountain bikes.

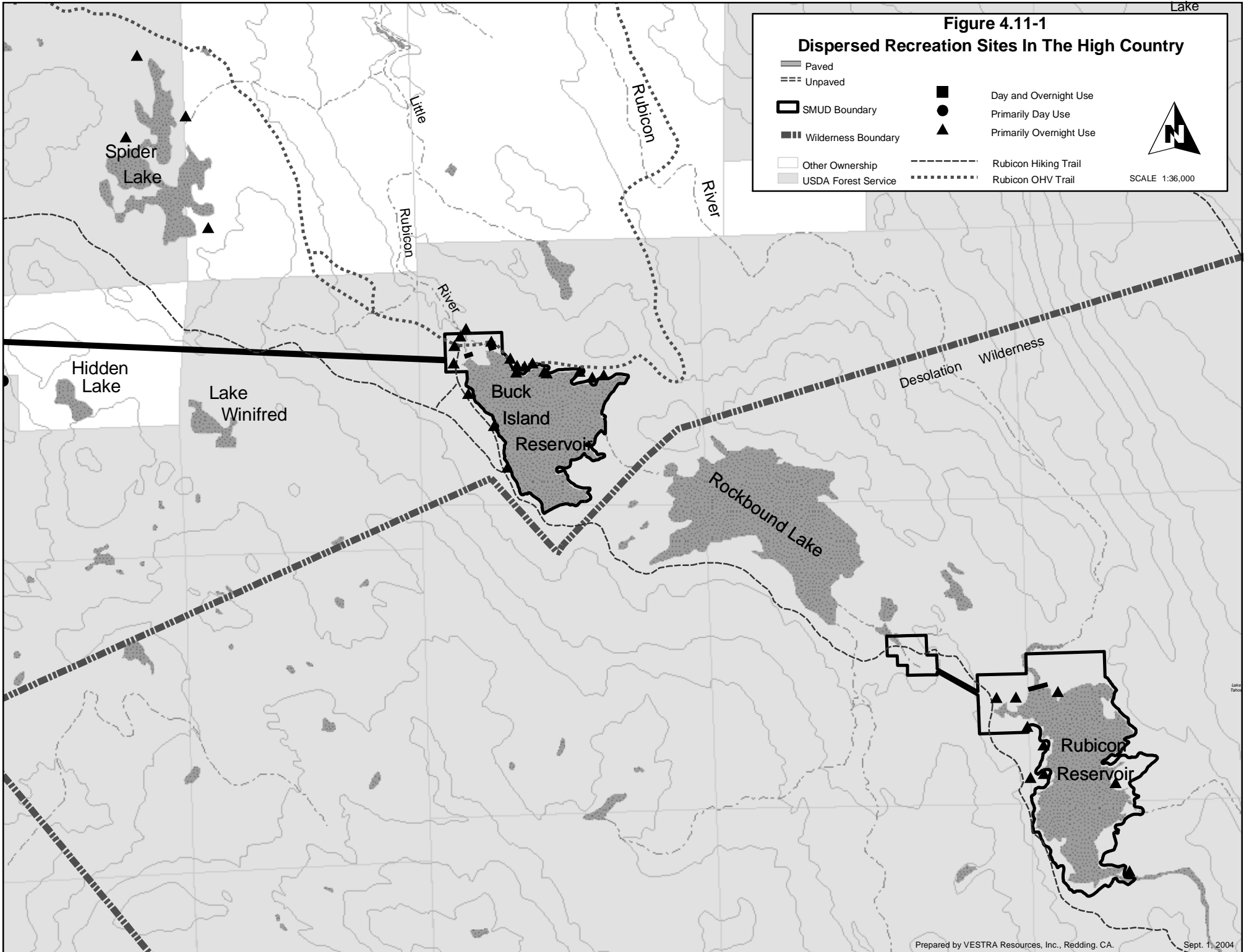
Figure 4.11-1

Dispersed Recreation Sites In The High Country

	Paved		Day and Overnight Use
	Unpaved		Primarily Day Use
	SMUD Boundary		Primarily Overnight Use
	Wilderness Boundary		Rubicon Hiking Trail
	Other Ownership		Rubicon OHV Trail
	USDA Forest Service		



SCALE 1:36,000



River Access

Access to the UARP reaches in the High Country only exists from the Rubicon Hiking Trail and the Rubicon OHV Route. Below Rubicon Reservoir, which is within the Desolation Wilderness, visitors can hike to the reach from the Rubicon Hiking Trail. The Buck Island reach can be accessed by visitors who drive the Rubicon OHV Route, which crosses the reach, or by way of the Rubicon Hiking Trail which is located to the south of the Buck Island dams. There are numerous user created trails leading to the reach immediately downstream of the dams.

4.11.2 Dispersed Sites - Crystal Basin



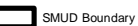

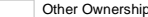




An inventory of dispersed recreation sites was completed in 2002 and 2003 using the methods described in Section 3.3 of the *Recreation Supply Technical Report*. The dispersed recreation sites located during the inventory are shown in Figures 4.11-2 through 4.11-5.


Ice House Reservoir

At Ice House Reservoir overnight dispersed camping is not allowed at the reservoir outside of designated campgrounds (USDA 2003). Despite this restriction overnight camping was observed during site inspections on July 4 and 23, 2002. Along the north shore most of the dispersed recreation use is related to day use activities which occur between Strawberry Point Campground and the inlet of the SF Silver Creek. Resource damage associated with dispersed recreation use at this area includes soil compaction from vehicles driving off of the access road, improperly disposed human and animal waste, trash and vegetation damage. Vehicles driving below the high water mark were observed during the early spring 2003 when the reservoir was low. On the south side of the reservoir five dispersed overnight sites were observed during the site inspections. Resource damage observed at these sites included vehicles driving on roads that are closed to the public, lack of vegetative cover, soil compaction from vehicles traveling to the shoreline, and recently used fire rings in a location where overnight camping is prohibited. Visitors appear to access these sites by driving on roads that are not open to the public and by boat.

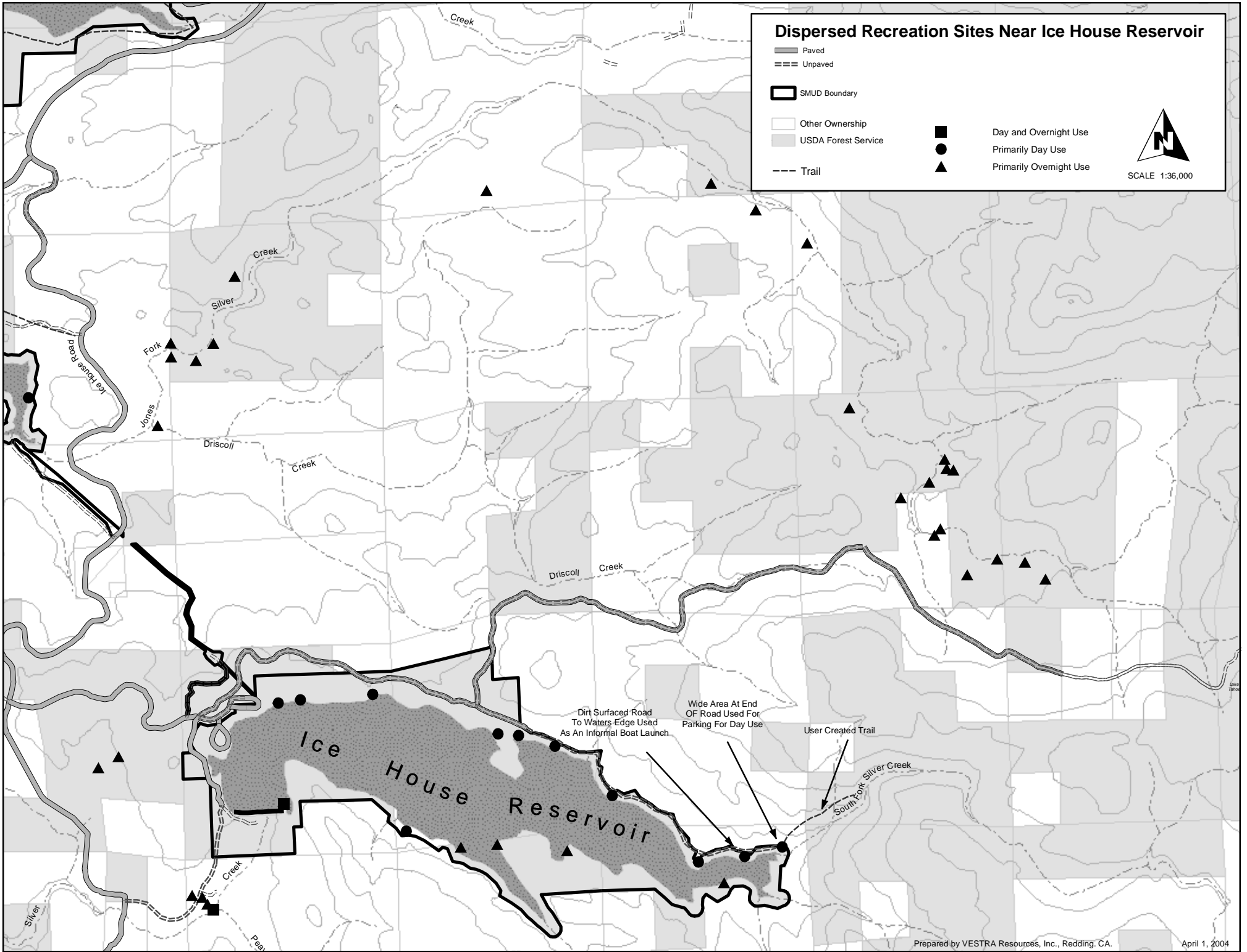
The access road along the north side of Ice House Reservoir is paved between Ice House Road and Strawberry Point Campground. The road is unpaved from the turnoff to Strawberry Point Campground to the end of the road where SF Silver Creek enters the reservoir. At this eastern end of the road there is an open area where vehicles may turnaround and vehicles were observed parked at this location. There is a user-created trail leading from this parking area that parallels the creek and passes through private and public land. Interviews with ENF personnel and whitewater boaters indicate that this route is used for whitewater boating and hiking access to SF Silver Creek. Since overnight use is not allowed, this route provides access for day use activities.

Dispersed Recreation Sites Near Ice House Reservoir

	Paved		Unpaved
	SMUD Boundary		Day and Overnight Use
	Other Ownership		Primarily Day Use
	USDA Forest Service		Primarily Overnight Use
	Trail		



SCALE 1:36,000



Union Valley Reservoir




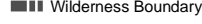
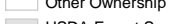
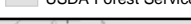




Dispersed use at Union Valley Reservoir includes overnight as well as day use. On the north side of the reservoir the shoreline west and adjacent to the Westpoint boat launch is regularly used during the summer for dispersed camping. This area is flat, compacted and has no vegetation. The access road on the peninsula known as Westpoint was closed to vehicles until 2003. During the field inspection in 2003 there were drivable waterbars and the road was very dusty. Dispersed camping activity was observed in 2003 but resource damage was not observed. Nine dispersed campsites were identified between Westpoint and Camino Cove Campground on the north shore of the reservoir during the 2002 and 2003 site inspections. At these sites it was common to see fire rings, cut and damaged vegetation, compacted soil, lack of vegetative cover, improperly disposed human and animal waste and trash. Vehicle tracks were also observed even though the area is closed to vehicle access. Most of the sites are located too close to the high water mark. Visitors were observed accessing these sites by boat but the appearance of vehicle tracks and vehicles observed at some of these sites indicates that some visitors are inappropriately accessing these sites from routes that are closed to vehicles. The field staff conducting surveys for the Visitor Use and Impact Study encountered both day users as well as overnight campers at these sites.

Along the shoreline in the vicinity of the Jones Fork and Sunset campgrounds, there are several user-created trails that visitors use for pedestrian access the shoreline. Some of the trails appeared steep and did not have waterbars to prevent erosion. OHV tracks were observed that lead to the shoreline in the Jones Fork arm of the reservoir and along the shoreline across from the Sunset boat launch. These are areas not open to vehicular access for the public but apparently some visitors access these areas by vehicle. The areas where there are foot trails leading to the reservoirs are mostly connected to the campgrounds, day use areas and boat launch locations where visitors travel to the waters edge from parking areas, campground or day use areas.

Dispersed overnight and day use was also observed along Tells Creek upstream of Union Valley Reservoir. Resource damage observed at this location on June 23, 2003, included trash, improperly disposed human and animal waste, graffiti on rocks and a user-made pit toilet. Visitors access this area with vehicles by a short, steep, and narrow unpaved road that intersects Ice House Road just west of Tells Creek.

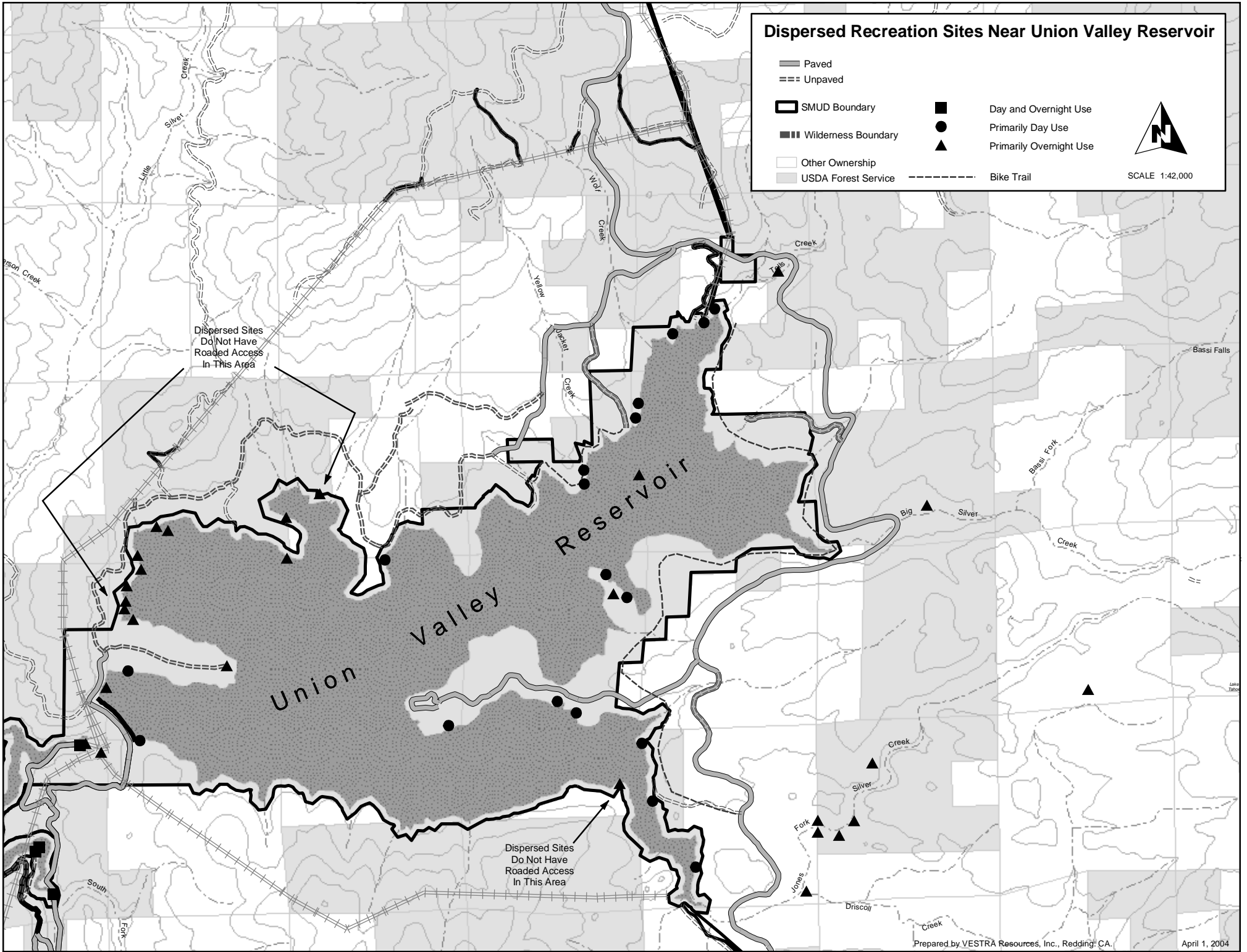
Dispersed recreation use has also been popular on Big Silver Creek and Jones Fork Silver Creek, which are two tributaries to Union Valley Reservoir. These sites are not within the UARP boundary and they are located approximately one to five miles away from the reservoir. These sites were identified by the ENF as having recreational use potentially related to the UARP. The ENF has accomplished watershed restoration efforts at both of these locations including road closures, signage, barriers, ripping, and mulching. These watershed restoration projects were accomplished in 2002 and 2003 and these actions have been largely successful in reducing vehicle access near the creeks and on sensitive slopes. Visitors are allowed to access the sites by foot but restricting vehicle access has reduced dispersed overnight camping at these locations.

Dispersed Recreation Sites Near Union Valley Reservoir

-  Paved
-  Unpaved
-  SMUD Boundary
-  Wilderness Boundary
-  Other Ownership
-  USDA Forest Service
-  Day and Overnight Use
-  Primarily Day Use
-  Primarily Overnight Use
-  Bike Trail



SCALE 1:42,000



Union Valley Reservoir was identified as an area where water quality may be affected by such high recreational use. Fecal coliform levels were high at Union Valley Reservoir near Camino Cove Campground, Fashoda Beach, and Jones Fork Campground during sampling periods with high recreational activity. However, these levels diminished in subsequent sampling efforts when there was lower recreational activity occurring in the respective areas.

Gerle Creek Reservoir





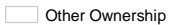





Dispersed overnight recreation use associated with the Gerle Creek Reservoir mainly occurs upstream of the reservoir along the east bank of Gerle Creek. There are signs informing visitors that overnight use is restricted to developed campgrounds along the shoreline of Gerle Reservoir (USDA 2003). Despite this restriction two dispersed overnight campsites were located between the Angel Creek Day Use Area and Angel Creek during the 2002 site inspections. One party occupying one of the sites during the site inspections had apparently accessed the site by boat. The proximity of one site to the parking area for the Angel Creek and indications of a footpath to the site indicate that visitors may access the site by foot from the parking area. The sites were identified by the presence of rock fire rings and they had been recently used. Although overnight use is not allowed at this location, resource damage was not observed at the overnight sites that were identified. A user-created trail extends from the Angel Creek Day Use Area to near the Loon Lake Tailrace where it enters Gerle Creek Reservoir. The trail does not appear to get much use; some areas were overgrown with vegetation and there were branches and duff observed on the trail. Although the trail is user-created, resource damage was not observed.

The area on the opposite side of Gerle Creek from Airport Flat Campground receives heavy overnight use and OHV use was regularly observed in this location during the 2002 and 2003. The area is flat and open and users drive and park their vehicles, trailers and OHV's throughout the area. This has resulted in considerable soil compaction, lack of vegetative cover at this site and there are numerous user-created fire rings. Some overnight dispersed campsites are located within 100 feet of the streamcourse. Trash and toilet paper were also obvious throughout the site. Visitors access this area by vehicle by way of Wentworth Springs Road.

On Gerle Creek just downstream of Wentworth Springs Road the ENF has implemented a road closure and installed rock barriers to control dispersed overnight use along the east shore of Gerle Creek upstream of Gerle Reservoir. These measures have effectively eliminated overnight use in sensitive streamside areas and only minor amounts of trash were observed at the site visit during the summer of 2003. The areas that remain open for dispersed camping are accessed by an unpaved road that connects to Wentworth Springs Road.

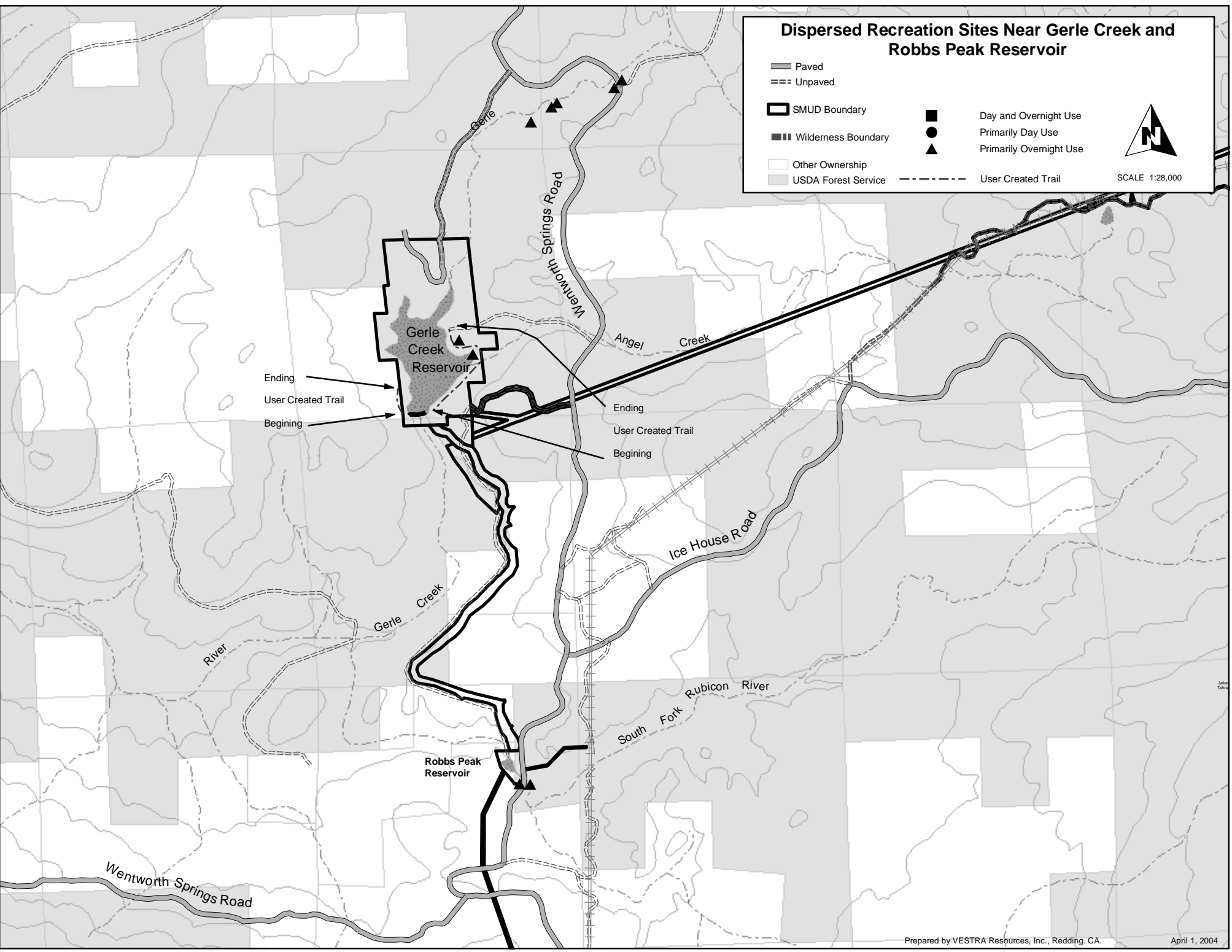
Most of the day use activity at the reservoir occurs at or near the developed day use areas (Angel Creek and Gerle Creek) and along the shoreline where the Harvest Trail is located.

Dispersed Recreation Sites Near Gerle Creek and Robbs Peak Reservoir

-  Paved
-  Unpaved
-  SMUD Boundary
-  Wilderness Boundary
-  Other Ownership
-  USDA Forest Service
-  Day and Overnight Use
-  Primarily Day Use
-  Primarily Overnight Use
-  User Created Trail



SCALE 1:28,000



Dispersed recreation sites in this vicinity were also located at Robbs Peak Reservoir along Ice House Road. Anglers were observed at the reservoir during the study and overnight campers were observed at two nearby locations; one site on either side of Ice House Road where it crosses the SF Rubicon River. Fire rings and some trash were observed and the sites are located about 100 feet from the watercourse.

Loon Lake Reservoir

Dispersed overnight and day use occurs around most of the shoreline at Loon Lake. The most heavily used portion of the shoreline was observed between the two main dams, which includes about two miles of shoreline. This is a popular place for overnight dispersed camping, especially for groups of visitors. The types of resource damage observed along this portion of the shoreline includes fire rings too close to the highwater mark, trash, oil and transmission fluid on rocks and soil, trash, cut and damaged vegetation and improperly disposed human waste. The flat terrain allows visitors to drive their vehicles into many areas along the shoreline. The widespread use of vehicles along this portion of the shoreline has caused wide-spread soil compaction and a lack of ground cover. Visitors using these areas contribute to overflowing trash bins located at nearby campgrounds and at Robbs Valley Resort. Dispersed recreation visitors adjacent to the Northshore RV Campground also use the restrooms at the campground. There is also an unpaved road near the dam across Rocky Basin that visitors use to launch boats. This route allows visitors to drive their vehicles to the shoreline. No erosion was observed at this area but there is widespread compaction and lack of ground cover.

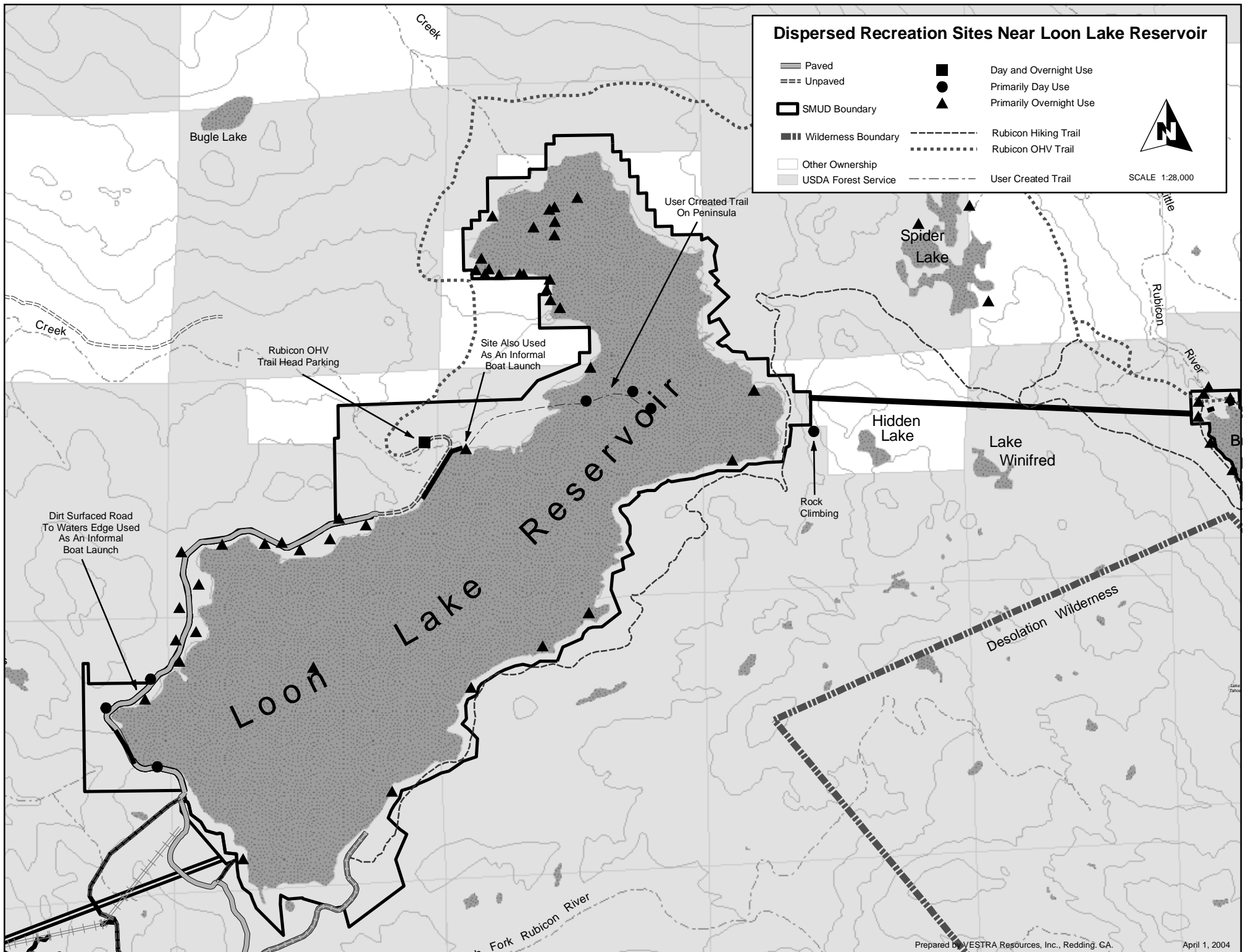
There are several islands on the reservoir that are also used for dispersed overnight and day use. It was common to find fire rings along the shorelines, trash and toilet paper scattered on the islands. In the south portion of the reservoir, as many as seven fire rings were observed on the largest island. The peninsula that extends along the south side of the area of the reservoir known as Pleasant Lake has approximately 10 dispersed overnight sites and there is a user-created trail between the end of the peninsula and the spillway. Some of the fire rings are too close to the shoreline. The user-created trail did not appear to be causing any resource damage. However, dirt bike tracks were observed along the peninsula and vehicle tracks were observed on the north side of the peninsula. Other resource damage noted in this area included painted graffiti on rocks, user-created tables and shelves nailed to trees, and large driftwood logs buried vertically along the shoreline to serve as tie-up points for boats. During the site inspections, visitors paddling flat water kayaks were also observed accessing this area; they appeared to be day users. The sites located on islands in the reservoir can only be accessed by boat. The sites on the peninsula appear to be accessed by boat and foot by way of the user-created trail; occasionally visitors appear to access this area inappropriately by vehicle.

Along the west shoreline of the area of the reservoir known as Pleasant Lake and the inlet of Ellis Creek, OHV use had been prevalent until the ENF constructed barriers and posted the area closed to OHV use in 2002. This watershed restoration project was implemented to reduce resource impacts at and near the shoreline. Restoration of the area was completed by obliterating user created trails, falling trees to block user created routes and mulching with straw. These efforts have curtailed OHV use that had caused widespread soil and vegetative damage in the

past. A site inspection in 2003 revealed that the ENF measures have been largely successful in curtailing inappropriate recreation activities along this portion of the shoreline. A few areas with vehicle tracks and moved boulders were observed which indicates that some visitors are not complying with the closure. During the site inspection 18 dispersed overnight campsites were identified in this area of the reservoir shoreline. Most of these sites had evidence of vehicle tracks leading to them however, vehicular access seems to have been recently eliminated with the ENF actions. These sites are also accessible by boat however since most of these sites are located upslope from the shoreline, it is uncertain whether boaters will now access these sites for overnight use.

Along the northern shoreline near the Pleasant Campground and the Loon Lake Tunnel there are a few sites that visitors apparently use for boat-in camping. Occasional trash and toilet paper was observed at these sites. There is also a large dispersed overnight use site just north of the Loon Lake Tunnel. This site has one fire ring that is too close to the shoreline and one fire ring adjacent to a wet, marshy area. There is also a user created sign nailed in a tree at the site. There are foot paths within the site that have been leveled and lined with rocks. It appears that the path in the site extends to the Rubicon Hiking Trail and that visitors may access this site by from the Rubicon Hiking Trail as well as by boat.

Between the Loon Lake Tunnel and the Loon Lake Campground five sites used for overnight dispersed camping were located. Most of the fire rings along this portion of the shoreline were within 100 feet of the high water mark. At least two of the sites with multiple fire rings have inadequate vegetative clearance that is necessary for a safe campfire. Some trash was observed at these sites. Visitors appear to be accessing these sites by boat. The Rubicon Hiking Trail is not far from this portion of the shoreline however foot paths leading from the sites were not found during the site inspections.



4.11.3 Dispersed Sites-Canyonlands

An inventory of dispersed recreation sites was completed in 2002 and 2003 using the methods described in Section 3.3 of the *Recreation Supply Technical Report*. The dispersed recreation sites located during the inventory are shown in Figures 4.11-6 and 4.11-7.

Slab Creek Reservoir

At the upper end of Slab Creek Reservoir near the bridge on the Forebay Road (a paved road) there are numerous fire rings along the north side of the reservoir. These sites are located along an unpaved access road that is approximately one-quarter to one-half mile long. The end of the access road terminates at the waters edge and allows access for visitors to launch small boats; this is the transition point between the SFAR and Slab Creek Reservoir. At the highest reservoir elevation the watercourse at this access point has a downstream current. Even at the highest reservoir levels, there is still a noticeable current present at the access point. As the reservoir level recedes, more of the river channel is exposed creating a longer distance of flowing river channel between the access site and the flatwater of the reservoir. This condition has created two types of problems for visitors who have launched boats from this site. First, flatwater paddlers have had difficulty paddling against the current to return to their vehicles after using this site to access the reservoir. This situation is exacerbated if the reservoir elevation lowers during the visitors' time on the reservoir and exposes more of the river channel. Lower reservoir elevations also expose more rocks and obstacles that are barriers to navigating the SFAR in this area. Boaters who launch while these features are inundated may have difficulty navigating back to the access site later in the day if the reservoir level lowers and these barriers become exposed.

Resource damage that was observed at this site included fire rings and vehicle use occurring too close to the shoreline, deep ruts caused by OHV or 4-wheel drive vehicles on steep slopes, user-created pit toilet at the waters edge, graffiti, trash, and damage to riparian vegetation. Visitors have repeatedly used one area, for target practice as evidenced by an accumulation of shell casings and various targets including an old microwave and a computer terminal. During the site inspection in 2002, one visitor had an active campfire during the fire season when a Forest Closure Order was in effect that prohibited campfires outside of developed recreation facilities.

At the lower end of Slab Creek Reservoir near the dam, there is an access road leading to the waters edge that allows access for launching small boats. The road is unpaved and narrow with a small area where vehicles can turn around. Vehicles would likely need to be unhitched from trailers in order to turn around at this location; long trailers could not be used at this access point. There is a fire ring at this location, an accumulation of shell casings, paint on rocks and a rope swing tied in the tree at the shoreline. Trash was also observed at this site. Near the dam at the intersection of the roads that lead to the dam and the informal boat launch, the presence of shell casings, a fire ring and trash indicate that dispersed recreation use also occurs at this location.

The ENF recently issued a permit for commercially guided paddling trips on Slab Creek Reservoir. The permit holder uses the upper end of the reservoir as a launch site and the group of paddlers traverses the reservoir to the informal boat launch near the dam where the visitors

end their trip. The permit holder provides a shuttle service for visitors so they do not need to paddle against the current at the upstream end of the reservoir. Ron Hancock, Placerville Recreation Officer for the ENF has paddled the reservoir and stated that there are few areas suitable along the shoreline for getting out of boats to hike, explore or camp; the limiting factor was steep slopes. One suitable area was identified where Brush Creek enters Slab Creek Reservoir.

Brush Creek Reservoir

Dispersed day and overnight recreation use occurs at the informal boat launch that is located near the dam. Evidence of past campfires was observed at this location and at a second site approximately 100 yards downstream of this location. Vandalism was also observed near the intake structure. Vehicles can access this reservoir by paved roads but the road between the SFAR and the reservoir is very narrow and there is a steep drop on the downhill side of the road. Access to the shoreline of this 20 acre reservoir is limited to the area near the informal boat launch because of steep slopes. There are reports of dispersed campsites on the north end of the reservoir which SMUD will review in 2004. The ENF reports that during routine patrols on July 4, 2003 that they observed all of the available area for parking at the access road to the reservoir was filled. In March 2004 the ENF also reported seeing two anglers in a small boat with an electric motor using the reservoir; they had apparently caught several fish. The visitors also stated that they resided in the Placerville area and have fished at Slab Creek Reservoir in the past.

Dispersed Recreation Sites Near Slab Creek, Brush Creek and Camino Reservoir

— Paved
 - - - Unpaved

▭ SMUD Boundary

▬ Wilderness Boundary

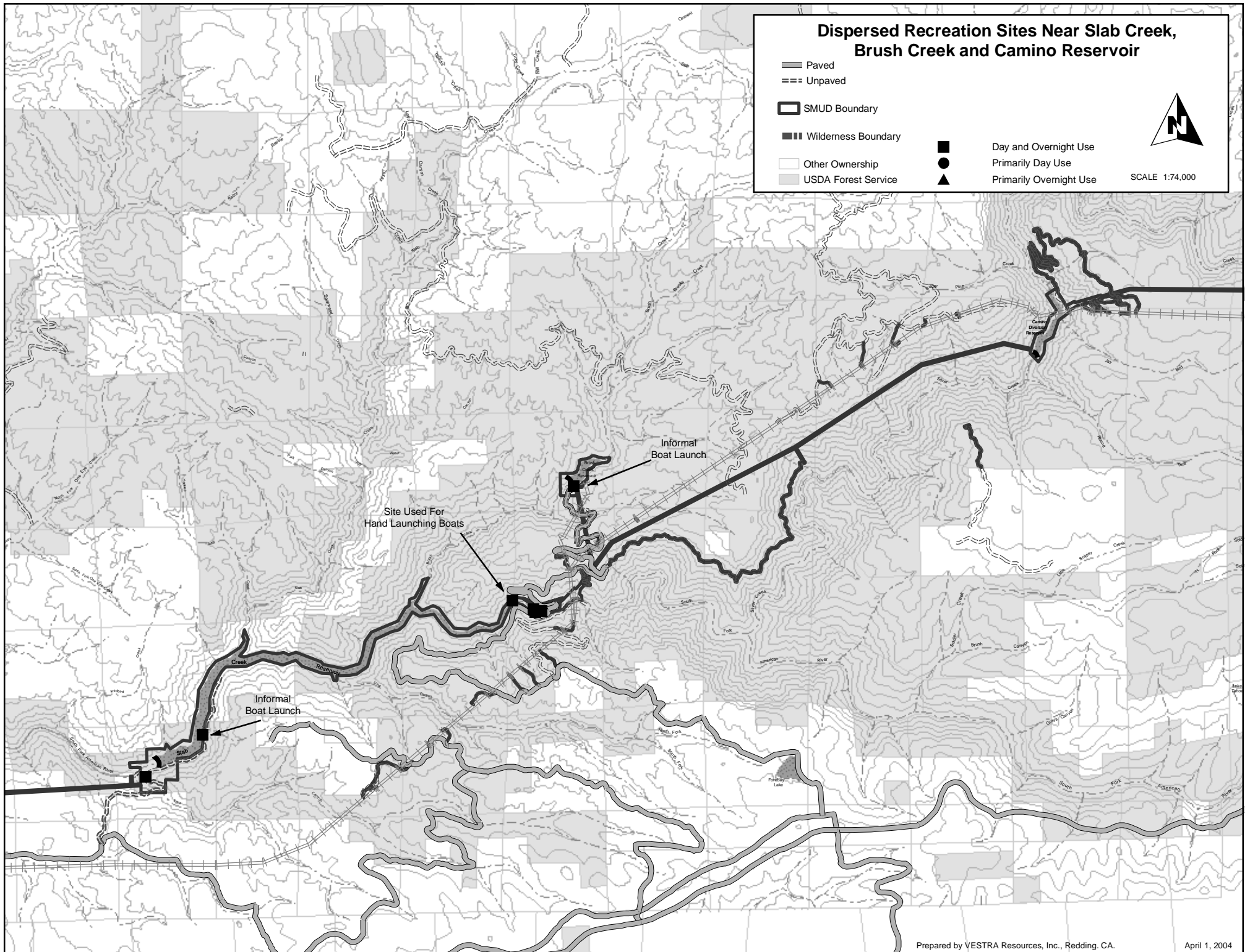
□ Other Ownership

■ USDA Forest Service

■ Day and Overnight Use
 ● Primarily Day Use
 ▲ Primarily Overnight Use



SCALE 1:74,000





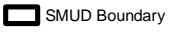
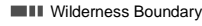
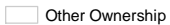




Junction Reservoir

Dispersed day and overnight recreation use occurs at the informal boat launch that is located near the inlet of the SF of Silver Creek. Three fire rings were located and trash was observed both in the fire rings and the surrounding area. Two of the fire rings are located close to the shoreline and the third is located on a bench more than 100 feet from the shoreline. The access road has an aggregate base, it is in good condition and erosion was not observed.

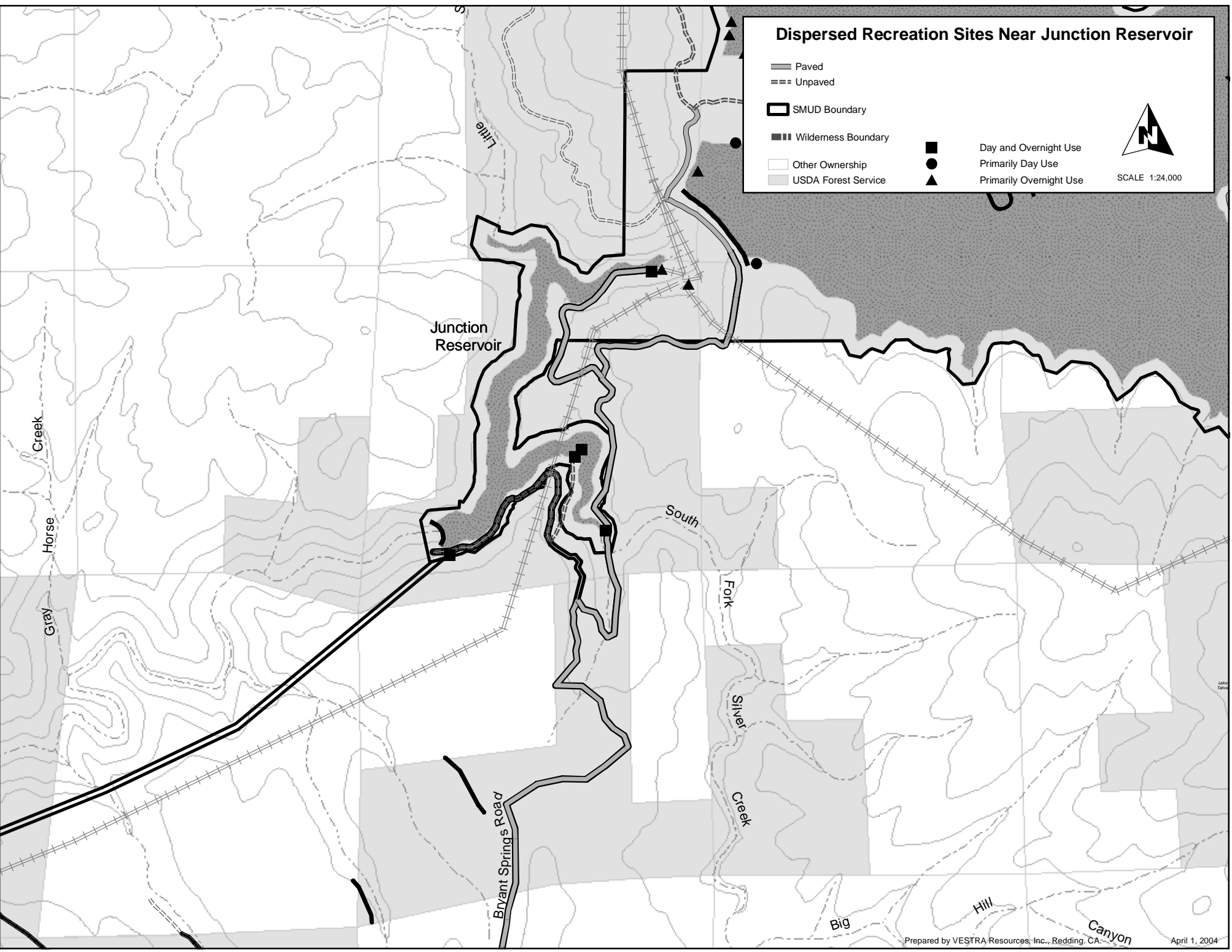
A second dispersed site is located at the end of the access road to the dam where evidence of campfires was observed. Visitors can access this area by vehicle on the aggregate surfaced road. There are anecdotal accounts from the ENF and SMUD's operations staff that visitors hike from this location to Silver Creek below the Junction Dam for day use activities such as swimming and fishing.

There is also a dispersed use site with fire rings located downstream from where Bryant Springs Road crosses SF Silver Creek. This is near where SF Silver Creek enters Junction Reservoir. The site has been accessed by vehicles in the past but the short access road to the site has been blocked with large granite boulders. Located adjacent to Bryant Springs Road this site is accessed by foot from the road by visitors for both day use activities such as picnicking and stream fishing as well as overnight use.

Dispersed Recreation Sites Near Junction Reservoir

	Paved
	Unpaved
	SMUD Boundary
	Wilderness Boundary
	Other Ownership
	USDA Forest Service
	Day and Overnight Use
	Primarily Day Use
	Primarily Overnight Use

SCALE 1:24,000



Camino Reservoir

Public vehicle access is not permitted beyond the gate near the Jaybird Powerhouse. A sign next to the gate informs visitors that boats are not allowed on Camino Reservoir due to safety reasons. SMUD’s operations staff report that occasionally they have observed a car parked in the area and some anglers may walk past the gate and fish in the reservoir from the shoreline in the vicinity of the access road.

4.12 Creel Surveys

4.12.1 Effort and Catch Data

4.12.1.1 Union Valley Reservoir

One hundred thirty nine anglers were surveyed during the spring at Union Valley Reservoir regarding their creel. One hundred five of the anglers utilized a boat during their efforts while 34 were fishing from the shoreline of Union Valley Reservoir. Anglers indicated they had fished for 722 hours and captured 278 fish, 47% of which were kept and 53% were released. Overall the spring anglers captured 0.39 fish per hour and 2.00 fish per angler. Anglers utilizing boats captured 233 fish while shore anglers captured only 45 fish. However, 57% of the fish captured by shore anglers were kept vs. 45% of all fish captured by boat anglers. While it is not indicative of angler success based on time of day, the Licensee did conduct morning and afternoon creel surveys. Anglers interviewed during the morning survey period captured 0.41 fish per hour, while the afternoon anglers captured 0.35 fish per hour.

Table 4.12-1 indicates that rainbow trout were the most often caught, kept and released species at Union Valley Reservoir, while kokanee and small mouth bass were the second and third most often caught species, respectively.

Table 4.12-1. Kept and released species counts at Union Valley Reservoir during the Spring Creel Survey

Species	Overall #of fish		Boat Anglers		Shore Anglers	
	Kept	Released	Kept	Released	Kept	Released
Small Mouth Bass	3	44	2	44	1	0
Rainbow Trout	62	52	51	48	11	4
Kokanee	39	19	27	4	12	15
Lake Trout	9	24	8	24	1	0
Brown Trout	12	1	11	1	1	0
Trout (general)	6	7	6	7	0	0

Lake trout were the largest species captured, averaging 425mm or 17 inches. Small mouth bass and brown trout were the second and third largest species captured, averaging 314mm or 12 inches and 311mm or 12 inches. Boat anglers reported catching, on average larger fish than shore anglers 297mm (12 inches) vs. 252mm (10 inches).

During the fall creel survey only 18 individuals were surveyed. Thirteen of those interviewed utilized a boat while fishing and only five fished from the shore of Union Valley Reservoir. Eleven fish were caught, translating to 0.61 fish per angler (three fish by shore anglers and eight by boat anglers). Seventy three percent of all fish caught were kept and 27 % were released. Anglers reported 78.5 hours fished equaling an overall catch rate of 0.14 fish per hour. Shore anglers caught 0.26 fish per hour while boat anglers had a catch rate of 0.12 fish/hour. Anglers interviewed during the afternoon survey period had a catch rate of 0.18 fish per hour while the anglers interviewed during the morning period was 0.09 fish per hour.

Six of the eleven fish captured during the fall creel surveys were reported to be rainbow trout; four were brown trout and one unknown trout species. Only two of the rainbow trout and the one unknown trout species were released.

The average length of all fish caught during the fall survey period was 337mm (13 inches). Brown trout were the largest species captured at 369mm (15 inches) and rainbow trout averaged 305mm (12 inches).

4.12.1.2 Ice House Reservoir

One hundred seventy one anglers were interviewed during the spring survey period, 87 of which utilized a boat and 84 fished from the shoreline of Ice House Reservoir. Anglers reported they had fished for 761 hours and caught 112 fish for a catch rate of 0.15 fish per hour and 0.65 fish per angler. Sixty nine percent of all fish caught were kept. Anglers using boats caught 67% of all fish reported and kept 75% of their catch. Shore anglers caught 33% of all fish reported and kept 57% of their catch.

Anglers interviewed during the afternoon period had a catch rate calculated at 0.11 fish per hour while morning anglers experienced a catch rate of 0.18 fish per hour. Boat anglers interviewed during the morning period caught 42% of all fish reported during the spring survey period.

Rainbow trout were the most often caught species of fish at Ice House Reservoir. Overall rainbow trout accounted for 73% of all fish captured, brown trout accounted for 24% of the captured fish, lake trout and unknown trout species made up less than 3% of the total number of fish caught.

The average length of all fish kept at Ice House Reservoir was 295mm (12 inches). The largest species was the lake trout at 356mm (14 inches), second largest were brown trout at 322mm (13 inches) and the average length for rainbow trout measured 286mm (11 inches). The average boat angler's creel measured 45mm (1 inch) longer than that of the shore anglers.

During the fall interview period only ten anglers were interviewed, two fished from the shoreline while 8 used boats for a total of 47 hours. The two shore anglers had only fish for seven hours prior to being interviewed. Only five fish were caught, all by anglers using boats. Angler success was calculated to be 0.50 fish per angler and 0.11 fish per hour. Only one fish was released.

Boat anglers interviewed during the morning interview period caught three fish, while the afternoon interviews of boat anglers revealed two fish were caught.

All five of the reported fish were rainbow trout and averaged 302mm (12 inches).

4.12.1.3 Loon Lake Reservoir

One hundred and sixteen anglers were interviewed during the spring survey period at the Loon Lake boat launch facility, 82 of which fished from boats, while 34 fished from the shoreline of Loon Lake. The anglers reported that they had fished for 611 hours prior to being interviewed and caught 105 fish during that time. Anglers using boats indicated that they had been fishing for 536 hours versus 75 hours reported by those fishing from the shoreline of Loon Lake. Overall the catch rate was calculated to be 0.17 fish per hour and 0.91 fish per angler. Eighty four percent of the 105 fish caught were kept and 17% were released. Boat anglers caught significantly more fish than shore anglers (98 vs. 7), however, all fish caught by shore anglers were kept.

Overall the difference between those anglers interviewed in the morning vs. afternoon was very small. Morning interviews yielded a slightly higher catch rate at 0.18 fish per hour and afternoon interviews indicated a success rate of 0.16 fish per hour. The greatest difference between morning and afternoon anglers success was found within the shore angler group. Shore anglers interviewed during the afternoon period reported a catch of zero fish. Interviews of boat anglers during the morning period indicated that they had caught 11 more fish than those interviewed during the afternoon period (46 vs. 35).

Fifty eight rainbow trout and 47 brown trout were caught at Loon Lake during the spring creel survey. All seven of the fish caught by shore anglers were identified as rainbow trout, the remaining 51 rainbow trout and all 47 brown trout were caught by anglers using boats.

The average length of all kept fish was 329mm (13 inches). Brown trout averaged 364mm (14 inches) and rainbow trout averaged 299mm (12 inches). Fish caught along the shoreline were reported to be only 7mm larger than those caught by anglers using boats.

Eleven anglers (all using boats) were interviewed at the Loon Lake boat launch facility during the fall interview period. The anglers indicated that they had fished for 72.5 hours prior to being interviewed and caught 13 fish during that time. Angler success was calculated at 1.18 fish per angler and 0.18 fish per hour. All fish caught were kept.

Those anglers interviewed during the afternoon period were more successful than the anglers interviewed during the morning period (0.21 fish per hour and 2.5 fish per angler vs. 0.13 fish per hour and 1.1 fish per angler). However, only two anglers were interviewed during the afternoon period.

Eighty five percent of all fish caught were brown trout and the remaining 15% were rainbow trout. The average length of fish caught during the fall creel survey was 328mm (13 inches). Rainbow trout were on average 23mm larger than the brown trout.

4.12.2 Qualitative Data

General Angler Background Gathered from the Survey

Only one person per fishing party was asked questions concerning their overall fishing experience. A total of 204 responses were gathered; Ice House Reservoir had the greatest number of respondents with 87, Union Valley Reservoir was second with 71 and at Loon Lake 46 individuals were interviewed. Ninety one percent of all respondents were interviewed during the spring. Eighty eight percent of respondents were male and only 12% female. Ice House Reservoir had the largest percentage of female respondents at 13%. While the design of the study split the survey schedule between week days and weekends at 37.5 and 62.5% respectively only 27% of the respondents were surveyed during the week day.

Anglers visiting Ice House, Union Valley and Loon Lake Reservoirs provided interviewers with their zip code. Based on zip codes a majority of the respondents indicated that they were from either El Dorado County (48%) or Sacramento County (34%). Anglers from Placer County and the Bay Area represented only ten percent of all anglers interviewed (five percent each), and the remaining eight percent of anglers represented Yolo County, Northern California, the central valley, were from out of state or chose not to provide their zip code.

Of the 204 anglers interviewed, 125 chose to use boats while 76 fished from the shoreline. Ice House Reservoir was evenly split between boat anglers and shore anglers (51% and 49% respectively), while 72% of all anglers at both Union Valley and Loon Lake Reservoirs fished from boats and 28% fished from the shoreline.

Angler Survey Responses

Anglers answered three questions relating to their fishing experience at Union Valley, Ice House and Loon Lake Reservoirs.

Question one asked if the angler was satisfied with their fishing experience. Anglers responded with Yes, No or No opinion. If the angler responded “no,” they were asked to explain why they were not satisfied. Overall 85% (174 anglers) of all anglers interviewed were satisfied with their experience, 13% (27 anglers) were not satisfied and less than two percent had no opinion or no response to the question. There was virtually no difference between responses from anglers at different reservoirs. For instance, 83% of the anglers at Loon Lake Reservoir were satisfied with their experience, while 87% of the anglers at Union Valley Reservoir were satisfied. The same is true for anglers who were not satisfied. Thirteen percent of all anglers at both Union Valley and Loon Lake reservoirs were not satisfied with their experience while 14% of those interviewed at Ice House Reservoir were not satisfied with their fishing experience.

When asked why they were not satisfied with their experience the angler provided 27 different responses that have been coded into three different categories (Table 4.12-2). Overall 20 of the 27 respondents cited the quality of fishing or not catching fish as the main reason for not having a satisfying experience, while the remaining 7 individuals noted weather, water temperature, reservoir elevation, recreationists, or children as the reasons behind their dissatisfaction.

Response	Reservoir					
	Ice House		Union Valley		Loon Lake	
Did not catch fish	8	67%	3	37%	3	44%
Fishing was poor	3	25%	1	13%	2	28%
*Other	1	8%	4	50%	2	28%
Total	12	100%	8	100%	7	100%

*Responses under other are as follows
 1. Should not allow jet skiers in lake. (Union Valley)
 2. Not enough water. (Union Valley)
 3. Not yet. Being here is good; catching is a bonus. (Loon Lake)
 4. Water is too high. (Union Valley)
 5. Water temp too cold for fishing right now. (Ice House)
 6. We were counting on a little better weather. (Union Valley)
 7. Working with kids. (Loon Lake)

Question number 2 focused on shoreline access to the reservoir and improvements necessary to make access easier, safer or more enjoyable (Table 4.12-3). Collectively 73% of the 204 respondents felt that no improvements are necessary, while 26% indicated that they would like to see improvements in access and one percent had no response or opinion. If each of the reservoirs are analyzed separately, 86%, 94% and 87% of the respondents at Ice House, Union Valley, and Loon Lake reservoirs, respectively, feel that no improvements are necessary to make access to the shorelines of the reservoirs easier, safer, or more enjoyable. Fourteen percent, 7%, and 12% of the respondents at Ice House, Union Valley, and Loon Lake reservoirs, respectively, felt that improvements are necessary to make access to the shorelines of the reservoirs easier, safer, or more enjoyable. Zero respondents at Ice House Reservoir had no opinion or response to the question, while less than one percent of the respondents at Union Valley Reservoir and three percent of the respondents at Loon Lake Reservoir had no opinion or no response to the question.

Reservoir and Response	Are Improvements needed to make access to the shoreline of this reservoir		
	Easier?	Safer?	More Enjoyable?
Ice House			
Yes	22	3	12
No	65	84	75
No Opinion	0	0	0
No Response	0	0	0
Total	87	87	87

Table 4.12-3. Responses regarding reservoir access.			
Union Valley			
Yes	3	5	6
No	67	66	65
No Opinion	1	0	0
No Response	0	0	0
Total	71	71	71
Loon Lake			
Yes	4	5	8
No	40	39	36
No Opinion	0	0	0
No Response	2	2	2
Total	46	46	46

Table 4.12-4 shows lists the improvements that respondents feel are necessary at each reservoir to make access easier, safer and more enjoyable. While the responses are varied between reservoirs, seven suggestions were repeated at two or more of the reservoirs.

Table 4.12-4. Respondent's suggestions for improvements at Ice House, Union Valley and Loon Lake Reservoirs.			
Response	Easier	Safer	More Enjoyable
Ice House Reservoir			
Improvements for seniors or disabled	2		
Keep water levels up	1		
Pave trail to shoreline	1		
More fish	1	1	3
Greater road access	3		
More boat ramps	1		
Put docks in water sooner	7	1	
More trails	1		1
Enlarge/Modify boat ramp	1		
Improve roads	1		
Don't allow parking by boat launch	1	1	
Cleaner bathrooms	1		
More access to shoreline	1	1	
Improve access to lake from parking lot	1		
Rail on Floating dock	1		
Better regulate speeds on access roads		1	
Closer parking			1
Put in snack bar			1
Bigger fish			1
Don't allow jet skiers on lake			1
Put in more trash cans			1
Erect 'pick up your trash' signs			1
Union Valley Reservoir			
More sand/Less rocks			1
More fish			1
More trails		1	1
Enlarge/Modify boat ramp	2	1	
Trail from Campground to shore	1		

Table 4.12-4. Respondent's suggestions for improvements at Ice House, Union Valley and Loon Lake Reservoirs.			
Response	Easier	Safer	More Enjoyable
Union Valley Reservoir			
Put up no shooting signs		1	1
Mark the rocks		1	
Handicap parking on dock is hard when water is low		1	
More picnic or day-use areas			1
Clean up the area more			1
Loon Lake Reservoir			
More Docks	1		
Improvements for seniors or disabled		3	
More sand/Less rocks	1		1
More fish			2
Improve roads		1	
More access to shoreline	1		
Control number of people		1	1
5 mph boat speed limit near ramp		1	
Improve the bathrooms			1
Provide law enforcement			1
Build showers			1

The final question of the survey regarding the angler's experience focused on the water level of the reservoirs, specifically, whether or not it allowed the angler to participate in their activities. For those individuals who identified the water level as impacting their experience, they were asked to what degree the water level impacted their experience and what were the specific impacts resulting from the reservoirs water level. Ninety five percent of the 204 anglers said that the water level of the reservoir allowed them to participate in the activities they had planned, while only five individuals indicated that the water level did not allow them to participate in the activities they had planned. Furthermore, five respondents had either no opinion (one respondent at Ice House Reservoir) or no response (4 respondents at Loon Lake Reservoir).

Of the five individuals who indicated that the water levels had an impact upon their ability to have the type of experience they had planned, one was interviewed at Ice House Reservoir and the remaining four at Loon Lake Reservoir. The individual at Ice House indicated that the impact to his activity was "minimal" and that he, "just likes it when there is more water."

Of the four respondents at Loon Lake Reservoir who indicated that the water level did not allow them to participate in their recreational activities one indicated the degree of impact was "minimal," two indicated the impact was "moderate" and one said the impact was "significant." All four of the Loon Lake Reservoir respondents indicated that the impact resulted from the water level being too high. However their answers regarding how the water level impacted their trip differed. Two said they were not able to access their normal fishing site, one said that the fishing is just not that great when the water is high and one said that the high water makes it difficult to catch fish.

5.0 FINDINGS

The following section presents broad statements of findings for the study. The findings primarily relate to the issue questions developed for the relicensing effort that are addressed by the Visitor Use and Impact Study Plan. These issue questions are listed in Section 2.1 of this report.

- Most of the visitors (62 to 78%, depending on survey location) surveyed at and near the UARP are residents of El Dorado and Sacramento counties. The Canyonlands have a higher proportional number of visitors who reside in El Dorado County as compared to Sacramento County.
- Party size at developed recreation facilities was found to be lower than at dispersed areas. The most frequent party size reported at developed sites was two and at dispersed areas it was 7 to 10 people per group. During the winter, most groups of visitors traveled to the area in a single vehicle and the average party size was four people.
- A considerable number of first-time visitors (13 to 22%, depending on survey location) were noted during the study. The Canyonlands and Ice House Reservoir had the highest percentages of first-time visitors.
- Most of the visitors surveyed (72 to 95%, depending on survey location) in the Crystal Basin were overnight visitors as compared to those who came to the area for a day visit. The visitors to the Canyonlands were mostly (83%) day users.
- Typically most overnight stays of visitors at developed campgrounds were two to three days in length with slightly longer stays noted at Union Valley campgrounds. The typical length of stay for day users was 4 to 6 hours.
- Most visitors reported that the location where they were surveyed was their primary destination. At both developed and dispersed locations visitors reported that had planned to stay at the location where they were surveyed indicating that they did not adjust their plans because of other factors such as filled campgrounds.
- When visitors were asked about the adequacy of access to various types of information, most visitors responded that they had adequate access to information or that they had never looked for it. Response frequencies for each type of information were fairly consistent.
- Facility changes and improvements noted in the survey responses at developed recreation facilities (Crystal Basin) most frequently related to restrooms. Among visitor suggestions were flush toilets, showers, potable water and accommodations and improved access for RVs. Visitors also commented on the need to improve management services such as trash collection, restroom cleaning and rule enforcement. The visitors surveyed noted some changes and improvements that they would like to see at each of the developed

recreation facilities. Visitor responses regarding needs for motorized trail improvements were mixed—some visitors want to see additional trails while other would prefer to see limitations imposed on OHV use.

- Changes and improvements noted by those surveyed in the Canyonlands most often related to the need for restrooms and litter removal. Visitors also noted improvements for boating at Slab Creek and Brush Creek reservoirs including a preference for managing use at these reservoirs for slow speed boating and flatwater paddling. Visitor responses regarding needs for motorized trail improvements were mixed—some visitors want to see additional trails while other would prefer to see limitations imposed on OHV use.
- Changes and improvements noted by those surveyed during the winter at Loon Lake Chalet and along the snowplow route mostly related to restrooms (e.g. cleaner, flush toilets, showers). They would also like to see additional ski trails, including groomed trails, and more opportunities for overnight stays at huts.
- Most of those surveyed at developed recreation facilities (61 to 65%, depending on survey location) at Ice House, Loon Lake and Union Valley reported that they did not visit other areas during their visit. Visitors to Gerle Creek Reservoir and dispersed recreation sites had the highest frequency of response for visiting to other areas during their trip; the most frequently reported other places visited were UARP reservoirs.
- Survey responses indicate that most (83-94%, depending on survey location) visitors reported that the water level of the UARP reservoirs allowed them to participate in the recreational activities they had planned and that reservoir levels did not negatively affect the quality of the recreational experience they had planned.
- Creel survey effort and catch data for the storage reservoirs (Union Valley, Ice House and Loon Lake reservoirs) is presented in Section 4.12.1.
- Creel survey responses show a high level of angler satisfaction at the storage reservoirs. Overall 85% of all anglers interviewed were satisfied with their experience; 73% felt that no improvements were necessary to make shoreline access easier, safer or more enjoyable; and 95% said that the water level of the reservoir allowed them to participate in the activities they had planned.
- Visitor responses regarding the adequacy of stream flows indicate that only a few (4 to 12%, depending on survey location) were not able to participate in the activities they had planned because of the level of flows in the stream. There were approximately equal proportions of respondents who said that the stream flow was adequate and those who had no opinion, 46 and 49%, respectively. The one exception was in the responses collected in the Canyonlands where 82 percent of those surveyed reported that the level of stream flow allowed them to participate in their planned activities.

- Survey responses indicate that some visitors desire improved access to reservoir shorelines however very few visitors indicated a need to improve access to rivers and streams. The Angler Focus Group generally concurred that access improvements to rivers and streams are not warranted; the general feeling was that the more difficult the access, the better the fishing could be due to a decrease in the number of anglers fishing that reach.
- The angling opportunities on the reaches below UARP dams were assessed as having a wide range of quality. Access affects the quality of these opportunities however it is largely a matter of personal preference of whether difficult access improves or diminishes the quality of angling. From the study results it appears that Gerle Creek between Loon Lake and Gerle Creek Reservoir is a reach where anglers expressed the most interest in angling opportunities.
- From those visitors surveyed at the wilderness trailhead, the responses indicate that wilderness values do not appear to be affected by the UARP.
- Existing recreational use at and near the UARP is estimated between 335,000 and 380,000 Recreation-Days, annually. Over the next 50 years the demand at and near the UARP could double, in terms of Recreation-Days.
- The visitor survey responses indicated that visitors participate in many different recreational activities. Some notable trends in the data include: 1) powerboating is most popular at Ice House and Union Valley reservoirs; 2) fishing is popular at all reservoirs and this was the most important activity identified by most of the visitors surveyed at Ice House, Loon Lake and Union Valley reservoirs; 3) OHV use had the highest response frequency for most important activity Airport Flat and Northshore campgrounds; 4) fishing (lake or reservoir) and OHV use were the two most important activities identified by visitors surveyed in dispersed areas; 5) cross country skiing and fishing (lake or reservoir) are the two most popular winter time activities; 6) swimming and fishing appear to be the most popular activities at and near the UARP reservoirs in the Canyonlands.
- Resource impacts potentially related to recreation use exist at many locations at and near the UARP. These include unauthorized OHV use, erosion, pollution, soil compaction, vegetation damage, lack of vegetative cover, recreation use inconsistent with ENF LRMP standards and guidelines (e.g. overnight use too close to lakes and watercourses, campfires in restricted areas).

APPENDIX A

SURVEY PROTOCOLS

- A.1 Summer 2002 Survey Process Paper
- A.2 Summary of Pretesting conducted on May 18, May 25, and June 15, 2002
- A.3 Summary of Notifications to Participate in the development of 2002 Summer Surveys
- A.4 Use Estimates for UARP Recreation Facilities used for Summer 2002 Survey Design
- A.5 Schedule Table for Summer 2002 surveys conducted at Developed Facilities
- A.6 Winter 2002-03 Survey Process Paper
- A.7 Plan for UARP Stream Angler Focus Group
- A.8 Protocols for UARP Reservoirs Creel Survey

UARP Relicensing - Recreation Survey Process Paper

In an effort to answer the pertinent Issue Questions raised in The Recreation Supply Study Plan, Visitor Use and Impact Study Plan, Recreation Demand Study Plan, and Recreation Needs Assessment, SMUD will conduct surveys in order to collect primary data to be used collaboratively with other types of intelligence available including recreation site and facility inventories, review of published or otherwise available information, interviews with key operational and managing staff and professional opinion. These surveys are described in the "Study Methods and Schedule" section of the Visitor Use and Impact Study Plan, which was approved by the Plenary Group on March 6, 2002 (Attachment 1). Selection of primary data collection methods has considered the appropriateness, advantages and limitations of the different methods. Selection has also carefully considered all forms of potential sources of error including errors in sampling, questionnaire errors, interviewer error, and respondent error.

Primary Data Collection

Two types of data collection methods have been selected: personal interviews and windshield surveys. Personal interviews have been recommended where the tasks require interaction with the respondents and are necessary for conducting surveys during a particular time frame. A windshield survey has been recommended for the survey populations that are widely dispersed, making personal interviews less appropriate.

Personal Interviews

As the interviewer is the dominant factor in the value of the data obtained, interviewers have been carefully screened and selected. Interviewers have been trained in the role and nature of the study, the role and importance of the interviewer, selection of respondents, unbiased interviewing techniques, safety, and proper recording of respondent answers. Interviewers have all received a site visit in order to orient themselves to the geography and have completed onsite practice sessions.

Members of the field survey team have demonstrated expertise in recreation and/or market research. Two members have emergency medical team certifications. The field survey team includes:

<i>SMUD Interviewers:</i>	<i>Framatome ANP DE&S Interviewers:</i>
Joe Davis ¹ , Hydro Relicensing	Carol Efir ³ , Recreation Specialist
Ann Graef, Research & Evaluation	Martha Goodavish, Recreation Specialist
Daune Kirrene ² , Research & Evaluation	Justin Klaurens, Associate Scientist
Rian Troth, Research & Evaluation	Patrick McKowen ² , American River College, student (Recreation)
Tom Jas, Research & Evaluation	Lindsey Potor, UC Berkeley, student
Gib Gianandrea ⁴ , Power Gen., Hydro	Jennifer Dassel, CSUS, student (Communications)
	Derek Hatzenbuhler, UC Davis, student (Economics, Mkt. Research)
	Jesus Villalvazo, CSUS, student

¹SMUD interview team lead ²EMT certified ³Framatome ANP DE&S interview team lead ⁴Windshield surveys & Canyonlands use monitoring

Windshield Surveys

Limitations to a windshield (mail-in) survey have been carefully considered, primarily the lack of control over respondent to ensure completeness and the lack of opportunity to explain questions or to probe for meanings of the replies. However, every effort has been made to drive towards a successful response rate by carefully crafting the survey instrument for clear directions, providing a postage paid envelope, and by providing a contact name for questions. In addition, to further increase the response rate, a five dollar gift certificate for Big 5 Sporting Goods will be mailed to respondents who complete and return the survey. The survey will be pretested to ensure its effectiveness and clarity.

Additional Notes

Interviewers will also record anecdotal information from observations, interviews, and conversations with campground hosts and other recreation users. Information will be logged by date, time, and geographic location.

Sampling

Locations

All surveys will occur on Forest Service-managed or SMUD-owned lands. Forest Service and SMUD staff identified the following locations during the May 16, 2002, survey design meeting held at the Pacific Ranger District office:

Developed Facilities (Campgrounds, Picnic Areas, Boat Launches)

- Union Valley Reservoir
- Gerle Creek Reservoir
- Ice House Reservoir
- Loon Lake Reservoir

Dispersed Areas

Loon Lake Reservoir (note: both sides of the road between the two dams):

- Pleasant Lake-North (overnight)
- Pleasant Lake-South (overnight)
- North of main dam near spillway (day-use)
- Red Fir drive to main dam (primarily overnight, some day-use)
- North Shore drive to Red Fir drive (primarily overnight, some day-use)
- Ski trail to North Shore drive (primarily overnight, some day-use)
- Informal boat launch to ski trail (primarily overnight, some day-use)
- Auxiliary dam-North (day-use)
- Chalet to Auxiliary dam (primarily day-use, some overnight)

Gerle Greek Reservoir & Robbs Forebay:

- Wentworth Springs Road & Gerle Creek – southwest quarter (overnight)
- Wentworth Springs Road & Gerle Creek – northwest quarter (overnight)
- Wentworth Springs Road & Gerle Creek – southeast quarter (overnight)
- 13N52-1st Area (overnight)
- 13N52-2nd Area (overnight)

- Angle Creek Day Use-North (overnight)
- Angle Creek Day Use-South (overnight)
- Ice House Road & South Fork Rubicon River-Southeast Quarter (overnight)
- Ice House Road & South Fork Rubicon River-Northwest Quarter (day-use)
- 13N29A-End of Road (overnight)

Union Valley Reservoir:

- East of Sunset Boat Ramp (day-use)
- South Shore (overnight)
- Lizard Rock (day-use)
- Southeast of Lizard Rock (day-use)
- SMUDEA to Yellowjacket (day-use)
- Southwest of Yellowjacket (day-use)
- Southwest of Wolf Creek (day-use)
- Camino Cove-East (day-use)
- Camino Cove-West (day-use)
- North of WestPoint (day-use)
- East of Westpoint (overnight)
- Between WestPoint boat launches (overnight)

Junction Reservoir:

- South of Union Valley Dam (overnight)
- Southwest of Union Valley Dam (overnight)
- Undeveloped boat launch (overnight)
- Bryant Springs Road & South Fork Silver Creek – Northwest Quarter, little sandbar finger (overnight)
- Below Junction Dam (day use)

Ice House Reservoir:

- Two sites on south shoreline, upstream end (overnight)
- South Fork Silver Creek above Ice House Reservoir (day use)
- Strawberry Campground to South Fork Silver Creek (day use)
- Strawberry Campground to Northwind Campground (day use)
- Northwind Campground to Ice House Campground (day use)

Dispersed – Canyonlands Locations

- Silver Creek @ Jaybird Powerhouse
- Forebay Road & South Fork American River
- Brush Creek Reservoir at end of road
- Forest Service Road No. 11N96 @ Slab Dam
- Forest Service Road No. 11N96 @ Slab Reservoir boat launch site
- Mosquito Road & South Fork American River
- Use will also be documented at all sites above, including Camino Reservoir, Brush Creek Reservoir, and Slab Creek Reservoir.

Dispersed Appraisal

- Jones Wreckum Road
- Frisco Ford
- Millionaire Camp
- Spider Lake

Design

The survey population is considered to be the recreation users of the Crystal Basin Recreation Area that have a probable relationship or possible relationship to the Project. Sample units are considered to be the individuals responding to the survey, not the groups accompanying them on their visit. Non-eligibles for inclusion will be those under 18 years of age. Individuals may only respond once during the survey timeframe.

Every attempt to collect a sufficient number of respondents, even though they may be a relatively small proportion of the survey population, will be made. The population will be divided into subsamples by geographic survey locations (i.e. reservoir general areas – Ice House, Union Valley, Gerle, and Loon Lake) and developed versus dispersed orientation. This stratified sampling design will be used in the developed facilities as it is assumed that there is little variance in the population within the segments and a greater variance between them.

The Forest Service provided average visitor usage numbers in recreational visitor days (RVD's). An average was taken from 1996 to 1999. More recent data than 1999 is not available as the National Forest Service is converting over to a new method of determining visitor usage and surveying of the Pacific Ranger District will not occur until Oct 2002 to Oct 2003. RVD numbers were provided per boat launch facilities, campgrounds, and picnic areas/trailheads. Specific considerations were given to the following sites based on the professional judgment of the Forest Service:

- Azalea Cove and Lone Rock campgrounds at Union Valley Reservoir will be treated as one site
- Loon Lake campground includes the boat ramp RV and equestrian campground
- Loon Lake Picnic Area is included in the boat launch facility numbers

Per the Forest Service, average visitors in RVD's was converted to people days based on the following information:

- Boating: 1 RVD is approximately 12 people for 1 hour
- Campgrounds: 1 RVD equals 1.5 people
- Picnic Areas/Trailheads: 1 RVD is approximately 6 people for 2 hours

A complete table of average visitors in RVD's and people days can be viewed in Attachment 2.

Based on the assumptions stated above, the UARP related developed facilities hosts 341,682 people days. A breakdown of visitation by reservoir and by activity is shown in the following table:

Total People Days (UARP Related Developed Areas)

341,682

	Ice House	%	Union Valley	%	Gerle Creek	%	Loon Lake	%
% of Total People Days	24%		43%		5%		28%	
Total People Days	80,827		147,723		18,605		94,526	
Boating	35,786	44%	57,202	39%	N/A		72,783	77%
Camping	37,385	46%	87,394	59%	15,698	84%	20,816	22%
Picnic/Trailhead ¹	7,656	9%	3,127	2%	2,907	16%	927	1%

¹ The Wilderness Trailhead facility at Loon Lake will be windshield surveys.

Based on the total people days calculations by reservoir, the total number of surveys to be conducted at each reservoir has been determined to be 175 for a total sample size of 700 for developed facilities. This will give us a 95% confidence level and $\pm 7.5\%$ margin of error within each reservoir. A breakdown by facility within each reservoir is included in the following table:

	Ice House	Union Valley	Gerle Creek	Loon Lake
Total Surveys	175	175	175	175
Boating	77	68	N/A	136
Camping	81	104	148	39
Picnic/Trailhead	17	4	27	N/A

Differences are due to rounding.

The number of surveys at each facility per reservoir will be proportional to the number of visitors received.

Design of the survey instruments has anticipated the potential for subsamples. As our analysis will more than likely generate many small subsamples, the total sample size is as large as economically possible. We recognize that not collecting enough samples will not allow us to stratify certain subsamples (i.e. picnickers at Union Valley). In these isolated cases, other types of intelligence may be used to assist in answering questions and making decisions. We further recognize that when expanding the data set to include decisions at a global Crystal Basin Recreation Area level, we must carefully consider the data on a question by question basis and/or further weight the data. Specifically, the number of samples collected at Gerle Creek would be inflated to have a weight of 25% versus its characterization at 5% and Union Valley would be deflated to a weight of 25% instead of 43%. We are striving for an acceptable margin of error at the reservoir level more so than at the global recreation area level.

In all cases, it is important to note that 175 completes within each reservoir is the goal of the survey project. Outside factors such as weather and global anomalies are not factored in.

Scheduling

Developed Facilities

Interview dates have been randomly selected from Thursday, July 4th through Monday, September 2nd. Weekday sampling includes all non-holiday Fridays. Weekend sampling includes Thursday, July 4th and Monday, September 2nd. Dates were randomly pulled on a rotating basis of one weekend to one weekday to reflect that midweek usage is half of the weekend usage. Enough days were randomly generated to accommodate the number of surveys required by facility.

SMUD and the Forest Service agreed to the following interview times per activity:

- Boat Launches 10am to 2pm and 3pm to 7pm
- Campgrounds 7am to 10 am and 4pm to 7 pm
- Picnic Areas 10am to 2pm and 2pm to 6pm

The number of expected interviews per day at each site is based on the assumption that one completed survey will take approximately 30 minutes. This time includes pre, post and travel (within the survey location) time. Therefore, one person can be expected to complete a maximum of six surveys within a three-hour interview period or eight surveys within a four-hour interview period. The Forest Service provided use estimates by facility, interview time and weekday vs. weekend for the minimum number of interviews obtainable. This information can be found in Attachment 3.

Completed schedule tables will be included in this paper upon completion of the survey project.

Respondent selection will be randomly selected using n th sampling at all locations. The starting point will be selected at random and the interviewer will be instructed to select the 2nd group at all boat launches and picnic areas. Interviewers will be instructed to exclude "quick stop" people from their potential pool (i.e. those just stopping to put garbage in a dumpster). Campgrounds will be treated similarly. An n of 2 will be used all but Ice House, Sunset, Wench Creek Family, Gerle Creek, and Loon Lake where an n of 5 will be used. As these as large campgrounds, a larger n will allow a greater range of campsites to be surveyed. An n of 0 is used at the group campsites - Big Silver, Wench Creek, Loon Lake, and Loon Lake Equestrian - and Loon Lake Chalet as a group is treated as one sampling unit. Affinity bias will be avoided by precise instruction to the interviewers that when approaching a group, the interviewer selects the respondent via a "birthday quiz" whereby selection is made based on the closest birthday to the date of survey.

Dispersed Areas

At dispersed areas near the reservoirs and dispersed appraisal areas sampling will occur on two holiday weekend days (one from the July 4th weekend and one from the Labor Day weekend), two non-holiday weekend days, and two non-holiday weekdays (randomly selected). Surveys (personal interviews or windshield) at "day-use" dispersed areas will be conducted between 10:00 am and 5:00 pm. Windshield surveys will be left on vehicles

parked at the Wilderness Trailhead facility at Loon Lake Reservoir. Personal interviews at “overnight” dispersed areas will occur in either the morning or the evening.

An n of 0 will be used at all dispersed areas near the reservoirs and dispersed appraisal areas unless noted as follows: (1) for the northern half of Spider Lake and all dispersed areas between Loon Lake’s auxiliary dam and the main dam, $n = 3$ on weekend days; (2) for Millionaire Camp and Frisco Ford areas, if seven or more groups occupy the area, $n = 2$ on weekend days.

Completed schedule tables will be included in this paper upon completion of the survey project.

Canyonlands Areas

Windshield surveys will be used in the Canyonlands (defined as Camino Reservoir area downstream to White Rock Powerhouse area); personal interviews will not be conducted. The survey schedule will be the same as described above for Dispersed Areas. The surveys will either be placed on vehicle windshields parked at sampling locations if respondents are not present or handed to respondents if they are viewed near the sampling location and are easily accessible. Visitor use will be documented at survey locations and on or around Camino Reservoir, Brush Creek Reservoir and Slab Creek Reservoir.

Completed schedule tables will be included in this paper upon completion of the survey project.

Instrumentation

Development

The composition of survey questions has included issues of brevity, clarity, simple vocabulary and sentence structure, appropriate categories and sources of bias or error. Scales are short and concise, respecting the respondent and wherever possible, handling neutrality issues carefully. Issues of clear organization and directing response flow have been considered on both the personal interviews and the windshield surveys.

There are several survey instruments: one for developed sites (campgrounds, day use areas and boat launches); one for identified dispersed use areas near the reservoirs (day use and overnight); and two windshield (mail-in) versions specific to either Crystal Basin or Canyonlands locations. Interview time has been targeted at 15 minutes.

An additional appraisal interview has been designed in order to assess Project nexus. In areas where there is not a clear understanding of the recreational use as it relates to the Project, SMUD plans to conduct surveys this year to investigate and determine if the recreational use is related to the Project. These appraisals will be conducted at Forest Service identified areas at Spider Lake, Millionaire Camp, Jones Wreckum Road, and Frisco Ford. The basis for determining the relationship to the Project will be the users’ destination, primary activities, route of travel (for Spider Lake only) and the importance of several settings in deciding to visit the Crystal Basin. If the results of the investigation indicate a Project nexus, recreation user surveys may be conducted next year to assess recreation use and needs. These appraisals

differ from the other questionnaires primarily in that the respondents are asked fewer questions. Appraisals are planned to take 5 minutes.

Construction

Interviewers are provided with an introduction script that identifies the need for collecting the information, obtains the potential respondent's cooperation, and reassures the respondent of the confidentiality of responses.

The screening questions assist in the sampling design rule to collect responses from appropriate individuals (age 18 or above). In order to avoid interviewing a respondent twice within the Crystal Basin, screening has been expanded to exclude those who have already previously been surveyed either by this survey effort or any other survey efforts to be conducted with the Crystal Basin Recreation Area with the same sampling frame.

Core questions are designed to address relicensing issues and needs. Items listed are randomized in order to avoid response bias. Interviewers will make use of randomized cards to assist in these questions.

To create recreation user profiles, the respondents will be asked their zip code of residence, the number in their party, length of stay, and the number of years coming to the Crystal Basin. Standard demographic questions have not been included in the interest of reducing interview time when weighed with the fact that we are not profiling users for marketing efforts. Where applicable, the interviewer will also collect weather, time, specific location, date, interview start and stop times, gender, and refusals. The dispersed survey instrument will be gather information on number of vehicles to assist in estimating use.

With consideration given to both the interviewer and the respondent, the survey instruments have unobtrusively been precoded to assist in data entry.

Interviewers have been provided with clear definitions of terms used throughout the survey: developed campgrounds, undeveloped, motorized, non-motorized, recreation activities, non-recreation activities, type of experience, quality of experience, develop swimming/beach areas, two-lane paved road access, off highway vehicles, personal water craft, wilderness permits, environmental or educational displays.

Interviewers have also been instructed to repeat questions and instructions upon the request of the respondent or in clear instances where the respondent appears to need clarification. Interviewers will repeat the questions verbatim and/or provide clarification based on definitions of terms provided by SMUD. Interviewers will not paraphrase any question in order not to interject interviewer bias.

On any question making use of the cards with activities, settings, or facilities & services listed, the interviewer will confirm the responses before recording on the instruments. Interviewers are asked to record open-ended responses verbatim in order not to interject any interviewer bias. This means they will not record a "story" that comes with the answer but will record the actual message verbatim.

Interviewers are responsible for reading questions and responses that are boldface type. This is particularly important in questions where the responses of "don't know" and/or "no opinion" are not to be spoken to the respondent but are included on the survey instrument for purposes of recording the response should the respondent insist on this category.

Directions to continue to an additional branch, to skip to another question, to record response, and to check or circle a response have been provided to assist the interviewer. Although interviewer have been thoroughly trained, these directions will assist in interviewer fatigue throughout the day.

Pretesting

Pretesting of survey instruments occurred on Saturday, May 18, Saturday, May 25, and Saturday, June 15, 2002. Pretesting focused on the following elements: did the respondents understand the questions, did the respondents understand the scales, did the respondents understand the instructions, timing the interview to control length, noting easy or difficulty of the respondents working through the flow of the questions, observing reactions, and attempting to capture any serious errors, oversights or problems.

Results of the individual pretesting efforts can be viewed in Attachment 4. Additional pretesting of windshield versions of the survey instruments was performed in order to test clarity of questions with respondents.

Data Collection

Monitoring and control of the actual data collection has been considered in order to avoid serious problems or delays. Completed survey instruments will be collected by a site team lead and reviewed for completion and proper recording. Complete, usable questionnaires will be numbered, counted, and prepared for final editing, postcoding, and data entry. Any discrepancies will not be discarded but accounted for. We believe that the quality of the field team will keep discrepancies to a minimum.

Personal interviews will be conducted with a minimum of interruption to the recreation users. For example, boat launch interviews will be conducted at facility exit points, after the visitor has concluded their primary activity. Interviewers have been disciplined in potential interviewing error and bias. And based on the affinity of the respondent, interviewers have been instructed to contain non-survey related conversations to the minimum possible in order not to skew overall interview time.

Data Processing

Survey instruments will be judged for completeness. Postcoding of any non-precoded responses will be necessary, establishing guidelines for the data entry individual. As data is entered, every effort will be made to control data record errors.

Data Analysis

Statistical Tool Selection

Based on the nature of the data and the reports that will be necessary, SPSS has been selected as the analysis software. Selected statistics will be based on their ability to suppress details in order to reveal important findings. It is recommended that the simplest method be used in order to avoid incorrect use or misunderstood findings.

Frequencies and percentage tables of responses and averages will be used for categorical data. Results can be provided in table and graphic formats. Relationships between variables will be analyzed via cross tabulation tables, the most common and easily understood and interpreted means of measuring association between survey variables. Statistical tests for significance will be run to measure the relationships between variables where appropriate.

Preliminary Analysis

The following is a preliminary look at how Issue Questions will be addressed, at least in part, using information drawn from the surveys. Other types of intelligence to be used to help answer the Issue Questions include published or otherwise available information, interviews with key operational and managing staff, and professional opinion.

This section lists relevant survey questions to be used to address Issue Questions and in some cases how relationships between survey questions will be looked at in an attempt to answer the Issue Questions in conjunction with other intelligence. This preliminary look is not intended to replace a collaborative effort by both SMUD and the Forest Service to analyze the data after the collection phase.

This Recreation Survey Process Paper will be updated on an ongoing basis to reflect the decisions of those involved in making recommendations through the analysis component of the survey process.

Future Survey Efforts

The data will be looked in the Fall of 2002 and where there appears to be insufficient evidence to make an educated decision based upon all sources of intelligence at that time, the group will consider need to conduct additional studies in 2003.

A solicitation for participation in future studies of the Project area has been included in all but the appraisal surveys. This allows us to draw from a survey population based on any number of user characteristics (i.e. those with more than five years of visiting experience, those who selected fishing in streams as their primary activity, etc.).

LU-4. What additional use could be made of Project lands compatible with the Project (e.g., transmission lines for trails)?

Information will be collected on desired changes to motorized and non-motorized trail systems and present and future activities.

Relevant survey questions:

- Would you like to see any changes to the existing motorized trail system, such as off highway vehicle trails, in the Crystal Basin? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Would you like to see changes or improvements to the existing non-motorized trail system, like hiking trails, in the Crystal Basin that you would like to see? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Please select the activities you have participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping?
 - Scale: Interviewers will use a 5-card rotation listing of 17 activities, including “other”. Randomizing the order of the activities will reduce order bias on the part of the respondent (picking the first on the list).
- What were your three most important activities?
 - Scale: Forced ranking to obtain the most preferred, 2nd most preferred, and 3rd most preferred.
- Are there any activities that you would like to do at Crystal Basin that you are currently unable to participate in? If yes, what activities?
 - Scale: Yes, No, Don’t Know.
A “no” response will indicate that the respondent has no changes to recommend. A “don’t know” response will indicate that the respondent is not able to provide a qualified response. Specific activities will be recorded as open-ended responses.

Data should reveal a list of dominant, existing activities that can be sorted geographically or by user profile: developed versus dispersed, number of years visiting the Crystal Basin, length of stay, and/or primary destination. It is hoped that data will reveal future activities that will be assessed in combination with the professional expertise of operating and managing staff. Future activities can also be sorted geographically or by user profile as need be.

The information in the open-ended questions on motorized and non-motorized trails will be examined along with those responding to hiking/walking in the activity question. An example of a potential cross tabulation exercise would be: of those who selected hiking/walking as their primary activity at Ice House, x% would like to see more trails available near the reservoir.

7.a Identify recreation needs for the Project over the term of the license, including facilities from UARP to White Rock Powerhouse. [Note: This question was separated into above and below Chili Bar.]

Information will be collected on desired changes to motorized and non-motorized trails, changes to facilities, and present and future activities.

Relevant survey questions:

- Are there any activities that you would like to do at the Crystal Basin that you are currently unable to participate in? If yes, what activities?
 - Scale: Yes, No, Don't Know.
A "no" response will indicate that the respondent has no changes to recommend. A "don't know" response will indicate that the respondent is not able to provide a qualified response. Specific activities will be recorded as open-ended responses.
- Please select the activities you have participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping?
 - Scale: Interviewers will use a 5-card rotation listing of 17 activities, including "other". Randomizing the order of the activities will reduce order bias on the part of the respondent (picking the first on the list).
- What were your three most important activities?
 - Scale: Forced ranking to obtain the most preferred, 2nd most preferred, and 3rd most preferred.
- Are there any changes or improvements that you would like to see at this facility (this campground, boat launch or day use area)? If yes, what are they? [Dispersed questionnaire: at this location]
 - Scale: Yes, No, Don't Know.
A "no" response will indicate that the respondent has no changes to recommend. A "don't know" response will indicate that the respondent is not able to provide a qualified response. Specific activities will be recorded as open-ended responses.
- Would you like to see any changes or improvements to the existing motorized trail system, such as off highway vehicle trails, in the Crystal Basin? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A "no" response will indicate that the respondent has no changes to recommend. A "no opinion" response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Would you like to see changes or improvements to the existing non-motorized trail system, like hiking trails, in the Crystal Basin? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A "no" response will indicate that the respondent has no changes to recommend. A "no opinion" response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.

Data can be sorted geographically or by user profile. It is hoped that data will reveal future activities that will be assessed in combination with professional expertise of operating and managing staff. FERC's Form 80 recreational monitoring (to be completed by SMUD every six years) can also be used to help answer this question throughout the license term.

In the arena of recommendations for modifications to existing facilities, the survey specifically seeks the opinions of respondents using facilities at the site in order to collect actual site usage opinions as opposed to collecting prior experience or hearsay data.

9. What is the recreation carrying capacity for the Project with respect to the recreational experience and the ecological system?

Information will be collected on conflicting activities, harmful activities (to the environment) and crowding.

Relevant survey questions:

- During your visit to the Crystal Basin, were there any recreation activities occurring that conflicted with your recreation activities or affected your enjoyment here? If yes, what were they and how did they affect you?
 - Scale: Yes, No, Don't Know.
 - A "no" response will indicate that the respondent has no changes to recommend.
 - A "don't know" response will indicate that the respondent is not able to provide a qualified response. Specific activities will be recorded as open-ended responses.
- During your visit to the Crystal Basin, were there any recreation activities that you observed or participated in that you feel may cause harm to the environment? If yes, what were they and what was their affect?
 - Scale: Yes, No, Don't Know.
 - A "no" response will indicate that the respondent has no changes to recommend.
 - A "don't know" response will indicate that the respondent is not able to provide a qualified response. Specific activities will be recorded as open-ended responses.
- Please indicate which of the following statements best describes how crowded you feel at this facility? [Dispersed questionnaire: at this location.]
 - Scale: Not at all, Lightly, Moderately, Extremely, Don't Know
- Did you bring a boat, jet ski, or other type or personal water craft with you on this visit
 - Scale: Yes, No
- Please indicate which reservoir you have spent most of your time at with your boat, jet ski, or other type of personal water craft.
 - Scale: Gerle Creek, Ice House, Loon Lake, Union Valley, Other
- Please indicate which of the following statements best describes how crowded you feel when you are on the surface of this reservoir in your boat or jet ski.
 - Scale: Not at all, Lightly, Moderately, Extremely, Don't Know

Data gathered at different locations assumes that there may be sensitivity to certain issues specific to activities. This type of sensitivity will be verified. For example, of those who identified OHV as a recreation activity causing harm to the environment, x% were identified as OHV users. Due to the sensitivity of this issue, one would expect to find a very low percent of OHV users.

20. What is the level of Project induced recreation (e.g., what would the recreational opportunities be today if the Project were not built)?

Addressing project-related recreation is a major goal of the Forest Service in the relicensing of the UARP. The Forest Service will use the answer to this question to help determine

SMUD's responsibilities relative to recreational resources. Unfortunately, it's an extremely challenging question to address because many factors are involved in a person's decision to recreate in the Crystal Basin.

Below are the survey questions SMUD and interested parties have developed to help answer this question. SMUD believes the results from these questions, along with other sources of information listed below, will provide a reasonable foundation from which decisions can be made concerning SMUD's responsibilities relative to recreational resources.

Relevant survey questions:

- Is your visit to this location: the primary destination of your trip; a side trip while camped at another location in the Crystal Basin; or a stop on route to another destination (if so, where?).
 - Scale: Checklist of the three options.
- If you are staying overnight at this location, did you plan to stay here or did you plan to stay at a developed campground?
 - Scale: Checklist of three options: intended to stay here; intended to stay at a developed campground (if so, which one); and not staying at this location.
- From the following list of settings, please rate how important these settings are in your decision to visit the Crystal Basin – rivers/streams; mountain/forested area; reservoirs; and natural lakes and ponds.
 - Scale: Multiple-rating list from 1 to 4 indicating importance. Interviewers will use a 5-card rotation listing of the five settings. Randomizing the order of the activities will reduce order bias on the part of the respondent (picking the first on the list).
- From the following list of facilities and services, please rate how important these facilities and services are in your decision to visit the Crystal Basin – boat launch ramps; developed campgrounds; developed swimming/beach areas; non-motorized trails; OHV trails; picnic facilities; and two-lane paved road access.
 - Scale: Multiple-rating list from 1 to 4 indicating importance. Interviewers will use a 5-card rotation listing of the five settings. Randomizing the order of the activities will reduce order bias on the part of the respondent (picking the first on the list).
- How likely or unlikely would you be to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist?
 - Scale: Very unlikely, Unlikely, Likely, Very likely, Don't Know. Don't know" option is provided for those respondents who have trouble conceptualizing the question.
- Please select the activities you have participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping?
 - Scale: Interviewers will use a 5-card rotation listing of 17 activities, including "other". Randomizing the order of the activities will reduce order bias on the part of the respondent (picking the first on the list).
- What were your three most important activities?
 - Scale: Forced ranking to obtain the most preferred, 2nd most preferred, and 3rd most preferred.

The best use of survey data to feed into an analysis of this question is to take a close look at the activities of the respondents and look for relationships with the settings of the Crystal Basin. For example, of those respondents ranking fishing in streams as their primary activity, how many rated the importance of rivers/streams as somewhat important or very important? This can then further be examined through the user profile questions – primary destination, years visiting the Crystal Basin, etc.

A hypothetical question regarding the likelihood of visiting the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Union Valley and Gerle Creek did not exist will also be looked at in creating an index as described above. An option of “don’t know” is available for respondents who have trouble conceptualizing the question, although pre-test results did not reveal any alarming hesitations. We recognize that the use of a hypothetical question is not unproblematic. However, the very nature of the issue question is problematic and therefore other sources of information will be considered to help determine SMUD’s responsibilities relative to recreational resources:

- Historically, the Forest Service's role in planning, designing and constructing recreation facilities in the Crystal Basin as well as the Forest Service’s role in planning for and managing recreational opportunities and activities in the Crystal Basin Recreation Area.
- Historically, SMUD's role in planning, designing and constructing recreation facilities in the Crystal Basin.
- Present ownership of recreation facilities within the existing Project license, and a breakdown of annual revenues and operation & maintenance costs related to those facilities, including the dollar amount SMUD contributes to the Forest Service for operation & maintenance.
- The Forest Service’s present legal authority, responsibility and practices relative to planning, developing and managing recreation (opportunities, activities and facilities) in the Eldorado National Forest.
- For the new license term, the FERC's expectations (per existing laws, regulations and policies) for SMUD's role relative to planning, developing and managing recreational opportunities afforded by the Project.

21. What could be done to enhance the existing recreational opportunities?

Information will be collected on activities, reservoir levels affecting activities, amount of flow in streams affecting activities, changes to the shorelines of the reservoirs and access to rivers and streams, and availability of information.

Relevant survey questions:

- Are there any activities you would like to do at the Crystal Basin that you are currently unable to participate in? If yes, what activities?
 - Scale: Yes, No, Don’t Know.

A “no” response will indicate that the respondent has no changes to recommend. A “don’t know” response will indicate that the respondent is not able to provide a qualified response. Specific activities will be recorded as open-ended responses.

- Did the level of this reservoir allow you to participate in the activities you have planned? If not, how was your trip affected?
 - Scale: Yes, No, No Opinion.

A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Did the amount of flow in the streams allow you to participate in all of the activities you have planned? If not, what segments of stream and how was your trip affected?
 - Scale: Yes, No, No Opinion.

A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Are there any changes or improvements needed to make it easier or safer for you to access the shorelines of the reservoirs? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.

A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Are there any changes or improvements needed to make it easier or safer for you to access the rivers or streams? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.

A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Please tell me if you feel that you have adequate access to information about: reservoir levels; campsite availability; campfire restrictions; wilderness permits; trail locations; stream flow rates &/or depths; environmental/ educational displays; fish stocking; other. If no, suggested improvements.
 - Scale: Yes, No, N/A
- Are there any changes or improvements that you would like to see at this facility (this campground, boat launch or day use area)? If yes, what are they? [Dispersed questionnaire: at this location]
 - Scale: Yes, No, Don’t Know.

A “no” response will indicate that the respondent has no changes to recommend. A “don’t know” response will indicate that the respondent is not able to provide a qualified response. Specific activities will be recorded as open-ended responses.

The above questions will generate a list of changes, improvements and enhancements that can be characterized geographically or by user profile.

22. Do existing Project related transportation facilities (e.g. roads and trails) meet current/future recreation needs?

Information will be collected on changes to the motorized and non-motorized trail systems.

Relevant survey questions:

- Would you like to see any changes or improvements to the existing motorized trail system, such as off highway vehicle trails, in the Crystal Basin? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Would you like to see changes or improvements to the existing non-motorized trail system, like hiking trails, in the Crystal Basin? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.

The above questions will generate a list of changes, improvements and enhancements that can be characterized geographically or by user profile.

27. Is there demand for trails under power line corridors? If so, what opportunities/constraints exist to use power line corridors as trails?

Information will be collected on changes to the motorized and non-motorized trail systems.

Relevant survey questions:

- Would you like to see any changes or improvements to the existing motorized trail system, such as off highway vehicle trails, in the Crystal Basin? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Would you like to see changes or improvements to the existing non-motorized trail system, like hiking trails, in the Crystal Basin? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.

The above questions will generate a list of changes, improvements and enhancements that can be characterized geographically or by user profile.

28. What needs exist for providing trail access around and through Project facilities to the river edge for fishing, portage, etc.?

Information will be collected on access to rivers or streams and changes to the non-motorized trail systems.

Relevant survey questions:

- Are there any changes or improvements needed to make it easier or safer for you to access the rivers or streams? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Would you like to see changes or improvements to the existing non-motorized trail system, like hiking trails, in the Crystal Basin? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.

The above questions will generate a list of changes, improvements and enhancements that can be characterized geographically or by user profile.

30. Is there a need for connections between existing and future trails within and outside UARP? If so, are there opportunities to provide connections between existing and future trails within and outside UARP?

Information will be collected on changes to the motorized and non-motorized trail systems.

Relevant survey questions:

- Would you like to see any changes or improvements to the existing motorized trail system, such as off highway vehicle trails, in the Crystal Basin? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Would you like to see changes or improvements to the existing non-motorized trail system, like hiking trails, in the Crystal Basin? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.

The above questions will generate a list of changes, improvements and enhancements that can be characterized geographically or by user profile.

31. What are the benefits of recreation associated with the UARP?

Information will be collected on the activities of the respondents.

Relevant survey questions:

- Please select the activities you have participated in or plan to participate in during this visit to Crystal Basin, excluding relaxing and camping?
 - Scale: Interviewers will use a 5-card rotation listing of 17 activities, including “other”. Randomizing the order of the activities will reduce order bias on the part of the respondent (picking the first on the list).
- What were your three most important activities?
 - Scale: Forced ranking to obtain the most preferred, 2nd most preferred, and 3rd most preferred.

35. How is recreator behavior affected by Project operations?

Information will be collected on conflicting recreation activities, reservoir levels, and amount of flow in streams.

Relevant survey questions:

- During your visit to the Crystal Basin, were there any recreation activities occurring that conflicted with your recreation activities or affected your enjoyment here? If yes, what were they and how did they affect you?
 - Scale: Yes, No, Don't Know.
A “no” response will indicate that the respondent has no changes to recommend. A “don't know” response will indicate that the respondent is not able to provide a qualified response. Specific activities will be recorded as open-ended responses.
- Did the level of this reservoir allow you to participate in all of the activities you have planned? If no, how was your trip affected?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Did the amount of flow in the streams allow you to participate in all of the activities you have planned? If not, what segments of stream and how was your trip affected?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.

Three open-ended questions have been selected to get a flavor for this Issue Question. Therefore, care has been taken to distinguish between a “no” and a “no opinion” response. Repeat recreation users will clearly have opinions on how project operations affected

reservoirs and streams. These questions will not address issues that are not controlled by SMUD, for example, private logging or Forest Service practices.

36. What are the regional recreational opportunities in view of the primary recreational opportunities at the Project?

Information will be collected on present and future activities.

Relevant survey questions:

- Please select the activities you have participated in or plan to participate in during this visit to Crystal Basin, excluding relaxing and camping?
 - Scale: Interviewers will use a 5-card rotation listing of 17 activities, including "other". Randomizing the order of the activities will reduce order bias on the part of the respondent (picking the first on the list).
- What were your three most important activities?
 - Scale: Forced ranking to obtain the most preferred, 2nd most preferred, and 3rd most preferred.
- Are there any activities you would like to do at the Crystal Basin that you are currently unable to participate in? If yes, what activities?
 - Scale: Yes, No, Don't Know.
A "no" response will indicate that the respondent has no changes to recommend. A "don't know" response will indicate that the respondent is not able to provide a qualified response. Specific activities will be recorded as open-ended responses.

37. What are the current and projected user conflicts related to recreation at or in the vicinity of the Project?

Information will be collected on conflicting activities and crowding.

Relevant survey questions:

- During your visit to the Crystal Basin, were there any recreation activities occurring that conflicted with your recreation activities or affected your enjoyment here? If yes, what were they and how did they affect you?
 - Scale: Yes, No, Don't Know.
A "no" response will indicate that the respondent has no changes to recommend. A "don't know" response will indicate that the respondent is not able to provide a qualified response. Specific activities will be recorded as open-ended responses.
- Please indicate which of the following statements best describes how crowded you feel at this facility? [Dispersed questionnaire: at this location.]
 - Scale: Not at all, Lightly, Moderately, Extremely, Don't Know
- Did you bring a boat, jet ski, or other type or personal water craft with you on this visit
 - Scale: Yes, No
- Please indicate which reservoir you have spent most of your time at with your boat, jet ski, or other type of personal water craft.
Scale: Gerle Creek, Ice House, Loon Lake, Union Valley, Other

- Please indicate which of the following statements best describes how crowded you feel when you are on the surface of this reservoir in your boat or jet ski.
 - Scale: Not at all, Lightly, Moderately, Extremely, Don't Know

Responses to this question will be characterized by reservoir and by facility. This survey question drives out answers to current user conflicts related to recreation. "No" and "don't know" responses will be treated separately to distinguish between a no change recommendation versus an unqualified response. To discuss future conflicts, the survey responses will be viewed in comparison to projected types and levels of recreational uses by reservoir or site locations.

38. What are project related reservoir fluctuations that impact reservoir recreation?

Information will be collected on reservoir levels.

Relevant survey questions:

- Did the level of this reservoir allow you to participate in all of the activities you have planned? If no, how was your trip affected?
 - Scale: Yes, No, No Opinion.
 A "no" response will indicate that the respondent has no changes to recommend. A "no opinion" response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.

As we are capturing information on this visit, we will be able to take a look at responses in comparison to reservoir fluctuations throughout the survey season. Responses can also be characterized by the type of activities conducted at the reservoir and by the respondent's experience (years visiting the Crystal Basin). Information on outlier years such as 2001 will be difficult to assess as use is clearly defined each year. We can also take a look at how accessible information regarding reservoir levels is in comparison to the respondent's answer to the above survey question.

43. How do Project operations affect site qualities at developed recreation sites (e.g. lake levels)?

Information will be collected on reservoir levels and changes to the shorelines.

Relevant survey questions:

- Did the level of this reservoir allow you to participate in all of the activities you have planned? If no, how was your trip affected?
 - Scale: Yes, No, No Opinion.
 A "no" response will indicate that the respondent has no changes to recommend. A "no opinion" response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Are there any changes or improvements needed to make it easier or safer for you to access the shorelines of the reservoirs? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.

A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.

This information will be included in the analysis performed for aesthetics.

44. What are the effects of Project facilities and operations on wilderness values?

Information will be collected on reservoir levels (specific to the Rubicon Reservoir) and harmful activities to the environment.

Relevant survey questions:

- Did the level of this reservoir allow you to participate in all of the activities you have planned? If no, how was your trip affected? [as the question applies only to the Rubicon Reservoir.]
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- During your visit to the Crystal Basin, were there any recreation activities that you observed or participated in that you feel may cause harm to the environment? If yes, what were they and what was their affect?
 - Scale: Yes, No, Don’t Know.
A “no” response will indicate that the respondent has no changes to recommend. A “don’t know” response will indicate that the respondent is not able to provide a qualified response. Specific activities will be recorded as open-ended responses.

60. Where are the dispersed recreational sites near Project facilities (e.g., identify and map)?

Information will be collected on areas visited or planned to visit.

Relevant survey questions:

- What other areas have you visited or plan to visit during your stay at Crystal Basin and what is the primary activity you did or will do there?
 - Scale: Respondents will be handed a map for identifying locations.

Results of the supply study will also be used to address this Issue Question.

61. What are the existing recreational opportunities (note: includes opportunities at dispersed recreational sites near Project facilities)?

Information will be collected on activities and areas visited or planned to visit.

Relevant survey questions:

- Please select the activities you have participated in or plan to participate in during this visit to Crystal Basin, excluding relaxing and camping?
 - Scale: Interviewers will use a 5-card rotation listing of 17 activities, including “other”. Randomizing the order of the activities will reduce order bias on the part of the respondent (picking the first on the list).
- What were your three most important activities?
 - Scale: Forced ranking to obtain the most preferred, 2nd most preferred, and 3rd most preferred.
- What other areas have you visited or plan to visit during your stay at Crystal Basin and what is the primary activity you did or will do there?
 - Scale: Respondents will be handed a map for identifying locations.

The results of supply study will also be used to address this Issue Question.

62. What are the existing and future use estimates for Project-related recreation?

Existing use information will be used to determine existing use estimates. Future use estimates will be based on existing recreation demand literature (Cordell etc.).

63. What is the existing level of public information and interpretation about Project-related aspects and recreational opportunities, and is it adequate?

Information will be collected on access to information.

Relevant survey questions:

- Please tell me if you feel that you have adequate access to information about: reservoir levels; campsite availability; campfire restrictions; wilderness permits; trail locations; stream flow rates &/or depths; environmental/ educational displays; fish stocking; other. If no, suggested improvements.
 - Scale: Yes, No, N/A

64. What are the opportunities for angling at Project waters and what is the level of angler satisfaction?

Information will be collected on changes to the rivers and streams, areas visited or planned to visit, changes to the shorelines of the reservoirs, reservoir levels, amount of flow in the streams, and the quality of the fishing.

Relevant survey questions:

- Are there any changes or improvements needed to make it easier or safer for you to access the rivers or streams? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- What other areas have you visited or plan to visit during your stay at Crystal Basin and what is the primary activity you did or will do there?
 - Scale: Respondents will be handed a map for identifying locations.

- Are there any changes or improvements needed to make it easier or safer for you to access the shorelines of the reservoirs? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Did the level of this reservoir allow you to participate in all of the activities you have planned? If no, how was your trip affected?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Did the amount of flow in the streams allow you to participate in all of the activities you have planned? If not, what segments of stream and how was your trip affected?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Did the quality of the fishing attract you to (reservoir or stream segment)?
 - Scale: Yes, No.
- Please rate the quality of your fishing experience at (reservoir or stream segment)?
Scale: Multiple-rating list from 1 to 4 indicating importance

65. Are there any needed or desired repairs/replacements at Project recreation facilities?

Information will be collected on changes to facilities.

Relevant survey questions:

- Are there any changes or improvements that you would like to see at this facility (this campground, boat launch or day use area)? If yes, what are they?
 - Scale: Yes, No, Don't Know.
A “no” response will indicate that the respondent has no changes to recommend. A “don't know” response will indicate that the respondent is not able to provide a qualified response. Specific activities will be recorded as open-ended responses.

66. Are there any needed or desired measures (e.g., education, engineering, enforcement) at dispersed recreational sites near Project facilities?

Information will be collected on changes to the motorized and non-motorized trail systems, harmful activities (to the environment), changes to facilities, and access to information.

Relevant survey questions:

- Would you like to see any changes or improvements to the existing motorized trail system, such as off highway vehicle trails, in the Crystal Basin? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Would you like to see changes or improvements to the existing non-motorized trail system, like hiking trails, in the Crystal Basin that you would like to see? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend. A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- During your visit to the Crystal Basin, were there any recreation activities that you observed or participated in that you feel may cause harm to the environment? If yes, what were they and what was their affect?
 - Scale: Yes, No, Don’t Know.
A “no” response will indicate that the respondent has no changes to recommend. A “don’t know” response will indicate that the respondent is not able to provide a qualified response. Specific activities will be recorded as open-ended responses.
- Are there any changes or improvements that you would like to see at this facility (this campground, boat launch or day use area)? If yes, what are they? [Dispersed questionnaire: at this location]
 - Scale: Yes, No, Don’t Know.
A “no” response will indicate that the respondent has no changes to recommend. A “don’t know” response will indicate that the respondent is not able to provide a qualified response. Specific activities will be recorded as open-ended responses.
- Please tell me if you feel that you have adequate access to information about: reservoir levels; campsite availability; campfire restrictions; wilderness permits; trail locations; stream flow rates &/or depths; environmental/ educational displays; fish stocking; other. If no, suggested improvements.
 - Scale: Yes, No, N/A

72. What are the regional recreational demands (current, past and projected) in view of the primary recreational opportunities on these projects?

Information will be collected on activities, alternate recreation experiences, and specifics on length of stay and destination of trip.

Relevant survey questions:

- Is this visit to this location: the primary destination of your trip; a side trip while camped at another location; or a stop on route to another destination (if so, where?).
- Is this visit a day trip from outside of Crystal Basin or are you staying overnight in the Crystal Basin during your visit? Record length of stay.

- Beyond the Crystal Basin, where else do you go for similar recreation experiences?
 - Scale: Specific places will be recorded as open-ended responses.
- Please select the activities you have participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping?
 - Scale: Interviewers will use a 5-card rotation listing of 17 activities, including “other”. Randomizing the order of the activities will reduce order bias on the part of the respondent (picking the first on the list).
- What were your three most important activities?
 - Scale: Forced ranking to obtain the most preferred, 2nd most preferred, and 3rd most preferred.

73. Are the existing sport fishing opportunities adequate to meet existing and future recreation demand?

Information will be collected on areas visited or planned to visit and the quality of fishing.

Relevant survey questions:

- What other areas have you visited or plan to visit during your stay at Crystal Basin and what is the primary activity you did or will do there.
 - Scale: Respondents will be handed a map for identifying locations.
- Did the quality of the fishing attract you to (reservoir or stream segment)?
 - Scale: Yes, No.
- Please rate the quality of your fishing experience at (reservoir or stream segment)?
 - Scale: Multiple-rating list from 1 to 4 indicating importance.

CRYSTAL BASIN UARP FACILITIES - PEOPLE DAYS

	Reservoir	Sites	1996	1997	1998	1999	Average Visitors (in RVDs)	People Days	Comments
Pleasant	L	10	784	949	751	949	858	572	
Red Fir Group	L	1	1262	1382	407	1379	1108	738	
<i>Total for Loon Lake Reservoir</i>		101						20816	
TOTAL		680	174370	209232	193578	178056	210716	161294	
PICNIC AREAS/TRAILHEADS									
Ice House	I		1954	1258	724	1178	1279	7656	
Fashoda	U		779	695	444	171	522	3127	
Gerle Creek	G		318	501	269	52	285	1707	
Angel Creek	G		121	238	300	143	201	1201	
Loon Lake Wilderness Parking	L		124	148	164	183	155	927	
TOTAL			3296	2840	1901	1727	2441	14617	
CRYSTAL BASIN TOTAL			195275	227601	205001	192159	226916	341682	
<u>Assumptions:</u>									
A. Boating: 1 RVD ~ 12 people for 1 hr. (100 RVDs = 100/.083 = 1,200 people days)									
People Days Calculation: Avg. RVD/.083 (people/hr)									
B. Campgrounds: 1 RVD = 1.5 person days (100 RVDs = 66.6 people days)									
People Days Calculation: Avg. RVD/1.5 (people days)									
C. Picnic Areas: 1 RVD ~ 6 people for 2 hrs. (100 RVDs = 100/.167 = 600 people days)									
People Days Calculation: Avg. RVD/.167 (people/hr)									
¹ Includes use counts for boat launch site camping.									

CRYSTAL BASIN UARP FACILITIES - PEOPLE DAYS

	Reservoir	Sites	1996	1997	1998	1999	Average Visitors (in RVDs)	People Days	Comments
Rainfall - (from Mountain Democrat)			43 inches	51 inches	61 inches	41 inches			
BOAT LAUNCH FACILITIES									
Ice House	I		3206	3914	2105	2656	2970	35786	
Yellowjacket	U		332	255	250	276	278	3352	
Sunset	U		2401	2476	2126	2471	2369	28536	
Westpoint	U		2008	1677	1175	3544	2101	25313	
Loon Lake (includes picnic area)	L		9662	7207	3866	3429	6041	72783	
TOTAL			17609	15529	9522	12376	13759	165771	
CAMPGROUNDS¹									
Ice House	I	83	45229	51936	48280	36398	45461	30307	
Northwind	I	9	5050	5193	4952	4831	5007	3338	
Strawberry Pt.	I	10	5451	7714	4516	4762	5611	3741	
<i>Total for Ice House Reservoir</i>		102						37385	
Azalea Cove/Lone Rock	U	15					3000	2000	
Big Silver Group	U	1					4000	2667	
Camino Cove	U	32					9000	6000	
Fashoda	U	30	6741	4590	5934	6074	5835	3890	
Jones Fork	U	10	4313	6473	5090	4258	5034	3356	
Sunset	U	131	48320	52245	50045	41115	47931	31954	
Wench Creek Family	U	100	24488	25398	25694	24933	25128	16752	
Wench Creek Group	U	2	7548	7271	4628	8453	6975	4650	
West Point	U	8					4000	2667	
Wolf Creek	U	42	689	8274	9938	11910	7703	5135	
Yellowjacket	U	40	12246	12654	11744	13299	12486	8324	
<i>Total for Union Valley Reservoir</i>		411						87394	
Airport Flat	G	16		8998	8131	5758	7629	5086	
Gerle Creek	G	50	14295	18486	14626	16265	15918	10612	
<i>Total for Gerle Creek Reservoir</i>		66						15698	
Loon Lake (includes boat ramp RV + Equestrian)	L	71	18414	22325	18333	13449	18130	12087	
Loon Lake Chalet	L	1	1547	1277	1918	1579	1580	1054	
Loon Lake Group	L	2	5748	4778	3899	3185	4403	2935	
Loon Lake Eq. Group	L	1	654	953	1253	1007	967	645	
Northshore	L	15	4620	5593	2877	3625	4179	2786	

Appendix A.2 Summary of Pretesting conducted on May 18, May 25, and June 15, 2002.

Summary of May 18, 2002, Pretest Relicensing Survey of Crystal Basin Visitors related to UARP Sacramento Municipal Utility District

Background:

On May 18, 2002, Ann Graef (Research & Evaluation, SMUD), Carol Efird (Recreation Lead, consultant to SMUD) and Joe Davis (UARP Relicensing Project, SMUD) conducted 9 pretest interviews at Ice House Campground and Ice House Picnic Area. The purpose of the pretest was to answer questions such as: (1) do the respondents understand the questions? (2) do the respondents understand the scales? (3) do the respondents understand the instructions? (4) see how long it takes, (5) see how easy or difficult the respondents find it, (6) ask them about their reactions and suggestions when finished, and (7) look for any serious errors, oversights or problems.

The staff also drove to Frisco Ford area and Jones Wreckum Road area (both areas are adjacent to Jones Fork Silver Creek) to pretest the Dispersed Appraisal Survey, however no recreationist were present at the Frisco Ford area, and the main gate was closed at the beginning of Jones Wreckum Road.

Summary:

Overall, staff believes respondents understood the survey questions, scales, and instructions very well. The average time was 13 minutes; the targeted time was 10 minutes. After the interviews staff discussed and made minor changes to several questions, as noted below.

- Removed the checkbox next to the staying overnight response on question 4 in order to avoid accidentally not recording the detailed camping information. Also emphasized the word “hours” to be sure to capture this information.
- Spelled out off highway vehicle where appropriate.
- Added a category of “no opinion” to questions 10 through 17, and 19 through 20 as the pretest revealed that there was another option for the respondent other than yes or no.
- Provided a more detailed explanation of motorized and non-motorized in question 19 and 20 to help the respondent clearly understand what was being asked.

- Changed the wording on questions 5, 16 and 20 to make it easier for the interviewee to read the question.
- Made two separate questions out of 19 and 19A for ease of administering the question.
- Added an N/A response to question 20 as the pretest revealed that there was another option for the respondent other than yes or no.
- Added interview start time and stop time.
- Because the average time exceeded the target time, we removed the following demographic questions: (a) age, (b) education, and (c) ethnicity. These questions do not contribute substantially to answering the Issue Questions and they generate a sense of discomfort for the interviewer and interviewee.
- We also changed the mapping exercise to identify other areas the visitor has visited or plans to visit during this trip. During the pretest we handed the visitor a clipboard with a colored map of the Crystal Basin, pointed to their present location and asked them to make the following marks with a black marker: “C” for camping, “V” for visited, “P” for planned to visit and “F” for fished or plan to fish. This approach was time consuming prior to and immediately after the interview, and overall made for a more complex task for the interviewer. Staff determined we could get the same data (general location), plus primary activity (hiking, fishing, etc.) by simply using the Crystal Basin Recreation Area map and having the interviewer record the responses verbalized by the respondent.

Summary of May 25, 2002, Pretest and additional Consultation
Relicensing Survey of Crystal Basin Visitors related to UARP
Sacramento Municipal Utility District

Background:

On May 25, 2002, Ann Graef, Carol Efird, Joe Davis and three other members of the survey team conducted a total of 15 pretest personal interviews, testing the following three survey instruments: Developed, Dispersed and Dispersed Appraisal. The personal interviews were conducted at Ice House Reservoir, Union Valley Reservoir, Gerle Creek Reservoir, Millionaire Camp (adjacent to Big Silver Creek), and Frisco Ford (adjacent to Jones Fork Silver Creek).

The purpose of the pretest was to answer questions such as: (1) do the respondents understand the questions? (2) do the respondents understand the scales? (3) do the respondents understand the instructions? (4) see how long it takes, (5) see how easy or difficult the respondents find it, (6) ask them about their reactions and suggestions when finished, and (7) look for any serious errors, oversights or problems.

Summary:

Overall, staff believes respondents understood the survey questions, scales, and instructions very well. The average time was 17 minutes for the Developed surveys; the targeted time was 10 minutes. There were two refusals. Staff also completed five pretests of the Appraisals with a primary objective of testing timing. The average time was 7 minutes and the targeted time was 5 minutes.

After the interviews staff discussed and made minor changes to several questions, as noted below.

- Confirmed that moving the user profile questions (zip code, number in group, and years visiting the area) earlier in the survey was an easy start of the interview.
- Need to emphasize to the interviewer the motorized and non-motorized trail systems.
- Need to stress to interviewers the importance of noting fishing as an activity early on as it drives the fishing questions towards the end of the survey.
- Time solicited from the respondent will be 15 minutes up front instead of 10. Appraisals will remain at 5 minutes.

Additional changes were incorporated into the June 15th pretest survey instrument as a result of dialogues with Eldorado National Forest (ENF) staff and other interested parties.

In response to concerns raised by the ENF in its letter dated May 21, 2002, staff from SMUD consulted with staff from the ENF, the National Park Service and other interested parties during late May and the first half of June and (1) developed a draft Survey Process Paper and (2) made refinements to the Developed survey instrument.

On June 11, 2002, a subgroup of participants discussed the draft Survey Process Paper and worked collaboratively to make changes to the survey questions. The participants were: Jeff Marsolais and Rich Platt, ENF; Dr. John Titre and Dr. Allan Mills, recreation survey consultants to the ENF; Bill Center, American River Recreation Association; Judy Mathat, El Dorado County Republican Association; and Dave Hanson, Ann Graef and Joe Davis, SMUD. Among other changes, the subgroup collectively reached a consensus to (1) modify the hypothetical survey question by adding “if the dams had not been built...” and deleting “meaning fewer developed recreation facilities and the absence of a lake, ...”, and (2) split the “settings” table question into two separate questions, one for “settings” (amended to read: mountain/forested area; natural lakes and ponds; reservoirs; and rivers/streams), and the other for “facilities and services” (boat launch ramps; developed campgrounds; developed swimming/beach areas; non-motorized trails; off-road vehicle trails; picnic facilities; and two-lane paved road access).

On June 14, 2002, a subgroup of participants met to continue the dialogue on refinements to the survey instrument from the June 11 meeting, focusing specifically on wording and reducing or

minimizing potential biases. Attendees included Jeff Marsolais, ENF; Dr. Titre and Dr. Mills, consultants to the ENF; Harry Williamson, NPS; Jim Eicher, BLM; Ann Graef and Joe Davis, SMUD. Specific modifications were offered by the participants, most of which were accepted by SMUD staff.

As a result of these efforts, the following refinements were made to the survey instrument:

- The question probing a day trip versus overnight stay was amended to read as a two-part question in order to avoid having an interviewer inadvertently forgetting to probe for the camping destination portion of the question.
- Wherever appropriate, probes will be provided for the interviewer to record open-ended responses.
- “Yes” and “no” select boxes will be randomized.
- Interviewers will be instructed to record answers verbatim.
- Amend the questions regarding ease and safety to be separate questions. An additional factor of enjoyment will be added.
- Scale on the settings question was amended from “not at all important” to “very unimportant.” Settings were amended to read as mountain/forested area, natural lakes & ponds, reservoirs, and rivers/streams. A second question was added to further probe the developed facilities which include boat launch ramps, developed campgrounds, developed swimming/beach areas, non-motorized trails, off highway vehicle trails, picnic facilities, and two-lane paved road access.
- Changed “lightly crowded” to “slightly crowded”.
- Added specific location to the other areas/activities question.

Summary of June 15, 2002, Pretest
Relicensing Survey of Crystal Basin Visitors related to UARP
Sacramento Municipal Utility District

Background:

On June 15, 2002, Ann Graef, Joe Davis and seven other members of the survey team conducted a total of 12 pretest personal interviews using the “Developed” survey instrument. The personal interviews were conducted at Fashoda Campground or Sunset Campground, both at Union Valley Reservoir. The purpose of the pretest was to answer questions such as: (1) do the respondents understand the questions? (2) do the respondents understand the scales? (3) do the respondents understand the instructions? (4) see how long it takes, (5) see how easy or difficult

the respondents find it, (6) ask them about their reactions and suggestions when finished, and (7) look for any serious errors, oversights or problems. We paid particular attention to respondents ability to comprehend several modifications made as a result of the June 11 and June 14, 2002, survey design meetings (see the May 25, 2002 pretest summary for a description of those modifications).

Summary:

Overall, staff believes respondents understood the survey questions, scales, and instructions very well. The average time was 17 minutes for the Developed surveys; the targeted time was 15 minutes. After the interviews staff discussed and made minor changes to several questions, as noted below.

- Made several changes to improve clarity and efficiency in the directions; these changes should quicken the overall survey time.
- Further refined the questions regarding improvements to the shorelines of the reservoirs and rivers or streams to make the probing simpler for the interviewer. Each question is now clearly phrased as three separate components – easier, safer, and more enjoyable.
- Further refined the questions regarding conflicting activities and harmful activities to separate out non-recreation activities from recreation activities.
- The access to information question was amended to probe for adequate/inadequate/never looked for information as opposed to yes/no/n/a.
- Added a primary activity code list to the plan to visit/activity question to keep it consistent with the activities question.
- Added a N/A response to rating the quality of fishing as respondents may be at the location but has not been able to fish prior to being interviewed.

As a result of the June 15th pretesting session, the final survey instruments will be crafted, with formatting considerations (i.e. page breaks).

A windshield version of the survey instrument has also been developed; one for the Canyonlands and one for the Crystal Basin. Directions were written to fit an audience of mail-in versus personal interview, and questions were reworded slightly to reflect a past tense scenario as a mail-in will more than likely be completed at the respondent's home after completion of their visit.

Appendix A.3 Summary of Notifications to Participate in the Development of 2002 Summer Surveys

The following is a chronology of notifications informing Alternative Licensing Participants of the Licensee's consultations with the Eldorado National Forest (ENF) survey team and other interested parties in developing surveys for the summer 2002 season, particularly in the areas of collection methods, sampling locations, survey design, schedule and instrumentation.

In summary, the participants were frequently invited to and informed of the survey development meetings. The Licensee notified participants prior to and throughout the survey development period, keeping members informed of upcoming meetings and the topics being addressed. In addition, the Licensee's notifications consistently encouraged participation by all who were interested.

In most cases during survey development, products drafted by the Licensee were distributed to participants via email at least three days before a scheduled meeting. However, there were times when survey instrument meetings occurred within a few days of each other, making it extremely difficult if not impossible to distribute a revised survey instrument three days prior to the meeting.

In keeping with this collaborative process, once survey work begun, the Licensee maintained a monthly field schedule of the survey dates and locations on its relicensing website and distributed copies of the schedule during Plenary Group meetings. The Licensee invited participants in both the Plenary Group and Recreation Technical Working Group (TWG) to observe the survey work throughout the summer. In addition, a field trip to survey sites was scheduled during the summer, but no interested parties signed up to attend.

March 6, 2002, Plenary Group approves Visitor Use and Impact Study Plan (study plan). The study plan states the surveys will be "developed by the Licensee in consultation with the Eldorado National Forest and other interested stakeholders."

April 10, 2002, the Licensee notifies the Recreation TWG of the schedule the Licensee and the Eldorado National Forest staff will follow to finalize the surveys and invites all who are interested to participate. The schedule identified specific work tasks and meetings to occur from April 17 to May 22. This schedule was developed with a goal of commencing surveys on May 25, 2002.

April 19, 2002, the Licensee notifies the Recreation TWG of the May 9 meeting on sampling locations and survey instruments for the summer surveys. Once again, the schedule for finalizing the surveys is shared with the Recreation TWG participants. The May 9 meeting included an opportunity for interested Aquatics TWG participants to share their comments on sampling locations and survey instruments.

May 10, 2002, the Licensee notifies the Recreation TWG participants of status of survey development, provides an updated schedule of meetings to finalize the survey instruments and invites interested participants to attend.

May 14, 2002, based on input from the ENF staff and other participants during the May 9 meeting, the Licensee shares modifications to the survey instruments to Jeff Marsolais, ENF lead staff for recreation surveys, and all other participants who attended the May 9 meeting.

May 17, 2002, based on input from the ENF staff and other participants during the May 16 meeting, the Licensee shares near final survey instruments with the Recreation TWG participants for review and comment.

May 23, 2002, the Licensee notifies the Plenary Group and Recreation TWG participants of postponement of initiating the survey work and presents a schedule for the next three weeks aimed at resolving concerns with the surveys, including the Licensee, in consultation with the ENF and other interested parties, developing (1) a Survey Process Paper, and (2) a stratified random sample from use estimates provided by the ENF staff at the May 22 meeting.

June 4, 2002, the Licensee provides the Plenary Group and Recreation TWG participants with the draft Survey Process Paper, invites interested participants to the June 11 meeting to discuss the draft paper, and requests specific suggestions for any modifications.

June 17, 2002, the Licensee notifies all participants who have attended any of the meetings held the last two months on this topic of the meeting scheduled for June 18 on sample design and encourages their attendance and participation. The Licensee's and the ENF's staff scheduled the June 18 meeting at the conclusion of the June 14 meeting, which was a continuation of the June 11 meeting.

June 19, 2002, the Licensee notifies all active participants of the meeting scheduled for June 24 on sample design and encourages their attendance and participation.

July 4, 2002, the 2002 summer surveys began.

Appendix A.4 Use Estimates for UARP Recreation Facilities used for Summer 2002 Survey Design.

	Reservoir	Sites	1996	1997	1998	1999	Average Visitors (in RVDs)	People Days	Comments
Rainfall - (from Mountain Democrat)			43 inches	51 inches	61 inches	41 inches			
BOAT LAUNCH FACILITIES									
Ice House	I		3206	3914	2105	2656	2970	35786	
Yellowjacket	U		332	255	250	276	278	3352	
Sunset	U		2401	2476	2126	2471	2369	28536	
Westpoint	U		2008	1677	1175	3544	2101	25313	
Loon Lake (includes picnic area)	L		9662	7207	3866	3429	6041	72783	
TOTAL			17609	15529	9522	12376	13759	165771	
CAMPGROUNDS¹									
Ice House	I	83	45229	51936	48280	36398	45461	30307	
Northwind	I	9	5050	5193	4952	4831	5007	3338	
Strawberry Pt.	I	10	5451	7714	4516	4762	5611	3741	
<i>Total for Ice House Reservoir</i>		102						37385	
Azalea Cove/Lone Rock ²	U	15					3000	2000	
Big Silver Group ²	U	1					4000	2667	
Camino Cove ²	U	32					9000	6000	
Jones Fork	U	10	4313	6473	5090	4258	5034	3356	
Sunset	U	131	48320	52245	50045	41115	47931	31954	
Wench Creek Family	U	100	24488	25398	25694	24933	25128	16752	
Wench Creek Group	U	2	7548	7271	4628	8453	6975	4650	
West Point ²	U	8					4000	2667	
Wolf Creek	U	42	689	8274	9938	11910	7703	5135	
Yellowjacket	U	40	12246	12654	11744	13299	12486	8324	
<i>Total for Union Valley Reservoir</i>		381						83504	
Airport Flat	G	16		8998	8131	5758	7629	5086	
Gerle Creek	G	50	14295	18486	14626	16265	15918	10612	
<i>Total for Gerle Creek Reservoir</i>		66						15698	
Loon Lake (includes boat ramp RV + Equestrian)	L	71	18414	22325	18333	13449	18130	12087	
Loon Lake Chalet	L	1	1547	1277	1918	1579	1580	1054	
Loon Lake Group	L	2	5748	4778	3899	3185	4403	2935	
Loon Lake Eq. Group	L	1	654	953	1253	1007	967	645	
Northshore	L	15	4620	5593	2877	3625	4179	2786	

Appendix A.4 Use Estimates for UARP Recreation Facilities used for Summer 2002 Survey Design.

	Reservoir	Sites	1996	1997	1998	1999	Average Visitors (in RVDs)	People Days	Comments
Pleasant	L	10	784	949	751	949	858	572	
Red Fir Group	L	1	1262	1382	407	1379	1108	738	
<i>Total for Loon Lake Reservoir</i>		101						20816	
TOTAL		650	200658	241899	217082	197155	236106	157404	
PICNIC AREAS/TRAILHEADS									
Ice House	I		1954	1258	724	1178	1279	7656	
Gerle Creek	G		318	501	269	52	285	1707	
Angel Creek	G		121	238	300	143	201	1201	
Loon Lake Wilderness Parking	L		124	148	164	183	155	927	
TOTAL			2517	2145	1457	1556	1919	11490	
CRYSTAL BASIN/UARP TOTAL			220784	259573	228061	211087	251784	334664	
<u>Assumptions (provided by the Eldorado National Forest):</u>									
A. Boating: 1 RVD ~ 12 people for 1 hr. (100 RVDs = 100/.083 = 1,200 people days)									
People Days Calculation: Avg. RVD/.083 (people/hr)									
B. Campgrounds: 1.5 RVD = 1 person day (100 RVDs = 100/1.5 = 66.6 people days)									
People Days Calculation: Avg. RVD/1.5 (people days)									
C. Picnic Areas: 1 RVD ~ 6 people for 2 hrs. (100 RVDs = 100/.167 = 600 people days)									
People Days Calculation: Avg. RVD/.167 (people/hr)									
¹ Includes use counts for boat launch site camping.									
² New facilities - average visitation estimated using professional judgment.									

Appendix A.5 Schedule Table for summer 2002 surveys conducted at Developed Facilities.

JULY 2002

	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
ICE HOUSE RESERVOIR																																
Boat Launch Facility	4												3	3			5	3			2		4	3			2					
Camp Ground Facilities			4								5													2	5							
Picnic Facility	4																		1													
TOTAL																																50
UNION VALLEY RESERVOIR																																
Boat Launch Facilities				3			3										10	1				2			3	1						
Camp Ground Facilities			5			1			1		1	2	5	2			4								4	1						
TOTAL																																48
GERLE CREEK RESERVOIR																																
Camp Ground Facilities	9			1	4	4	2			8	6	2	2	1		5				1			3	6			1					
Picnic Facilities											1			2			1								2	2						
TOTAL																																63
LOON LAKE RESERVOIR																																
Boat Launch Facility	6		6	3	3	5			3	4	2	2	2			6	6		4					5	1	2						
Camp Ground Facilities	1							4		1						1																
TOTAL																																67
JULY TOTAL:																																228

Appendix A.5 Schedule Table for summer 2002 surveys conducted at Developed Facilities.

AUGUST 2002

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
ICE HOUSE RESERVOIR																																	
Boat Launch Facility		3	1				3			6								3			3	2			4		1			2	3	31	
Camp Ground Facilities		4		3				4		7				4		5	6	3	5						7					2	6	56	
Picnic Facility					1																			4	4							9	
TOTAL																																96	
UNION VALLEY RESERVOIR																																	
Boat Launch Facilities		2	1			2			4	2	2				1		2	1		2		1			3				1	2	1	27	
Camp Ground Facilities	4		7	7				4		5				2	6	6	7		2									3			13	66	
TOTAL																																93	
GERLE CREEK RESERVOIR																																	
Camp Ground Facilities		3	6	3			2	2		11		2			1		12							2	8		1			2	3	6	64
Picnic Facilities	1			2	3		3			5														2							5	21	
TOTAL																																85	
LOON LAKE RESERVOIR																																	
Boat Launch Facility	1		4	3		2		1		6	5		3		2	3	7	3	1					1	6	4		2	2	2		6	64
Camp Ground Facilities			6							4	9						1	1			2		1		12					3		39	
TOTAL																																103	
AUGUST TOTAL:																																	
																																377	

Appendix A.5 Schedule Table for summer 2002 surveys conducted at Developed Facilities.

SEPTEMBER 2002

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ICE HOUSE RESERVOIR																																
Boat Launch Facility	3	4						3	1																							
Camp Ground Facilities							4	1																								
Picnic Facility							5																									
TOTAL																																
UNION VALLEY RESERVOIR																																
Boat Launch Facilities	8	6												1	2																	
Camp Ground Facilities	13																															
TOTAL																																
GERLE CREEK RESERVOIR																																
Camp Ground Facilities	12	4					1	1	2				3	4																		
Picnic Facilities																																
TOTAL																																
LOON LAKE RESERVOIR																																
Boat Launch Facility	4	4												4																		
Camp Ground Facilities	1													1																		
TOTAL																																
SEPTEMBER TOTAL:																																

JULY, AUGUST, SEPTEMBER TOTALS: 697

**Appendix A-6 Winter Recreation 2002-2003 Survey Process Paper
Draft - November 18, 2002**

This document includes: 1) a description of implementing the 2002-2003 Winter Recreation Survey and 2) mapping exercise that outlines which survey questions will provide data to answer individual issue questions.

IMPLEMENTATION

There will be two survey instruments used to collect visitor information about winter activities and services in Crystal Basin. One survey will be available to visitors at the Loon Lake Chalet for visitors (one per party) to voluntarily complete. The survey will be self administered, and will be made available on a table or counter within the Chalet's main cabin (i.e., family room / kitchen area). SMUD's graphics department will prepare a box that will hold the blank surveys and serve as a repository for completed surveys. The survey box will be attractive to draw the attention of the visitors, and will announce the purpose (e.g., Recreation Winter Survey) in a manner that is legible from any distance within the main cabin. The Chalet survey will be administered by the Forest Service staff who will be lodging in the Chalet's winter patrol quarters. SMUD will provide two survey boxes (one as a backup), and a supply of blank surveys, and will be available to assist as needed throughout the winter survey period. Upon completion, SMUD will compile the Chalet survey data.

In addition to the surveys available in the Loon Lake Chalet, SMUD will distribute windshield surveys at all winter recreation parking areas commonly plowed by SMUD along Ice House Road, including Wentworth Springs Road (toward Gerle Creek), the road to the Ice House Boat Launch facility, and vehicles at the Loon Lake Chalet.

Windshield surveys will be administered on 18 days during the winter recreation season (generally December through March), between 10:00 am and 2:00 pm. Since we don't have winter use estimates, the number of days was based on the following estimates and assumptions: 100 completed surveys is our goal, 75 from weekends and 25 from weekdays; assuming a 50 percent return rate and 20 vehicles on weekends and 5 vehicles on weekdays, 8 weekend days and 10 weekdays are needed. The survey dates will be randomly selected. If weather conditions do not permit access on the randomly selected day, surveys will be administered on the next available day (e.g., a cancelled weekend day would be rescheduled for the next available weekend day).

Distributed surveys will be logged as to specific location, date, day of week, time and weather conditions. The survey will have an envelope with pre-paid postage to return the completed survey to SMUD.

Vehicle counts will also be conducted each sample day to develop use estimates. Administrative use vehicles (i.e. ENF and SMUD) will be counted separate from visitor vehicles. The person administering the surveys will drive up to the Loon Lake Chalet and drop windshield surveys off at vehicles parked along the roads. As the observer leaves Loon Lake Chalet he/she will count

the number of parked cars and on-coming (moving) vehicles they encounter throughout the snow plowed route.

MAPPING EXERCISE

The following is a list of all recreation issue questions where information will be drawn from the responses to the winter surveys, at least in part, to answer the questions. This document is intended to be a preliminary document used to develop a Survey Process Paper similar to what was developed for the summer recreation survey effort.

The issue questions are shaded and the questions in the survey that are intended to provide information to answer the questions are shown in italics.

LU-4. What additional use could be made of Project lands compatible with the Project (e.g., transmission lines for trails)?

From the activities listed below, please select the recreational activities you participated in or plan to participate in during this visit. (Check all that apply) [List consists of cross-country skiing, snowshoeing, photography, snow play, camping, snowmobiling, fishing (lake/reservoir or stream/river), wildlife viewing, picnicking, hiking/walking, off-highway vehicle use, whitewater boating, other (please specify)]

Are there any winter recreational activities that you would like to do at the Crystal Basin that you are currently unable to participate in? If yes, what activity and why are you currently unable to participate in the activity?

Are there any changes or improvements that you would like to see:

At the Loon Lake Chalet? If yes, what changes or improvements?

Relate to parking? If yes, what are they and where?

Related to the access road? If yes, what are they and where?

Related to the winter sports trails? If yes, what changed or improvements?

Other improvements related to winter recreation in the Crystal Basin? If yes, what changes or improvements?

7.a Identify recreation needs for the Project over the term of the license, including facilities from UARP to White Rock Powerhouse. [note: this question was separated into above and below Chili Bar]

From the activities listed below, please select the recreational activities you participated in or plan to participate in during this visit. (Check all that apply) [cross-country skiing, snowshoeing, photography, snow play, snowmobiling, fishing (lake/reservoir or stream/river),

wildlife viewing, picnicking, hiking/walking, camping, off-highway vehicle use, whitewater boating, other (please specify)]

Are there any winter recreational activities that you would like to do at the Crystal Basin that you are currently unable to participate in? If yes, what activity and why are you currently unable to participate in the activity?

Are there any changes or improvements that you would like to see:

At the Loon Lake Chalet? If yes, what changes or improvements?

Relate to parking? If yes, what are they and where?

Related to the access road? If yes, what are they and where?

Related to the winter sports trails? If yes, what changed or improvements?

Other improvements related to winter recreation in the Crystal Basin? If yes, what changes or improvements?

9. What is the recreation carrying capacity for the Project with respect to the recreational experience and the ecological system?

During this visit were there any activities that conflicted with your recreation activities? If yes, what activity and what was the conflict and where did it occur?

During this visit were there any activities that you observed that you feel may cause harm to the environment? If yes, what activity and what harm was caused?

For your most important activity that you indicated in question 10, please indicate which of the following statements best describes how crowded you felt while participating in that activity? [Select one of the following: not at all crowded, slightly crowded, moderately crowded, extremely crowded, N/A]

20. What is the level of Project induced recreation (e.g., What would the recreational opportunities be today if the project were not built)?

Is this visit a day trip from outside of the Crystal Basin or are you staying in the area overnight? (Check either "day trip" or "staying overnight," and check the corresponding duration)

21. What could be done to enhance the existing recreational opportunities?

Are there any winter recreational activities that you would like to do at the Crystal Basin that you are currently unable to participate in? If yes, what activity and why are you currently unable to participate in the activity?

Are there any changes or improvements that you would like to see:

*At the Loon Lake Chalet? If yes, what changes or improvements?
Relate to parking? If yes, what are they and where?*

Related to the access road? If yes, what are they and where?

Related to the winter sports trails? If yes, what changed or improvements?

Other improvements related to winter recreation in the Crystal Basin? If yes, what changes or improvements?

22. Do existing Project related transportation facilities (e.g. roads and trails) meet current/future recreation needs?

Are there any changes or improvements that you would like to see related to parking? If yes, what are they and where?

Are there any changes or improvements that you would like to see related to the access road? If yes, what are they and where?

Are there any changes or improvements that you would like to see related to the winter sports trails? If yes, what changes or improvements?

27. Is there demand for trails under power line corridors? If so, what opportunities/constraints exist to use power line corridors as trails?

Are there any changes or improvements that you would like to see related to the winter sports trails? If yes, what changes or improvements?

31. What are the benefits of recreation associated with the UARP?

From the activities listed below, please select the recreational activities you participated in or plan to participate in during this visit. (Check all that apply) [List consists of cross-country skiing, snowshoeing, photography, snow play, snowmobiling, fishing (lake/reservoir or stream/river), wildlife viewing, picnicking, hiking/walking, camping, off-highway vehicle use, whitewater boating, other (please specify)]

35. How is recreator behavior affected by Project operations?

During this visit were there any activities that conflicted with your recreation activities? If yes, what activity and what was the conflict and where did it occur?

During this visit were there any activities that you observed that you feel may cause harm to the environment? If yes, what activity and what harm was caused?

36. What are the regional recreational opportunities in view of the primary recreational opportunities at the Project?

From the activities listed below, please select the recreational activities you participated in or plan to participate in during this visit. (Check all that apply) [List consists of cross-country skiing, snowshoeing, photography, snow play, snowmobiling, fishing (lake/reservoir or stream/river), wildlife viewing, picnicking, hiking/walking, camping, off-highway vehicle use, whitewater boating, other (please specify)]

37. What are the current and projected user conflicts related to recreation at or in the vicinity of the Project?

During this visit were there any activities that conflicted with your recreation activities? If yes, what activity and what was the conflict and where did it occur?

[For future conflicts, the survey responses will be viewed in comparison to projected types and levels of recreational uses.]

61. What are the existing recreational opportunities (note: includes opportunities at dispersed recreational sites near Project facilities)?

[results of supply study will be used to supplement]

From the activities listed below, please select the recreational activities you participated in or plan to participate in during this visit. (Check all that apply) [List consists of cross-country skiing, snowshoeing, photography, snow play, snowmobiling, fishing (lake/reservoir or stream/river), wildlife viewing, picnicking, hiking/walking, camping, off-highway vehicle use, whitewater boating, other (please specify)]

62. What are the existing and future use estimates for Project-related recreation?

How many people are in your vehicle on this visit?

If you traveled here today with people in other vehicles, how many people are in your group (please leave blank if there are no other vehicles associated with your group)?

How many years have you been visiting this area during the winter?

Is this visit a day trip from outside of the Crystal Basin or are you staying in the area overnight?(Check either "day trip" or "staying overnight," and check the corresponding duration)

[existing use information will be used to determine existing use estimates, future use estimates will be based on existing recreation demand literature (Cordell etc.)]

63. What is the existing level of public information and interpretation about Project-related aspects and recreational opportunities, and is it adequate?

Do you have adequate access to information about the following list of items? (Check one box for each item. Choices include: reservations/availability of the Loon Lake Chalet, trail locations, environmental/educational displays, road conditions, other (please specify)) If inadequate, please describe any suggestions you have for improvement.

Do you have adequate access to information about reservations and availability of the Loon Lake Chalet? If inadequate, please describe any suggestions you have for improvement. [From the LL Chalet survey instrument]

65. Are there any needed or desired repairs/replacements at Project recreation facilities?

Are there any changes or improvements that you would like to see at the Loon Lake Chalet? If yes, what changes or improvements?

Are there any changes or improvements that you would like to see at the Loon Lake Chalet? [From the LL Chalet survey instrument]

66. Are there any needed or desired measures (e.g., education, engineering, enforcement) at dispersed recreational sites near Project facilities?

Are there any changes or improvements that you would like to see:

At the Loon Lake Chalet? If yes, what changes or improvements?

Relate to parking? If yes, what are they and where?

Related to the access road? If yes, what are they and where?

Related to the winter sports trails? If yes, what changes or improvements?

Other improvements related to winter recreation in the Crystal Basin? If yes, what changes or improvements?

During this visit were there any activities that you observed that you feel may cause harm to the environment? If yes, what activity and what harm was caused?

72. What are the regional recreational demands (current, past and projected) in view of the primary recreational opportunities on these projects?

Beyond the Crystal Basin, where else do you go for similar winter recreation experiences? Please provide the names of up to three areas that you visit.

Questions are included in the survey to provide data to assess where visitors are coming from and their 'profile'. This information will be used in developing the Recreation Plan (i.e., measures designed to fit the users).

Plan for UARP Stream Angler Focus Group
February 28, 2004

1.0 Background. SMUD is presently nearing the end of the data collection process needed for its Upper American River Project (UARP or Project) relicensing application, which will be filled with the FERC in July 2005. In 2002 and 2003, SMUD conducted several studies involving surveys of visitors to the UARP reservoirs and surrounding areas.

On January 28, 2004, the Recreation Technical Working Group (TWG) completed its initial review of the 2002 survey results relative to fishing and identified concerns. In general, the concerns focused on whether the data collected in the 2002 survey effort is adequate to address the following two issue questions:

- What are the opportunities for angling at Project waters and what is the level of angler satisfaction?
- Are the existing sport fishing opportunities adequate to meet existing and future recreation demand?

Relative to stream fishing below Project dams, the Recreation TWG determined that an additional focused effort is needed to adequately address the issue questions. The group agreed to (1) develop and convene a focus group of people who are knowledgeable on stream fishing at or near the streams below Project dams, and (2) SMUD will conduct additional analysis of the 2002 survey data. After reviewing the results of these efforts, the Recreation TWG will decide if a focused surveying effort of stream anglers is warranted later this year.

The following is the UARP Stream Angler Focus Group Plan (Plan). On or about March 10, 2003, SMUD will mail an invitation to the identified focus group participants. Interested Recreation TWG members are encouraged to attend and observe the focus group session.

2.0 Focus Group Plan Approval. On February 18, 2004, the Recreation TWG's fishing subgroup met and made revisions to the draft Plan; participants were: Stafford Lehr, California Department of Fish and Game; Sharon Stohrer, State Water Resources Control Board; Harry Williamson, National Park Service; Tami Zemel, El Dorado County Water Agency; Bill Center, American River Recreation Association; Chris Shutes, citizen; and Dave Hanson and Joe Davis, SMUD. On February 19, 2004, SMUD emailed the revised draft Plan to the members listed above, as well as to the following Forest Service fishing subgroup members: Jann Williams, Lester Lubetkin, Jeff Marsolais, Rich Platt and Beth Paulson, for final review and approval. As of February 28, 2004, no comments or suggested changes were received from the subgroup members, thus this Plan is deemed acceptable to the subgroup and will be implemented.

3.0 Focus Group Design. Targeting 8 to 15 experienced stream anglers who are knowledgeable about central Sierra Nevada streams (1,000 ft to 6,000 feet) with past experience in stream fishing in the Crystal Basin or streams below UARP dams (e.g., Gerle Creek, South Fork Silver Creek, Silver Creek, and the South Fork American River) to participate in a one-day (5 hours

with a meal provided) focus group consisting of individual surveys and group discussion (the group discussion will be audio taped). The focus group will be facilitated and the results will be documented in a report. Recreation TWG members will identify the stream anglers. Preliminary participants include:

<u>Angler Name</u>	<u>Residence</u>	<u>agree to participate /follow up person</u>
Tim Davis	Pollock Pines	yes (Chris Shutes)
Grant Nelson	Placerville	yes (Joe Davis)
Dr. Michael Matus?	EDC	? (Joe Davis)
Monte Hendricks	EDC	yes (Joe Davis)
Bob Pirtle?	?	? (Stafford Lehr)
John Murphy?	?	? (Mike Meinz)

On February 7, 2004, Chris Shutes posted a notice on Kiene's bulletin board requesting participants. Kiene's is a fly shop in Sacramento. On February 17, 2004, Bill Felts, Conservation Policy Director, California Fly Fisher's Unlimited (CFFU), emailed a request for participation to the CFFU local membership.

4.0 Where. **El Dorado Hills Fire Station No. 85**, 990 Lassen Lane, El Dorado Hills. Located on corner of El Dorado Hills Boulevard and Lassen Lane, near Raleys and across from the driving range.

5.0 When. Saturday, **April 10**, from 9:00 am to 2:00 pm (SMUD will provide lunch)

6.0 Survey questions and group discussion.

6.1 Survey questions

6.1.1 Survey questions on general stream fishing in central Sierra Nevada

1. About how many times per year do you fish in central Sierra Nevada streams?
2. What kind of fish do you typically fish for when fishing central Sierra Nevada streams?
3. What time of year do you typically fish central Sierra Nevada streams, and why?
4. Which days of the week and what time of the day do you typically fish central Sierra Nevada streams, and why?
5. About how many total people are typically in your group when you fish central Sierra Nevada streams?
6. What attributes do you consider in determining whether a central Sierra Nevada stream offers a quality stream fishing experience?

6.1.2 Survey questions listed in 6.1.3 will be asked for each stream segment listed below:

1. Rubicon River from Rubicon Reservoir Dam to Hell Hole Reservoir.
2. Gerle Creek from Loon Lake Dam to Gerle Creek Reservoir.
3. South Fork Rubicon River from Robbs Forebay Dam to confluence with Rubicon River.
4. South Fork Silver Creek from Ice House Dam to Junction Reservoir.
5. Silver Creek from Junction Dam to Camino Reservoir.
6. Silver Creek from Camino Dam to confluence with South Fork American River.
7. South Fork American River from Camino Powerhouse to Slab Creek Reservoir.
8. South Fork American River from Slab Creek Dam to Chili Bar Reservoir.

6.1.3 Gerle Creek from Loon Lake Dam to Gerle Creek Reservoir

1. Have you ever fished this stream before? Yes or No. If no, please go to question x (next stream).
2. About how many times have you fished this stream in the past?
3. What kind of fish do you typically fish for in this stream?
4. What time of year do you typically fish this stream, and why?
5. Which days of the week and what time of the day do you typically fish this stream, and why?
6. Where do you typically park your vehicle when you fish this stream?
7. Are improvements needed to make access to this stream...

Easier? Yes, No, No Opinion. If yes, what improvements and where?
Safer? Yes, No, No Opinion. If yes, what improvements and where?
More enjoyable? Yes, No, No Opinion. If yes, what improvements and where?
8. Relative to other central Sierra Nevada streams, please characterize this stream in terms of the quality of the stream fishing experience.
9. Relative to other central Sierra Nevada streams, please characterize the amount of fishing use that this stream presently gets.

10. Please describe how the flows you have encountered when fishing this stream have affected your fishing experience.
11. Would flow data on the internet for this reach be beneficial to stream anglers? Yes, No, No Opinion.

6.2 Group discussion

The group discussion questions will focus on the following general survey questions and specific stream survey questions, lead by the facilitator.

6.2.1 General survey discussion questions

Topic: WHEN DO YOU FISH

1. What time of year do you typically fish central Sierra Nevada streams, and why?
2. Which days of the week and what time of day do you typically fish central Sierra Nevada streams, and why?

Topic: QUALITY AND SATISFACTION

3. What attributes do you consider in determining whether a central Sierra Nevada stream offers a quality stream fishing experience?

6.2.2 Specific stream reach discussion questions (first prioritize stream reaches based on the number of participants who have fished the reach before):

Topic: WHEN DO YOU FISH

1. What time of year do you typically fish this stream, and why?
2. Which days of the week and what time of day do you typically fish this stream, and why?

Topic: ACCESS

3. Where do you typically park your vehicle when you fish this stream?
4. Are improvements needed to make access to this stream...

Easier? Yes, No, No Opinion. If yes, what improvements and where?

Safer? Yes, No, No Opinion. If yes, what improvements and where?

More enjoyable? Yes, No, No Opinion. If yes, what improvements and where?

Topic: QUALITY & SATISFACTION

5. Relative to other central Sierra Nevada streams, please characterize this stream in terms of the quality of the stream fishing experience.
6. Relative to other central Sierra Nevada streams, please characterize the amount of fishing use that this stream presently gets.
7. Please describe how the flows you have encountered when fishing this stream have affected your fishing experience.
8. Would flow data on the internet for this reach be beneficial to stream anglers? Yes, No, No Opinion.

Protocols for 2004 UARP Reservoirs Creel Survey
March 10, 2004

1.0 Background. SMUD is presently nearing the end of the data collection process needed for its Upper American River Project (UARP or Project) relicensing application, which will be filed with the FERC in July 2005. In 2002 and 2003, SMUD conducted several studies involving surveys of visitors to the UARP reservoirs and surrounding areas.

On January 28, 2004, the Recreation Technical Working Group (TWG) completed its initial review of the 2002 survey results relative to fishing and identified concerns. In general, the concerns focused on whether the data collected in the 2002 survey effort is adequate to address the following two issue questions:

- What are the opportunities for angling at Project waters and what is the level of angler satisfaction?
- Are the existing sport fishing opportunities adequate to meet existing and future recreation demand?

Relative to fishing in Project reservoirs, the Recreation TWG determined that an additional focused creel survey is needed to adequately address the issue questions. The group agreed to (1) develop and conduct a focused creel survey of anglers at Ice House, Union Valley and Loon Lake Reservoirs, and (2) SMUD will conduct additional analysis of the 2002 survey data, including the 02-03 winter survey data.

Below are the protocols for the 2004 UARP reservoirs creel survey (Protocols). The results of the creel survey will be documented in a technical report.

2.0 Creel Survey Protocols Approval. On February 18, 2004, the Recreation TWG's fishing subgroup met and made revisions to the draft Protocols; participants were: Stafford Lehr, California Department of Fish and Game (CDFG); Sharon Stohrer, State Water Resources Control Board; Harry Williamson, National Park Service; Tami Zemel, El Dorado County Water Agency; Bill Center, American River Recreation Association; Chris Shutes, citizen; and Dave Hanson and Joe Davis, SMUD. On March 2, 2004, SMUD emailed the revised draft Protocols to the members listed above, as well as to the following Forest Service fishing subgroup members: Jann Williams, Lester Lubetkin, Jeff Marsolais, Rich Platt and Beth Paulson, for final review and approval. As of March 10, 2004, no comments or suggested changes were received from the subgroup members, thus the Protocols are deemed acceptable to the subgroup.

3.0 Study Objectives. The primary objective of the creel survey for the UARP reservoirs is to estimate fishing effort, catch rate, and angler satisfaction. The basic protocols used by the CDFG in conducting creel surveys will be followed in this survey effort. SMUD will also use the CDFG's creel survey software package to analyze the effort and catch data. The information generated from this study will aid in fish stocking programs and other management decisions related to the recreational fishery at the Project reservoirs.

4.0 Sampling Plan. SMUD will implement a random sampling plan in conducting the surveys, similar to the sampling plans used for the 2002 and 2003 visitor surveys conducted at the UARP developed facilities. Per a recommendation by Stafford Lehr, CDFG, the sample period will focus on the shoulder seasons (March 20 through June 30, and September 7 through October 31).

The sampling plan differentiates between midmorning/midday and afternoon/evening, as well as weekday and weekend.

SMUD will collect data during the creel survey using an on-site intercept method, which will employ face-to-face interviews. There are two basic approaches to the intercept method that are commonly used in creel surveys: the roving method and access point method. Each method has advantages and disadvantages. The roving method has the advantage of efficiently collecting data in a short period of time. It also is useful in circumstances where there are multiple points of access to a lake, as well as multiple opportunities to fish such as docks, piers, and shoreline areas. However, this method suffers from the fact that the interviewer meets the angler on the lake before the angler has completed his/her fishing experience. This method also tends to select for anglers whose fishing experience is long in duration. Short-duration anglers would be less likely to be included in the roving method. The access point method focuses on the point of ingress and egress from the lake, positioning the interviewer at a boat launch site. Because the three reservoirs under consideration have either one or two primary boat ramps (Union Valley has two primary boat ramps used by anglers – Sunset and West Point), the point access method has significant advantages for this study. The general advantage of the point access method is that it captures the full angler's experience via exit interviews. The point access method can also be cost effective. Based on these considerations, SMUD intends to use the point access method for this study.

As the interviewer is the dominant factor in the value of the data obtained, interviewers will be carefully screened and selected. Prior to conducting the actual surveys, all interviewers will be trained in the role and nature of the study, the role and importance of the interviewer, unbiased interviewing techniques, safety, and proper recording of respondent answers. All interviewers will participate in a pre-survey site visit in order to orient themselves to the geography and completed onsite practice sessions. Members of the field survey team will be selected on the basis of demonstrated knowledge/experience in recreation/fisheries resources.

4.1 Locations. Surveys will occur at all developed boat launch facilities and adjacent shoreline area, excluding the boat launch at Yellowjacket Campground on Union Valley Reservoir because it receives limited use by anglers relative to the other two boat launch facilities on the reservoir.

- Ice House Reservoir (Ice House Boat Launch Facility)
- Union Valley Reservoir (Sunset and West Point Boat Launch Facilities)
- Loon Lake Reservoir (Loon Lake Boat Launch Facility)

4.2 Design. Each reservoir is considered a separate population. The survey population is considered to be all anglers, regardless of age, who have just completed a fishing experience on

the reservoir in a boat, as well as those shore anglers who are in the vicinity of the boat launch facility. All angler effort will be documented in the survey.

The Forest Service provided 1999 through 2002 visitor use data in people days for each facility. From this data, SMUD estimated the average annual visitation for boat launch facilities per reservoir (Table 1). A sample size of approximately 100 per reservoir will be the goal, resulting in a 95% confidence level within a margin of error of $\pm 10\%$ for each reservoir. The survey instrument will be designed to anticipate the potential for limited sub-sampling, for example, spring respondents versus fall respondents.

Table 1. Boat Launch Facility Population Estimates and Sample Size.

Reservoir	Total estimated annual boat launch facility use	Sample size needed for 95% CI within $\pm 10\%$ margin of error
Union Valley Reservoir	18,240	96
Loon Lake Reservoir	8,176	95
Ice House Reservoir	14,278	95

4.3 Schedule. Interview surveys will be conducted during the shoulder seasons in 2004, with the actual survey period being March 20 through June 30, and September 7 through October 31. As was done in the 2002 and 2003 survey efforts, the actual sampling days will be determined randomly. Surveying will occur during the following four-hour interview periods at the boat launch facilities:

- Morning/midday - 10:00 am to 2:00 pm
- Afternoon/evening - 3:00 pm to approximately sunset

SMUD will schedule two consecutive interview periods during the same day (defined as a survey unit). This helps make the survey cost effective by allowing one surveyor to complete two interview periods per trip to the Crystal Basin (or per day). SMUD will randomly schedule the following three different survey units:

- Survey Unit 1 = Union Valley Reservoir then Ice House Reservoir
- Survey Unit 2 = Ice House Reservoir then Loon Lake Reservoir
- Survey Unit 3 = Loon Lake Reservoir then Union Valley Reservoir

A total of 36 survey units will be performed (i.e., surveys will occur on 36 different days, each day will include two four-hour survey periods). Each survey unit will be scheduled to occur 12 times each. Because Union Valley has two primary boat launch facilities used by anglers, SMUD considered use estimates for each, along with professional judgment, to arrive at a split as follows: approximately 60 percent of the surveys will occur at Sunset and 40 percent will occur at West Point.

At the February 18, 2004, Recreation TWG fishing subgroup meeting, the participants developed and agreed to the distribution schedule shown in Table 2. Thus, for each reservoir, a total of 24 four-hour survey periods will be conducted.

Table 2. Breakdown of Survey Periods per Reservoir.

Timeframe	Number of Weekend Survey Periods	Number of Weekday Survey Periods	Total
March 20 through April 30	4	0	4
May 1 through June 30	6	9	15
September 7 through October 31	5	0	5
Total	15	9	24

5.0 Instrumentation. Face-to-face survey instruments will be used at the three reservoirs. To create recreation user profiles, the respondents will be asked their zip code of residence. Standard demographic questions will not be included in the interest of reducing interview time when weighed with the fact that the purpose of the survey is not to profile users for marketing efforts.

Interviewers will be provided with an introduction script that identifies the need for collecting the information, obtains the potential respondent’s cooperation, and reassures the respondent of the confidentiality of responses. At no time will the interviewer pressure the angler for information that the angler is unwilling to provide. In particular, the interviewer will not pressure the angler to inspect the creel, if the angler is resistant.

Effort and catch data will be logged onto creel survey field forms developed by CDFG, as modified for this survey effort. All angler effort and catch data will be documented (including youth effort), however the same angler will not be interviewed twice in the same day at the same reservoir. Effort is measured per rod, e.g., an angler fishing for 4 hours with two rods is 8 hours of effort.

Qualitative data will be documented onto a single-page survey instrument, similar in format to the instrument used for the 2002 survey effort. Only one angler per group will be asked to respond to the qualitative survey questions. The interviewer will select the respondent via a “birthday quiz” whereby selection is made based on the closest birthday to the date of survey.

Interviewers will be instructed to repeat questions and instructions upon the request of the respondent or in clear instances where the respondent appears to need clarification. Interviewers will not paraphrase any question in order not to interject interviewer bias. Interviewers will be asked to record open-ended responses verbatim in order not to interject interviewer bias. This means they will not record a “story” that comes with the answer but will record the actual message verbatim.

Given the experience SMUD has in conducting the 2002 and 2003 survey efforts, the soon approaching start date (March 20), and the fact that the creel survey questions are relatively standardized, no pretesting will be conducted.

6.0 Data Management

6.1 Collection. Completed survey data will be collected on a regular basis by a survey team lead and reviewed for completion and proper recording. Face-to-face interviews will be conducted with a minimum of interruption to the recreation users. Boat launch interviews will be conducted at facility exit points, after the angler has fished. Interviewers will be disciplined in potential interviewing error and bias. During times when no boat anglers are exiting the reservoir, interviewers should interview any shore anglers present in the general vicinity of the boat launch facility.

Safety and courtesy are very important. Interviewers will be instructed on the importance of safe work habits, including while driving to and from the survey location, and being civil and courteous to everyone encountered.

6.2 Processing. All open-ended questions will be coded, consistent with the codes used in the 2002 survey effort, or left verbatim. As data is entered, effort will be made to control data record errors. Ten percent of all surveys will be double entered, to verify accuracy in reporting. In addition, frequencies checks will be performed at every 50th entry to look for errors.

7.0 Data Analysis

7.1 Statistical Tool Selection. The CDFG creel survey software package will be used to document and analyze the effort and catch data. Based on the nature of the qualitative survey data, the Statistical Package for the Social Sciences (SPSS) will be used to document and analyze the qualitative data. Frequencies and percentage tables of responses and averages will be used for categorical data. Results will be provided in table and graphic formats. Statistical tests for significance will be run to measure the relationships between variables where appropriate.

7.2 Analysis and Survey Questions. The following is a preliminary look at how the two Issue Questions will be addressed, at least in part, using information drawn from the creel surveys. Other types of intelligence to be used to help answer the Issue Questions include results of other UARP relicensing studies, published or otherwise available information, interviews with key operational and managing staff, and professional opinion.

Information will be collected in two primary areas: (1) effort and catch data, and (2) qualitative data.

Relevant effort and catch survey questions:

- Hours fished?
- Number of rods used at once?
- What kind of fish are you fishing for?
- How many fish have you caught?
- How many fish have you caught and released?
- Would you mind if I record the number and sizes of the fish that you have caught?

Relevant qualitative survey questions:

- Were you satisfied with your fishing experience today? If no, why?
 - Scale: Yes, No, No Opinion.
Specific reasons for dissatisfaction will be recorded as open-ended responses.
- Are improvements needed to make access to the reservoir... easier, safer or more enjoyable? If yes, what are they and where?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend.
A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.
- Did the level of this reservoir allow you to participate in all of the activities you have planned? If no, how was your trip affected?
 - Scale: Yes, No, No Opinion.
A “no” response will indicate that the respondent has no changes to recommend.
A “no opinion” response will indicate that the respondent is not able to provide a qualified response. Specific changes and recommendations will be recorded as open-ended responses.

APPENDIX B

SURVEY INSTRUMENTS

- B.1 Developed
- B.2 Dispersed
- B.3 Dispersed Windshield – Crystal Basin
- B.4 Dispersed Windshield – Canyonlands
- B.5 Winter 2002-03 Windshield
- B.6 Winter 2002-03 Chalet
- B.7 Forms for Stream Angler Focus Group
- B.8 Data Sheet for Creel Census Data
- B.9 Data Sheet for Qualitative Creel Data

RECREATION USE QUESTIONNAIRE
(Use at Developed Sites: Campgrounds, Day Use Areas and Boat Launches)

Location (*Circle one*): ¹Ice House Res. ²Union Valley Res. ³Gerle Cr. Res. ⁴Loon Lake

Specific Facility (*Record campsite no. if applicable*): _____

Day of the week (*Circle one*): ¹Su ²Mon ³Tues ⁴Wed ⁵Thu ⁶Fri ⁷Sat

Date: _____ Weather (*Circle one*): ¹Clear ²Cloudy ³Rainy

Gender (*Record by observation*): ¹Male or ²Female (*Please circle*) Interviewer initials: _____

Interview Start Time: _____ ¹AM ²PM (*Please circle*)

INTRODUCTION

Hello, my name is _____ and I am conducting interviews today with visitors to the Crystal Basin on behalf of the Sacramento Municipal Utility District in cooperation with the Eldorado National Forest. The information will be used as part of relicensing SMUD's hydropower project, the Upper American River Project.* I'd like to ask you some questions about your visit. Your participation is voluntary and your responses will be kept confidential. The survey will take approximately 15 minutes of your time. Do you have time today to participate? (*Check one*)

*If asked, let respondent know that SMUD owns and operates a series of hydroelectric power plants in the Crystal Basin.

¹YES (*go to question 1*) ²NO

If no or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

SCREENING

1. Have you been asked to participate in a similar survey this year? (*Check one*)

²NO (*go to question 2*) ¹YES

If yes or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

2. Are you at least 18 years old? (*Check one*)

¹YES (*go to question 3*) ²NO

If no or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

USER PROFILE

- 3. **May I please have the zip code of your primary place of residence?** _____ *(Record response)*

- 4. **How many people are in your group on this visit?** _____ *(Record response)*

- 5. **How many years have you been visiting the Crystal Basin?** *(Check one)*
 - No.of years _____ *(Record years)*

 - ⁰First visit

ACTIVITY INFORMATION

- 6. **Is your visit to** *(State reservoir name, location, or campground):* *(Check one)*
 - ¹**the primary destination of your trip?**

 - ²**a side trip while camped at another location in the Crystal Basin?**

 - ³**a stop on route to another destination? If so, where?** _____
(Record response)

- 7. **Is this visit a day trip from outside of the Crystal Basin or are you staying overnight in the Crystal Basin during your visit?** *(Check one)*
 - ¹Day trip from outside the Crystal Basin
How many hours are you staying? _____ *(Record response and go to question 8)*

 - ²Staying overnight
How many nights are you staying? _____ *(Record response and continue to 7a)*
 - a. **If you are staying overnight, are you:** *(Check one)*
 - ¹Camping at a campground in the Crystal Basin?

(Record campground name)

 - ²Camping in an undeveloped campsite?

(Describe location)

 - ³Staying in a resort or private cabin or residence?

(Record name of resort or describe location of cabin or residence)

8. (Hand the respondent a card with one of 3 versions of this list.) From the activities listed on this card, please select the recreational activities **you** have participated in or plan to participate in during **this visit** to the Crystal Basin, **excluding** relaxing and camping? (Check all that apply.)

- BACKPACKING (1)
- BICYCLING (2)
- CANOEING/KAYAKING (3)
- FISHING (LAKE OR RESERVOIR) (4)
- FISHING (STREAM OR RIVER) (5)
- HIKING/WALKING (6)
- HUNTING (7)
- OFF-HIGHWAY VEHICLE (OHV) USE (8)
- PICNICKING (9)
- PHOTOGRAPHY (10)
- POWER BOATING (11)
- PWC USE (JET SKI) (12)
- SAIL BOATING (13)
- SWIMMING (14)
- VISITING CULTURAL/HISTORIC SITES (15)
- WILDLIFE VIEWING (16)
- OTHER (17): (Specify) _____

9. What are your three most important recreational activities from this list? (If respondent selects less than three in question 8, then just rank the one or two activities selected. Record response using numbers above.)

- A. Most important activity. _____
- B. 2nd most important activity. _____
- C. 3rd most important activity. _____

10. Would you like to see any changes or improvements to the existing **motorized** trail system, such as off highway vehicle trails, in the Crystal Basin?

- ¹ YES ² NO ³ NO OPINION (Check one)

If yes, what are they and where? (Record response verbatim)

What? _____

Where? _____

11. Would you like to see any changes or improvements to the existing **non-motorized** trail system, such as hiking trails, in the Crystal Basin?

- ² NO ¹ YES ³ NO OPINION (Check one)

If yes, what are they and where? (Record response verbatim)

What? _____

Where? _____

12. Are improvements needed to make access to the shorelines of the reservoirs:

- a. Easier? ¹YES ²NO ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*)_____

- b. Safer? ²NO ¹YES ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*)_____

- c. More enjoyable? ¹YES ²NO ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*)_____

13. Are improvements needed to make access to rivers or streams:

- a. Easier? ²NO ¹YES ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*)_____

- b. Safer? ¹YES ²NO ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*)_____

- c. More enjoyable? ²NO ¹YES ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*)_____

14. Did the water level of this reservoir (or closest reservoir) allow you to participate in the recreational activities you had planned? (Check one)

¹ YES (go to question 15) ² NO (continue to 14a) ³ NO OPINION (go to question 15)

A. To what degree did the water level of this reservoir (or closest reservoir) negatively impact your ability to have the type of experience you had planned?

¹No Impacts (go to question 15) ²Minimal Impacts ³Moderate Impacts ⁴Significant Impacts ⁵No Opinion (go to question 15)

If respondent selects "minimal, moderate or significant," then ask:
What impacts and how did it affect your trip? (Record response verbatim)

What impacts? _____

How? _____

15. To what extent did the water level of this reservoir (or closest reservoir) negatively affect the quality of the experience you had planned.

¹None (go to question 16) ²Minimal ³Moderate ⁴Significant ⁵No Opinion (go to question 16)

If respondent selects "minimal, moderate or significant," then ask:
How did it affect the quality of your experience? (Record response verbatim)

How? _____

16. Did the amount of flow in the streams allow you to participate in the activities you had planned? (Check one)

² NO (continue to 16a) ¹ YES (go to question 17) ³ NO OPINION (go to question 17)

A. To what degree did the amount of flow in the streams negatively impact your ability to have the type of experience you had planned?

¹No Impacts (go to question 17) ²Minimal Impacts ³Moderate Impacts ⁴Significant Impacts ⁵No Opinion (go to question 17)

If respondent selects "minimal, moderate or significant," then ask:
On what segments of streams, what impacts and how did it affect your trip? (Record response verbatim)

Segments of streams? _____

What impacts? _____

How? _____

17. To what extent did the amount of flow in the streams negatively affect the quality of the experience you had planned?

- ¹ None (go to question 18)
 ² Minimal
 ³ Moderate
 ⁴ Significant
 ⁵ No Opinion (go to question 18)

If respondent selects “minimal, moderate or significant,” then ask:
 How did it affect the quality of your experience? (Record response verbatim)

How? _____

18. Are there any recreational activities that you would like to do at the Crystal Basin that you are currently unable to participate in?

- ¹ YES
 ² NO
 ³ DON'T KNOW (Check one)

If yes, what activities and why? (Record response verbatim)

What activities? _____

Why? _____

19. Are there any changes or improvements that you would like to see at this facility (this campground, boat launch or day use area)?

- ² NO
 ¹ YES
 ³ DON'T KNOW (Check one)

If yes, what changes or improvements? (Record response verbatim)

20. (Hand the respondent a card with one of 3 versions of this list.) From the settings listed on this card, please rate how important these settings are in your decision to visit the Crystal Basin? (Circle response. Confirm setting before recording response.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
A. MOUNTAIN/FORESTED AREA	1	2	3	4
B. NATURAL LAKES & PONDS	1	2	3	4
C. RESERVOIRS	1	2	3	4
D. RIVERS/STREAMS	1	2	3	4

21. (Have the respondent turn to the backside of the card.) From the **facilities and services** listed on the card, please rate how important these facilities and services are in your decision to visit the Crystal Basin? (Circle response. Confirm facility or service before recording response.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
A. BOAT LAUNCH RAMPS	1	2	3	4
B. DEVELOPED CAMPGROUNDS	1	2	3	4
C. DEVELOPED SWIMMING/BEACH AREAS	1	2	3	4
D. NON-MOTORIZED TRAILS	1	2	3	4
E. OHV TRAILS	1	2	3	4
F. PICNIC FACILITIES	1	2	3	4
G. TWO-LANE PAVED ROAD ACCESS	1	2	3	4

22. How likely or unlikely would you be to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist? (Check one)

- ¹VERY UNLIKELY
 ²UNLIKELY
 ³LIKELY
 ⁴VERY LIKELY
 ⁵DON'T KNOW

23. During this visit to the Crystal Basin, are there any activities that conflicted with your recreation activities?

- a. Recreation activities? ¹YES ²NO ³NO OPINION (Check one)

If yes, what were they and how did they affect you? (Record response verbatim)

What activities? _____

How conflicted? _____

- b. Non-recreation activities? ²NO ¹YES ³NO OPINION (Check one)

If yes, what were they and how did they affect you? (Record response verbatim)

What activities? _____

How conflicted? _____

24. During this visit to the Crystal Basin, are there any activities that you observed that you feel may cause harm to the environment?

a. **Recreation** activities? ¹YES ²NO ³NO OPINION (Check one)

If yes, what were they and what was their affect? (Record response verbatim)

What activities? _____

How harmed? _____

b. **Non-recreation** activities? ²NO ¹YES ³NO OPINION (Check one)

If yes, what were they and what was their affect? (Record response verbatim)

What activities? _____

How harmed? _____

25. Please indicate which of the following statements best describes how crowded you feel at this facility? (Check one)

¹NOT AT ALL CROWDED ²SLIGHTLY CROWDED ³MODERATELY CROWDED ⁴EXTREMELY CROWDED ⁵DON'T KNOW

26. Did you bring a boat, jet ski, or other type of water craft with you on this visit? (Check one)

¹YES (continue to question 26A&B) ²NO (go to question 27)

A. Please indicate which reservoir you have spent most of your time at with your boat, jet ski, or other type of water craft.

¹GERLE CREEK ²ICE HOUSE ³LOON LAKE ⁴UNION VALLEY ⁵OTHER: _____ (Specify)

B. Please indicate which of the following statements best describes how crowded you feel when you are on the surface of this reservoir in your boat or jet ski or other type of water craft. (Check one)

¹NOT AT ALL CROWDED ²SLIGHTLY CROWDED ³MODERATELY CROWDED ⁴EXTREMELY CROWDED ⁵DON'T KNOW

27. Please tell me about access to information by responding “adequate,” “inadequate” or “never looked for information”? (Read list and record response) If “inadequate”, please describe any suggestions for improvement?

If “inadequate,” ask for and record suggested improvements.

A. Campsite availability	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
B. Campfire restrictions	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
C. Reservoir levels	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
D. Wilderness permits	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
E. Trail locations	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
F. Stream flow rates &/or depths	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
G. Environmental or educational displays	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
H. Information regarding fish stocking	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
I. Other (Please specify):	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____

28. (Open the Crystal Basin Recreation Area map, hand it to respondent, show them where they are, and ask: **What other areas have you visited or plan to visit during your stay at the Crystal Basin, and what is the primary activity you did or will do there?** (Circle 'V' for 'have visited' and 'P' for 'plan to visit'. If area is not listed, record up to three responses at the end of the General Area column. Record the primary activity using the numbers from the code list. Tell respondent they can keep the map as a thank you.)

Check here if respondent plans to stay only at current locations on this visit. ^{AA}

Visited	Planned	General Area	Specific Location	Primary Activity	Primary Activity Code List
V	P	A. Ice House Reservoir			(1) Backpacking (2) Bicycling (3) Canoeing/Kayaking (4) Fishing (Lake or Reservoir) (5) Fishing (Stream or River) (6) Hiking/Walking (7) Hunting (8) OHV Use (9) Picnicking (10) Photography (11) Power Boating (12) PWC Use (Jet Ski) (13) Sail Boating (14) Swimming (15) Visiting Cultural/Historic Sites (16) Wildlife Viewing (17) Other _____ <i>(Specify)</i>
V	P	B. Union Valley Reservoir			
V	P	C. Gerle Creek Reservoir			
V	P	D. Loon Lake Reservoir			
V	P	E. Wrights Lake			
V	P	F. Rubicon Jeep Trail / Wentworth Springs Road			
V	P	G. Gerle Creek below Loon Lake Dam			
V	P				
V	P				
V	P				

If the respondent has identified an activity as fishing in question 8 or 28, then ask:

a. **Did the quality of the fishing attract you to** (record general area and circle response):

GENERAL AREA (Record)	YES	NO
A.	1	2
B.	1	2

If the respondent has identified an activity as fishing in question 8 or has identified fishing as a primary activity in question 28 and "visited" the general area, then ask:

b. **Please rate the quality of your fishing experience at** (record general area and circle response):

GENERAL AREA (Record)	POOR	FAIR	GOOD	EXCELLENT	N/A
A.	1	2	3	4	5
B.	1	2	3	4	5

29. Besides the Crystal Basin, where else do you go for similar recreational experiences? *(List no more than 2.)*

A. _____

B. _____

30. Would you be willing to provide your name and mailing address to be contacted for future studies of the Crystal Basin Recreation Area?

¹YES ²NO *(Check one)*

If yes, please complete the following:

Name: _____

Address: _____

City/State/Zip: _____

Thank you for taking the time to talk with me today and enjoy the rest of your visit.

Interview Stop Time: _____ AM PM *(Please circle)*

CHECKLIST TO BE COMPLETED BY INTERVIEWER

- Check to see if you recorded your interview stop time?
- Check to make sure you have completed all questions on the top section of the survey form.
- Review survey form to make sure all questions have answers or non-responses recorded properly and completely.
- Prep for next survey.

DISPERSED QUESTIONNAIRE

Location (*Circle one*): ¹Ice House Res. ²Union Valley Res. ³Gerle Cr. Res. ⁴Loon Lake

Specific Location (*Record as precisely as possible*): _____

Day of the week (*Circle one*): ¹Su ²Mon ³Tues ⁴Wed ⁵Thu ⁶Fri ⁷Sat

Date: _____ Weather (*Circle one*): ¹Clear ²Cloudy ³Rainy

Gender (*Record by observation*): ¹Male or ²Female (*Please circle*) Interviewer initials: _____

Interview Start Time: _____ ¹AM ²PM (*Please circle*)

INTRODUCTION

Hello, my name is _____ and I am conducting interviews today with visitors to the Crystal Basin on behalf of the Sacramento Municipal Utility District in cooperation with the Eldorado National Forest. The information will be used as part of relicensing SMUD's hydropower project, the Upper American River Project.* I'd like to ask you some questions about your visit. Your participation is voluntary and your responses will be kept confidential. The survey will take approximately 15 minutes of your time. Do you have time today to participate? (*Check one*)

*If asked, let respondent know that SMUD owns and operates a series of hydroelectric power plants in the Crystal Basin.

¹YES (*go to question 1*) ²NO

If no or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

SCREENING

1. **Have you been asked to participate in a similar survey this year?** (*Check one*)

²NO (*go to question 2*) ¹YES

If yes or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

2. **Are you at least 18 years old?** (*Check one*)

¹YES (*go to question 3*) ²NO

If no or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

USER PROFILE

3. May I please have the zip code of your primary place of residence? _____ (Record response)
4. a. How many people are in your group on this visit? _____ (Record response)
- b. How many vehicles did your group bring on this visit? _____ (Record response)
5. How many years have you been visiting the Crystal Basin? (Check one)
- No. of years _____ (Record years)
- ⁰First visit

ACTIVITY INFORMATION

6. Is your visit to this location: (Check one)
- ¹the primary destination of your trip?
- ²a side trip while camped at another location in the Crystal Basin?
- ³a stop on route to another destination? If so, where? _____
(Record response)
7. Is this visit a day trip from outside of the Crystal Basin or are you staying overnight in the Crystal Basin during your visit? (Check one)
- ¹Day trip from outside the Crystal Basin
How many hours are you staying? _____ (Record response and go to question 8)
- ²Staying overnight
How many nights are you staying? _____ (Record response and continue to 7a)
- a. If you are staying overnight, are you: (Check one)
- ¹Camping at a campground in the Crystal Basin?

(Record campground name)
- ²Camping in an undeveloped campsite?

(Describe location)
- ³Staying in a resort or private cabin or residence?

(Record name of resort or describe location of cabin or residence)

b. **If you are staying overnight at this location, did you plan to stay here or did you intend to stay at a developed campground?**

¹ INTENDED TO STAY THERE

² INTENDED TO STAY AT A DEVELOPED CAMPGROUND

³ NOT STAYING AT AN UNDEVELOPED CAMPSITE

Which one?

(Specify) _____

8. (Hand the respondent a card with one of 3 versions of this list.) **From the activities listed on this card, please select the recreational activities you have participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping? (Check all that apply.)**

BACKPACKING (1)

HUNTING (7)

SAIL BOATING (13)

BICYCLING (2)

OFF-HIGHWAY VEHICLE (OHV) USE (8)

SWIMMING (14)

CANOEING/KAYAKING (3)

PICNICKING (9)

VISITING CULTURAL/HISTORIC SITES (15)

FISHING (LAKE OR RESERVOIR) (4)

PHOTOGRAPHY (10)

WILDLIFE VIEWING (16)

FISHING (STREAM OR RIVER) (5)

POWER BOATING (11)

OTHER (17):
(Specify) _____

HIKING/WALKING (6)

PWC USE (JET SKI) (12)

9. **What are your three most important recreational activities from this list? (If respondent selects less than three in question 8, then just rank the one or two activities selected. Record response using numbers above.)**

A. Most important activity. _____

B. 2nd most important activity. _____

C. 3rd most important activity. _____

10. Would you like to see any changes or improvements to the existing motorized trail system, such as off highway vehicle trails, in the Crystal Basin?

¹ YES ² NO ³ NO OPINION (Check one)

If yes, what are they and where? (Record response verbatim)

What? _____

Where? _____

11. Would you like to see any changes or improvements to the existing non-motorized trail system, such as hiking trails, in the Crystal Basin?

² NO ¹ YES ³ NO OPINION (Check one)

If yes, what are they and where? (Record response verbatim)

What? _____

Where? _____

12. Are improvements needed to make access to the shorelines of the reservoirs:

a. Easier? ¹ YES ² NO ³ NO OPINION (Check one)

If yes, what? (Record response verbatim) _____

b. Safer? ² NO ¹ YES ³ NO OPINION (Check one)

If yes, what? (Record response verbatim) _____

c. More enjoyable? ¹ YES ² NO ³ NO OPINION (Check one)

If yes, what? (Record response verbatim) _____

13. Are improvements needed to make access to rivers or streams:

a. Easier? ¹NO ¹YES ³NO OPINION (Check one)

If yes, what? (Record response verbatim) _____

b. Safer? ¹YES ²NO ³NO OPINION (Check one)

If yes, what? (Record response verbatim) _____

c. More enjoyable? ²NO ¹YES ³NO OPINION (Check one)

If yes, what? (Record response verbatim) _____

14. Did the water level of this reservoir (or closest reservoir) allow you to participate in the recreational activities you had planned? (Check one)

¹YES (go to question 15) ²NO (continue to 14a) ³NO OPINION (go to question 15)

A. To what degree did the water level of this reservoir (or closest reservoir) negatively impact your ability to have the type of experience you had planned?

¹No Impacts (go to question 15) ²Minimal Impacts ³Moderate Impacts ⁴Significant Impacts ⁵No Opinion (go to question 15)

If respondent selects "minimal, moderate, or significant," then ask:
What impacts and how did it affect your trip? (Record response verbatim)

What impacts? _____

How? _____

15. To what extent did the water level of this reservoir (or closest reservoir) negatively affect the quality of the experience you had planned.

¹None (go to question 16) ²Minimal ³Moderate ⁴Significant ⁵No Opinion (go to question 16)

If respondent selects "minimal, moderate or significant," then ask:
How did it affect the quality of your experience? (Record response verbatim)

How? _____

16. Did the amount of flow in the streams allow you to participate in the activities you had planned?
(Check one)

² NO (continue to 16a) ¹ YES (go to question 17) ¹ NO OPINION (go to question 17)

A. To what degree did the amount of flow in the streams negatively impact your ability to have the type of experience you had planned?

¹ No Impacts (go to question 17) ² Minimal Impacts ³ Moderate Impacts ⁴ Significant Impacts ⁵ No Opinion (go to question 17)

If respondent selects "minimal, moderate, or significant," then ask:
On what segments of streams, what impacts and how did it affect your trip? (Record response verbatim)

Segments of streams? _____

What impacts? _____

How? _____

17. To what extent did the amount of flow in the streams negatively affect the quality of the experience you had planned?

¹ None (go to question 18) ² Minimal ³ Moderate ⁴ Significant ⁵ No Opinion (go to question 18)

If respondent selects "minimal, moderate or significant," then ask:
How did it affect the quality of your experience? (Record response verbatim)

How? _____

18. Are there any recreational activities that you would like to do at the Crystal Basin that you are currently unable to participate in?

YES NO DON'T KNOW (Check one)

If yes, what activities and why? (Record response verbatim)

What activities? _____

Why? _____

19. Are there any changes or improvements that you would like to see at **this location** (this campground, boat launch or day use area)?

²NO ¹YES ³DON'T KNOW (Check one)

If yes, what changes or improvements? (Record response verbatim)

20. (Hand the respondent a card with one of 3 versions of this list.) From the settings listed on this card, please rate how important these **settings** are in your decision to visit the Crystal Basin? (Circle response. Confirm setting before recording response.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
A. MOUNTAIN/FORESTED AREA	1	2	3	4
B. NATURAL LAKES & PONDS	1	2	3	4
C. RESERVOIRS	1	2	3	4
D. RIVERS/STREAMS	1	2	3	4

21. (Have the respondent turn to the backside of the card.) From the **facilities and services** listed on the card, please rate how important these facilities and services are in your decision to visit the Crystal Basin? (Circle response. Confirm facility or service before recording response.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
A. BOAT LAUNCH RAMPS	1	2	3	4
B. DEVELOPED CAMPGROUNDS	1	2	3	4
C. DEVELOPED SWIMMING/BEACH AREAS	1	2	3	4
D. NON-MOTORIZED TRAILS	1	2	3	4
E. OHV TRAILS	1	2	3	4
F. PICNIC FACILITIES	1	2	3	4
G. TWO-LANE PAVED ROAD ACCESS	1	2	3	4

22. How likely or unlikely would you be to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist? (Check one)

- ¹VERY UNLIKELY ²UNLIKELY ³LIKELY ⁴VERY LIKELY ⁵DON'T KNOW

23. During this visit to the Crystal Basin, are there any activities that conflicted with your recreation activities?

- a. Recreation activities? ¹YES ²NO ³NO OPINION (Check one)

If yes, what were they and how did they affect you? (Record response verbatim)

What activities? _____

How conflicted? _____

- b. Non-recreation activities? ¹NO ²YES ³NO OPINION (Check one)

If yes, what were they and how did they affect you? (Record response verbatim)

What activities? _____

How conflicted? _____

24. During this visit to the Crystal Basin, are there any activities that you observed that you feel may cause harm to the environment?

- a. Recreation activities? ¹YES ²NO ³NO OPINION (Check one)

If yes, what were they and what was their affect? (Record response verbatim)

What activities? _____

How harmed? _____

- b. Non-recreation activities? ¹NO ²YES ³NO OPINION (Check one)

If yes, what were they and what was their affect? (Record response verbatim)

What activities? _____

How harmed? _____

25. Please indicate which of the following statements best describes how crowded you feel at this location?
(Check one)

- ¹NOT AT ALL CROWDED ²SLIGHTLY CROWDED ³MODERATELY CROWDED ⁴EXTREMELY CROWDED ⁵DON'T KNOW

26. Did you bring a boat, jet ski, or other type of water craft with you on this visit? (Check one)

- ¹YES (continue to question 26A&B) ²NO (go to question 27)

A. Please indicate which reservoir you have spent most of your time at with your boat, jet ski, or other type of water craft.

- ¹GERLE CREEK ²ICE HOUSE ³LOON LAKE ⁴UNION VALLEY ⁵OTHER: _____
(Specify)

B. Please indicate which of the following statements best describes how crowded you feel when you are on the surface of this reservoir in your boat or jet ski or other type of water craft. (Check one)

- ¹NOT AT ALL CROWDED ²SLIGHTLY CROWDED ³MODERATELY CROWDED ⁴EXTREMELY CROWDED ⁵DON'T KNOW

27. Please tell me about access to information by responding “adequate,” “inadequate” or “never looked for information”? (Read list and record response) If “inadequate”, please describe any suggestions for improvement?

If “inadequate,” ask for and record suggested improvements.

A. Campsite availability	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
B. Campfire restrictions	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
C. Reservoir levels	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
D. Wilderness permits	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
E. Trail locations	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
F. Stream flow rates &/or depths	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
G. Environmental or educational displays	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
H. Information regarding fish stocking	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
I. Other (Please specify):	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____

28. (Open the Crystal Basin Recreation Area map, hand it to respondent, show them where they are, and ask: **What other areas have you visited or plan to visit during your stay at the Crystal Basin, and what is the primary activity you did or will do there?** (Circle 'V' for 'have visited' and 'P' for 'plan to visit'. If area is not listed, record up to three responses at the end of the General Area column. Record the primary activity using the numbers from the code list. Tell respondent they can keep the map as a thank you.)

Check here if respondent plans to stay only at current locations on this visit. ^{AA}

Visited	Planned	General Area	Specific Location	Primary Activity	Primary Activity Code List
V	P	A. Ice House Reservoir			(1) Backpacking (2) Bicycling (3) Canoeing/Kayaking (4) Fishing (Lake or Reservoir) (5) Fishing (Stream or River) (6) Hiking/Walking (7) Hunting (8) OHV Use (9) Picnicking (10) Photography (11) Power Boating (12) PWC Use (Jet Ski) (13) Sail Boating (14) Swimming (15) Visiting Cultural/Historic Sites (16) Wildlife Viewing (17) Other _____ <i>(Specify)</i>
V	P	B. Union Valley Reservoir			
V	P	C. Gerle Creek Reservoir			
V	P	D. Loon Lake Reservoir			
V	P	E. Wrights Lake			
V	P	F. Rubicon Jeep Trail / Wentworth Springs Road			
V	P	G. Gerle Creek below Loon Lake Dam			
V	P				
V	P				
V	P				

If the respondent has identified an activity as fishing in question 8 or 28, then ask:

a. **Did the quality of the fishing attract you to** (record general area and circle response):

GENERAL AREA (Record)	YES	NO
A.	1	2
B.	1	2

If the respondent has identified an activity as fishing in question 8 or has identified fishing as a primary activity in question 28 and "visited" the general area, then ask:

b. **Please rate the quality of your fishing experience at** (record general area and circle response):

GENERAL AREA (Record)	POOR	FAIR	GOOD	EXCELLENT	N/A
A.	1	2	3	4	5
B.	1	2	3	4	5

29. Besides the Crystal Basin, where else do you go for similar recreational experiences? (List no more than 2.)

A. _____

B. _____

30. Would you be willing to provide your name and mailing address to be contacted for future studies of the Crystal Basin Recreation Area?

¹YES ²NO (Check one)

If yes, please complete the following:

Name: _____

Address: _____

City/State/Zip: _____

Thank you for taking the time to talk with me today and enjoy the rest of your visit.

Interview Stop Time: _____ AM PM (Please circle)

CHECKLIST TO BE COMPLETED BY INTERVIEWER

- Check to see if you recorded your interview stop time?
- Check to make sure you have completed all questions on the top section of the survey form.
- Review survey form to make sure all questions have answers or non-responses recorded properly and completely.
- Prep for next survey.

Thank you for visiting the Crystal Basin Recreation Area!

The Sacramento Municipal Utility District (SMUD), in cooperation with the Eldorado National Forest, is gathering information about recreational resources in this area as part of relicensing SMUD's hydropower project, the Upper American River Project. The new license will include measures to protect or improve recreation resources. This questionnaire is being used to solicit your input regarding your recreational needs and opinions.

To show our appreciation for your time and effort, we will mail you a five dollar (\$5) gift certificate to Big 5 Sporting Goods upon receipt of a completed survey. Please take a few minutes to complete this survey and return it in the postage paid envelope provided.

If you have any questions, please feel free to contact Joe Davis at the Sacramento Municipal Utility District at 916-732-5580.

Thank you in advance for your cooperation.

1. Is your visit to this area: *(Check one)*

- ¹the primary destination of your trip?
- ²a side trip while camped at another location in the Crystal Basin?
- ³a stop on route to another destination? If so, where? _____

2. Is this visit a day trip from outside of the Crystal Basin or are you staying overnight in the Crystal Basin during your visit? *(Check one)*

- ¹Day trip from outside the Crystal Basin
How many hours are you staying? _____ *(Record hours and go to question 3)*
- ²Staying overnight
How many nights are you staying? _____ *(Record nights and continue to 2a&b)*

a. If you are staying overnight, are you: *(Check one)*

- ¹Camping at a campground in the Crystal Basin?

(Specify campground name)
- ²Camping in an undeveloped campsite (i.e. no man-made improvements)?

(Describe location)
- ³Staying in a resort or private cabin or residence?

(Name of resort or describe location of cabin or residence)

b. If you are camping in an undeveloped campsite, did you plan to stay there or did you intend to stay at a developed campground? (Check one)

¹ INTENDED TO STAY THERE

² INTENDED TO STAY AT A DEVELOPED CAMPGROUND

³ NOT STAYING AT AN UNDEVELOPED CAMPSITE

Which one? _____
(Specify)

3. From the activities listed below, please select the recreational activities you participated in during this visit to the Crystal Basin, excluding relaxing and camping? (Check all that apply.)

OFF-HIGHWAY VEHICLE (OHV) USE (8)

HIKING/WALKING (6)

BICYCLING (2)

CANOEING/KAYAKING (3)

SWIMMING (14)

PICNICKING (9)

POWER BOATING (11)

FISHING (LAKE OR RESERVOIR) (4)

PHOTOGRAPHY (10)

FISHING (STREAM OR RIVER) (5)

HUNTING (7)

VISITING CULTURAL/HISTORIC SITES (15)

PWC USE (JET SKI) (12)

WILDLIFE VIEWING (16)

OTHER (17):
(Specify) _____

SAILBOATING (13)

BACKPACKING (1)

4. What were your three most important activities from the list in question #3? If you participated in less than three activities, please just rank the activities you participated in.

A. Most important activity. _____

B. 2nd most important activity. _____

C. 3rd most important activity. _____

5. Did you select fishing (lake or reservoir) and/or fishing (stream or river) as one of your activities in question #3?

¹ YES (Continue to 5a) ² NO (Skip to question 6)

a. Please record up to three general areas where you fished (i.e. name of reservoir, stream segment) and for each general area rate the quality of your fishing experience. (Specify general area and circle number)

GENERAL AREA (SPECIFY)	POOR	FAIR	GOOD	EXCELLENT
A.	1	2	3	4
B.	1	2	3	4
C.	1	2	3	4

6. Would you like to see any changes or improvements to the existing motorized trail system, such as off highway vehicle trails, in the Crystal Basin? (Check one)

¹ YES ² NO ³ NO OPINION

If yes, what are they and where? (Specify)

What? _____

Where? _____

7. Would you like to see any changes or improvements to the existing non-motorized trail system, such as hiking trails, in the Crystal Basin? (Check one)

¹ YES ² NO ³ NO OPINION

If yes, what are they and where? (Specify)

What? _____

Where? _____

8. Are improvements needed to make access to the shorelines of the reservoirs:

a. Easier? (Check one) ¹YES ²NO ³NO OPINION

If yes, what are they and where? (Specify)

What? _____

Where? _____

b. Safer? (Check one) ¹YES ²NO ³NO OPINION

If yes, what are they and where? (Specify)

What? _____

Where? _____

c. More enjoyable? (Check one) ¹YES ²NO ³NO OPINION

If yes, what are they and where? (Specify)

What? _____

Where? _____

9. Are improvements needed to make access to rivers or streams:

a. Easier? (Check one) ¹YES ²NO ³NO OPINION

If yes, what are they and where? (Specify)

What? _____

Where? _____

b. Safer? (Check one) ¹YES ²NO ³NO OPINION

If yes, what are they and where? (Specify)

What? _____

Where? _____

c. More enjoyable? (Check one) ¹YES ²NO ³NO OPINION

If yes, what are they and where? (Specify)

What? _____

Where? _____

10. **Did the amount of flow in the streams allow you to participate in the activities you had planned?**
(Check one)

¹ YES (go to question 11) ² NO (continue to 10A) ³ NO OPINION (go to question 11)

A. **To what extent did the amount of flow in the streams negatively affect the quality of the experience you had planned?** (Check one)

¹ None (go to question 11) ² Minimal ³ Moderate ⁴ Significant ⁵ No Opinion (go to question 11)

If “minimal, moderate or significant,” was selected:

How did it affect the quality of your experience? (Specify)

How? _____

11. **Are there any recreational activities that you would like to do at the Crystal Basin that you are currently unable to participate in?** (Check one)

¹ YES ² NO ³ DON'T KNOW

If yes, what activities and why? (Specify)

What activities? _____

Why? _____

12. Please rate how important the following settings are in your decision to visit the Crystal Basin? (Circle one number for each setting.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
^D RIVERS/STREAMS	1	2	3	4
^C RESERVOIRS	1	2	3	4
^A MOUNTAIN/FORESTED AREA	1	2	3	4
^B NATURAL LAKES & PONDS	1	2	3	4

13. Please rate how important these facilities and services are in your decision to visit the Crystal Basin? (Circle one number for each facility or service.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
^F PICNIC FACILITIES	1	2	3	4
^G TWO-LANE PAVED ROAD ACCESS	1	2	3	4
^B DEVELOPED CAMPGROUNDS	1	2	3	4
^A BOAT LAUNCH RAMPS	1	2	3	4
^E OFF-HIGHWAY VEHICLE (OHV) TRAILS	1	2	3	4
^C DEVELOPED SWIMMING/BEACH AREAS	1	2	3	4
^D NON-MOTORIZED TRAILS	1	2	3	4

14. How likely or unlikely would you be to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist? (Check one)

- ¹VERY UNLIKELY
 ²UNLIKELY
 ³LIKELY
 ⁴VERY LIKELY
 ⁵DON'T KNOW

15. During this visit to the Crystal Basin, are there any activities that conflicted with your recreation activities?

a. **Recreation** activities? (Check one)

¹ YES ² NO ³ NO OPINION

If yes, what were they and how did they affect you? (Specify)

What activities? _____

How conflicted? _____

b. **Non-recreation** activities (e.g., timber harvest, hydroelectric generation)? (Check one)

¹ YES ² NO ³ NO OPINION

If yes, what were they and how did they affect you? (Specify)

What activities? _____

How conflicted? _____

16. During this visit to the Crystal Basin, are there any activities that you observed that you feel may cause harm to the environment?

a. **Recreation** activities? (Check one)

¹ YES ² NO ³ NO OPINION

If yes, what were they and what was their affect? (Specify)

What activities? _____

How harmed? _____

b. **Non-recreation** activities (e.g., timber harvest, hydroelectric generation)? (Check one)

¹ YES ² NO ³ NO OPINION

If yes, what were they and what was their affect? (Specify)

What activities? _____

How harmed? _____

17. Do you have adequate access to information about the following list of items? (Check one box for each item.) If inadequate, please describe any suggestions for improvement.

A. Campsite availability	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	<i>Suggested improvements:</i> _____
B. Campfire restrictions	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
C. Reservoir levels	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
D. Wilderness permits	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
E. Trail locations	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
F. Stream flow rates &/or depths	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
G. Environmental or educational displays	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
H. Information regarding fish stocking	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
I. Other (Please specify):	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____

18. What other areas did you visit during your stay at the Crystal Basin, and what was the primary activity you did there? (Please record up to five responses under the “General Area” column. If possible, please record the specific location at the general area you visited under the “Specific Location” column. Record the primary activity using the numbers from the “Primary Activity Code List.”)

Example:

General Area	Specific Location	Primary Activity
<i>Ice House Reservoir</i>	<i>North of dam near picnic area.</i>	<i>4</i>

General Area	Specific Location	Primary Activity	Primary Activity Code List
1.			(1) Backpacking (2) Bicycling (3) Canoeing/Kayaking (4) Fishing (Lake or Reservoir) (5) Fishing (Stream or River) (6) Hiking/Walking (7) Hunting (8) Off-Highway Vehicle (OHV) Use (9) Picnicking (10) Photography (11) Power Boating (12) PWC Use (i.e. Jet Ski) (13) Sail Boating (14) Swimming (15) Visiting Cultural/Historic Sites (16) Wildlife Viewing (17) Other _____ <i>(Specify)</i>
2.			
3.			
4.			
5.			

19. Besides the Crystal Basin, where else do you go for similar recreational experiences? (List no more than 2.)

A. _____

B. _____

20. Please record the zip code of your primary place of residence. _____

21. How many people are in your group on this visit? _____ (Specify number)

22. How many years have you been visiting the Crystal Basin? (Check one)

NO. OF YEARS _____ (SPECIFY YEARS)

THIS IS MY FIRST VISIT

23. Please indicate your gender. ¹Male ²Female (Check one)

To receive your five dollar (\$5) gift certificate for completing and returning the survey, you must provide your name and mailing address below.

Name: _____

Address: _____

City/State/Zip: _____

Please check the appropriate box if you are willing to be contacted for future studies of the area.

¹Yes, I am interested in being contacted at the above address for future studies of the area.

²No, I am not interested in being contacted for future studies of the area but please send my five (\$5) dollar gift certificate for completing and returning the survey. I have provided my name and address above.

THANK YOU!

FOR OFFICE USE ONLY

DISPERSED RECREATION QUESTIONNAIRE

Crystal Basin Sites (including Junction Reservoir)

Specific Location: _____

Day of the week (*Circle one*): ¹Su ²Mon ³Tues ⁴Wed ⁵Thu ⁶Fri ⁷Sat

Date: _____ Time: _____ AM PM (*Please circle*)

Weather (*Circle one*): ¹Clear ²Cloudy ³Rainy Staff initials: _____

Thank you for visiting!

The Sacramento Municipal Utility District (SMUD), in cooperation with the Eldorado National Forest, is gathering information about recreational resources in this area as part of relicensing SMUD's hydropower project, the Upper American River Project. The new license will include measures to protect or improve recreation resources. This questionnaire is being used to solicit your input regarding your recreational needs and opinions.

To show our appreciation for your time and effort, we will mail you a five (\$5) dollar gift certificate to Big 5 Sporting Goods upon receipt of a completed survey. Please take a few minutes to complete this survey and return it in the postage paid envelope provided.

If you have any questions, please feel free to contact Joe Davis at the Sacramento Municipal Utility District at 916-732-5580.

Thank you in advance for your cooperation.

1. Is your visit to this area: *(Check one)*

- ¹the primary destination of your trip?
- ²a side trip while camped at another location?
- ³a stop on route to another destination? If so, where? _____

2. Is this visit a day trip or are you staying overnight during your visit? *(Check one)*

- ¹Day trip
How many hours are you staying? _____ *(Record hours and go to question 3)*
- ²Staying overnight
How many nights are you staying? _____ *(Record nights and continue to 2a)*

a. If you are staying overnight, are you: *(Check one)*

- ¹Camping at a campground?

(Specify campground name)
- ²Camping in an undeveloped campsite (i.e. no man-made improvements)?

(Describe location)
- ³Staying in a resort or private cabin or residence?

(Name of resort or describe location of cabin or residence)

3. From the activities listed below, please select the recreational activities you participated in during this visit, excluding relaxing and camping? (Check all that apply.)

- OFF-HIGHWAY VEHICLE (OHV) USE (8)
- CANOEING/KAYAKING (3)
- POWER BOATING (11)
- FISHING (STREAM OR RIVER) (5)
- PWC USE (JET SKI) (12)
- SAILBOATING (13)
- HIKING/WALKING (6)
- SWIMMING (14)
- FISHING (LAKE OR RESERVOIR) (4)
- HUNTING (7)
- WILDLIFE VIEWING (16)
- BACKPACKING (1)
- BICYCLING (2)
- PICNICKING (9)
- PHOTOGRAPHY (10)
- VISITING CULTURAL/HISTORIC SITES (15)
- OTHER (17):
(Specify) _____

4. What were your three most important activities from the list in question #3? If you participated in less than three activities, please just rank the activities you participated in.

- A. Most important activity. _____
- B. 2nd most important activity. _____
- C. 3rd most important activity. _____

5. Did you select fishing (lake or reservoir) and/or fishing (stream or river) as one of your activities in question #3?

- ¹ YES
- ² NO (Skip to question 6)

a. Please record up to three general areas where you fished (i.e. name of reservoir, stream segment) and for each general area rate the quality of your fishing experience. (Specify general area and circle number)

GENERAL AREA (SPECIFY)	POOR	FAIR	GOOD	EXCELLENT
A.	1	2	3	4
B.	1	2	3	4
C.	1	2	3	4

6. Did you visit a reservoir on this visit?

¹YES (Continue to question 6A) ²NO (Skip to question 7)

A. Please select the one reservoir where you spent most of your time. (Check one)

¹SLAB CREEK ²BRUSH CREEK ³CAMINO ⁴JUNCTION ⁵OTHER:

(SPECIFY)

B. Did the level of this reservoir allow you to participate in the recreational activities you had planned? (Check one)

¹YES (go to question 7) ²NO (continue to question 6C) ³NO OPINION (go to question 7)

C. To what extent did the water level of this reservoir negatively affect the quality of the experience you had planned. (Check one)

¹None (go to question 7) ²Minimal ³Moderate ⁴Significant ⁵No Opinion (go to question 7)

If “minimal, moderate or significant,” was selected:

How did it affect the quality of your experience? (Specify)

How? _____

7. Did you visit any streams on this visit?

¹YES (Continue to question 7A) ²NO (Go to question 8)

A. Please describe the stream segment (e.g. Silver Creek below Camino Reservoir) where you spent most of your time.

B. Did the amount of flow in this stream allow you to participate in the recreational activities you had planned?

¹YES (go to question 8) ²NO (continue to 7C) ³NO OPINION (go to question 8)

C. To what extent did the amount of flow in this stream negatively affect the quality of the experience you had planned? (Check one)

¹None (go to question 8) ²Minimal ³Moderate ⁴Significant ⁵No Opinion (go to question 8)

If “minimal, moderate or significant,” was selected:

How did it affect the quality of your experience? (Specify)

How? _____

8. Are there any recreational activities that you would like to do in this area that you are currently unable to participate in? (Check one)

¹ YES ² NO ³ DON'T KNOW

If yes, what activities and why? (Specify)

What activities? _____

Why? _____

9. Are there any changes or improvements that you would like to see in this area? (Check one)

¹ YES ² NO ³ DON'T KNOW

If yes, what changes or improvements? (Specify)

10. Please rate how important the following settings are in your decision to visit this area? (Circle one number for each setting.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
^D RIVERS/STREAMS	1	2	3	4
^C RESERVOIRS	1	2	3	4
^A MOUNTAIN/FORESTED AREA	1	2	3	4
^B NATURAL LAKES & PONDS	1	2	3	4

11. Please rate how important these **facilities and services** are in your decision to visit this area? (Circle one number for each facility or service.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
^F PICNIC FACILITIES	1	2	3	4
^G TWO-LANE PAVED ROAD ACCESS	1	2	3	4
^B DEVELOPED CAMPGROUNDS	1	2	3	4
^A BOAT LAUNCH RAMPS	1	2	3	4
^E OFF-HIGHWAY VEHICLE (OHV) TRAILS	1	2	3	4
^C DEVELOPED SWIMMING/BEACH AREAS	1	2	3	4
^D NON-MOTORIZED TRAILS	1	2	3	4

12. How likely or unlikely would you be to come to this area if the dams had not been built and man-made reservoirs such as Slab Creek Reservoir and Brush Creek Reservoir did not exist? (Check one)

- ¹VERY UNLIKELY
 ²UNLIKELY
 ³LIKELY
 ⁴VERY LIKELY
 ⁵DON'T KNOW

13. Would you like to see any changes or improvements to the existing **motorized** trail system, such as off highway vehicle trails, in this area? (Check one)

- ¹YES
 ²NO
 ³NO OPINION

If yes, what are they and where? (Specify)

What? _____

Where? _____

14. Would you like to see any changes or improvements to the existing **non-motorized** trail system, such as hiking trails, in this area? (Check one)

- ¹YES
 ²NO
 ³NO OPINION

If yes, what are they and where? (Specify)

What? _____

Where? _____

15. During this visit to this area, are there any activities that conflicted with your recreation activities?

a. **Recreation** activities? (Check one)

¹ YES ² NO ³ NO OPINION

If yes, what were they and how did they affect you? (Specify)

What activities? _____

How conflicted? _____

b. **Non-recreation** activities (e.g., timber harvest, hydroelectric generation)? (Check one)

¹ YES ² NO ³ NO OPINION

If yes, what were they and how did they affect you? (Specify)

What activities? _____

How conflicted? _____

16. During this visit to this area, are there any activities that you observed that you feel may cause harm to the environment?

a. **Recreation** activities? (Check one)

¹ YES ² NO ³ NO OPINION

If yes, what were they and what was their affect? (Specify)

What activities? _____

How harmed? _____

b. **Non-recreation** activities (e.g., timber harvest, hydroelectric generation)? (Check one)

¹ YES ² NO ³ NO OPINION

If yes, what were they and what was their affect? (Specify)

What activities? _____

How harmed? _____

17. Please indicate which of the following statements best describes how crowded you felt in this area?
(Check one)

- ¹NOT AT ALL CROWDED ²SLIGHTLY CROWDED ³MODERATELY CROWDED ⁴EXTREMELY CROWDED ⁵DON'T KNOW

18. Did you bring a boat, jet ski, or other type of water craft with you on this visit?

- ¹YES (continue to question 18A&B) ²NO (go to question 19)

A. Please indicate which reservoir you spent most of your time at with your boat, jet ski, or other type of water craft. (Check one)

- ¹SLAB CREEK ²BRUSH CREEK ³CAMINO ⁴JUNCTION ⁵OTHER:
(SPECIFY)

B. Please indicate which of the following statements best describes how crowded you felt when you were on the surface of this reservoir in your boat or jet ski or other type of water craft. (Check one)

- ¹NOT AT ALL CROWDED ²SLIGHTLY CROWDED ³MODERATELY CROWDED ⁴EXTREMELY CROWDED ⁵DON'T KNOW

19. Do you have adequate access to information about the following list of items? (Check one box for each item.) If inadequate, please describe any suggestions for improvement.

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Suggested improvements:</i>
A. Campsite availability	¹ Adequate	² Inadequate	³ Never looked for information	_____
B. Campfire restrictions	¹ Adequate	² Inadequate	³ Never looked for information	_____
C. Reservoir levels	¹ Adequate	² Inadequate	³ Never looked for information	_____
D. Wilderness permits	¹ Adequate	² Inadequate	³ Never looked for information	_____
E. Trail locations	¹ Adequate	² Inadequate	³ Never looked for information	_____
F. Stream flow rates &/or depths	¹ Adequate	² Inadequate	³ Never looked for information	_____
G. Environmental or educational displays	¹ Adequate	² Inadequate	³ Never looked for information	_____
H. Information regarding fish stocking	¹ Adequate	² Inadequate	³ Never looked for information	_____
I. Other (Please specify):	¹ Adequate	² Inadequate	³ Never looked for information	_____

20. Besides this area, where else do you go for similar recreational experiences? (List no more than 2 areas.)

A. _____

B. _____

21. Please record the zip code of your primary place of residence. _____

22. How many people are in your group on this visit? _____ (Specify number)

23. How many years have you been visiting this area? (Check one)

NO. OF YEARS _____ (Specify years)

THIS IS MY FIRST VISIT

24. Please indicate your gender. ¹Male ²Female (Check one)

To receive your five dollar (\$5) gift certificate for completing and returning the survey, you must provide your name and mailing address below.

Name: _____

Address: _____

City/State/Zip: _____

Please check the appropriate box if you are willing to be contacted for future studies of the area.

¹Yes, I am interested in being contacted at the above address for future studies of the area.

²No, I am not interested in being contacted for future studies of the area but please send my five (\$5) dollar gift certificate for completing and returning the survey. I have provided my name and address above.

THANK YOU!

FOR OFFICE USE ONLY

DISPERSED RECREATION QUESTIONNAIRE

Canyonlands Sites

Specific Location: _____

Day of the week (*Circle one*): ¹Su ²Mon ³Tues ⁴Wed ⁵Thu ⁶Fri ⁷Sat

Date: _____ Time: _____ AM PM (*Please circle*)

Weather (*Circle one*): ¹Clear ²Cloudy ³Rainy Staff initials: _____

WINTER RECREATION SURVEY
Crystal Basin Recreation Area
Winter 2002-2003

Thank you for visiting the Crystal Basin Recreation Area!

The Sacramento Municipal Utility District (SMUD), in cooperation with the Eldorado National Forest, is gathering information about recreational resources in this area as part of relicensing SMUD's hydropower project, the Upper American River Project. The new license will include measures to protect or improve recreation resources. This survey is being used to solicit your input regarding your recreational needs and opinions.

To show our appreciation for your time and effort, we will mail you a five dollar (\$5) gift certificate to Big 5 Sporting Goods upon receipt of a completed survey. Please take a few minutes to complete this survey and return it in the postage paid envelope provided.

If you have any questions, please feel free to contact Joe Davis at the Sacramento Municipal Utility District at (916) 732-5580 or jdavis1@smud.org.

Thank you in advance for your cooperation.

-
1. Today's date: _____

 2. Please provide the zip code of your primary place of residence. _____

 3. Please indicate your gender (*Circle one*) Male Female

 4. How many people are in your vehicle on this visit? _____

 5. If you traveled here today with people in other vehicles, how many people are in your group (*please leave blank if there are no other vehicles associated with your group*)? _____

 6. How many years have you been visiting this area during the winter? _____

 7. How many visits did you make *last winter* to the Crystal Basin Recreation Area? _____

8. Is this visit a day trip from outside of the Crystal Basin or are you staying in the area overnight?
 (Check either “day trip” or “staying overnight,” and check the corresponding duration)

- | | | |
|---|-----------|---|
| <input type="checkbox"/> Day trip
How many hours are you staying?
<input type="checkbox"/> 3 hours or less
<input type="checkbox"/> 4 to 6 hours
<input type="checkbox"/> 7 to 9 hours
<input type="checkbox"/> 10 hours or more | OR | <input type="checkbox"/> Staying overnight in the area
How many nights are you staying?
<input type="checkbox"/> 1 night
<input type="checkbox"/> 2 nights
<input type="checkbox"/> 3 nights
<input type="checkbox"/> 4 nights
<input type="checkbox"/> 5 nights
<input type="checkbox"/> 6 nights or more |
|---|-----------|---|

Where are you staying overnight?

(Describe location)

9. From the activities listed below, please select the recreational activities you participated in or plan to participate in during this visit. (Check all that apply)

- | | | |
|---|--|--|
| <input type="checkbox"/> Cross-country skiing | <input type="checkbox"/> Snowmobiling | <input type="checkbox"/> Wildlife viewing |
| <input type="checkbox"/> Snowshoeing | <input type="checkbox"/> Fishing (lake or reservoir) | <input type="checkbox"/> Picnicking |
| <input type="checkbox"/> Photography | <input type="checkbox"/> Fishing (stream or river) | <input type="checkbox"/> Hiking/walking |
| <input type="checkbox"/> Snow play | <input type="checkbox"/> Off-Highway Vehicle Use | <input type="checkbox"/> Other <i>(please specify)</i> : _____ |
| <input type="checkbox"/> Camping | <input type="checkbox"/> Whitewater Boating | |

10. What were your three most important activities from the list in question number 9? If you participated in less than three activities, please just rank the activities you participated in.

Most important activity _____

2nd most important activity _____

3rd most important activity _____

11. For your most important activity that you identified in question 10, please indicate which of the following statements best describes how crowded you felt while participating in that activity?

- | | | | | |
|---|---|---|--|--------------------------------|
| <input type="checkbox"/> Not at all Crowded | <input type="checkbox"/> Slightly Crowded | <input type="checkbox"/> Moderately Crowded | <input type="checkbox"/> Extremely Crowded | <input type="checkbox"/> N / A |
|---|---|---|--|--------------------------------|

12. Are there any winter recreational activities that you would like to do at the Crystal Basin that you are currently unable to participate in? (*Check one*)

- Yes No Don't know

If yes, what activity and why are you currently unable to participate in the activity? _____

13. Are there any changes or improvements that you would like to see:

At the Loon Lake Chalet?

- Yes No Don't know I did not visit the Loon Lake Chalet

If yes, what changes or improvements? _____

Related to parking?

- Yes No Don't know

If yes, what are they and where? _____

Related to the access road?

- Yes No Don't know

If yes, what are they and where? _____

Related to the winter sports trails?

- Yes No Don't know

If yes, what changes or improvements? _____

Other improvements related to winter recreation in Crystal Basin?

- Yes No Don't know

If yes, what changes or improvements? _____

14. During this visit were there any activities that conflicted with your recreation activities?

- Yes No Don't know

If yes, what activity? _____

What was the conflict? _____

Where did the conflict occur? (Please be as specific as possible) _____

15. During this visit were there any activities that you observed that you feel may cause harm to the environment?

- Yes No Don't know

If yes, what activity? _____

What harm was caused? _____

16. Do you have adequate access to information about the following list of items? (*Check one box for each item*) If inadequate, please describe any suggestions you have for improvement.

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Suggested improvements:</i>
	Adequate	Inadequate	Never looked For information	
Reservations/availability of the Loon Lake Chalet.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Trail locations.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Environmental/educational displays	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Road Conditions.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Other (<i>Please specify</i>): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

17. Other than this location, where else do you go within the Crystal Basin to enjoy your winter activities? (Please describe up to three other locations that you visit within the Crystal Basin.)

18. Beyond the Crystal Basin, where else do you go for similar winter recreation experiences? (Please provide the names of up to three areas that you visit.)

To receive your five dollar (\$5) gift certificate for completing and returning the survey, you must provide your name and mailing address below.

Name: _____

Address: _____

City/State/Zip: _____

Please check the appropriate box if you are willing to be contacted for future studies of the area.

- Yes, I am interested in being contacted at the above address for future studies of the area.
- No, I am not interested in being contacted for future studies of the area but please send my five (\$5) dollar gift certificate for completing and returning the survey. I have provided my name and address above.

Thank you for taking the time to complete this survey!

FOR OFFICE USE ONLY

WINTER RECREATION SURVEY
Crystal Basin Recreation Area
Winter 2002-2003

Specific Location: _____

Day of the week (*Circle one*): ¹Su ²Mon ³Tues ⁴Wed ⁵Thu ⁶Fri ⁷Sat

Date: _____ Time: _____ AM PM (*Please circle*)

Weather (*Circle one*): ¹Clear ²Cloudy ³Rainy Staff initials: _____

WINTER RECREATION SURVEY
Loon Lake Chalet
Winter 2002-2003

Thank you for visiting the Loon Lake Chalet!

The Sacramento Municipal Utility District (SMUD), in cooperation with the Eldorado National Forest, is gathering information about recreational resources in this area as part of relicensing SMUD's hydropower project, the Upper American River Project. The new license will include measures to protect or improve recreation resources. This survey is being used to solicit your input regarding your recreational needs and opinions.

Please take a few minutes to complete this survey and return it in the box labeled "Winter Recreation Surveys." Although there may be many people in your group, *please have only one person (at least 18 years of age) complete the survey from your group.* You may also find a survey left on your windshield while you are visiting here, and if you receive a second survey, please complete that survey as well and return it in the envelope provided on your windshield.

To show our appreciation for your time and effort, we will mail you a five dollar (\$5) gift certificate to Big 5 Sporting Goods upon receipt of a completed survey. If you have any questions, please feel free to contact Joe Davis at the Sacramento Municipal Utility District at (916) 732-5580 or jdavis1@smud.org.

Thank you in advance for your cooperation.

1. Today's date: _____

2. Please provide the zip code of your primary place of residence: _____

3. Please indicate your gender (*Circle one*) Male Female

4. How many years have you been visiting the Loon Lake Chalet? _____

5. How many visits did you make *last winter* to the Loon Lake Chalet? _____

6. Is this visit a day trip from outside of the Crystal Basin or are you staying in the area overnight?
(Check either "day trip" or "staying overnight," and write down the corresponding duration)

Day trip

How many hours are you staying at the Loon Lake Chalet? _____ hours

Staying overnight

How many nights are you staying? _____ nights

Where are you staying overnight? (Check appropriate box)

Inside the Loon Lake Chalet

Other (Please describe): _____

7. Are there any changes or improvements that you would like to see at the Loon Lake Chalet?

Yes

No

Don't know

If yes, what changes or improvements? _____

8. Do you have adequate access to information about reservations and availability of the Loon Lake Chalet? If inadequate, please describe any suggestions you have for improvement.

Adequate

Inadequate

Never looked for information

Suggested improvements:

9. Where else do you go for similar winter recreation experiences? Please provide the names of up to three areas (outside of the Crystal Basin Recreation Area) that you visit.

To receive your five dollar (\$5) gift certificate for completing and returning the survey, you must provide your name and mailing address below.

Name: _____

Address: _____

City/State/Zip: _____

Please check the appropriate box if you are willing to be contacted for future studies of the area.

- Yes, I am interested in being contacted at the above address for future studies of the area.
- No, I am not interested in being contacted for future studies of the area but please send my five (\$5) dollar gift certificate for completing and returning the survey. I have provided my name and address above.

Thank you for taking the time to complete this survey!

**Upper American River Project
Stream Angler Focus Group, April 10, 2004**

ANGLER GENERAL INFORMATION FORM

(All information is confidential and for survey use only)

Name _____ Gender _____ Age _____
Address _____
Email _____ Phone Number _____
No. of Years of Fishing experience. _____

Survey questions on general stream fishing in central Sierra Nevada

1. About how many days per year do you fish in central Sierra Nevada streams? (Circle one)
1-5 6-10 11-15 16-20 more than 20.
2. What species of fish do you typically fish for when fishing central Sierra Nevada streams?

3. What type of tackle do you typically use? (Circle all that apply)
Fly Spin Bait Other
4. What time of year do you typically fish central Sierra Nevada streams, and why?
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec
Reason(s): _____

5. Which days of the week and what time of the day do you typically fish central Sierra Nevada streams, and why?
Days of the week: _____
Reason(s): _____

6. About how many total people are typically in your group when you fish central Sierra Nevada streams? (Circle one)
1-2 3-5 6-7 More than 7

7. What attributes do you consider in determining whether a central Sierra Nevada stream offers a quality stream fishing experience? (Circle all that apply)

Fishing success River Aesthetics Access Other_____

**Upper American River Project
Stream Angler Focus Group, April 10, 2004**

STREAM REACH INFORMATION FORM

Please fill out one of these forms for each reach you have fished

Your Name: _____.

Stream Reach (circle one)

1. Rubicon River from Rubicon Reservoir Dam to Hell Hole Reservoir.
2. Gerle Creek from Loon Lake Dam to Gerle Creek Reservoir.
3. South Fork Rubicon River from Robbs Forebay Dam to confluence with Rubicon River.
4. South Fork Silver Creek from Ice House Dam to Junction Reservoir.
5. Silver Creek from Junction Dam to Camino Reservoir.
6. Silver Creek from Camino Dam to confluence with South Fork American River.
7. South Fork American River from Camino Powerhouse to Slab Creek Reservoir.
8. South Fork American River from Slab Creek Dam to Chili Bar Reservoir.

Reach Information

1. About how many times have you fished this stream in the past ten years?
2. What species of fish do you typically fish for in this stream?
3. What time of year do you typically fish this stream, and why? (Circle all months that apply)
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec
4. Which days of the week and what time of the day do you typically fish this stream, and why?

5. Where do you typically park your vehicle when you fish this stream?
6. Are any improvements needed to improve access to this stream?
7. Relative to other central Sierra Nevada streams, please characterize this stream in terms of the quality of the stream fishing experience.
8. Relative to other central Sierra Nevada streams, please characterize the amount of fishing use that you feel this stream presently gets.
9. Please describe how the flows you have encountered when fishing this stream have affected your fishing experience.
10. Would flow data on the internet for this reach be beneficial to stream anglers? (Circle one)

Yes No No Opinion

**Upper American River Project
Stream Angler Focus Group, April 10, 2004**

GROUP DISCUSSION FORM

Group discussion

The group discussion questions will focus on the following general survey questions and specific stream survey questions, lead by the facilitator.

General survey discussion questions

Topic: WHEN DO YOU FISH

1. What time of year do you typically fish central Sierra Nevada streams, and why?
2. Which days of the week and what time of day do you typically fish central Sierra Nevada streams, and why?
3. What type of tackle do you typically use?

Topic: QUALITY AND SATISFACTION

4. What attributes do you consider in determining whether a central Sierra Nevada stream offers a quality stream fishing experience?

Specific stream reach discussion questions (first prioritize stream reaches by the number of participants who have fished each of the reaches.):

FISHED REACHES

Topic: WHEN DO YOU FISH

1. What time of year do you typically fish this stream, and why?
2. Which days of the week and what time of day do you typically fish this stream, and why?
3. Do you typically see other anglers or any people recreating while fishing this reach?

Topic: ACCESS

4. How did you access the river?

Are there any access improvements needed on this stream?

Topic: QUALITY & SATISFACTION

5. How does this stream compare in quality to other streams in the region?
6. Relative to other central Sierra Nevada streams, please characterize the amount of fishing use that this stream presently gets.
7. Please describe how the flows you have encountered when fishing this stream have affected your fishing experience.
8. Would flow data on the internet for this reach be beneficial to stream anglers? Yes, No, No Opinion.
9. If you have knowledge about commercial guiding, in your opinion, does this reach have commercial guiding potential?

:

UNFISHED REACHES

1. Have you considered fishing this reach?
2. Why have you not fished this reach?

Upper American River Project
Qualitative Data Sheet (for 2004 Creel Survey)

Reservoir (*Circle one*): ¹Ice House Res. ²Union Valley Res. ³Loon Lake Res.

Specific Ramp: _____ Angler Type: BOAT or SHORE (*circle one*)

Date: _____ Day of the week (*Circle one*): ¹Su ²Mon ³Tues ⁴Wed ⁵Thu ⁶Fri ⁷Sat

Gender (*Record by observation*): ¹Male or ²Female (*Please circle*) Interviewer: _____

ATTENTION: Angler number that provided the Qualitative Data below: _____

1. Were you satisfied with your fishing experience today? ¹YES ²NO ³NO OPINION (*Check one*)

If no, why? (*Record response verbatim*) _____

2. Are improvements needed to make access to the shorelines of the reservoirs:

a. Easier? ¹YES ²NO ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

b. Safer? ²NO ¹YES ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

c. More enjoyable? ¹YES ²NO ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

3. Did the water level of this reservoir allow you to participate in the recreational activities you had planned? (*Check one*)

¹YES (*conclude survey*) ²NO (*continue to 3a*) ³NO OPINION (*conclude survey*)

a. To what degree did the water level of this reservoir negatively impact your ability to have the type of experience you had planned?

¹No Impacts ²Minimal Impacts ³Moderate Impacts ⁴Significant Impacts ⁵No Opinion

If respondent selects "minimal, moderate or significant," then ask:
What impacts and how did it affect your trip? (*Record response verbatim*)

What impacts? _____

How? _____

4. May I please have the zip code of your primary place of residence? _____ (*Record response*)

APPENDIX C

SURVEY DATA AND FREQUENCY TABLES

- C.1 Developed (detailed surveys conducted at UARP recreation facilities)
 - C.1.1 SPSS Data (Weighted) (Raw Data Provided on CD by Request)
 - C.1.2 Frequencies with Survey Questions and Cuff Notes (Unweighted)
 - C.1.3 Frequencies all Reservoirs (Weighted)
 - C.1.4 Frequencies by Reservoir
- C.2 Dispersed (detailed surveys conducted at undeveloped areas around the four primary UARP reservoirs, generally within one-quarter mile from the reservoir shoreline)
 - C.2.1 SPSS Data (Raw Data Provided on CD by Request)
 - C.2.2 Frequencies
- C.3 Dispersed Windshield – Crystal Basin (detailed surveys left on vehicles parked at the wilderness trailhead at Loon Lake Reservoir and on visitor’s vehicles parked at dispersed areas adjacent to UARP reservoirs or bypassed reaches in the Crystal Basin where the visitor was not present)
 - C.3.1 SPSS Data (all locations) (Raw Data Provided on CD by Request)
 - C.3.2 SPSS Data (wilderness trailhead only) (Raw Data Provided on CD by Request)
 - C.3.3 Frequencies (all locations)
 - C.3.4 Frequencies (wilderness trailhead only)
- C.4 Dispersed Windshield – Canyonlands (detailed surveys left on vehicles parked at dispersed recreation areas in the lower portion of the UARP from Camino Reservoir to White Rock Powerhouse)
 - C.4.1 SPSS Data (Raw Data Provided on CD by Request)
 - C.4.2 Frequencies
- C.5 Winter 2002-03 Windshield (detailed surveys left on vehicles parked along the snowplow route in the Crystal Basin)
 - C.5.1 SPSS Data (Raw Data Provided on CD by Request)
 - C.5.2 Frequencies

- C.6 Winter 2002-03 Chalet (self-administered surveys focusing on the Loon Lake Chalet made available inside the Chalet)
 - C.6.1 SPSS Data (Raw Data Provided on CD by Request)
 - C.6.2 Frequencies
- C.7 Creel Survey at Storage Reservoirs
 - C.7.1 SPSS Data (Raw Data Provided on CD by Request)
 - C.7.2 Frequencies
 - C.7.3 Crosstab by Reservoir
- C.8 Results of Stream Angler Focus Group

(Raw Data Provided on CD by Request)

Appendix C.1.2 Frequencies with Survey Questions and Cuff Notes (Unweighted)

This compilation presents the results of approximately 700 personal interviews conducted at campgrounds, day use areas, and boat launch facilities located adjacent to or near the UARP’s four primary reservoirs during the summer of 2002.

The results are contained in frequency and percentage tables. The associated survey question is presented first, followed by the corresponding results table(s). The order of presentation follows the order that the questions are displayed in the survey instrument.

For some results we also include (1) general notes of explanation and (2) “cuff notes” reflecting the responses of the “other” category. Please note that some tables reflect data that as percentages and frequencies are not as useful as when used in cross tabulation exercises but they are none-the-less included in this presentation for your information. Also note that missing values in general reflect a non-required response or a no response from the participant.

A. Location (*Circle one*): ¹Ice House Res. ²Union Valley Res. ³Gerle Cr. Res. ⁴Loon Lake

Reservoir

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Ice House	167	24.0	24.0	24.0
Union Valley	171	24.5	24.5	48.5
Gerle Creek	175	25.1	25.1	73.6
Loon Lake	184	26.4	26.4	100.0
Total	697	100.0	100.0	

B. Specific Facility (Record campsite no. if applicable): _____

Facility

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Ice House	62	8.9	8.9	8.9
Northwind	7	1.0	1.0	9.9
Strawberry	8	1.1	1.1	11.0
Azalea Cove/Lone Rock	2	.3	.3	11.3
Red Fir Group	1	.1	.1	11.5
Big Silver Group	2	.3	.3	11.8
Camino Cove	9	1.3	1.3	13.1
Jones Fork	6	.9	.9	13.9
Sunset	39	5.6	5.6	19.5
Wench Creek Family	20	2.9	2.9	22.4
Wench Creek Group	6	.9	.9	23.2
Westpoint	3	.4	.4	23.7
Wolf Creek	6	.9	.9	24.5
Yellowjacket	11	1.6	1.6	26.1
Airport Flat	43	6.2	6.2	32.3
Gerle Creek	103	14.8	14.8	47.1
Loon Lake/Equestrian	29	4.2	4.2	51.2
Chalet	2	.3	.3	51.5
Loon Lake Group	4	.6	.6	52.1
Loon Lake Equestrian Group	1	.1	.1	52.2
Northshore	10	1.4	1.4	53.7
Pleasant	1	.1	.1	53.8
Ice House Boat Launch	71	10.2	10.2	64.0
West Point Boat Launch	28	4.0	4.0	68.0
Sunset Boat Launch	34	4.9	4.9	72.9
Yellowjacket Boat Launch	5	.7	.7	73.6
Loon Lake Boat Launch	136	19.5	19.5	93.1
Ice House Picnic	19	2.7	2.7	95.8
Gerle/Angel Picnic	29	4.2	4.2	100.0
Total	697	100.0	100.0	

Note: Expected interviews per location were based on average visitor usage numbers provided by the Forest Service.

C. Day of the week (*Circle one*): ¹Su ²Mon ³Tues ⁴Wed ⁵Thu ⁶Fri ⁷Sat

Day of the Week

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Sunday	189	27.1	27.1	27.1
	Monday	45	6.5	6.5	33.6
	Tuesday	56	8.0	8.0	41.6
	Wednesday	32	4.6	4.6	46.2
	Thursday	62	8.9	8.9	55.1
	Friday	64	9.2	9.2	64.3
	Saturday	249	35.7	35.7	100.0
	Total	697	100.0	100.0	

D. Date: _____

Month of Interview

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	July	228	32.7	32.7	32.7
	August	377	54.1	54.1	86.8
	September	92	13.2	13.2	100.0
	Total	697	100.0	100.0	

Day of Interview

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1	46	6.6	6.6	6.6
2	30	4.3	4.3	10.9
3	25	3.6	3.6	14.5
4	42	6.0	6.0	20.5
5	13	1.9	1.9	22.4
6	13	1.9	1.9	24.2
7	22	3.2	3.2	27.4
8	23	3.3	3.3	30.7
9	17	2.4	2.4	33.1
10	51	7.3	7.3	40.5
11	20	2.9	2.9	43.3
12	5	.7	.7	44.0
13	16	2.3	2.3	46.3
14	28	4.0	4.0	50.4
15	18	2.6	2.6	52.9
16	26	3.7	3.7	56.7
17	40	5.7	5.7	62.4
18	20	2.9	2.9	65.3
19	6	.9	.9	66.1
20	31	4.4	4.4	70.6
21	20	2.9	2.9	73.5
22	4	.6	.6	74.0
23	9	1.3	1.3	75.3
24	22	3.2	3.2	78.5
25	36	5.2	5.2	83.6
26	8	1.1	1.1	84.8
27	19	2.7	2.7	87.5
28	20	2.9	2.9	90.4
29	5	.7	.7	91.1
30	21	3.0	3.0	94.1
31	41	5.9	5.9	100.0
Total	697	100.0	100.0	

E. Weather (*Circle one*): ¹Clear ²Cloudy ³Rainy

Weather

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Clear	641	92.0	92.0	92.0
Cloudy	35	5.0	5.0	97.0
Rainy	1	.1	.1	97.1
No response	20	2.9	2.9	100.0
Total	697	100.0	100.0	

F. Gender (*Record by observation*): ¹Male or ²Female (*Please circle*)

Gender

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Male	401	57.5	57.5	57.5
Female	269	38.6	38.6	96.1
No response	27	3.9	3.9	100.0
Total	697	100.0	100.0	

G. Interview Start Time: _____ ¹AM ²PM (*Please circle*)

AM or PM

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid AM	261	37.4	37.4	37.4
PM	436	62.6	62.6	100.0
Total	697	100.0	100.0	

H. Do you have time today to participate? (80 stated no – they were not surveyed).

1. Have you been asked to participate in a similar survey this year? (60 stated yes – not surveyed).

2. Are you at least 18 years old? (8 stated no – they were not surveyed).

3. May I please have the zip code of your primary place of residence? _____ (*Record response*)

Note: We are presently in the process of recoding the zip codes as follows: (1) El Dorado County, (2) Sacramento County, (3) Placer County, (4) Yolo County, (5) Bay Area, and other. Once completed, this frequency table will be distributed. The actual frequencies for each zip code is available upon request.

4. How many people are in your group on this visit? _____ (Record response)

in Group

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1	24	3.4	3.4	3.4
2	188	27.0	27.0	30.4
3	89	12.8	12.8	43.2
4	102	14.6	14.6	57.8
5	65	9.3	9.3	67.1
6-10	140	20.1	20.1	87.2
11-15	44	6.3	6.3	93.5
16-20	21	3.0	3.0	96.6
21-30	12	1.7	1.7	98.3
31-40	3	.4	.4	98.7
41-50	5	.7	.7	99.4
51 or more	4	.6	.6	100.0
Total	697	100.0	100.0	

5. How many years have you been visiting the Crystal Basin? (Check one)

- No. of years _____ (Record years)
- First visit

Yrs Visiting Crystal Basin

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid First visit	124	17.8	17.8	17.8
1	19	2.7	2.7	20.5
2	46	6.6	6.6	27.1
3	43	6.2	6.2	33.3
4	22	3.2	3.2	36.4
5	51	7.3	7.3	43.8
6-10	114	16.4	16.4	60.1
11-15	76	10.9	10.9	71.0
16-20	62	8.9	8.9	79.9
21-30	75	10.8	10.8	90.7
31-40	39	5.6	5.6	96.3
41-50	14	2.0	2.0	98.3
51 or more	12	1.7	1.7	100.0
Total	697	100.0	100.0	

6. Is your visit to (*State reservoir name, location, or campground*): (Check one)

- ¹the primary destination of your trip?
- ²a side trip while camped at another location in the Crystal Basin?
- ³a stop on route to another destination? If so, where? _____
(Record response)

Is Your Visit

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid the primary destination of your trip	616	88.4	88.4	88.4
a side trip while camped at another location in the Crystal	54	7.7	7.7	96.1
a stop on route to another destination	22	3.2	3.2	99.3
No response	5	.7	.7	100.0
Total	697	100.0	100.0	

Other Destination

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Facility at Ice House Reservoir	1	.1	4.5	4.5
Facility at Gerle Creek Reservoir	3	.4	13.6	18.2
Facility at Loon Lake Reservoir	1	.1	4.5	22.7
Lake Tahoe	5	.7	22.7	45.5
Facility at Wrights Lake	2	.3	9.1	54.5
Other destination outside of Crystal Basin	10	1.4	45.5	100.0
Total	22	3.2	100.0	
Missing System	675	96.8		
Total	697	100.0		

Cuff notes on Other Destination Outside of Crystal Basin: Nevada (2), Salt Lake (2), Mammoth, Carson City, Silver Fork Campground, Las Vegas, Sacramento.

7. Is this visit a day trip from outside of the Crystal Basin or are you staying overnight in the Crystal Basin during your visit? (*Check one*)

¹Day trip from outside the Crystal Basin

How many hours are you staying? _____ (*Record response and go to question 8*)

²Staying overnight

How many nights are you staying? _____ (*Record response and continue to 7a*)

Day or Overnight

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Day Trip	144	20.7	20.7	20.7
	Staying Overnight	551	79.1	79.1	99.7
	No response	2	.3	.3	100.0
	Total	697	100.0	100.0	

Hours of Day Trip

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	3 hours or less	14	2.0	9.7	9.7
	4 to 6 hours	73	10.5	50.7	60.4
	7 to 9 hours	36	5.2	25.0	85.4
	10 hours or more	17	2.4	11.8	97.2
	No response	4	.6	2.8	100.0
	Total	144	20.7	100.0	
Missing	System	553	79.3		
Total		697	100.0		

of Nights

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 night	60	8.6	10.9	10.9
	2 nights	179	25.7	32.5	43.4
	3 nights	139	19.9	25.2	68.6
	4 nights	78	11.2	14.2	82.8
	5 nights	37	5.3	6.7	89.5
	6 nights	13	1.9	2.4	91.8
	7 nights	16	2.3	2.9	94.7
	8 to 14 nights	23	3.3	4.2	98.9
	No response	6	.9	1.1	100.0
	Total	551	79.1	100.0	
Missing	System	146	20.9		
Total		697	100.0		

a. If you are staying overnight, are you: *(Check one)*

¹Camping at a campground in the Crystal Basin?

(Record campground name)

²Camping in an undeveloped campsite?

(Describe location)

³Staying in a resort or private cabin or residence?

(Record name of resort or describe location of cabin or residence)

Type of Camping

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground	514	73.7	92.9	92.9
	Undeveloped Campsite	25	3.6	4.5	97.5
	Resort, Private Cabin or Residence	11	1.6	2.0	99.5
	No response	3	.4	.5	100.0
	Total	553	79.3	100.0	
Missing	System	144	20.7		
Total		697	100.0		

Name of Campground

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground at Ice House Reservoir	108	15.5	21.0	21.0
	Campground at Union Valley Reservoir	129	18.5	25.1	46.1
	Campground at Gerle Creek Reservoir	164	23.5	31.9	78.0
	Campground at Loon Lake Reservoir	109	15.6	21.2	99.2
	Campground at Wrights Lake	2	.3	.4	99.6
	Other	1	.1	.2	99.8
	Unreadable response	1	.1	.2	100.0
	Total	514	73.7	100.0	
Missing	System	183	26.3		
Total		697	100.0		

Undeveloped Campsite

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Site within .25 mile of Union Valley Reservoir	8	1.1	32.0	32.0
	Site within .25 mile of Gerle Creek Reservoir	2	.3	8.0	40.0
	Site within .25 mile of Loon Lake Reservoir	7	1.0	28.0	68.0
	Jones Wreckum Road Area	1	.1	4.0	72.0
	Millionaire Camp Area	1	.1	4.0	76.0
	Undecided	2	.3	8.0	84.0
	Other dispersed area	2	.3	8.0	92.0
	No Response	2	.3	8.0	100.0
	Total	25	3.6	100.0	
Missing	System	672	96.4		
Total		697	100.0		

Resort

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Robbs Resort	3	.4	27.3	27.3
	Gerle Recreational Residences	2	.3	18.2	45.5
	Other	6	.9	54.5	100.0
	Total	11	1.6	100.0	
Missing	System	686	98.4		
Total		697	100.0		

Cuff notes on Other: Robbs Hut (2), Stone Cellar, Pollock Pines, private cabin in Tahoe.

8. (Hand the respondent a card with one of 3 versions of this list.) From the activities listed on this card, please select the recreational activities you have participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping? (Check all that apply.)

- | | | |
|--|--|--|
| <input type="checkbox"/> BACKPACKING (1) | <input type="checkbox"/> HUNTING (7) | <input type="checkbox"/> SAIL BOATING (13) |
| <input type="checkbox"/> BICYCLING (2) | <input type="checkbox"/> OFF-HIGHWAY VEHICLE (OHV) USE (8) | <input type="checkbox"/> SWIMMING (14) |
| <input type="checkbox"/> CANOEING/KAYAKING (3) | <input type="checkbox"/> PICNICKING (9) | <input type="checkbox"/> VISITING CULTURAL/HISTORIC SITES (15) |
| <input type="checkbox"/> FISHING (LAKE OR RESERVOIR) (4) | <input type="checkbox"/> PHOTOGRAPHY (10) | <input type="checkbox"/> WILDLIFE VIEWING (16) |
| <input type="checkbox"/> FISHING (STREAM OR RIVER) (5) | <input type="checkbox"/> POWER BOATING (11) | <input type="checkbox"/> OTHER (17):
(Specify) _____ |
| <input type="checkbox"/> HIKING/WALKING (6) | <input type="checkbox"/> PWC USE (JET SKI) (12) | |

Backpacking

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	49	7.0	100.0	100.0
Missing	System	648	93.0		
Total		697	100.0		

Bicycling

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	115	16.5	100.0	100.0
Missing System	582	83.5		
Total	697	100.0		

Canoeing/Kayaking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	122	17.5	100.0	100.0
Missing System	575	82.5		
Total	697	100.0		

Fishing (Lake or Reservoir)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	362	51.9	100.0	100.0
Missing System	335	48.1		
Total	697	100.0		

Fishing (Stream or River)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	67	9.6	100.0	100.0
Missing System	630	90.4		
Total	697	100.0		

Hiking/Walking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	424	60.8	100.0	100.0
Missing System	273	39.2		
Total	697	100.0		

Hunting

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	11	1.6	100.0	100.0
Missing System	686	98.4		
Total	697	100.0		

OHV Use

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	70	10.0	100.0	100.0
Missing System	627	90.0		
Total	697	100.0		

Picnicking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	359	51.5	100.0	100.0
Missing System	338	48.5		
Total	697	100.0		

Photography

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	228	32.7	100.0	100.0
Missing System	469	67.3		
Total	697	100.0		

Power Boating

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	150	21.5	100.0	100.0
Missing System	547	78.5		
Total	697	100.0		

PWC Use

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	33	4.7	100.0	100.0
Missing System	664	95.3		
Total	697	100.0		

Sail Boating

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	18	2.6	100.0	100.0
Missing System	679	97.4		
Total	697	100.0		

Swimming

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	463	66.4	100.0	100.0
Missing System	234	33.6		
Total	697	100.0		

Visiting Cultural/Historic Sites

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	40	5.7	100.0	100.0
Missing System	657	94.3		
Total	697	100.0		

Wildlife Viewing

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	324	46.5	100.0	100.0
Missing System	373	53.5		
Total	697	100.0		

Other

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	665	95.4	95.4	95.4
Archery	1	.1	.1	95.6
Botanizing	1	.1	.1	95.7
Camping	1	.1	.1	95.8
Church Camp	1	.1	.1	96.0
Come up to see if there was enough water to fish and get the boat in	1	.1	.1	96.1
Disable Sports USA	1	.1	.1	96.3
Driving	1	.1	.1	96.4
Eating & Drinking at Robbs	2	.3	.3	96.7
Experiments	1	.1	.1	96.8
Geocaching	1	.1	.1	97.0
Gold Panning	1	.1	.1	97.1
Horseback riding	2	.3	.3	97.4
Paddle Boat	1	.1	.1	97.6
Painting	1	.1	.1	97.7
Rafting	3	.4	.4	98.1
Relaxing	3	.4	.4	98.6
Scouting the area	1	.1	.1	98.7
Scuba Diving	2	.3	.3	99.0
Shooting	1	.1	.1	99.1
Star Gazing	1	.1	.1	99.3
Staying away from people	1	.1	.1	99.4
Stop-over	1	.1	.1	99.6
Sunbathing	1	.1	.1	99.7
Target Shooting	1	.1	.1	99.9
To Play	1	.1	.1	100.0
Total	697	100.0	100.0	

9. What are your three most important recreational activities from this list? *(If respondent selects less than three in question 8, then just rank the one or two activities selected. Record response using numbers above.)*

A. Most important activity. _____

B. 2nd most important activity. _____

C. 3rd most important activity. _____

Most Important Activity

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Backpacking	11	1.6	1.6	1.6
Bicycling	12	1.7	1.7	3.3
Canoeing/Kayaking	43	6.2	6.2	9.5
Fishing (Lake or Reservoir)	185	26.5	26.5	36.0
Fishing (Stream or River)	4	.6	.6	36.6
Hiking/Walking	85	12.2	12.2	48.8
Hunting	6	.9	.9	49.6
OHV Use	38	5.5	5.5	55.1
Picnicking	38	5.5	5.5	60.5
Photography	12	1.7	1.7	62.3
Power Boating	70	10.0	10.0	72.3
PWC Use (Jet Ski)	17	2.4	2.4	74.7
Sail Boating	3	.4	.4	75.2
Swimming	112	16.1	16.1	91.2
Visiting Cultural/Historic Sites	3	.4	.4	91.7
Wildlife Viewing	33	4.7	4.7	96.4
Other	16	2.3	2.3	98.7
No response	9	1.3	1.3	100.0
Total	697	100.0	100.0	

2nd Most Important Activity

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Backpacking	9	1.3	1.3	1.3
Bicycling	29	4.2	4.2	5.5
Canoeing/Kayaking	20	2.9	2.9	8.3
Fishing (Lake or Reservoir)	71	10.2	10.2	18.5
Fishing (Stream or River)	18	2.6	2.6	21.1
Hiking/Walking	116	16.6	16.6	37.7
Hunting	1	.1	.1	37.9
OHV Use	11	1.6	1.6	39.5
Picnicking	77	11.0	11.0	50.5
Photography	29	4.2	4.2	54.7
Power Boating	29	4.2	4.2	58.8
PWC Use (Jet Ski)	6	.9	.9	59.7
Sail Boating	4	.6	.6	60.3
Swimming	141	20.2	20.2	80.5
Visiting Cultural/Historic Sites	2	.3	.3	80.8
Wildlife Viewing	55	7.9	7.9	88.7
Other	5	.7	.7	89.4
No response	74	10.6	10.6	100.0
Total	697	100.0	100.0	

3rd Most Important Activity

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Backpacking	1	.1	.1	.1
Bicycling	18	2.6	2.6	2.7
Canoeing/Kayaking	21	3.0	3.0	5.7
Fishing (Lake or Reservoir)	35	5.0	5.0	10.8
Fishing (Stream or River)	5	.7	.7	11.5
Hiking/Walking	98	14.1	14.1	25.5
Hunting	2	.3	.3	25.8
OHV Use	6	.9	.9	26.7
Picnicking	98	14.1	14.1	40.7
Photography	43	6.2	6.2	46.9
Power Boating	19	2.7	2.7	49.6
PWC Use (Jet Ski)	4	.6	.6	50.2
Swimming	87	12.5	12.5	62.7
Visiting Cultural/Historic Sites	5	.7	.7	63.4
Wildlife Viewing	80	11.5	11.5	74.9
Other	5	.7	.7	75.6
No response	170	24.4	24.4	100.0
Total	697	100.0	100.0	

10. Would you like to see any changes or improvements to the existing motorized trail system, such as off highway vehicle trails, in the Crystal Basin?

¹ YES ² NO ³ NO OPINION (*Check one*)

If yes, what are they and where? (*Record response verbatim*)

What? _____

Where? _____

Changes to Motorized Trails

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	110	15.8	15.8	15.8
No	314	45.1	45.1	60.8
No Opinion	271	38.9	38.9	99.7
No response	2	.3	.3	100.0
Total	697	100.0	100.0	

Coded List of What Changes to Motorized (MAX 3)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Expanded motorized trail system	36	5.2	32.7	32.7
	Reopen Bassi Falls area	13	1.9	11.8	44.5
	Reduce regulations or enforcement over OHV use	6	.9	5.5	50.0
	Improve trailhead markers (not obvious if allowable)	8	1.1	7.3	57.3
	Reduce or eliminate motorized trail system	22	3.2	20.0	77.3
	Strengthen regulations or enforcement over OHV use	9	1.3	8.2	85.5
	More paved or other road improvements	3	.4	2.7	88.2
	Other	8	1.1	7.3	95.5
	No response	5	.7	4.5	100.0
	Total	110	15.8	100.0	
Missing	System	587	84.2		
Total		697	100.0		

Note: (MAX 3) denotes that we documented up to three different responses from the respondent. For question number 10, of the 110 respondents who responded “yes,” three provided two different responses.

Coded List of What Changes to Motorized 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Reduce regulations or enforcement over OHV use	1	.1	33.3	33.3
	Improve trailhead markers (not obvious if allowable)	1	.1	33.3	66.7
	Other	1	.1	33.3	100.0
	Total	3	.4	100.0	
Missing	System	694	99.6		
Total		697	100.0		

Cuff notes on Other:

- Identify on map undeveloped campsite locations.
- Others need to clean up after using the facilities.

Stay to main trail more.
 Undulations to slow down OHV's in campgrounds (AFCG).
 Designated only for OHV (AFCG).
 Don't increase the amount (Wolf Creek).
 Better road signage to Yellow Jacket CG (YJCG).
 Leave them alone, let nature be (SSCG).

11. Would you like to see any changes or improvements to the existing non-motorized trail system, such as hiking trails, in the Crystal Basin?

²NO ¹YES ³NO OPINION (*Check one*)

If yes, what are they and where? (*Record response verbatim*)

What? _____

Where? _____

Changes to Non-Motorized Trails

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	110	15.8	15.8	15.8
No	406	58.2	58.2	74.0
No Opinion	180	25.8	25.8	99.9
No response	1	.1	.1	100.0
Total	697	100.0	100.0	

Coded List of What Changes to Non-Motorized (MAX 3)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Better trail/trailhead marking	38	5.5	34.5	34.5
	Increase information/maps	6	.9	5.5	40.0
	More bike trails	11	1.6	10.0	50.0
	More hiking trails	6	.9	5.5	55.5
	More equestrian trails	1	.1	.9	56.4
	More trails	24	3.4	21.8	78.2
	Increase level of development	7	1.0	6.4	84.5
	Increase trail maintenance	3	.4	2.7	87.3
	Other	11	1.6	10.0	97.3
	No response	3	.4	2.7	100.0
	Total	110	15.8	100.0	
Missing	System	587	84.2		
Total		697	100.0		

Coded List of What Changes to Non-Motorized 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Increase information/maps	5	.7	38.5	38.5
	More hiking trails	3	.4	23.1	61.5
	More trails	3	.4	23.1	84.6
	More hike-in or boat-in only campgrounds	2	.3	15.4	100.0
	Total	13	1.9	100.0	
Missing	System	684	98.1		
Total		697	100.0		

Coded List of What Changes to Non-Motorized 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More trails	1	.1	100.0	100.0
Missing	System	696	99.9		
Total		697	100.0		

Cuff notes on Other:

Open more rules - Bassi Falls.

Motorcycles on trails - Trail 13N77 leads to Rubicon.
 Clean up after use - Trail from Loon Lake to Spider Lake.
 Restrictions for dogs on leash - More trails for dogs off leash.
 Make sure they are safe.
 Foot path closed (SSCG).
 Less garbage (WPBL).
 Water at trailheads.
 Make tougher trails (GCCG).
 Crowded – permit program (IHCG).
 Open the trail back up to Bassi Falls (SSCG).

12. Are improvements needed to make access to the shorelines of the reservoirs:

a. Easier? ¹ YES ² NO ³ NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

b. Safer? ² NO ¹ YES ³ NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

c. More enjoyable? ¹ YES ² NO ³ NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

Are improvements needed to make access to shorelines easier, safer, OR more enjoyable?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	At least one yes in 12a,b,c	145	20.8	20.8	20.8
	No	502	72.0	72.0	92.8
	No Opinion	50	7.2	7.2	100.0
	Total	697	100.0	100.0	

Note: The Forest Service and SMUD agreed to the following at the October 4, 2002, coding meeting: (1) if respondent gave the same response for two or for all three variables (easier, safer and more enjoyable), it will be counted as only one response; (2) do not distinguish between “easier, safer or more enjoyable” since we will have the ability to pull the specific surveys within a specific category to review what they said and to which variable it was in response to; and (3) make cuff notes as appropriate for responses under “other.” Data was recorded for each variable and is available upon request.

Coded list of changes to shorelines (MAX 4)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Clearly defined trail to shoreline	25	3.6	17.2	17.2
	More docks	7	1.0	4.8	22.1
	More parking	5	.7	3.4	25.5
	Make improvements for seniors or disabled	9	1.3	6.2	31.7
	Keep water levels up	1	.1	.7	32.4
	More sand/Less rocks	22	3.2	15.2	47.6
	Pave trail to shoreline	2	.3	1.4	49.0
	More picnic or day-use areas	1	.1	.7	49.7
	More fish	2	.3	1.4	51.0
	Banks are too steep	2	.3	1.4	52.4
	More campgrounds or campsites closer to shoreline	6	.9	4.1	56.6
	Greater road access	9	1.3	6.2	62.8
	More designated swimming areas	3	.4	2.1	64.8
	Floating bathrooms	1	.1	.7	65.5
	More boat ramps	2	.3	1.4	66.9
	More information about access	1	.1	.7	67.6
	Other	37	5.3	25.5	93.1
	No response	9	1.3	6.2	99.3
	Unreadable response	1	.1	.7	100.0
	Total	145	20.8	100.0	
Missing	System	552	79.2		
Total		697	100.0		

Coded list of changes to shorelines 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Clearly defined trail to shoreline	2	.3	7.1	7.1
	Make improvements for seniors or disabled	1	.1	3.6	10.7
	Keep water levels up	1	.1	3.6	14.3
	More sand/Less rocks	5	.7	17.9	32.1
	Pave trail to shoreline	1	.1	3.6	35.7
	More picnic or day-use areas	1	.1	3.6	39.3
	More fish	1	.1	3.6	42.9
	Banks are too steep	1	.1	3.6	46.4
	More campgrounds or campsites closer to shoreline	3	.4	10.7	57.1
	More designated swimming areas	1	.1	3.6	60.7
	Floating bathrooms	1	.1	3.6	64.3
	More information about access	1	.1	3.6	67.9
	Other	7	1.0	25.0	92.9
	No response	2	.3	7.1	100.0
	Total	28	4.0	100.0	
Missing	System	669	96.0		
Total		697	100.0		

Coded list of changes to shorelines 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Make improvements for seniors or disabled	1	.1	20.0	20.0
	More sand/Less rocks	1	.1	20.0	40.0
	More fish	1	.1	20.0	60.0
	No response	2	.3	40.0	100.0
	Total	5	.7	100.0	
Missing	System	692	99.3		
Total		697	100.0		

Coded list of changes to shorelines 4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Other	1	.1	100.0	100.0
Missing System	696	99.9		
Total	697	100.0		

Cuff notes on Other:

- 5 MPH zone as you near shoreline (3) (IHBL, IHP and IHP).
- Concerned about bears – (3).
- Make boat ramp steeper – (3) (LLBL).
- Make less access – (2) (IHBL).
- Be able to drive to shoreline – (2) (IHBL and IHP).
- Easier access at yellow jacket.
- Provide security.
- More sheriff patrols.
- Provide more supervision, rangers (Wolf Creek CG).
- Training program for people who get into trouble on the water.
- Sign warning people how dangerous it can be to overload boat while going to dispersed camping area (LLBL).
- More trails to streams.
- Maintain natural settings, add anti-siphon valves.
- Two lane roads for better passing (WC Group).
- Get rid of the jet skiers, they cruise the shoreline instead of the middle of reservoir, they cut people off.
- Short pack-in trails to camping areas near shoreline (WPBL).
- Low-water boat ramp improvements (WPBL).
- Buoys on the boulders so you can tie up boats (towards the shoreline) (LLBL).
- Markers and buoys (Wench Creek CG)
- Buoys to mark off swim area (IHP).
- Stop people from fishing off of boat ramp; no sign posted to tell people not to do this (LLBL).
- Smoother dry docking (IHBL).
- Fire protection (IHBL).
- More shade on picnic facilities by shoreline (IHBL).
- Trail around GCR.
- Increase access for off hiking trail (LLCG).
- More accessible.
- More trash cans, keep clean (IHBL).
- Full hook-ups.
- Clear open spaces (YJCG).
- Drop-off area near shoreline (Wench Creek Group).
- Improve roads, fix potholes (Wench Creek CG).
- Allow rental places to rent in area.
- Shorter routes (Wench Creek CG).

13. Are improvements needed to make access to rivers or streams:

a. Easier? ²NO ¹YES ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

b. Safer? ¹YES ²NO ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

c. More enjoyable? ²NO ¹YES ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

Are improvements needed to make access to rivers or streams easier, safer OR more enjoyable?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	At least one yes in 12a,b,c	51	7.3	7.3	7.3
	No	421	60.4	60.4	67.7
	No Opinion	225	32.3	32.3	100.0
	Total	697	100.0	100.0	

Note: The Forest Service and SMUD agreed to the following at the October 4, 2002, coding meeting: (1) if respondent gave the same response for two or for all three variables (easier, safer and more enjoyable), it will be counted as only one response; (2) do not distinguish between “easier, safer or more enjoyable” since we will have the ability to pull the specific surveys within a specific category to review what they said and to which variable it was in response to; and (3) make cuff notes as appropriate for responses under “other.” Data was recorded for each variable and is available upon request.

Coded list of changes to rivers or streams (MAX 4)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve road and trail access to river or stream	24	3.4	47.1	47.1
	Paved trails or walkways	4	.6	7.8	54.9
	Better parking	3	.4	5.9	60.8
	Picnic areas	2	.3	3.9	64.7
	More information about access	6	.9	11.8	76.5
	Remove some of the brush along river or stream	1	.1	2.0	78.4
	Improve accessibility for seniors or disabled	3	.4	5.9	84.3
	Other	5	.7	9.8	94.1
	No response	3	.4	5.9	100.0
	Total	51	7.3	100.0	
Missing	System	646	92.7		
Total		697	100.0		

Coded list of changes to rivers or streams 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Better parking	2	.3	22.2	22.2
	Picnic areas	1	.1	11.1	33.3
	Improve accessibility for seniors or disabled	1	.1	11.1	44.4
	Other	3	.4	33.3	77.8
	No response	2	.3	22.2	100.0
	Total	9	1.3	100.0	
Missing	System	688	98.7		
Total		697	100.0		

Coded list of changes to rivers or streams 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve accessibility for seniors or disabled	1	.1	50.0	50.0
	No response	1	.1	50.0	100.0
	Total	2	.3	100.0	
Missing	System	695	99.7		
Total		697	100.0		

Cuff notes on Other:

- Make them harder to access.
- More restrictions for OHV.
- Conserve natural beauty.
- Excessive trash.
- Warnings about water dangers when crossing small streams with rushing water.
- More information about wildlife.

14. Did the water level of this reservoir (*or closest reservoir*) allow you to participate in the recreational activities you had planned? (*Check one*)

- ¹ YES (*go to question 15*) ² NO (*continue to 14a*) ³ NO OPINION (*go to question 15*)

Did water level allow you to participate in activities?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	634	91.0	91.0	91.0
No	15	2.2	2.2	93.1
No Opinion	48	6.9	6.9	100.0
Total	697	100.0	100.0	

A. To what degree did the water level of this reservoir (*or closest reservoir*) negatively impact your ability to have the type of experience you had planned?

- ¹ No Impacts (*go to question 15*) ² Minimal Impacts ³ Moderate Impacts ⁴ Significant Impacts ⁵ No Opinion (*go to question 15*)

*If respondent selects "minimal, moderate or significant," then ask:
What impacts and how did it affect your trip? (Record response verbatim)*

What impacts? _____

How? _____

To what degree did water level impact?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Minimal	6	.9	40.0	40.0
Moderate	4	.6	26.7	66.7
No response	5	.7	33.3	100.0
Total	15	2.2	100.0	
Missing System	682	97.8		
Total	697	100.0		

List of what impacts (reservoir)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	682	97.8	97.8	97.8
Cancelled some activities	1	.1	.1	98.0
Hoping H2O level lower - so not so many people	1	.1	.1	98.1
Low water level affects fishing.	1	.1	.1	98.3
No Fish.	1	.1	.1	98.4
No markers of shallow areas in reservoir opted not to boat.	1	.1	.1	98.6
No Response.	5	.7	.7	99.3
On a nature walk it was difficult to collect rocks that are needed for my collection.	1	.1	.1	99.4
The water level looks like it has gone down over the course of the summer.	1	.1	.1	99.6
Water level low - had to walk further to water.	1	.1	.1	99.7
Water level lower than normal - affects fishing.	1	.1	.1	99.9
Water level too low.	1	.1	.1	100.0
Total	697	100.0	100.0	

15. To what extent did the water level of this reservoir (*or closest reservoir*) negatively affect the quality of the experience you had planned.

¹None ²Minimal ³Moderate ⁴Significant ⁵No Opinion
 (go to question 16) (go to question 16)

*If respondent selects "minimal, moderate or significant," then ask:
 How did it affect the quality of your experience? (Record response verbatim)*

How? _____

Extent negatively affecting quality of experience (reservoirs)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	None	626	89.8	89.8	89.8
	Minimal	19	2.7	2.7	92.5
	Moderate	7	1.0	1.0	93.5
	Significant	1	.1	.1	93.7
	No Opinion	44	6.3	6.3	100.0
	Total	697	100.0	100.0	

List of how (reservoir/quality)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	670	96.1	96.1	96.1
A little low - have to walk.	1	.1	.1	96.3
As reservoir drops rocks appear-dangerous - install markers.	1	.1	.1	96.4
Beaches farther from water.	1	.1	.1	96.6
Got snagged on some rocks while on Loon Lake.	1	.1	.1	96.7
Had to walk further to get to water.	1	.1	.1	96.8
Harder to launch boat.	1	.1	.1	97.0
I just couldn't do everything I planned.	1	.1	.1	97.1
It was too cold to swim.	1	.1	.1	97.3
Keep at one level for fishing.	1	.1	.1	97.4
Kinda high.	1	.1	.1	97.6
Large rocks used to jump off of - under water.	1	.1	.1	97.7
Little more water.	1	.1	.1	97.8
Lots of rock (sandbar) put warning signs up.	1	.1	.1	98.0
More rocks - hazards (need markers).	1	.1	.1	98.1
Need extra fishing dock.	1	.1	.1	98.3
No Fish.	1	.1	.1	98.4
No Response	8	1.1	1.1	99.6
Took longer to get to water.	1	.1	.1	99.7
Water level was a little low.	1	.1	.1	99.9
Water was murky & silty - put gravel over more of the beach area.	1	.1	.1	100.0
Total	697	100.0	100.0	

16. Did the amount of flow in the streams allow you to participate in the activities you had planned?
(Check one)

² NO (continue to 16a) ¹ YES (go to question 17) ³ NO OPINION (go to question 17)

Did flow in streams allow participation

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	351	50.4	50.4	50.4
	No	37	5.3	5.3	55.7
	No Opinion	309	44.3	44.3	100.0
	Total	697	100.0	100.0	

A. To what degree did the amount of flow in the streams negatively impact your ability to have the type of experience you had planned?

¹ No Impacts (go to question 17) ² Minimal Impacts ³ Moderate Impacts ⁴ Significant Impacts ⁵ No Opinion (go to question 17)

If respondent selects "minimal, moderate or significant," then ask:

On what segments of streams, what impacts and how did it affect your trip? (Record response verbatim)

Segments of streams? _____

What impacts? _____

How? _____

Degree negatively impact type of experience

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Minimal	7	1.0	18.9	18.9
	Moderate	6	.9	16.2	35.1
	Significant	1	.1	2.7	37.8
	No response	23	3.3	62.2	100.0
	Total	37	5.3	100.0	
Missing	System	660	94.7		
Total		697	100.0		

List of what impacts (stream segments)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	660	94.7	94.7	94.7
Bassi Falls - No water - wasn't enjoyable to hike or look at.	1	.1	.1	94.8
GC below LLD-pools not deep enough for fish increase flow slightly	1	.1	.1	95.0
Gerle Creek below Loon Lake Dam - Beer Cans & trash in creek (from Jamboree)	1	.1	.1	95.1
Gerle Creek low water level.	1	.1	.1	95.3
Gerle Creek near AFCG looked low	1	.1	.1	95.4
Jones Fork Silver Creek - level too low, lots of debris, remove trees and logs, couldn't fish.	1	.1	.1	95.6
Jones Fork Silver Creek - water level seemed really low.	1	.1	.1	95.7
No Response.	23	3.3	3.3	99.0
Section coming from Ice House up to Wench Creek-wasn't able to swim & fish water too low.	1	.1	.1	99.1
Silver Creek - Water was low, wasn't very pretty, didn't look natural.	1	.1	.1	99.3
Silver Creek really low - could not stream fish because water was so low.	1	.1	.1	99.4
Silver Creek, Gerle Creek - Water was a little low-made it difficult to fish.	1	.1	.1	99.6
South Rubicon River trail - fish trapped, no rushing water, could't enjoy scenery-conc'd about fish	1	.1	.1	99.7
Water level looks low in all streams - not very pretty.	1	.1	.1	99.9
Wench Creek Group/some water equipment wasn't used	1	.1	.1	100.0
Total	697	100.0	100.0	

List of how (streams/quality)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	672	96.4	96.4	96.4
Could only fish in small pools, not worthwhile.	1	.1	.1	96.6
Couldn't fish - planned activity.	1	.1	.1	96.7
Didn't catch enough fish	1	.1	.1	96.8
Disappointing, could not sit by flowing water-it was brackish not attractive	1	.1	.1	97.0
Expected more water - prettier to look at.	1	.1	.1	97.1
Fishing holes are not as deep - hard on fish.	1	.1	.1	97.3
Hoped for more water while hiking by river.	1	.1	.1	97.4
Hurts Bread of fish	1	.1	.1	97.6
I couldn't swim.	1	.1	.1	97.7
Little more water.	1	.1	.1	97.8
Location-walk further to find water.	1	.1	.1	98.0
More water in streams makes a more worth while hike (scenic beauty).	1	.1	.1	98.1
No Response	6	.9	.9	99.0
No water in falls, made the hike pointless	1	.1	.1	99.1
Not many fish present-they need deeper pools	1	.1	.1	99.3
Poor fishing experience because water level was low.	1	.1	.1	99.4
Poor flow for trout fishing.	1	.1	.1	99.6
Streams were low, it made fishing difficult-but I went to the lakes.	1	.1	.1	99.7
Trash & beer cans in creek - opted not to fish.	1	.1	.1	99.9
Water was a little low in streams	1	.1	.1	100.0
Total	697	100.0	100.0	

18. Are there any recreational activities that you would like to do at the Crystal Basin that you are currently unable to participate in?

¹ YES ² NO ³ DON'T KNOW (Check one)

Are there activities you are unable to participate in?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	49	7.0	7.0	7.0
No	562	80.6	80.6	87.7
Don't Know	85	12.2	12.2	99.9
No response	1	.1	.1	100.0
Total	697	100.0	100.0	

If yes, what activities and why? (Record response verbatim)

What activities? _____

Why? _____

Coded list of activities

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Boating - don't have boat or no place to rent	11	1.6	22.4	22.4
Mountain biking - need trails or don't know where its allowe	2	.3	4.1	26.5
Horseshoes	5	.7	10.2	36.7
Quieter experience (w/o motorized vehicles)	2	.3	4.1	40.8
Longer hikes	1	.1	2.0	42.9
Horseback riding - enjoy it	6	.9	12.2	55.1
Dogs/Pet-based	1	.1	2.0	57.1
Other water based	3	.4	6.1	63.3
Other land based	15	2.2	30.6	93.9
Other	3	.4	6.1	100.0
Total	49	7.0	100.0	
Missing System	648	93.0		
Total	697	100.0		

Cuff notes on Other Water Based:

Whitewater rafting (Wench Creek CG)

Swim dock / water slide (YJCG)

Motor boating – not allowed (GCCG)

Boating – too dangerous at Loon Lake (Northshore RVCG)

Cuff notes on Other Land Based:

- Roller blade - exercise.
- Bike trails - forgot bikes.
- Mark rock climbing trails (IHBL).
- Winter activities (GCP).
- Volleyball (Wench Creek CG).
- Off road trails going somewhere.
- More off-roading.
- Motorcycle riding access (IHCG).
- OHVs (GCCG).
- ATV rentals.
- ATV – need more areas where allowable.
- Drive 4X4 to Bassi Falls (IHBL).
- OHV area – open up Bassi Falls again (SSCG).
- OHV – need more areas.
- Dancing for elderly.
- Camping – more FCFS (IHBL).
- Shooting – unclear where to do it (SSCG).

Cuff notes on Other:

- Larger tent areas.
- Access to Bassi Falls – road closed (SSCG).

19. Are there any changes or improvements that you would like to see at this facility (*this campground, boat launch or day use area*)?

²NO ¹YES ³DON'T KNOW (*Check one*)

Any change or improvements to facility?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	376	53.9	53.9	53.9
	No	298	42.8	42.8	96.7
	Don't Know	22	3.2	3.2	99.9
	No response	1	.1	.1	100.0
	Total	697	100.0	100.0	

If yes, what changes or improvements? (*Record response verbatim*)

Coded list of changes (MAX 3)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom or shower related	170	24.4	45.2	45.2
	Potable water related	38	5.5	10.1	55.3
	Other developed facility changes related	27	3.9	7.2	62.5
	Improve management services related	13	1.9	3.5	66.0
	RV related	17	2.4	4.5	70.5
	Boat launch related	20	2.9	5.3	75.8
	Trails related	5	.7	1.3	77.1
	More first-come, first-serve opportunities	2	.3	.5	77.7
	Fix or improve roads	6	.9	1.6	79.3
	Install food storage boxes	14	2.0	3.7	83.0
	Solve the bear problem	10	1.4	2.7	85.6
	More campgrounds or campsites	9	1.3	2.4	88.0
	More beaches	6	.9	1.6	89.6
	Less powerboats	4	.6	1.1	90.7
	Less personal water crafts	4	.6	1.1	91.8
	Less OHVs	1	.1	.3	92.0
	Allow electric motors on Gerle Creek Reservoir	1	.1	.3	92.3
	Better signs along roadway	1	.1	.3	92.6
	Buoys or markers identifying hazards	4	.6	1.1	93.6
	Higher reservoir levels	1	.1	.3	93.9
	Stock more fish	3	.4	.8	94.7
	Bee traps	1	.1	.3	94.9
	Other	12	1.7	3.2	98.1
	No response	6	.9	1.6	99.7
	Unreadable response	1	.1	.3	100.0
	Total	376	53.9	100.0	
Missing	System	321	46.1		
Total		697	100.0		

Coded list of changes 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom or shower related	41	5.9	31.8	31.8
	Potable water related	21	3.0	16.3	48.1
	Other developed facility changes related	18	2.6	14.0	62.0
	Improve management services related	10	1.4	7.8	69.8
	RV related	3	.4	2.3	72.1
	Boat launch related	5	.7	3.9	76.0
	Trails related	1	.1	.8	76.7
	Fix or improve roads	1	.1	.8	77.5
	Install food storage boxes	8	1.1	6.2	83.7
	Solve the bear problem	3	.4	2.3	86.0
	More campgrounds or campsites	2	.3	1.6	87.6
	More beaches	2	.3	1.6	89.1
	Less powerboats	2	.3	1.6	90.7
	Less personal water crafts	2	.3	1.6	92.2
	Better signs along roadway	1	.1	.8	93.0
	Stock more fish	1	.1	.8	93.8
	Other	8	1.1	6.2	100.0
	Total	129	18.5	100.0	
Missing	System	568	81.5		
Total		697	100.0		

Coded list of changes 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom or shower related	3	.4	8.1	8.1
	Potable water related	4	.6	10.8	18.9
	Other developed facility changes related	9	1.3	24.3	43.2
	Improve management services related	2	.3	5.4	48.6
	RV related	2	.3	5.4	54.1
	Boat launch related	1	.1	2.7	56.8
	Trails related	2	.3	5.4	62.2
	More first-come, first-serve opportunities	1	.1	2.7	64.9
	Install food storage boxes	5	.7	13.5	78.4
	Solve the bear problem	1	.1	2.7	81.1
	Less personal water crafts	1	.1	2.7	83.8
	Bee traps	1	.1	2.7	86.5
	Other	5	.7	13.5	100.0
	Total	37	5.3	100.0	
Missing	System	660	94.7		
Total		697	100.0		

Cuff notes on Other:

- More info available (IHBL).
- Vending machines (IHBL).
- Make all reservoir and streams in CBRA “catch and release” (GCCG).
- Do something with gun shooting (AFCG).
- Don’t allow it to become overcrowded (IHCG).
- No more improvements (LLBL).
- Keep development slow (IHP).
- A water faucet change end so hoses can be screwed on (WC Group).
- Post on a sign what the construction is for (GCP).
- Pave the roads (AFCG).
- Make reservation system so you don’t pay fees (LLCG).
- Fee too high (2 – LLBL and GCCG).
- Allow vehicles to campsites for loading and unloading only (ACCG).
- When reservoir is down, allow parking by shoreline (YJCG).
- General store or another store (2 – Wench Creek CG and LLBL).
- Discount for SMUD customers (LLBL).
- Canoe rentals at Loon Lake (LLCG).
- Cell tower (LLBL).
- “No Dogs” campsites (LLBL).
- “Environmental” campsites – walk to (GCCG).
- Unclear on rules for dumping manure (LLE).
- 5 MPH near shoreline (WPBL).

Want to camp at day use area (ACP).
Cabin rentals (SSCG).

Drill down of "bathroom or shower related 1"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Shower	87	12.5	50.3	50.3
	Flush toilets	37	5.3	21.4	71.7
	Bathroom improvements	25	3.6	14.5	86.1
	More bathrooms	5	.7	2.9	89.0
	Floating bathrooms	1	.1	.6	89.6
	Cleaner restrooms	16	2.3	9.2	98.8
	Other	2	.3	1.2	100.0
	Total	173	24.8	100.0	
Missing	System	524	75.2		
Total		697	100.0		

Drill down of "bathroom or shower related 2"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Flush toilets	28	4.0	71.8	71.8
	Bathroom improvements	3	.4	7.7	79.5
	Cleaner restrooms	7	1.0	17.9	97.4
	Other	1	.1	2.6	100.0
	Total	39	5.6	100.0	
Missing	System	658	94.4		
Total		697	100.0		

Drill down of "bathroom or shower related 3"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom improvements	1	.1	50.0	50.0
	Cleaner restrooms	1	.1	50.0	100.0
	Total	2	.3	100.0	
Missing	System	695	99.7		
Total		697	100.0		

Cuff notes on Other Bathroom or Shower Related:

Change locks on restroom – got accidentally locked (GCCG).

Address flies in restroom (Wench Creek CG).

Empty toilet more (GCP).

Drill down of "potable water related"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Provide potable water	20	2.9	31.7	31.7
	Potable water for dishes and hand washing	25	3.6	39.7	71.4
	Potable water to fill up RVs	3	.4	4.8	76.2
	Improve taste of water	1	.1	1.6	77.8
	Improve water pressure/availability	5	.7	7.9	85.7
	Potable water at campsite	5	.7	7.9	93.7
	Do not add potable water	1	.1	1.6	95.2
	Other	3	.4	4.8	100.0
	Total	63	9.0	100.0	
Missing	System	634	91.0		
Total		697	100.0		

Cuff notes on Other Potable Water Related:

Too many water related restrictions (Wench Creek CG).

More running water (LLBL).

Hot water (LLBL).

Drill down of "other developed facility changes 1"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More picnic tables	11	1.6	23.4	23.4
	bigger parking lot	10	1.4	21.3	44.7
	Other	26	3.7	55.3	100.0
	Total	47	6.7	100.0	
Missing	System	650	93.3		
Total		697	100.0		

Drill down of "other developed facility changes 2"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	bigger parking lot	1	.1	16.7	16.7
	Other	5	.7	83.3	100.0
	Total	6	.9	100.0	
Missing	System	691	99.1		
Total		697	100.0		

Drill down of "other developed facility changes 3"

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid bigger parking lot	1	.1	100.0	100.0
Missing System	696	99.9		
Total	697	100.0		

Cuff notes on Other Developed Facility Changes:

- More BBQ pits (2 – IHP and IHP).
- Bigger BBQ pits (Wench Creek CG).
- Put BBQ grill on top of fire pits (2 – IHCG and GCCG).
- Fire pits are too close to trees and shrubs (PCG).
- Bring back old stone cook stove (Wench Creek Group).
- Bathroom needs to be dug out – it’s full (PCG).
- Campsites with more shade (LLBL).
- Deeper parking spurs (IHCG).
- Don’t limit the number of campers on larger sites (Wench Creek CG).
- Provide fine rocks to keep the dust down at campsite (Wolf Creek CG, #10).
- Rocks in sites (GCCG).
- Improve or make pads level (3 – LLCG, SSCG and SSCG).
- Sites are a little too close together (2 – SSCG and LLCG).
- Larger campsites (GCP).
- Replant trees (IHCG).
- Signs to day use area (GCP).
- Widen road for trailer (LLE).
- Better group sites – family reunion (LLBL).
- Make room for trailer (GCCG).
- Playground (2 – YJCG and SSCG).
- Horseshoe pit (IHBL).
- More signage at Campground entrance (GCCG).
- Sign – don’t bath in river (AFCG).
- Fish cleaning station.
- Add horse facilities (SSCG).
- Day use area (YJCG).

Drill down of "improve management services"

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Enforce quiet hours	9	1.3	36.0	36.0
Reduce litter	4	.6	16.0	52.0
More trash removal	10	1.4	40.0	92.0
Other	2	.3	8.0	100.0
Total	25	3.6	100.0	
Missing System	672	96.4		
Total	697	100.0		

Cuff notes on Other Improve Management Services:

Better security (LLBL).

Enforce rules prohibiting dish washing at faucet (GCCG).

Drill down of "RV related 1"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More access for larger RVS	12	1.7	57.1	57.1
	Hookups for RVs	5	.7	23.8	81.0
	Other	4	.6	19.0	100.0
	Total	21	3.0	100.0	
Missing	System	676	97.0		
Total		697	100.0		

Drill down of "RV related 2"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	1	.1	100.0	100.0
Missing	System	696	99.9		
Total		697	100.0		

Cuff notes on Other RV Related:

Unfair pricing structure for RV camping at LLBL (LLBL).

Anti-siphon valves (IHCG).

Need more dump stations (IHBL).

RV parking (AFCG).

Put tables on RV parking area by boat launch (IHBL).

Drill down of "boat launch related"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Launching improvements	19	2.7	73.1	73.1
	Other	7	1.0	26.9	100.0
	Total	26	3.7	100.0	
Missing	System	671	96.3		
Total		697	100.0		

Cuff notes on Other Boat Launch Related:

Landscaping too close to handicapped boat loading area (LLBL).

Remove stumps around boat launch (YJBL).

Enforce rules (IHBL).

Clear off drift wood (WPBL).

Drill down of "trails related"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Increase/improve trails	8	1.1	100.0	100.0
Missing	System	689	98.9		
Total		697	100.0		

20. (Hand the respondent a card with one of 3 versions of this list.) From the settings listed on this card, please rate how important these settings are in your decision to visit the Crystal Basin? (Circle response. Confirm setting before recording response.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
A. MOUNTAIN/FORESTED AREA	1	2	3	4
B. NATURAL LAKES & PONDS	1	2	3	4
C. RESERVOIRS	1	2	3	4
D. RIVERS/STREAMS	1	2	3	4

Mountain/Forested area

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	4	.6	.6	.6
	Somewhat important	12	1.7	1.7	2.3
	Moderately important	75	10.8	10.8	13.1
	Extremely important	605	86.8	86.8	99.9
	No response	1	.1	.1	100.0
Total		697	100.0	100.0	

Natural Lakes & Ponds

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	19	2.7	2.7	2.7
	Somewhat important	32	4.6	4.6	7.3
	Moderately important	114	16.4	16.4	23.7
	Extremely important	531	76.2	76.2	99.9
	No response	1	.1	.1	100.0
Total		697	100.0	100.0	

Reservoirs

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	13	1.9	1.9	1.9
Somewhat important	50	7.2	7.2	9.0
Moderately important	120	17.2	17.2	26.3
Extremely important	513	73.6	73.6	99.9
No response	1	.1	.1	100.0
Total	697	100.0	100.0	

Rivers/Streams

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	27	3.9	3.9	3.9
Somewhat important	64	9.2	9.2	13.1
Moderately important	141	20.2	20.2	33.3
Extremely important	464	66.6	66.6	99.9
No response	1	.1	.1	100.0
Total	697	100.0	100.0	

21. (Have the respondent turn to the backside of the card.) From the facilities and services listed on the card, please rate how important these facilities and services are in your decision to visit the Crystal Basin? (Circle response. Confirm facility or service before recording response.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
A. BOAT LAUNCH RAMPS	1	2	3	4
B. DEVELOPED CAMPGROUNDS	1	2	3	4
C. DEVELOPED SWIMMING/BEACH AREAS	1	2	3	4
D. NON-MOTORIZED TRAILS	1	2	3	4
E. OHV TRAILS	1	2	3	4
F. PICNIC FACILITIES	1	2	3	4
G. TWO-LANE PAVED ROAD ACCESS	1	2	3	4

Boat Launch Ramps

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	169	24.2	24.2	24.2
	Somewhat important	130	18.7	18.7	42.9
	Moderately important	123	17.6	17.6	60.5
	Extremely important	273	39.2	39.2	99.7
	No response	2	.3	.3	100.0
	Total	697	100.0	100.0	

Developed Campgrounds

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	50	7.2	7.2	7.2
	Somewhat important	69	9.9	9.9	17.1
	Moderately important	207	29.7	29.7	46.8
	Extremely important	369	52.9	52.9	99.7
	No response	2	.3	.3	100.0
	Total	697	100.0	100.0	

Developed Swimming/Beach Areas

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	146	20.9	20.9	20.9
	Somewhat important	153	22.0	22.0	42.9
	Moderately important	162	23.2	23.2	66.1
	Extremely important	233	33.4	33.4	99.6
	No response	3	.4	.4	100.0
	Total	697	100.0	100.0	

Non-motorized Trails

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	114	16.4	16.4	16.4
	Somewhat important	99	14.2	14.2	30.6
	Moderately important	218	31.3	31.3	61.8
	Extremely important	264	37.9	37.9	99.7
	No response	2	.3	.3	100.0
	Total	697	100.0	100.0	

OHV Trails

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	298	42.8	42.8	42.8
	Somewhat important	147	21.1	21.1	63.8
	Moderately important	78	11.2	11.2	75.0
	Extremely important	169	24.2	24.2	99.3
	No response	5	.7	.7	100.0
Total		697	100.0	100.0	

Picnic Facilities

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	89	12.8	12.8	12.8
	Somewhat important	144	20.7	20.7	33.4
	Moderately important	217	31.1	31.1	64.6
	Extremely important	244	35.0	35.0	99.6
	No response	3	.4	.4	100.0
Total		697	100.0	100.0	

Two-Laned Paved Road Access

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	58	8.3	8.3	8.3
	Somewhat important	93	13.3	13.3	21.7
	Moderately important	205	29.4	29.4	51.1
	Extremely important	339	48.6	48.6	99.7
	No response	2	.3	.3	100.0
Total		697	100.0	100.0	

22. How likely or unlikely would you be to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist? (Check one)

- ¹VERY UNLIKELY
 ²UNLIKELY
 ³LIKELY
 ⁴VERY LIKELY
 ⁵DON'T KNOW

How likely or unlikely to come to CB

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Very unlikely	192	27.5	27.5	27.5
Unlikely	195	28.0	28.0	55.5
Likely	183	26.3	26.3	81.8
Very likely	115	16.5	16.5	98.3
Don't know	10	1.4	1.4	99.7
No response	2	.3	.3	100.0
Total	697	100.0	100.0	

23. During this visit to the Crystal Basin, are there any activities that conflicted with your recreation activities?

- a. Recreation activities? ¹YES ²NO ³NO OPINION (Check one)

Recreation activities that conflicted with you

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	100	14.3	14.3	14.3
No	586	84.1	84.1	98.4
No Opinion	10	1.4	1.4	99.9
No response	1	.1	.1	100.0
Total	697	100.0	100.0	

If yes, what were they and how did they affect you? (Record response verbatim)

What activities? _____

How conflicted? _____

What recreation activities conflicted with you (MAX 2)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Motor boating related	17	2.4	17.0	17.0
	OHV - too loud, disruption of peace	19	2.7	19.0	36.0
	PWC - nosiy and disruptive	17	2.4	17.0	53.0
	Gunshots or fireworks - noisy, dangerous, made nervous	12	1.7	12.0	65.0
	Swimmers - disrupts fishing, boat hazard	1	.1	1.0	66.0
	Rowdy people - noisy, disruptive of peace	25	3.6	25.0	91.0
	Other	8	1.1	8.0	99.0
	No response	1	.1	1.0	100.0
	Total	100	14.3	100.0	
Missing	System	597	85.7		
Total		697	100.0		

Drill down of "motor boating"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	noisy	8	1.1	47.1	47.1
	wake	5	.7	29.4	76.5
	Other	4	.6	23.5	100.0
	Total	17	2.4	100.0	
Missing	System	680	97.6		
Total		697	100.0		

Cuff notes for Other motor boating related:

Boating – concerned they would get caught in fishing lines (LLBL).

Fishing off the boat ramp - safety, inconvenient (LLBL).

Water skiers – too close to boats (IHCG).

Power boaters conflict with fishing (SPCG).

What recreation activities conflicted with you 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	OHV - too loud, disruption of peace	1	.1	5.0	5.0
	PWC - nosiy and disruptive	6	.9	30.0	35.0
	Gunshots or fireworks - noisy, dangerous, made nervous	2	.3	10.0	45.0
	Swimmers - disrupts fishing, boat hazard	2	.3	10.0	55.0
	Rowdy people - noisy, disruptive of peace	8	1.1	40.0	95.0
	Other	1	.1	5.0	100.0
	Total	20	2.9	100.0	
Missing	System	677	97.1		
Total		697	100.0		

Cuff notes for Other:

RV generator – noisy (2).

Wildlife viewing – wildlife scared by helicopters.

Loud cars by campground - loud and smelly.

Illegal campfire.

Man with gun – discouraged motorcycle use on road off IHR near Wench CCG (Wench CCG).

b. Non-recreation activities? ²NO ¹YES ³NO OPINION (Check one)

Non-recreation activities that conflicted with you

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	21	3.0	3.0	3.0
	No	659	94.5	94.5	97.6
	No Opinion	11	1.6	1.6	99.1
	No response	6	.9	.9	100.0
	Total	697	100.0	100.0	

If yes, what were they and how did they affect you? (*Record response verbatim*)

What activities? _____

How conflicted? _____

List of non-recreation activities that conflicted with you

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	676	97.0	97.0	97.0
Bears - camped at Sunset to get away from them.	1	.1	.1	97.1
Bears - could not sleep; afraid	1	.1	.1	97.3
Bears - safety issue	1	.1	.1	97.4
Bears	1	.1	.1	97.6
Bees - put bee traps in trees at campsites	1	.1	.1	97.7
Campground host not needed/stated CG resv. but was	1	.1	.1	97.8
Construction Noise	1	.1	.1	98.0
Construction of a bridge over GC - trail closed.	1	.1	.1	98.1
Fire danger - didn't go dispersed camping.	1	.1	.1	98.3
Gravel pit - eyesore	1	.1	.1	98.4
Hunting - sound is disturbing.	1	.1	.1	98.6
Intruders during camping (w/rifle)	1	.1	.1	98.7
Logging	2	.3	.3	99.0
Logging trucks early in morning-noise.	1	.1	.1	99.1
Roads blocked - denied access	1	.1	.1	99.3
St. Pauli fire on Hwy 50 cut stay in 1/2	1	.1	.1	99.4
Trucks hauling gravel down Ice House Rd - going too fast - making driving dangerous.	1	.1	.1	99.6
Wentworth Springs Rd construction - too rough & dusty	1	.1	.1	99.7
Workmen working on road to Angel Creek - noise during day.	1	.1	.1	99.9
YJCG water system shut down at night - bathrooms closed.	1	.1	.1	100.0
Total	697	100.0	100.0	

24. During this visit to the Crystal Basin, are there any activities that you observed that you feel may cause harm to the environment?

a. Recreation activities? ¹ YES ² NO ³ NO OPINION (*Check one*)

Recreation activities causing harm to environment

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	159	22.8	22.8	22.8
No	516	74.0	74.0	96.8
No Opinion	20	2.9	2.9	99.7
No response	2	.3	.3	100.0
Total	697	100.0	100.0	

If yes, what were they and what was their affect? (*Record response verbatim*)

What activities? _____

How harmed? _____

What recreation activities (MAX 2)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid OHVs - degrades forest, erosion, air pollution	38	5.5	23.9	23.9
Personal water craft - water and air pollution	18	2.6	11.3	35.2
Power boats - water and air pollution	17	2.4	10.7	45.9
Fireworks - forest fire hazard	5	.7	3.1	49.1
Visitors leaving trash behind	41	5.9	25.8	74.8
Gun shooting - dangerous	8	1.1	5.0	79.9
Campfires outside of developed campgrounds	4	.6	2.5	82.4
Hunters-killing wildlife	3	.4	1.9	84.3
Campfires too big or left burning-forest fire hazard	8	1.1	5.0	89.3
Cutting or chopping trees	8	1.1	5.0	94.3
Other	9	1.3	5.7	100.0
Total	159	22.8	100.0	
Missing System	538	77.2		
Total	697	100.0		

What recreation activities 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Personal water craft - water and air pollution	2	.3	8.0	8.0
	Power boats - water and air pollution	7	1.0	28.0	36.0
	Visitors leaving trash behind	7	1.0	28.0	64.0
	Gun shooting - dangerous	3	.4	12.0	76.0
	Campfires outside of developed campgrounds	1	.1	4.0	80.0
	Hunters-killing wildlife	1	.1	4.0	84.0
	Cutting or chopping trees	1	.1	4.0	88.0
	Other	3	.4	12.0	100.0
	Total	25	3.6	100.0	
Missing	System	672	96.4		
Total		697	100.0		

Cuff notes for Other:

- Smelly cars - bad for air (IHBL).
- Burning plastic while camping (GCCG).
- People throwing trash into fires (IHCG).
- Motorized vehicle – litter (IHCG).
- Person defecated on Gerle Fishing Pier (AFCG).
- People who go off trails – walk on seedlings & new growth (Wench Group).
- Planted fish all died (LLBL).
- Campers with dogs (Wench Creek CG).
- Dogs off leashes (GCP).
- Vehicles on shore (IHBL).
- Smoking (IHBL).
- Dispersed camping along UVR shoreline – adequate waste management? (SSBL).

b. Non-recreation activities? NO YES NO OPINION (Check one)

Non-recreation activities causing harm to environment

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	24	3.4	3.4	3.4
No	643	92.3	92.3	95.7
No Opinion	21	3.0	3.0	98.7
No response	9	1.3	1.3	100.0
Total	697	100.0	100.0	

If yes, what were they and what was their affect? (*Record response verbatim*)

What activities? _____

How harmed? _____

List of non-recreation activities causing harm to environment

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	673	96.6	96.6	96.6
Bears - destroy property	1	.1	.1	96.7
Building of a bridge over GC feels like a highway.	1	.1	.1	96.8
Chain saw cutting trees - smoke	1	.1	.1	97.0
Clear cutting-ruins natural appearance	1	.1	.1	97.1
Clear cutting - erosion	1	.1	.1	97.3
Deforestation - logging of trees	1	.1	.1	97.4
Dogs defecate on trail - some trash in areas	1	.1	.1	97.6
Dogs off leaches - disrupt people.	1	.1	.1	97.7
Food carelessness - bears	1	.1	.1	97.8
Logging-clear cutting causing erosion	1	.1	.1	98.0
Logging - dusty, fire hazard-the piles	1	.1	.1	98.1
Logging - noticeable	1	.1	.1	98.3
Logging	1	.1	.1	98.4
Logging of trees ruined the natural appearance of the environment	1	.1	.1	98.6
Off-trail hikers dragging coolers	1	.1	.1	98.7
Overheard someone talking about killing snakes	1	.1	.1	98.9
Quarry-disrupts regular environment	1	.1	.1	99.0
Roads - Holes	1	.1	.1	99.1
Sign screwed into tree-trapped fish in Rubicon River	1	.1	.1	99.3
Smoking - fire hazard	1	.1	.1	99.4
Too many improvements/takes away the naturalizatio	1	.1	.1	99.6
Trash/Logging - Pollution/Slashing	1	.1	.1	99.7
Tree beetles, the fire (of course) killing trees in campground-then the trees are not replaced.	1	.1	.1	99.9
Yellowing fo the pine trees unsightly - could it be because of pollution?	1	.1	.1	100.0
Total	697	100.0	100.0	

25. Please indicate which of the following statements best describes how crowded you feel at this facility? (Check one)

- ¹Not at all crowded
 ²Slightly crowded
 ³moderately crowded
 ⁴extremely crowded
 ⁵don't know

Described how crowded you feel (facility)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all crowded	328	47.1	47.1	47.1
Slightly crowded	184	26.4	26.4	73.5
Moderately crowded	136	19.5	19.5	93.0
Extremely crowded	47	6.7	6.7	99.7
Don't know	2	.3	.3	100.0
Total	697	100.0	100.0	

26. Did you bring a boat, jet ski, or other type of water craft with you on this visit? (Check one)

- ¹YES (continue to question 26A&B)
 ²NO (go to question 27)

Did you bring watercraft?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	358	51.4	51.4	51.4
no	332	47.6	47.6	99.0
No response	7	1.0	1.0	100.0
Total	697	100.0	100.0	

A. Please indicate which reservoir you have spent most of your time at with your boat, jet ski, or other type of water craft.

- ¹GERLE CREEK
 ²ICE HOUSE
 ³LOON LAKE
 ⁴UNION VALLEY
 ⁵OTHER: _____ (Specify)

Which reservoir on the most?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Gerle Creek	45	6.5	12.6	12.6
	Ice House	85	12.2	23.7	36.3
	Loon Lake	102	14.6	28.5	64.8
	Union Valley	119	17.1	33.2	98.0
	Other	2	.3	.6	98.6
	No response	4	.6	1.1	99.7
	Unreadable response	1	.1	.3	100.0
	Total	358	51.4	100.0	
Missing	System	339	48.6		
Total		697	100.0		

Other reservoir

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		695	99.7	99.7	99.7
	Don't know	1	.1	.1	99.9
	None-come up for picnic to check things out.	1	.1	.1	100.0
	Total	697	100.0	100.0	

B. Please indicate which of the following statements best describes how crowded you feel when you are on the surface of this reservoir in your boat or jet ski or other type of water craft. (*Check one*)

- ¹ NOT AT ALL CROWDED
 ² SLIGHTLY CROWDED
 ³ MODERATELY CROWDED
 ⁴ EXTREMELY CROWDED
 ⁵ DON'T KNOW

Describe how crowded (reservoir)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all crowded	256	36.7	71.5	71.5
	Slightly crowded	64	9.2	17.9	89.4
	Moderately crowded	18	2.6	5.0	94.4
	Extremely crowded	2	.3	.6	95.0
	Don't know	15	2.2	4.2	99.2
	No response	3	.4	.8	100.0
	Total	358	51.4	100.0	
Missing	System	339	48.6		
Total		697	100.0		

27. Please tell me about access to information by responding “adequate,” “inadequate” or “never looked for information”? (*Read list and record response*) If “inadequate”, please describe any suggestions for improvement?

If “inadequate,” ask for and record suggested improvements.

A. Campsite availability	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
B. Campfire restrictions	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
C. Reservoir levels	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
D. Wilderness permits	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
E. Trail locations	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
F. Stream flow rates &/or depths	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
G. Environmental or educational displays	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
H. Information regarding fish stocking	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____
I. Other (<i>Please specify</i>):	<input type="checkbox"/> ¹ Adequate	<input type="checkbox"/> ² Inadequate	<input type="checkbox"/> ³ Never looked for information	_____

Info on campsite availability

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	436	62.6	62.6	62.6
inadequate	68	9.8	9.8	72.3
never looked for it	185	26.5	26.5	98.9
No response	8	1.1	1.1	100.0
Total	697	100.0	100.0	

Suggestions (campsite availability)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Improve Internet/web	23	3.3	33.8	33.8
Post at facilities	2	.3	2.9	36.8
Improve signs to clearly show what is available	1	.1	1.5	38.2
Provide more campgrounds	3	.4	4.4	42.6
Provide more first-come, first-serve	4	.6	5.9	48.5
Provide more information	11	1.6	16.2	64.7
Other	9	1.3	13.2	77.9
No response	15	2.2	22.1	100.0
Total	68	9.8	100.0	
Missing System	629	90.2		
Total	697	100.0		

Cuff notes for Other:

Too crowded.

LLE sites give to non-equestrian yet listed as available (LLECG).

Overbooked (IHBL).

Local ranger to call (YJBL).

Info on campfire restrictions

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	476	68.3	68.3	68.3
inadequate	40	5.7	5.7	74.0
never looked for it	173	24.8	24.8	98.9
No response	8	1.1	1.1	100.0
Total	697	100.0	100.0	

Suggestions (campfire restrictions)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	3	.4	7.5	7.5
	Post at facilities	13	1.9	32.5	40.0
	Post on map or brochure	1	.1	2.5	42.5
	Post in newspaper	2	.3	5.0	47.5
	Be more specific about where fires are/are not permitted	2	.3	5.0	52.5
	Other	3	.4	7.5	60.0
	No response	16	2.3	40.0	100.0
	Total	40	5.7	100.0	
Missing	System	657	94.3		
Total		697	100.0		

Info on reservoir levels

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	325	46.6	46.6	46.6
	inadequate	60	8.6	8.6	55.2
	never looked for it	304	43.6	43.6	98.9
	No response	8	1.1	1.1	100.0
	Total	697	100.0	100.0	

Suggestions (reservoir levels)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	19	2.7	31.7	31.7
	Post at facilities	8	1.1	13.3	45.0
	Post in newspaper	2	.3	3.3	48.3
	Other	3	.4	5.0	53.3
	No response	28	4.0	46.7	100.0
	Total	60	8.6	100.0	
Missing	System	637	91.4		
Total		697	100.0		

Info on wilderness permits

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	217	31.1	31.1	31.1
	inadequate	29	4.2	4.2	35.3
	never looked for it	443	63.6	63.6	98.9
	No response	8	1.1	1.1	100.0
	Total	697	100.0	100.0	

Suggestions (wilderness permits)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Post at facilities	6	.9	20.7	20.7
	Other	2	.3	6.9	27.6
	No response	21	3.0	72.4	100.0
	Total	29	4.2	100.0	
Missing	System	668	95.8		
Total		697	100.0		

Cuff notes for Other:

Should be able to hike in without permit.

Make permits available nearer.

Info on trail locations

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	315	45.2	45.2	45.2
	inadequate	75	10.8	10.8	56.0
	never looked for it	299	42.9	42.9	98.9
	No response	8	1.1	1.1	100.0
Total		697	100.0	100.0	

Suggestions (trail locations)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	5	.7	6.7	6.7
	Post at facilities	7	1.0	9.3	16.0
	Post on map or brochure	5	.7	6.7	22.7
	Improve description of trails	4	.6	5.3	28.0
	Provide more trail signs	9	1.3	12.0	40.0
	Other	2	.3	2.7	42.7
	No response	43	6.2	57.3	100.0
	Total	75	10.8	100.0	
Missing	System	622	89.2		
Total		697	100.0		

Info on stream flow rate &/or depths

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	164	23.5	23.5	23.5
	inadequate	57	8.2	8.2	31.7
	never looked for it	461	66.1	66.1	97.8
	No response	15	2.2	2.2	100.0
	Total	697	100.0	100.0	

Suggestions (stream flow rate)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	7	1.0	12.3	12.3
	Post at facilities	5	.7	8.8	21.1
	Post in newspaper	1	.1	1.8	22.8
	Other	4	.6	7.0	29.8
	No response	40	5.7	70.2	100.0
	Total	57	8.2	100.0	
Missing	System	640	91.8		
	Total	697	100.0		

Cuff notes for Other:

 Increase the flows.

 Phone number.

Info on environmental or educational displays

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	256	36.7	36.7	36.7
	inadequate	59	8.5	8.5	45.2
	never looked for it	373	53.5	53.5	98.7
	No response	9	1.3	1.3	100.0
	Total	697	100.0	100.0	

Suggestions (displays)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	3	.4	5.1	5.1
	Post at facilities	2	.3	3.4	8.5
	Post on map or brochure	1	.1	1.7	10.2
	Provide more displays	15	2.2	25.4	35.6
	Other	2	.3	3.4	39.0
	No response	36	5.2	61.0	100.0
	Total	59	8.5	100.0	
Missing	System	638	91.5		
Total		697	100.0		

Cuff notes for Other:

- Special fishing regulations.
- Going overboard with info, too many signs and postings.
- Evening campfire program with rangers.

Info on fish stocking

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	174	25.0	25.0	25.0
	inadequate	77	11.0	11.0	36.0
	never looked for it	437	62.7	62.7	98.7
	No response	9	1.3	1.3	100.0
	Total	697	100.0	100.0	

Suggestions (fish stocking)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	6	.9	7.8	7.8
	Post at facilities	21	3.0	27.3	35.1
	Post in newspaper	3	.4	3.9	39.0
	Other	10	1.4	13.0	51.9
	No response	37	5.3	48.1	100.0
	Total	77	11.0	100.0	
Missing	System	620	89.0		
Total		697	100.0		

Cuff notes for Other:

- More information made available (4).
- Need 800 number (2).

Info on other

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid inadequate	13	1.9	100.0	100.0
Missing System	684	98.1		
Total	697	100.0		

List of other suggestions (access to info)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	684	98.1	98.1	98.1
About presence of bears in the campsite & lack of bear lockers.	1	.1	.1	98.3
Bear & rattlesnake warnings.	1	.1	.1	98.4
Bring back "Penny Pines" information not available-great source of revenue.	1	.1	.1	98.6
Campfire activities.	1	.1	.1	98.7
Directions to campgrounds on internet site needed. Sign to YellowJacket confusing.	1	.1	.1	98.9
Fliers for other activities.	1	.1	.1	99.0
Note that there are no launch fees.	1	.1	.1	99.1
Post information on what to do in case of an emergency.	1	.1	.1	99.3
Provide better directions to get to GCCG via internet and road signs.	1	.1	.1	99.4
Signs to Loon Lake good on paved road - 1 Hr.	1	.1	.1	99.6
Snowmobile trails.	1	.1	.1	99.7
Were told no pets, no OHV on reservation line.	1	.1	.1	99.9
Wildlife warnings.	1	.1	.1	100.0
Total	697	100.0	100.0	

28. (Open the Crystal Basin Recreation Area map, hand it to respondent, show them where they are, and ask:

What other areas have you visited or plan to visit during your stay at the Crystal Basin, and what is the primary activity you did or will do there? (Circle 'V' for 'have visited' and 'P' for 'plan to visit'. If area is not listed, record up to three responses at the end of the General Area column. Record the primary activity using the numbers from the code list. Tell respondent they can keep the map as a thank you.)

Check here if respondent plans to stay only at current locations on this visit. ^{AA}

Visited	Planned	General Area	Specific Location	Primary Activity	Primary Activity Code List
V	P	A. Ice House Reservoir			(1) Backpacking (2) Bicycling (3) Canoeing/Kayaking (4) Fishing (Lake or Reservoir) (5) Fishing (Stream or River) (6) Hiking/Walking (7) Hunting (8) OHV Use (9) Picnicking (10) Photography (11) Power Boating (12) PWC Use (Jet Ski) (13) Sail Boating (14) Swimming (15) Visiting Cultural/Historic Sites (16) Wildlife Viewing (17) Other _____ (Specify)
V	P	B. Union Valley Reservoir			
V	P	C. Gerle Creek Reservoir			
V	P	D. Loon Lake Reservoir			
V	P	E. Wrights Lake			
V	P	F. Rubicon Jeep Trail / Wentworth Springs Road			
V	P	G. Gerle Creek below Loon Lake Dam			
V	P				
V	P				
V	P				

Other areas visited during stay (MAX 5)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Stay at current location	407	58.4	58.4	58.4
Ice House Reservoir	80	11.5	11.5	69.9
Union Valley Reservoir	53	7.6	7.6	77.5
Gerle Creek Reservoir	45	6.5	6.5	83.9
Loon Lake Reservoir	50	7.2	7.2	91.1
Wright's Lake	11	1.6	1.6	92.7
Rubicon Jeep Trail/Wentworth Springs Rd.	16	2.3	2.3	95.0
Gerle Creek below Loon Lake Dam	4	.6	.6	95.6
Other non-Project streams	5	.7	.7	96.3
Spider Lake	3	.4	.4	96.7
Rubicon Reservoir	1	.1	.1	96.8
Rubicon hiking trail to Spider Lake	1	.1	.1	97.0
Rubicon hiking trail to Buck Island Reservoir	1	.1	.1	97.1
Big Hill Lookout	1	.1	.1	97.3
Bunker Hill Lookout	1	.1	.1	97.4
Robbs Resort	6	.9	.9	98.3
Ice House Resort	1	.1	.1	98.4
End of 13N77 (near Dear Creek)	1	.1	.1	98.6
Rubicon Hiking Trail	3	.4	.4	99.0
Bassi Falls	2	.3	.3	99.3
Crystal Basin Information Station	1	.1	.1	99.4
Robbs Hut	1	.1	.1	99.6
Other	3	.4	.4	100.0
Total	697	100.0	100.0	

Primary Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	6	.9	2.1	2.1
	Bicycling	6	.9	2.1	4.1
	Canoeing/Kayaking	13	1.9	4.5	8.6
	Fishing (Lake or Reservoir)	73	10.5	25.0	33.6
	Fishing (Stream or River)	5	.7	1.7	35.3
	Hiking/Walking	41	5.9	14.0	49.3
	Hunting	2	.3	.7	50.0
	OHV Use	23	3.3	7.9	57.9
	Picnicking	19	2.7	6.5	64.4
	Photography	3	.4	1.0	65.4
	Power Boating	17	2.4	5.8	71.2
	Sail Boating	1	.1	.3	71.6
	Swimming	29	4.2	9.9	81.5
	Wildlife Viewing	3	.4	1.0	82.5
	Other	45	6.5	15.4	97.9
	No response	6	.9	2.1	100.0
	Total	292	41.9	100.0	
Missing	System	405	58.1		
Total		697	100.0		

Primary Activity (other)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		652	93.5	93.5	93.5
	1st choice to camp.	1	.1	.1	93.7
	Camping.	2	.3	.3	94.0
	Checking Out Sites.	1	.1	.1	94.1
	Firewood.	1	.1	.1	94.3
	Get information.	1	.1	.1	94.4
	Getting Water.	1	.1	.1	94.5
	Horseback Riding.	1	.1	.1	94.7
	Karoke	1	.1	.1	94.8
	Looking for campsite.	3	.4	.4	95.3
	Looking for fire.	1	.1	.1	95.4
	Observation.	11	1.6	1.6	97.0
	Shower	1	.1	.1	97.1
	Shower & Beer.	1	.1	.1	97.3
	Sightseeing.	15	2.2	2.2	99.4
	Supplies.	4	.6	.6	100.0
	Total	697	100.0	100.0	

Other areas visited during stay 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	25	3.6	16.6	16.6
	Gerle Creek Reservoir	23	3.3	15.2	31.8
	Loon Lake Reservoir	41	5.9	27.2	58.9
	Wright's Lake	15	2.2	9.9	68.9
	Rubicon Jeep Trail/Wentworth Springs Rd.	14	2.0	9.3	78.1
	Gerle Creek below Loon Lake Dam	4	.6	2.6	80.8
	Other non-Project streams	5	.7	3.3	84.1
	Spider Lake	4	.6	2.6	86.8
	Big Hill Lookout	2	.3	1.3	88.1
	McKinstry Lake	1	.1	.7	88.7
	Rubicon River	1	.1	.7	89.4
	Robbs Resort	6	.9	4.0	93.4
	Ice House Resort	1	.1	.7	94.0
	Bassi Falls	2	.3	1.3	95.4
	Crystal Basin Information Station	1	.1	.7	96.0
	Robbs Hut	1	.1	.7	96.7
	Other	5	.7	3.3	100.0
	Total	151	21.7	100.0	
Missing	System	546	78.3		
Total		697	100.0		

Primary Activity 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	2	.3	1.3	1.3
	Bicycling	5	.7	3.3	4.6
	Canoeing/Kayaking	7	1.0	4.6	9.3
	Fishing (Lake or Reservoir)	32	4.6	21.2	30.5
	Fishing (Stream or River)	5	.7	3.3	33.8
	Hiking/Walking	18	2.6	11.9	45.7
	OHV Use	13	1.9	8.6	54.3
	Picnicking	5	.7	3.3	57.6
	Photography	1	.1	.7	58.3
	Power Boating	8	1.1	5.3	63.6
	Swimming	13	1.9	8.6	72.2
	Visiting Cultural/Historic Sites	3	.4	2.0	74.2
	Wildlife Viewing	3	.4	2.0	76.2
	Other	31	4.4	20.5	96.7
	No response	4	.6	2.6	99.3
	Unreadable response	1	.1	.7	100.0
	Total	151	21.7	100.0	
Missing	System	546	78.3		
Total		697	100.0		

Primary Activity (other) 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		666	95.6	95.6	95.6
	Camping.	1	.1	.1	95.7
	Checking out sites.	1	.1	.1	95.8
	Get information.	1	.1	.1	96.0
	Gold Panning.	1	.1	.1	96.1
	Information.	1	.1	.1	96.3
	No Response.	1	.1	.1	96.4
	Observation.	5	.7	.7	97.1
	Scout it out.	1	.1	.1	97.3
	Showers.	1	.1	.1	97.4
	Sightseeing	1	.1	.1	97.6
	Sightseeing.	12	1.7	1.7	99.3
	Supplies.	3	.4	.4	99.7
	To get ice.	1	.1	.1	99.9
	Wood Hunting.	1	.1	.1	100.0
	Total	697	100.0	100.0	

Other areas visited during stay 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	2	.3	3.7	3.7
	Gerle Creek Reservoir	3	.4	5.6	9.3
	Loon Lake Reservoir	6	.9	11.1	20.4
	Wright's Lake	7	1.0	13.0	33.3
	Rubicon Jeep Trail/Wentworth Springs Rd.	9	1.3	16.7	50.0
	Gerle Creek below Loon Lake Dam	4	.6	7.4	57.4
	Other non-Project streams	6	.9	11.1	68.5
	Spider Lake	1	.1	1.9	70.4
	Shadow Lake	1	.1	1.9	72.2
	Big Hill Lookout	1	.1	1.9	74.1
	Wentworth Springs	1	.1	1.9	75.9
	Robbs Resort	2	.3	3.7	79.6
	Ice House Resort	2	.3	3.7	83.3
	Robbs Hut	3	.4	5.6	88.9
	Other	6	.9	11.1	100.0
	Total	54	7.7	100.0	
Missing	System	643	92.3		
Total		697	100.0		

Primary Activity 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	3	.4	5.6	5.6
	Bicycling	1	.1	1.9	7.4
	Canoeing/Kayaking	3	.4	5.6	13.0
	Fishing (Lake or Reservoir)	5	.7	9.3	22.2
	Fishing (Stream or River)	5	.7	9.3	31.5
	Hiking/Walking	6	.9	11.1	42.6
	OHV Use	11	1.6	20.4	63.0
	Picnicking	1	.1	1.9	64.8
	Swimming	2	.3	3.7	68.5
	Visiting Cultural/Historic Sites	1	.1	1.9	70.4
	Other	14	2.0	25.9	96.3
	No response	2	.3	3.7	100.0
	Total	54	7.7	100.0	
Missing	System	643	92.3		
Total		697	100.0		

Primary Activity (other) 3

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	683	98.0	98.0	98.0
Camping.	1	.1	.1	98.1
Checking out sites.	1	.1	.1	98.3
Observation.	3	.4	.4	98.7
Shower.	1	.1	.1	98.9
Sightseeing.	4	.6	.6	99.4
Supplies.	3	.4	.4	99.9
Wood Hunting.	1	.1	.1	100.0
Total	697	100.0	100.0	

Other areas visited during stay 4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Union Valley Reservoir	1	.1	5.9	5.9
Loon Lake Reservoir	1	.1	5.9	11.8
Wright's Lake	1	.1	5.9	17.6
Gerle Creek below Loon Lake Dam	3	.4	17.6	35.3
Spider Lake	1	.1	5.9	41.2
Rubicon Reservoir	2	.3	11.8	52.9
Bunker Hill Lookout	3	.4	17.6	70.6
McKinstry Lake	1	.1	5.9	76.5
Robbs Resort	2	.3	11.8	88.2
Other	2	.3	11.8	100.0
Total	17	2.4	100.0	
Missing				
System	680	97.6		
Total	697	100.0		

Primary Activity 4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Hiking/Walking	2	.3	11.8	11.8
OHV Use	6	.9	35.3	47.1
Swimming	1	.1	5.9	52.9
Other	7	1.0	41.2	94.1
No response	1	.1	5.9	100.0
Total	17	2.4	100.0	
Missing				
System	680	97.6		
Total	697	100.0		

Primary Activity (other) 4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	690	99.0	99.0	99.0
Camping.	1	.1	.1	99.1
Checking out sites.	1	.1	.1	99.3
Showers & Drinking.	1	.1	.1	99.4
Sightseeing.	3	.4	.4	99.9
Wood Hunting.	1	.1	.1	100.0
Total	697	100.0	100.0	

Other areas visited during stay 5

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Wright's Lake	1	.1	25.0	25.0
Spider Lake	1	.1	25.0	50.0
Robbs Resort	2	.3	50.0	100.0
Total	4	.6	100.0	
Missing				
System	693	99.4		
Total	697	100.0		

Primary Activity 5

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Hiking/Walking	1	.1	25.0	25.0
OHV Use	1	.1	25.0	50.0
Other	1	.1	25.0	75.0
No response	1	.1	25.0	100.0
Total	4	.6	100.0	
Missing				
System	693	99.4		
Total	697	100.0		

Primary Activity (other) 5

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	696	99.9	99.9	99.9
Showers	1	.1	.1	100.0
Total	697	100.0	100.0	

Cuff notes for Other non-Project streams:

 South Fork Rubicon – (3); hiking/walking (AFCG and LLGC), and canoeing/kayaking.

 Jones Fork Silver Creek – (3); sightseeing (SSBL), other (IHCG), and hiking/walking.

 Angel Creek – (2); swimming (GCCG and AFCG).

 Tells Creek – (2); sightseeing (SSCG).

 Big Silver – (2); fishing stream or river (GCCG) and hiking/walking.

Wolf Creek – hiking (IHCG).
 South Fork Silver Creek above Ice House Res. – hiking (IHCG).
 Littler Silver Creek – backpacking.
 Wench Creek – fishing stream or river (NWCG).

Cuff notes for Other:

Silver Creek – (4); fishing stream/river (IHCG and LLCG), hiking/walking (LLBL), other (IHP).
 South Fork CG – (3); observation (IHBL and YJBL), swimming (GCCG).
 Brown Mt. – backpacking (LL Group).
 Winfred Lake – backpacking (LLCG).
 South Fork – gold panning (AFCG).
 Van Vleck Trail Area – OHV use (WPBL).
 Tells Creek Equestrian Area – observation (GCCG).
 Junction Reservoir – fishing lake or reservoir (WPBL).
 Past airport – looking for wood (GCCG).

If the respondent has identified an activity as fishing in question 8 or 28, then ask:

a. Did the quality of the fishing attract you to (*record general area and circle response*):

GENERAL AREA (<i>RECORD</i>)	YES	NO
A.	1	2
B.	1	2

Quality of fishing attract (general area A)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	183	26.3	45.9	45.9
no	216	31.0	54.1	100.0
Total	399	57.2	100.0	
Missing System	298	42.8		
Total	697	100.0		

Coded general area A

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	105	15.1	26.3	26.3
	Union Valley Reservoir	114	16.4	28.6	54.9
	Gerle Creek Reservoir	56	8.0	14.0	68.9
	Loon Lake Reservoir	114	16.4	28.6	97.5
	Gerle Creek below Loon Lake Dam	6	.9	1.5	99.0
	Unreadable response	4	.6	1.0	100.0
	Total	399	57.2	100.0	
	Missing System	298	42.8		
Total	697	100.0			

Quality of fishing attract (general area B)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	31	4.4	57.4	57.4
	no	22	3.2	40.7	98.1
	No response	1	.1	1.9	100.0
	Total	54	7.7	100.0	
Missing System	643	92.3			
Total	697	100.0			

Coded general area B

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	4	.6	7.4	7.4
	Union Valley Reservoir	7	1.0	13.0	20.4
	Gerle Creek Reservoir	11	1.6	20.4	40.7
	Loon Lake Reservoir	18	2.6	33.3	74.1
	Gerle Creek below Loon Lake Dam	3	.4	5.6	79.6
	South Fork Rubicon River below Robbs Forebay	1	.1	1.9	81.5
	Other Project Reservoir or stream	2	.3	3.7	85.2
	Other non-Project Reservoirs or streams	7	1.0	13.0	98.1
	Unreadable response	1	.1	1.9	100.0
	Total	54	7.7	100.0	
	Missing System	643	92.3		
	Total	697	100.0		

Cuff notes for Other Project reservoir, lake or stream:
Silver Creek

Cuff notes for Other non-Project reservoir, lake or stream:
Wrights Lake (3)
Shadow Lake
Wentworth Springs
Spider Lake
Rubicon River

If the respondent has identified an activity as fishing in question 8 or has identified fishing as a primary activity in question 28 and “visited” the general area, then ask:

b. Please rate the quality of your fishing experience at (*record general area and circle response*):

GENERAL AREA (<i>RECORD</i>)	POOR	FAIR	GOOD	EXCELLENT	N/A
A.	1	2	3	4	5
B.	1	2	3	4	5

Quality of fishing (general area A)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	83	11.9	21.7	21.7
	Fair	98	14.1	25.6	47.3
	Good	80	11.5	20.9	68.1
	Excellent	47	6.7	12.3	80.4
	n/a	74	10.6	19.3	99.7
	No response	1	.1	.3	100.0
	Total	383	54.9	100.0	
Missing	System	314	45.1		
	Total	697	100.0		

Coded general area A

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	105	15.1	27.4	27.4
	Union Valley Reservoir	106	15.2	27.7	55.1
	Gerle Creek Reservoir	51	7.3	13.3	68.4
	Loon Lake Reservoir	111	15.9	29.0	97.4
	Gerle Creek below Loon Lake Dam	5	.7	1.3	98.7
	Unreadable response	5	.7	1.3	100.0
	Total	383	54.9	100.0	
	Missing System	314	45.1		
Total	697	100.0			

Quality of fishing (general area B)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	5	.7	11.9	11.9
	Fair	17	2.4	40.5	52.4
	Good	4	.6	9.5	61.9
	Excellent	5	.7	11.9	73.8
	n/a	11	1.6	26.2	100.0
	Total	42	6.0	100.0	
Missing System	655	94.0			
Total	697	100.0			

Coded general area B

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	3	.4	7.1	7.1
	Union Valley Reservoir	5	.7	11.9	19.0
	Gerle Creek Reservoir	7	1.0	16.7	35.7
	Loon Lake Reservoir	18	2.6	42.9	78.6
	South Fork Rubicon River below Robbs Forebay	1	.1	2.4	81.0
	Other Project Reservoir or stream	2	.3	4.8	85.7
	Other non-Project Reservoirs or streams	6	.9	14.3	100.0
	Total	42	6.0	100.0	
Missing System	655	94.0			
Total	697	100.0			

Cuff notes for Other Project reservoir or stream:
Silver Creek

Cuff notes for Other non-Project reservoir, lake or stream:

- Wrights Lake (2)
- Shadow Lake
- Wentworth Springs
- Spider Lake
- Rubicon River

29. Besides the Crystal Basin, where else do you go for similar recreational experiences? (*List no more than 2.*)

A. _____

B. _____

List of places for similar recreational experiences

	Frequency	Percent	Cumulative Percent
Valid	55	7.890961	7.890961263
Alaska Wilderness	1	0.143472	8.034433286
Amador City	1	0.143472	8.177905308
Amador Country	1	0.143472	8.321377331
American River	7	1.004304	9.325681492
American River Parkway	1	0.143472	9.469153515
Anderson Lake	1	0.143472	9.612625538
Armstrong Woods	1	0.143472	9.756097561
Arroyo Seca	1	0.143472	9.899569584
Avenue of Giants	1	0.143472	10.04304161
Bass Lake	2	0.286944	10.32998565
Bay Area	2	0.286944	10.6169297
Beach	2	0.286944	10.90387374
Bear Lake	1	0.143472	11.04734577
Bear River	1	0.143472	11.19081779
Bear River Lake Resort	1	0.143472	11.33428981
Bear River Reservoir	1	0.143472	11.47776184
Bear Valley	3	0.430416	11.90817791
Big Bear	1	0.143472	12.05164993
Big Pine	1	0.143472	12.19512195
Big Sur	1	0.143472	12.33859397
Big Tree (State Park)	1	0.143472	12.482066
Blue Lakes Area	2	0.286944	12.76901004
Bodega Bay	11	1.578192	14.3472023
Bowman Lake	1	0.143472	14.49067432
Buck Island	1	0.143472	14.63414634
Bucks Lake	2	0.286944	14.92109039
Bucks Lake (Quincy, Plumas County)	1	0.143472	15.06456241
Burney Falls	1	0.143472	15.20803443
Butte County	1	0.143472	15.35150646
Camanche Reservoir	4	0.573888	15.92539455

Camping in the San Diego Area	1	0.143472	16.06886657
Camping trips w/sons in Boy Scouts	1	0.143472	16.21233859
Caples Lake	7	1.004304	17.21664275
Chico	1	0.143472	17.36011478
Chili Bar	1	0.143472	17.5035868
Cisco Grove	1	0.143472	17.64705882
Clear Creek	1	0.143472	17.79053085
Clear Lake	5	0.71736	18.50789096
Coast	8	1.147776	19.65566714
Collins Lake	2	0.286944	19.94261119
Coloma	1	0.143472	20.08608321
Coloma Hills	1	0.143472	20.22955524
Colorado Basin	1	0.143472	20.37302726
Consumnes River	1	0.143472	20.51649928
Cooks Beach	1	0.143472	20.65997131
Davis Lake	5	0.71736	21.37733142
Deep Sea Fishing (Pacific)	1	0.143472	21.52080344
Delta Region	11	1.578192	23.0989957
Desolation Wilderness	7	1.004304	24.10329986
Dillion Beach	4	0.573888	24.67718795
DL Bliss State Park	1	0.143472	24.82065997
Don't Know	1	0.143472	24.96413199
Don Pedro Reservoir	4	0.573888	25.53802009
Donner Lake	2	0.286944	25.82496413
Eagle Lake	5	0.71736	26.54232425
Eastern Sierra Mountains	1	0.143472	26.68579627
Echo Lake	2	0.286944	26.97274032
Emerald Bay - Tahoe	1	0.143472	27.11621234
Fallen Leaf Lake	2	0.286944	27.40315638
Feather River	3	0.430416	27.83357245
Flat Lands	1	0.143472	27.97704448
Folsom Lake	37	5.308465	33.28550933
Foothills	2	0.286944	33.57245337
Forebay Lake	1	0.143472	33.71592539
Forest Hill	5	0.71736	34.43328551
Fort Bragg	6	0.860832	35.29411765
French Meadows	4	0.573888	35.86800574
Givalala	1	0.143472	36.01147776
Glacier National Park	1	0.143472	36.15494978
Gold Lake	2	0.286944	36.44189383
Granit Bay	1	0.143472	36.58536585
Grover Hot Springs	1	0.143472	36.72883788
Half Moon Bay	3	0.430416	37.15925395
Hell's Kitchen	1	0.143472	37.30272597
Hell Hole Reservoir	3	0.430416	37.73314204
Hepner, Oregon	1	0.143472	37.87661406
Here Only	9	1.291248	39.16786227
Highway 88	4	0.573888	39.74175036

Hogan Lake	3	0.430416	40.17216643
Hollister Hills	2	0.286944	40.45911047
Hollister RV Park	1	0.143472	40.6025825
Horse Trails in Sierra Nevada's	1	0.143472	40.74605452
Hwy 80	1	0.143472	40.88952654
Idaho	1	0.143472	41.03299857
Indian Creek	1	0.143472	41.17647059
Jackson Area	1	0.143472	41.31994261
Jackson Meadows	3	0.430416	41.75035868
Jackson Meadows Reservoir	1	0.143472	41.8938307
John Muir Wilderness Trail	1	0.143472	42.03730273
Junction Reservoir	3	0.430416	42.46771879
Kennedy Meadows	1	0.143472	42.61119082
Kings Canyon	1	0.143472	42.75466284
Koala River	1	0.143472	42.89813486
Ladoga	1	0.143472	43.04160689
Lake Almanor	4	0.573888	43.61549498
Lake Amador	3	0.430416	44.04591105
Lake Berryessa	9	1.291248	45.33715925
Lake Clementine	1	0.143472	45.48063128
Lake County	1	0.143472	45.6241033
Lake Hemit	1	0.143472	45.76757532
Lake Isabella	1	0.143472	45.91104735
Lake Lundy	1	0.143472	46.05451937
Lake Mohave	1	0.143472	46.19799139
Lake Natoma	1	0.143472	46.34146341
Lake Oroville	2	0.286944	46.62840746
Lake San Antonio	1	0.143472	46.77187948
Lake Spaulding	1	0.143472	46.91535151
Lake Tahoe	65	9.325681	56.241033
Lakes Basin - Plumas Co.	1	0.143472	56.38450502
Lassen National Forest	1	0.143472	56.52797704
Lassen Park	4	0.573888	57.10186514
Little Grass Valley Reservoir	3	0.430416	57.53228121
Lodi Lake	1	0.143472	57.67575323
Los Vaceros Reservoir	1	0.143472	57.81922525
Mammoth Lakes	6	0.860832	58.68005739
Marklyville Area	3	0.430416	59.11047346
Meadow Lake	1	0.143472	59.25394548
Mendocino	5	0.71736	59.9713056
Mendocino (Coast)	1	0.143472	60.11477762
Mendocino County	2	0.286944	60.40172166
Mendocino National Forest	1	0.143472	60.54519369
Merced River	1	0.143472	60.68866571
Millcreek Campground	1	0.143472	60.83213773
Millerton Lake	1	0.143472	60.97560976
Miwok Village	1	0.143472	61.11908178
Moab, Utah	1	0.143472	61.2625538

Mojave Desert	1	0.143472	61.40602582
Mono Lake	2	0.286944	61.69296987
Montana	1	0.143472	61.83644189
Monterey Bay	5	0.71736	62.55380201
Morning Star Lake	1	0.143472	62.69727403
Mt. Rose	3	0.430416	63.1276901
Mt. Shasta	3	0.430416	63.55810617
N/A	6	0.860832	64.41893831
Nevada	1	0.143472	64.56241033
Nevada City	1	0.143472	64.70588235
New Brighton Beach	1	0.143472	64.84935438
New Hogan	2	0.286944	65.13629842
New Melones Reservoir	5	0.71736	65.85365854
New Spicer Reservoir	1	0.143472	65.99713056
No	1	0.143472	66.14060258
None	9	1.291248	67.43185079
North Coast - Fort Bragg	1	0.143472	67.57532281
North Coast	1	0.143472	67.71879484
Northern California	1	0.143472	67.86226686
Odell Lake, Oregon	1	0.143472	68.00573888
Off of Hwy 89 - high elevation	1	0.143472	68.1492109
Oregon	2	0.286944	68.43615495
Outside Redding	1	0.143472	68.57962697
Pacific Coast Trail	1	0.143472	68.723099
Pacific Ocean	1	0.143472	68.86657102
Pardee Reservoir	2	0.286944	69.15351506
Paris Lake	1	0.143472	69.29698709
Party Lake	1	0.143472	69.44045911
Pilsberry Lake	1	0.143472	69.58393113
Pinacles National Monument	1	0.143472	69.72740316
Pine Crest Reservoir	5	0.71736	70.44476327
Pipi Campgrounds	3	0.430416	70.87517934
Pipi Valley	1	0.143472	71.01865136
Pismo Beach	1	0.143472	71.16212339
Placerville Area Small Lakes	1	0.143472	71.30559541
Plumas National Forest	2	0.286944	71.59253945
Prarie City	1	0.143472	71.73601148
Ramsy Cross (Below Bear Valley)	1	0.143472	71.8794835
Rancho Seco	1	0.143472	72.02295552
Rawlings Lake	3	0.430416	72.45337159
Red Bluff	1	0.143472	72.59684362
Red Buds	1	0.143472	72.74031564
Redding	2	0.286944	73.02725968
Redding Area	1	0.143472	73.17073171
Redwoods	1	0.143472	73.31420373
Rock Creek	1	0.143472	73.45767575
Russian River	1	0.143472	73.60114778
Ruth Lake	1	0.143472	73.7446198

Sacramento River	1	0.143472	73.88809182
Sacramento River Delta	1	0.143472	74.03156385
Saddlebag Lake	1	0.143472	74.17503587
Salt Lake	1	0.143472	74.31850789
Salt Lake City	1	0.143472	74.46197991
Salton Sea (by India)	1	0.143472	74.60545194
San Antonio Lake	1	0.143472	74.74892396
San Clemente State Beach	1	0.143472	74.89239598
San Joaquin Delta	1	0.143472	75.03586801
San Simeon	1	0.143472	75.17934003
Santa Cruz	2	0.286944	75.46628407
Santa Cruz Mountains	3	0.430416	75.89670014
Scott Flat	1	0.143472	76.04017217
Sequoia National Forest	3	0.430416	76.47058824
Shasta Lake	14	2.008608	78.47919656
Sierras	2	0.286944	78.7661406
Silver Fork American River	6	0.860832	79.62697274
Silver Fork Rd.	1	0.143472	79.77044476
Silver Lake	14	2.008608	81.77905308
Silver Rock Camp Ground	1	0.143472	81.92252511
Sly Park / Jenkinson Lake	29	4.160689	86.08321377
Sonoma	1	0.143472	86.2266858
Sonoma Coast	2	0.286944	86.51362984
Sonoma/Mendocino	1	0.143472	86.65710187
South Fork American River - Coloma	1	0.143472	86.80057389
South Fork American River	1	0.143472	86.94404591
South Lake Tahoe	1	0.143472	87.08751793
Southern Nevada	1	0.143472	87.23098996
Spicer Reservoir	1	0.143472	87.37446198
Stampede Reservoir	4	0.573888	87.94835007
Stanislaus	1	0.143472	88.09182209
Stanislaus National Forest	2	0.286944	88.37876614
State of Idaho	1	0.143472	88.52223816
State of Oregon	1	0.143472	88.66571019
Sternon Lake	1	0.143472	88.80918221
Stumpy Meadows	16	2.295552	91.10473458
Sugar Pine	4	0.573888	91.67862267
Sugar Pine (near Forest Hill)	1	0.143472	91.82209469
Sugar Pine Reservoir	1	0.143472	91.96556671
Tahoe	2	0.286944	92.25251076
Tahoe Basin	1	0.143472	92.39598278
Tahoe National Forest	3	0.430416	92.82639885
Toiyabe National Forest	1	0.143472	92.96987088
Topaz Lake	1	0.143472	93.1133429
Trinity	1	0.143472	93.25681492
Trinity Lakes	2	0.286944	93.54375897
Truckee	1	0.143472	93.68723099
Truckee River	1	0.143472	93.83070301

Twin Lakes	3	0.430416	94.26111908
Union Valley	1	0.143472	94.4045911
Virginia Lakes	1	0.143472	94.54806313
Wallon Lake	1	0.143472	94.69153515
Whiskey Town Reservoir	1	0.143472	94.83500717
White Cloud	1	0.143472	94.9784792
Woods Lake	1	0.143472	95.12195122
Woodward Reservoir	1	0.143472	95.26542324
Wrights Lake	3	0.430416	95.69583931
Wyoming	1	0.143472	95.83931133
Yosemite	24	3.443329	99.28263989
Yuba Gap	2	0.286944	99.56958393
Yuba River	3	0.430416	100
Total	697	100	

List of second place for similar recreational experiences

	Frequency	Percent	Cumulative Percent
Valid	223	31.99426	31.99426112
Alpine Lake	1	0.143472	32.13773314
Amador	2	0.286944	32.42467719
American River	5	0.71736	33.1420373
American/Sacramento Rivers	1	0.143472	33.28550933
Angel Springs	1	0.143472	33.42898135
Angels Creek	1	0.143472	33.57245337
Angles Crest	1	0.143472	33.71592539
Arden Pond	1	0.143472	33.85939742
Auburn Area	1	0.143472	34.00286944
Auburn Rec. Area	1	0.143472	34.14634146
Battle Creek	1	0.143472	34.28981349
Bay Area	2	0.286944	34.57675753
Bear Lake	1	0.143472	34.72022956
Bear River	2	0.286944	35.0071736
Bear River Lake	1	0.143472	35.15064562
Bear River Reservoir	1	0.143472	35.29411765
Bear Valley	3	0.430416	35.72453372
Bear Valley Reservoir	1	0.143472	35.86800574
Below Silver Lake	1	0.143472	36.01147776
Big Basin	1	0.143472	36.15494978
Blue Lake	3	0.430416	36.58536585
Bodega Bay	9	1.291248	37.87661406
Bowman Reservoir - Hwy 80	1	0.143472	38.02008608
Bridgeport	2	0.286944	38.30703013
Bullards Bar	3	0.430416	38.7374462
Burney Falls	1	0.143472	38.88091822
Cabin Pines	1	0.143472	39.02439024
Camp Far West	2	0.286944	39.31133429

Capitola Beach	1	0.143472	39.45480631
Caples Lake	8	1.147776	40.6025825
Caples Meadows	1	0.143472	40.74605452
Carmel	1	0.143472	40.88952654
Carnegie	1	0.143472	41.03299857
Castle Peak Area	1	0.143472	41.17647059
Catalina	1	0.143472	41.31994261
Chico	1	0.143472	41.46341463
Chili Bar	2	0.286944	41.75035868
China Camp	1	0.143472	41.8938307
China Flat	1	0.143472	42.03730273
Clear Creek	1	0.143472	42.18077475
Clear Lake	4	0.573888	42.75466284
Coast	8	1.147776	43.90243902
Colfax	1	0.143472	44.04591105
Collins Lake	4	0.573888	44.61979914
Coloma	1	0.143472	44.76327116
Contra Loma Reservoir	1	0.143472	44.90674319
Crystal Lake	1	0.143472	45.05021521
Davis Lake	1	0.143472	45.19368723
Delta Region	8	1.147776	46.34146341
Delta Region / Coast	1	0.143472	46.48493544
Desolation Wilderness	4	0.573888	47.05882353
Dillion Beach	2	0.286944	47.34576758
Dinkey Creek	1	0.143472	47.4892396
Discovery Park	1	0.143472	47.63271162
Don Pedro Reservoir	1	0.143472	47.77618364
Donner Lake	2	0.286944	48.06312769
Eagle Lake	5	0.71736	48.7804878
East Park Reservoir	1	0.143472	48.92395983
Echo Summit	1	0.143472	49.06743185
Englebright	1	0.143472	49.21090387
Eureka	1	0.143472	49.3543759
Fallen Leaf Lake	1	0.143472	49.49784792
Feather Falls	1	0.143472	49.64131994
Folsom Lake	14	2.008608	51.64992826
Folsom Park	1	0.143472	51.79340029
Foothills	1	0.143472	51.93687231
Fordyce Creek Trail	1	0.143472	52.08034433
Fordyce Lake	1	0.143472	52.22381636
Forest Hill	1	0.143472	52.36728838
Fort Bragg	6	0.860832	53.22812052
Fraiser Flat	1	0.143472	53.37159254
French Meadows	3	0.430416	53.80200861
Fuller Lake	1	0.143472	53.94548063
Ghost Mountain	1	0.143472	54.08895265
Glomis	1	0.143472	54.23242468
Gold Lake	1	0.143472	54.3758967

Grass Valley Area	1	0.143472	54.51936872
Gray Pines	1	0.143472	54.66284075
Green Horn Mountain	1	0.143472	54.80631277
Green River	1	0.143472	54.94978479
Gresham	1	0.143472	55.09325681
Grouse Ridge	1	0.143472	55.23672884
Grover Hot Springs	1	0.143472	55.38020086
Half Moon Bay	1	0.143472	55.52367288
Happy Valley	1	0.143472	55.66714491
Hell's Kitchen	1	0.143472	55.81061693
Hell Hole Reservoir	4	0.573888	56.38450502
Highway 88	1	0.143472	56.52797704
Hogan Lake	2	0.286944	56.81492109
Hope Valley	3	0.430416	57.24533716
Humboldt County	1	0.143472	57.38880918
Humboldt State Park	1	0.143472	57.53228121
Hwy 1	1	0.143472	57.67575323
Iron Mountain	1	0.143472	57.81922525
Italy	1	0.143472	57.96269727
Jedediah Smith	1	0.143472	58.1061693
Joshua Tree	1	0.143472	58.24964132
Juntion Lake	1	0.143472	58.39311334
Kennedy Meadows	2	0.286944	58.68005739
Kern River	1	0.143472	58.82352941
Kings Canyon	4	0.573888	59.3974175
Kirkwood Lake	1	0.143472	59.54088953
Lake Almanor	1	0.143472	59.68436155
Lake Amador	3	0.430416	60.11477762
Lake Berryessa	6	0.860832	60.97560976
Lake Clementine	1	0.143472	61.11908178
Lake Mead	1	0.143472	61.2625538
Lake Natomas	1	0.143472	61.40602582
Lake of the Woods	1	0.143472	61.54949785
Lake Oroville	3	0.430416	61.97991392
Lake Pisbery	1	0.143472	62.12338594
Lake Sanoma	1	0.143472	62.26685796
Lake Tahoe-North Shore	1	0.143472	62.41032999
Lake Tahoe	43	6.169297	68.57962697
Lake William	1	0.143472	68.723099
Lakes in Butte County	1	0.143472	68.86657102
Lassen	1	0.143472	69.01004304
Lassen Park	3	0.430416	69.44045911
Little Grass Valley Reservoir	2	0.286944	69.72740316
Loc Laven Lake	1	0.143472	69.87087518
Loch Leven	1	0.143472	70.0143472
Mammoth Lakes	4	0.573888	70.58823529
Marklyville	1	0.143472	70.73170732
McCarthy Burney Falls SP	1	0.143472	70.87517934

McCloud	1	0.143472	71.01865136
Mckolomy	1	0.143472	71.16212339
Mendecino County	1	0.143472	71.30559541
Mendocino	1	0.143472	71.44906743
Mendocino Coast	1	0.143472	71.59253945
Mendocino State Park	1	0.143472	71.73601148
Middle Creek CG	1	0.143472	71.8794835
Mission Beach	1	0.143472	72.02295552
Montana	1	0.143472	72.16642755
Monterey	2	0.286944	72.45337159
Monterey County	1	0.143472	72.59684362
Mt. Rainer	1	0.143472	72.74031564
Mt. Shasta	2	0.286944	73.02725968
Mt. Tallac	1	0.143472	73.17073171
Mt. Whitney	2	0.286944	73.45767575
N/A	1	0.143472	73.60114778
Nevada	1	0.143472	73.7446198
New Hogan	1	0.143472	73.88809182
New Melones Reservoir	4	0.573888	74.46197991
Nimbus Dam	1	0.143472	74.60545194
North Coast	2	0.286944	74.89239598
Northern Idaho	1	0.143472	75.03586801
Ocean	2	0.286944	75.32281205
Ocean Camping	1	0.143472	75.46628407
Oregon	1	0.143472	75.6097561
Oregon Coastline	1	0.143472	75.75322812
Panther Creek	1	0.143472	75.89670014
Pardee Reservoir	2	0.286944	76.18364419
Pine Crest Reservoir	2	0.286944	76.47058824
Pinnacles National Monument	1	0.143472	76.61406026
Plumas	1	0.143472	76.75753228
Plumas National Forest	1	0.143472	76.9010043
Portola	1	0.143472	77.04447633
Rawlings Lake	3	0.430416	77.4748924
Redding	1	0.143472	77.61836442
Reno	1	0.143472	77.76183644
Rio Vista Area (Delta)	1	0.143472	77.90530846
Round Lake	1	0.143472	78.04878049
Russian River	1	0.143472	78.19225251
Sacramento River	2	0.286944	78.47919656
Sacramento/American Rivers	1	0.143472	78.62266858
Salmon River	1	0.143472	78.7661406
Salt Springs	1	0.143472	78.90961263
San Antonio Lake	1	0.143472	79.05308465
San Luis Reservoir	1	0.143472	79.19655667
Sand Flat	1	0.143472	79.34002869
Sand Mountain	1	0.143472	79.48350072
Sand Quintiue	1	0.143472	79.62697274

Santa Cruz Mountains	2	0.286944	79.91391679
Santa Cruz State Beaches	1	0.143472	80.05738881
Scott's Lake	1	0.143472	80.20086083
Seal Beach	1	0.143472	80.34433286
Sequoia National Park	1	0.143472	80.48780488
Shasta Lake	10	1.43472	81.92252511
Shasta Region	1	0.143472	82.06599713
Sierra Mountains	1	0.143472	82.20946915
Sierra Trac	1	0.143472	82.35294118
Silver Creek	1	0.143472	82.4964132
Silver Fork American River	5	0.71736	83.21377331
Silver Lake	4	0.573888	83.78766141
Sky Line	1	0.143472	83.93113343
Sly Park / Jenkinson Lake	25	3.586801	87.517934
Solman Lake	1	0.143472	87.66140603
Sonoma	1	0.143472	87.80487805
Sonoma Coast	2	0.286944	88.09182209
Sonora	2	0.286944	88.37876614
South Fork American River	1	0.143472	88.52223816
South Yuba River Area	1	0.143472	88.66571019
Spaulding Reservoir	1	0.143472	88.80918221
Stampede Reservoir	3	0.430416	89.23959828
Stanislaus River	1	0.143472	89.3830703
State of Idaho	1	0.143472	89.52654232
State of Washington	2	0.286944	89.81348637
Stumpy Meadows	7	1.004304	90.81779053
Sugar Pine Reservoir	4	0.573888	91.39167862
Tahoe	1	0.143472	91.53515065
Tahoe National Forest	1	0.143472	91.67862267
Tamoles Bay	1	0.143472	91.82209469
Three Rivers	1	0.143472	91.96556671
Tish Tang (between Redding & Coast)	1	0.143472	92.10903874
Toluk Lake	1	0.143472	92.25251076
Topaz Lake	1	0.143472	92.39598278
Trinity Alps	1	0.143472	92.53945481
Trinity Area	1	0.143472	92.68292683
Trinity Lake	1	0.143472	92.82639885
Trinity River	4	0.573888	93.40028694
Truckee	3	0.430416	93.83070301
Tuolumne Meadows	1	0.143472	93.97417504
Tuolumne National Forest	1	0.143472	94.11764706
Turlock Lake	4	0.573888	94.69153515
Utica Reservoir	1	0.143472	94.83500717
Walken River	1	0.143472	94.9784792
Wentworth Springs	2	0.286944	95.26542324
Whiskey Town Lake	1	0.143472	95.40889527
White Mountains	1	0.143472	95.55236729
Willamette, Oregon	1	0.143472	95.69583931

Woods	1	0.143472	95.83931133
Woodward Reservoir	1	0.143472	95.98278336
Wrights Lake	1	0.143472	96.12625538
Yellowstone	4	0.573888	96.70014347
Yosemite	21	3.012912	99.71305595
Yuba Gap	2	0.286944	100
Total	697	100	

30. Would you be willing to provide your name and mailing address to be contacted for future studies of the Crystal Basin Recreation Area?

¹YES ²NO (Check one)

Willing to provide name and address for future studies

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	395	56.7	56.7	56.7
no	297	42.6	42.6	99.3
No response	5	.7	.7	100.0
Total	697	100.0	100.0	

State

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	295	42.3	42.3	42.3
CA	395	56.7	56.7	99.0
CO	1	.1	.1	99.1
CT	1	.1	.1	99.3
NV	4	.6	.6	99.9
OR	1	.1	.1	100.0
Total	697	100.0	100.0	

Appendix C.1.3 Frequencies all Reservoirs (Weighted)

This compilation presents the results of approximately 700 personal interviews conducted at campgrounds, day use areas, and boat launch facilities located adjacent to or near the UARP’s four primary reservoirs during the summer of 2002.

This document builds upon the results presented in Appendix C.1.2, in that the results presented here are “weighted” as described in the Methodology section of this Technical Report. This weighted data also incorporates the coding changes the Recreation TWG decided upon at its January 8, 2003 meeting – primarily coding changes to data for: number in group (code category 6-10), number of years coming to the Crystal Basin (code category 6-10), and zip codes (code category “other”).

The following frequencies and percentages represent weighted survey data for the global Crystal Basin/UARP related surveys conducted at developed facilities. Presented first is the survey question, followed by a table presenting the results. For some questions we also include general notes of explanation.

3. May I please have the zip code of your primary place of residence? _____ (*Record response*)

Zip County (final)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid El Dorado County	169	24.2	24.2	24.2
Sacramento County	297	42.5	42.5	66.7
Placer County	28	4.1	4.1	70.8
Yolo County	25	3.6	3.6	74.4
Bay Area	102	14.6	14.6	88.9
Northern CA	5	.8	.8	89.7
Coast	16	2.4	2.4	92.1
Central Valley	24	3.4	3.4	95.5
Southern CA	11	1.6	1.6	97.1
Out of State	10	1.5	1.5	98.6
No response	5	.7	.7	99.4
Unreadable response	4	.6	.6	100.0
Total	698	100.0	100.0	

Note:

Northern CA - Lake, Butte, Sutter, Yuba, Nevada

Coast - Santa Cruz, San Benito, Monterey

Central Valley - San Joaquin, Amador, Calaveras, Tuolumne, Stanislaus, Merced, Fresno, Tulare, Kings, Kern

Southern CA - San Bernadino, Los Angeles, Orange, Riverside, San Diego

4. How many people are in your group on this visit? _____ (*Record response*)

in Group (recode)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1	21	3.0	3.0	3.0
2	185	26.6	26.6	29.6
3	91	13.0	13.0	42.6
4	104	14.9	14.9	57.5
5	61	8.7	8.7	66.2
6	60	8.6	8.6	74.8
7-10	83	11.9	11.9	86.7
11-15	44	6.3	6.3	93.0
16-20	20	2.9	2.9	95.9
21-30	13	1.9	1.9	97.8
31-40	4	.5	.5	98.4
41-50	6	.8	.8	99.2
51 or more	6	.8	.8	100.0
Total	698	100.0	100.0	

5. How many years have you been visiting the Crystal Basin? (*Check one*)

- No. of years _____ (*Record years*)
- First visit

Yrs Visiting Crystal Basin (recode)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	First visit	117	16.7	16.7	16.7
	1	22	3.1	3.1	19.9
	2	43	6.2	6.2	26.1
	3	45	6.4	6.4	32.5
	4	19	2.7	2.7	35.2
	5	48	6.8	6.8	42.0
	6	30	4.3	4.3	46.3
	7	12	1.7	1.7	48.1
	8	14	2.1	2.1	50.1
	9	5	.7	.7	50.8
	10	51	7.3	7.3	58.1
	11-15	88	12.6	12.6	70.7
	16-20	66	9.5	9.5	80.2
	21-30	73	10.5	10.5	90.7
	31-40	36	5.1	5.1	95.8
	41-50	17	2.5	2.5	98.2
	51 or more	12	1.8	1.8	100.0
	Total	698	100.0	100.0	

6. Is your visit to (*State reservoir name, location, or campground*): (Check one)

- ¹the primary destination of your trip?
- ²a side trip while camped at another location in the Crystal Basin?
- ³a stop on route to another destination? If so, where? _____
(Record response)

Is Your Visit

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	the primary destination of your trip	612	87.7	87.7	87.7
	a side trip while camped at another location in the Crystal	62	8.9	8.9	96.6
	a stop on route to another destination	18	2.6	2.6	99.3
	No response	5	.7	.7	100.0
	Total	698	100.0	100.0	

Other Destination

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Facility at Ice House Reservoir	0	.0	1.2	1.2
	Facility at Gerle Creek Reservoir	4	.5	20.6	21.8
	Facility at Loon Lake Reservoir	1	.2	5.8	27.6
	Lake Tahoe	4	.5	19.6	47.2
	Facility at Wrights Lake	2	.3	10.5	57.7
	Other destination outside of Crystal Basin	8	1.1	42.3	100.0
	Total	18	2.6	100.0	
Missing	System	680	97.4		
Total		698	100.0		

7. Is this visit a day trip from outside of the Crystal Basin or are you staying overnight in the Crystal Basin during your visit? (*Check one*)

¹Day trip from outside the Crystal Basin

How many hours are you staying? _____ (*Record response and go to question 8*)

²Staying overnight

How many nights are you staying? _____ (*Record response and continue to 7a*)

Day or Overnight

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Day Trip	166	23.7	23.7	23.7
	Staying Overnight	530	76.0	76.0	99.7
	No response	2	.3	.3	100.0
	Total	698	100.0	100.0	

Hours of Day Trip

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	3 hours or less	15	2.2	9.3	9.3
	4 to 6 hours	83	11.9	50.3	59.5
	7 to 9 hours	42	6.1	25.5	85.1
	10 hours or more	20	2.8	12.0	97.1
	No response	5	.7	2.9	100.0
	Total	166	23.7	100.0	
Missing	System	532	76.3		
Total		698	100.0		

of Nights

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 night	50	7.2	9.4	9.4
	2 nights	169	24.2	31.8	41.3
	3 nights	134	19.2	25.3	66.5
	4 nights	81	11.6	15.3	81.8
	5 nights	40	5.7	7.5	89.3
	6 nights	14	2.0	2.6	91.9
	7 nights	15	2.2	2.9	94.8
	8 to 14 nights	21	3.0	3.9	98.7
	No response	7	1.0	1.3	100.0
	Total	530	76.0	100.0	
Missing	System	168	24.0		
Total		698	100.0		

a. If you are staying overnight, are you: *(Check one)*

¹Camping at a campground in the Crystal Basin?

(Record campground name)

²Camping in an undeveloped campsite?

(Describe location)

³Staying in a resort or private cabin or residence?

(Record name of resort or describe location of cabin or residence)

Type of Overnight Accomodation

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground	490	70.2	92.0	92.0
	Undeveloped Campsite	31	4.4	5.8	97.7
	Resort, Private Cabin or Residence	9	1.3	1.7	99.4
	No response	3	.4	.6	100.0
	Total	532	76.3	100.0	
Missing	System	166	23.7		
Total		698	100.0		

Name of Campground

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground at Ice House Reservoir	110	15.8	22.5	22.5
	Campground at Union Valley Reservoir	218	31.2	44.4	66.9
	Campground at Gerle Creek Reservoir	41	5.9	8.5	75.4
	Campground at Loon Lake Reservoir	116	16.6	23.7	99.0
	Campground at Wrights Lake	2	.3	.4	99.4
	Other	2	.2	.3	99.8
	Unreadable response	1	.1	.2	100.0
	Total	490	70.2	100.0	
Missing	System	208	29.8		
Total		698	100.0		

Undeveloped Campsite

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Site within .25 mile of Union Valley Reservoir	14	2.0	44.8	44.8
	Site within .25 mile of Gerle Creek Reservoir	0	.1	1.5	46.2
	Site within .25 mile of Loon Lake Reservoir	7	1.1	24.5	70.7
	Jones Wreckum Road Area	1	.2	3.5	74.2
	Millionaire Camp Area	1	.2	3.5	77.7
	Undecided	3	.4	8.9	86.6
	Other dispersed area	2	.3	6.8	93.4
	No Response	2	.3	6.6	100.0
	Total	31	4.4	100.0	
Missing	System	667	95.6		
Total		698	100.0		

Resort

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Robbs Resort	2	.3	26.4	26.4
	Gerle Recreational Residences	1	.2	14.4	40.8
	Other	5	.8	59.2	100.0
	Total	9	1.3	100.0	
Missing	System	689	98.7		
Total		698	100.0		

8. (Hand the respondent a card with one of 3 versions of this list.) From the activities listed on this card, please select the recreational activities you have participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping? (Check all that apply.)

- | | | |
|--|--|--|
| <input type="checkbox"/> BACKPACKING (1) | <input type="checkbox"/> HUNTING (7) | <input type="checkbox"/> SAIL BOATING (13) |
| <input type="checkbox"/> BICYCLING (2) | <input type="checkbox"/> OFF-HIGHWAY VEHICLE (OHV) USE (8) | <input type="checkbox"/> SWIMMING (14) |
| <input type="checkbox"/> CANOEING/KAYAKING (3) | <input type="checkbox"/> PICNICKING (9) | <input type="checkbox"/> VISITING CULTURAL/HISTORIC SITES (15) |
| <input type="checkbox"/> FISHING (LAKE OR RESERVOIR) (4) | <input type="checkbox"/> PHOTOGRAPHY (10) | <input type="checkbox"/> WILDLIFE VIEWING (16) |
| <input type="checkbox"/> FISHING (STREAM OR RIVER) (5) | <input type="checkbox"/> POWER BOATING (11) | <input type="checkbox"/> OTHER (17):
(Specify) _____ |
| <input type="checkbox"/> HIKING/WALKING (6) | <input type="checkbox"/> PWC USE (JET SKI) (12) | |

Backpacking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	44	6.3	100.0	100.0
Missing System	654	93.7		
Total	698	100.0		

Bicycling

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	122	17.5	100.0	100.0
Missing System	576	82.5		
Total	698	100.0		

Canoeing/Kayaking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	115	16.5	100.0	100.0
Missing System	583	83.5		
Total	698	100.0		

Fishing (Lake or Reservoir)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	396	56.8	100.0	100.0
Missing System	302	43.2		
Total	698	100.0		

Fishing (Stream or River)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	54	7.8	100.0	100.0
Missing System	644	92.2		
Total	698	100.0		

Hiking/Walking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	419	60.1	100.0	100.0
Missing System	279	39.9		
Total	698	100.0		

Hunting

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	10	1.4	100.0	100.0
Missing System	688	98.6		
Total	698	100.0		

OHV Use

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	59	8.4	100.0	100.0
Missing System	639	91.6		
Total	698	100.0		

Picnicking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	361	51.7	100.0	100.0
Missing System	337	48.3		
Total	698	100.0		

Photography

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	228	32.7	100.0	100.0
Missing System	470	67.3		
Total	698	100.0		

Power Boating

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	198	28.3	100.0	100.0
Missing System	500	71.7		
Total	698	100.0		

PWC Use

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	44	6.3	100.0	100.0
Missing System	654	93.7		
Total	698	100.0		

Sail Boating

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	24	3.4	100.0	100.0
Missing System	674	96.6		
Total	698	100.0		

Swimming

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	466	66.7	100.0	100.0
Missing System	232	33.3		
Total	698	100.0		

Visiting Cultural/Historic Sites

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	39	5.5	100.0	100.0
Missing System	659	94.5		
Total	698	100.0		

Wildlife Viewing

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	308	44.2	100.0	100.0
Missing System	390	55.8		
Total	698	100.0		

9. What are your three most important recreational activities from this list? (If respondent selects less than three in question 8, then just rank the one or two activities selected. Record response using numbers above.)

A. Most important activity. _____

B. 2nd most important activity. _____

C. 3rd most important activity. _____

Most Important Activity

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Backpacking	7	.9	.9	.9
Bicycling	14	2.0	2.0	2.9
Canoeing/Kayaking	39	5.5	5.5	8.5
Fishing (Lake or Reservoir)	206	29.6	29.6	38.0
Fishing (Stream or River)	2	.2	.2	38.3
Hiking/Walking	67	9.6	9.6	47.9
Hunting	5	.7	.7	48.5
OHV Use	27	3.8	3.8	52.4
Picnicking	41	5.9	5.9	58.3
Photography	13	1.8	1.8	60.1
Power Boating	97	13.9	13.9	73.9
PWC Use (Jet Ski)	21	3.0	3.0	76.9
Sail Boating	3	.5	.5	77.4
Swimming	101	14.5	14.5	91.9
Visiting Cultural/Historic Sites	2	.3	.3	92.2
Wildlife Viewing	32	4.6	4.6	96.8
Other	15	2.1	2.1	98.9
No response	8	1.1	1.1	100.0
Total	698	100.0	100.0	

2nd Most Important Activity

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Backpacking	7	1.1	1.1	1.1
Bicycling	27	3.8	3.8	4.9
Canoeing/Kayaking	18	2.6	2.6	7.5
Fishing (Lake or Reservoir)	79	11.4	11.4	18.9
Fishing (Stream or River)	16	2.2	2.2	21.2
Hiking/Walking	115	16.4	16.4	37.6
Hunting	0	.0	.0	37.6
OHV Use	7	1.1	1.1	38.7
Picnicking	73	10.5	10.5	49.2
Photography	26	3.7	3.7	52.9
Power Boating	39	5.6	5.6	58.5
PWC Use (Jet Ski)	8	1.2	1.2	59.7
Sail Boating	5	.7	.7	60.4
Swimming	135	19.4	19.4	79.8
Visiting Cultural/Historic Sites	2	.3	.3	80.0
Wildlife Viewing	57	8.2	8.2	88.2
Other	4	.6	.6	88.9
No response	78	11.1	11.1	100.0
Total	698	100.0	100.0	

3rd Most Important Activity

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Backpacking	0	.0	.0	.0
Bicycling	19	2.8	2.8	2.8
Canoeing/Kayaking	18	2.6	2.6	5.5
Fishing (Lake or Reservoir)	37	5.3	5.3	10.8
Fishing (Stream or River)	3	.4	.4	11.2
Hiking/Walking	96	13.8	13.8	25.0
Hunting	3	.4	.4	25.4
OHV Use	5	.7	.7	26.1
Picnicking	96	13.7	13.7	39.8
Photography	44	6.3	6.3	46.2
Power Boating	24	3.5	3.5	49.7
PWC Use (Jet Ski)	7	1.0	1.0	50.6
Swimming	98	14.1	14.1	64.7
Visiting Cultural/Historic Sites	4	.6	.6	65.3
Wildlife Viewing	70	10.1	10.1	75.4
Other	4	.5	.5	75.9
No response	168	24.1	24.1	100.0
Total	698	100.0	100.0	

10. Would you like to see any changes or improvements to the existing motorized trail system, such as off highway vehicle trails, in the Crystal Basin?

YES NO NO OPINION (*Check one*)

If yes, what are they and where? (*Record response verbatim*)

What? _____

Where? _____

Changes to Motorized Trails

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	107	15.4	15.4	15.4
No	303	43.4	43.4	58.8
No Opinion	285	40.8	40.8	99.6
No response	3	.4	.4	100.0
Total	698	100.0	100.0	

Coded List of What Changes to Motorized (MAX 3)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Expanded motorized trail system	34	4.9	31.9	31.9
	Reopen Bassi Falls area	14	2.1	13.4	45.4
	Reduce regulations or enforcement over OHV use	5	.6	4.2	49.6
	Improve trailhead markers (not obvious if allowable)	9	1.3	8.1	57.7
	Reduce or eliminate motorized trail system	20	2.8	18.5	76.2
	Strengthen regulations or enforcement over OHV use	7	1.1	7.0	83.1
	More paved or other road improvements	4	.6	4.1	87.3
	Other	8	1.1	7.4	94.7
	No response	6	.8	5.3	100.0
	Total	107	15.4	100.0	
Missing	System	591	84.6		
Total		698	100.0		

Note: (MAX 3) denotes that we documented up to three different responses from the respondent. For question number 10, of the 110 respondents who responded “yes,” three provided two different responses.

Coded List of What Changes to Motorized 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Reduce regulations or enforcement over OHV use	0	.0	15.3	15.3
	Improve trailhead markers (not obvious if allowable)	1	.1	69.4	84.7
	Other	0	.0	15.3	100.0
	Total	1	.2	100.0	
Missing	System	697	99.8		
Total		698	100.0		

11. Would you like to see any changes or improvements to the existing non-motorized trail system, such as hiking trails, in the Crystal Basin?

NO YES NO OPINION (Check one)

If yes, what are they and where? (*Record response verbatim*)

What? _____

Where? _____

Changes to Non-Motorized Trails

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	106	15.2	15.2	15.2
No	397	56.8	56.8	72.0
No Opinion	195	28.0	28.0	100.0
No response	0	.0	.0	100.0
Total	698	100.0	100.0	

Coded List of What Changes to Non-Motorized (MAX 3)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Better trail/trailhead marking	34	4.9	32.1	32.1
Increase information/maps	6	.9	5.8	37.8
More bike trails	15	2.1	13.8	51.7
More hiking trails	7	1.1	7.0	58.7
More equestrian trails	2	.2	1.6	60.3
More trails	18	2.6	16.8	77.1
Increase level of development	7	1.0	6.7	83.8
Increase trail maintenance	2	.3	2.2	86.0
Other	11	1.6	10.4	96.4
No response	4	.5	3.6	100.0
Total	106	15.2	100.0	
Missing System	592	84.8		
Total	698	100.0		

Coded List of What Changes to Non-Motorized 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Increase information/maps	6	.8	41.6	41.6
	More hiking trails	2	.3	16.7	58.4
	More trails	3	.4	21.4	79.8
	More hike-in or boat-in only campgrounds	3	.4	20.2	100.0
	Total	14	2.0	100.0	
Missing	System	684	98.0		
Total		698	100.0		

Coded List of What Changes to Non-Motorized 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More trails	2	.2	100.0	100.0
Missing	System	696	99.8		
Total		698	100.0		

12. Are improvements needed to make access to the shorelines of the reservoirs:

a. Easier? ¹YES ²NO ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

b. Safer? ²NO ¹YES ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

c. More enjoyable? ¹YES ²NO ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

Are improvements needed to make access to shorelines easier, safer, OR more enjoyable?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	At least one yes in 12a,b,c	161	23.1	23.1	23.1
	No	495	70.9	70.9	94.1
	No Opinion	41	5.9	5.9	100.0
Total		698	100.0	100.0	

Note: The Forest Service and SMUD agreed to the following at the October 4, 2002, coding meeting: (1) if respondent gave the same response for two or for all three variables (easier, safer and more enjoyable), it will be counted as only one response; (2) do not distinguish between “easier, safer or more enjoyable”

since we will have the ability to pull the specific surveys within a specific category to review what they said and to which variable it was in response to; and (3) make cuff notes as appropriate for responses under “other.” Data was recorded for each variable and is available upon request.

Coded list of changes to shorelines (MAX 4)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Clearly defined trail to shoreline	30	4.3	18.7	18.7
	More docks	8	1.1	5.0	23.7
	More parking	6	.8	3.5	27.1
	Make improvements for seniors or disabled	9	1.3	5.7	32.8
	Keep water levels up	1	.1	.6	33.5
	More sand/Less rocks	24	3.5	15.2	48.7
	Pave trail to shoreline	3	.5	2.1	50.8
	More picnic or day-use areas	1	.2	.7	51.4
	More fish	2	.3	1.2	52.6
	Banks are too steep	1	.2	.8	53.4
	More campgrounds or campsites closer to shoreline	8	1.2	5.1	58.5
	Greater road access	11	1.5	6.5	65.1
	More designated swimming areas	4	.5	2.4	67.4
	Floating bathrooms	2	.2	1.1	68.5
	More boat ramps	2	.3	1.3	69.8
	More information about access	0	.0	.1	69.9
	Other	39	5.6	24.2	94.2
	No response	8	1.2	5.2	99.4
	Unreadable response	1	.1	.6	100.0
	Total	161	23.1	100.0	
Missing	System	537	76.9		
Total		698	100.0		

Coded list of changes to shorelines 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Clearly defined trail to shoreline	3	.4	8.6	8.6
	Make improvements for seniors or disabled	1	.2	3.3	12.0
	Keep water levels up	2	.2	5.3	17.3
	More sand/Less rocks	6	.8	18.2	35.5
	Pave trail to shoreline	1	.1	3.1	38.6
	More picnic or day-use areas	1	.1	3.1	41.8
	More fish	0	.0	.7	42.5
	Banks are too steep	1	.1	3.1	45.6
	More campgrounds or campsites closer to shoreline	4	.5	11.8	57.4
	More designated swimming areas	1	.2	3.3	60.7
	Floating bathrooms	2	.2	5.3	66.0
	More information about access	1	.2	3.3	69.3
	Other	7	1.0	22.1	91.4
	No response	3	.4	8.6	100.0
	Total	32	4.6	100.0	
Missing	System	666	95.4		
Total		698	100.0		

Coded list of changes to shorelines 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Make improvements for seniors or disabled	1	.2	16.3	16.3
	More sand/Less rocks	2	.2	26.0	42.3
	More fish	1	.1	15.4	57.7
	No response	3	.4	42.3	100.0
	Total	7	.9	100.0	
Missing	System	691	99.1		
Total		698	100.0		

Coded list of changes to shorelines 4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	2	.2	100.0	100.0
Missing	System	696	99.8		
Total		698	100.0		

13. Are improvements needed to make access to rivers or streams:

a. Easier? ²NO ¹YES ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

b. Safer? ¹YES ²NO ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

c. More enjoyable? ²NO ¹YES ³NO OPINION (*Check one*)

If yes, what? (*Record response verbatim*) _____

Are improvements needed to make access to rivers or streams easier, safer OR more enjoyable?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	At least one yes in 12a,b,c	47	6.8	6.8	6.8
	No	399	57.2	57.2	64.0
	No Opinion	251	36.0	36.0	100.0
	Total	698	100.0	100.0	

Note: The Forest Service and SMUD agreed to the following at the October 4, 2002, coding meeting: (1) if respondent gave the same response for two or for all three variables (easier, safer and more enjoyable), it will be counted as only one response; (2) do not distinguish between “easier, safer or more enjoyable” since we will have the ability to pull the specific surveys within a specific category to review what they said and to which variable it was in response to; and (3) make cuff notes as appropriate for responses under “other.” Data was recorded for each variable and is available upon request.

Coded list of changes to rivers or streams (MAX 4)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve road and trail access to river or stream	22	3.1	46.0	46.0
	Paved trails or walkways	3	.5	6.9	52.8
	Better parking	3	.4	6.3	59.2
	Picnic areas	1	.2	2.6	61.8
	More information about access	7	.9	13.9	75.7
	Remove some of the brush along river or stream	0	.0	.5	76.2
	Improve accessibility for seniors or disabled	2	.3	4.9	81.1
	Other	5	.8	11.1	92.1
	No response	4	.5	7.9	100.0
	Total	47	6.8	100.0	
Missing	System	651	93.2		
Total		698	100.0		

Coded list of changes to rivers or streams 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Better parking	3	.4	30.6	30.6
	Picnic areas	0	.0	2.4	33.0
	Improve accessibility for seniors or disabled	1	.2	11.8	44.8
	Other	2	.3	24.7	69.4
	No response	3	.4	30.6	100.0
	Total	9	1.3	100.0	
Missing	System	689	98.7		
Total		698	100.0		

Coded list of changes to rivers or streams 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve accessibility for seniors or disabled	1	.2	50.0	50.0
	No response	1	.2	50.0	100.0
	Total	2	.3	100.0	
Missing	System	696	99.7		
Total		698	100.0		

14. Did the water level of this reservoir (or closest reservoir) allow you to participate in the recreational activities you had planned? (Check one)

¹ YES (go to question 15) ² NO (continue to 14a) ³ NO OPINION (go to question 15)

Did water level allow you to participate in activities?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	645	92.4	92.4	92.4
No	18	2.6	2.6	95.0
No Opinion	35	5.0	5.0	100.0
Total	698	100.0	100.0	

A. To what degree did the water level of this reservoir (or closest reservoir) negatively impact your ability to have the type of experience you had planned?

¹No Impacts (go to question 15) ²Minimal Impacts ³Moderate Impacts ⁴Significant Impacts ⁵No Opinion (go to question 15)

If respondent selects “minimal, moderate or significant,” then ask:
What impacts and how did it affect your trip? (Record response verbatim)

What impacts? _____

How? _____

To what degree did water level impact?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Minimal	8	1.2	46.1	46.1
Moderate	6	.8	30.6	76.7
No response	4	.6	23.3	100.0
Total	18	2.6	100.0	
Missing System	680	97.4		
Total	698	100.0		

List of what impacts (reservoir)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	680	97.4	97.4	97.4
Cancelled some activities	2	.2	.2	97.7
Hoping H2O level lower - so not so many people	1	.2	.2	97.8
Low water level affects fishing.	2	.2	.2	98.1
No Fish.	1	.2	.2	98.2
No markers of shallow areas in reservoir opted not to boat.	2	.2	.2	98.5
No Response.	4	.6	.6	99.1
On a nature walk it was difficult to collect rocks that are needed for my collection.	1	.1	.1	99.2
The water level looks like it has gone down over the course of the summer.	2	.2	.2	99.5
Water level low - had to walk further to water.	1	.1	.1	99.6
Water level lower than normal - affects fishing.	1	.2	.2	99.8
Water level too low.	2	.2	.2	100.0
Total	698	100.0	100.0	

15. To what extent did the water level of this reservoir (or closest reservoir) negatively affect the quality of the experience you had planned.

¹ None
 ² Minimal
 ³ Moderate
 ⁴ Significant
 ⁵ No Opinion
 (go to question 16) (go to question 16)

If respondent selects “minimal, moderate or significant,” then ask:
 How did it affect the quality of your experience? (Record response verbatim)

How? _____

Extent negatively affecting quality of experience (reservoirs)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	None	631	90.4	90.4	90.4
	Minimal	25	3.6	3.6	94.0
	Moderate	7	1.0	1.0	95.0
	Significant	1	.1	.1	95.2
	No Opinion	34	4.8	4.8	100.0
	Total	698	100.0	100.0	

List of how (reservoir/quality)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	665	95.3	95.3	95.3
A little low - have to walk.	2	.2	.2	95.5
As reservoir drops rocks appear-dangerous - install markers.	2	.2	.2	95.8
Beaches farther from water.	1	.1	.1	95.9
Got snagged on some rocks while on Loon Lake.	1	.2	.2	96.1
Had to walk further to get to water.	2	.2	.2	96.3
Harder to launch boat.	2	.2	.2	96.6
I just couldn't do everything I planned.	1	.1	.1	96.7
It was too cold to swim.	0	.0	.0	96.7
Keep at one level for fishing.	0	.0	.0	96.8
Kinda high.	1	.2	.2	96.9
Large rocks used to jump off of - under water.	2	.2	.2	97.2
Little more water.	0	.0	.0	97.2
Lots of rock (sandbar) put warning signs up.	1	.1	.1	97.4
More rocks - hazards (need markers).	2	.2	.2	97.6
Need extra fishing dock.	1	.1	.1	97.7
No Fish.	1	.2	.2	97.9
No Response	11	1.6	1.6	99.5
Took longer to get to water.	0	.0	.0	99.5
Water level was a little low.	2	.2	.2	99.8
Water was murky & silty - put gravel over more of the beach area.	2	.2	.2	100.0
Total	698	100.0	100.0	

16. Did the amount of flow in the streams allow you to participate in the activities you had planned?
(Check one)

NO (continue to 16a) YES (go to question 17) NO OPINION (go to question 17)

Did flow in streams allow participation

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	321	45.9	45.9	45.9
No	38	5.4	5.4	51.3
No Opinion	340	48.7	48.7	100.0
Total	698	100.0	100.0	

A. To what degree did the amount of flow in the streams negatively impact your ability to have the type of experience you had planned?

- ¹ No Impacts (go to question 17)
 ² Minimal Impacts
 ³ Moderate Impacts
 ⁴ Significant Impacts
 ⁵ No Opinion (go to question 17)

*If respondent selects "minimal, moderate or significant," then ask:
On what segments of streams, what impacts and how did it affect your trip? (Record response verbatim)*

Segments of streams? _____

What impacts? _____

How? _____

Degree negatively impact type of experience

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Minimal	7	1.0	18.8	18.8
Moderate	8	1.1	20.1	38.9
Significant	1	.1	2.7	41.6
No response	22	3.2	58.4	100.0
Total	38	5.4	100.0	
Missing System	660	94.6		
Total	698	100.0		

List of what impacts (stream segments)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	660	94.6	94.6	94.6
Bassi Falls - No water - wasn't enjoyable to hike or look at.	2	.2	.2	94.8
GC below LLD-pools not deep enough for fish increase flow slightly	0	.0	.0	94.9
Gerle Creek below Loon Lake Dam - Beer Cans & trash in creek (from Jamboree)	1	.2	.2	95.0
Gerle Creek low water level.	0	.0	.0	95.1
Gerle Creek near AFCG looked low	1	.2	.2	95.2
Jones Fork Silver Creek - level too low, lots of debris, remove trees and logs, couldn't fish.	1	.1	.1	95.4
Jones Fork Silver Creek - water level seemed really low.	2	.2	.2	95.6
No Response.	22	3.2	3.2	98.8
Section coming from Ice House up to Wench Creek-wasn't able to swim & fish water too low.	1	.1	.1	98.9
Silver Creek - Water was low, wasn't very pretty, didn't look natural.	1	.2	.2	99.1
Silver Creek really low - could not stream fish because water was so low.	1	.1	.1	99.2
Silver Creek, Gerle Creek - Water was a little low-made it difficult to fish.	1	.2	.2	99.4
South Rubicon River trail - fish trapped, no rushing water, could't enjoy scenery-conc'd about fish	1	.2	.2	99.5
Water level looks low in all streams - not very pretty.	2	.2	.2	99.8
Wench Creek Group/some water equipment wasn't used	2	.2	.2	100.0
Total	698	100.0	100.0	

17. To what extent did the amount of flow in the streams negatively affect the quality of the experience you had planned?

¹ None ² Minimal ³ Moderate ⁴ Significant ⁵ No Opinion
 (go to question 18) (go to question 18)

Extent negatively affecting quality of experience (streams)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid None	391	56.0	56.0	56.0
Minimal	11	1.6	1.6	57.6
Moderate	14	2.0	2.0	59.6
Significant	0	.0	.0	59.6
No Opinion	280	40.1	40.1	99.8
No response	2	.2	.2	100.0
Total	698	100.0	100.0	

If respondent selects “minimal, moderate or significant,” then ask:
 How did it affect the quality of your experience? (Record response verbatim)

How? _____

List of how (streams/quality)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	673	96.4	96.4	96.4
Could only fish in small pools, not worthwhile.	1	.1	.1	96.5
Couldn't fish - planned activity.	1	.1	.1	96.7
Didn't catch enough fish	1	.2	.2	96.8
Disappointing, could not sit by flowing water-it was brackish not attractive	1	.2	.2	97.0
Expected more water - prettier to look at.	2	.2	.2	97.2
Fishing holes are not as deep - hard on fish.	0	.0	.0	97.3
Hoped for more water while hiking by river.	1	.2	.2	97.4
Hurts Bread of fish	0	.0	.0	97.5
I couldn't swim.	1	.1	.1	97.6
Little more water.	0	.0	.0	97.6
Location-walk further to find water.	0	.0	.0	97.7
More water in streams makes a more worth while hike (scenic beauty).	2	.2	.2	97.9
No Response	8	1.2	1.2	99.1
No water in falls, made the hike pointless	2	.2	.2	99.3
Not many fish present-they need deeper pools	0	.0	.0	99.4
Poor fishing experience because water level was low.	1	.2	.2	99.5
Poor flow for trout fishing.	0	.0	.0	99.6
Streams were low, it made fishing difficult-but I went to the lakes.	1	.1	.1	99.7
Trash & beer cans in creek - opted not to fish.	1	.2	.2	99.9
Water was a little low in streams	1	.1	.1	100.0
Total	698	100.0	100.0	

18. Are there any recreational activities that you would like to do at the Crystal Basin that you are currently unable to participate in?

¹ YES ² NO ³ DON'T KNOW (*Check one*)

Are there activities you are unable to participate in?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	55	7.9	7.9	7.9
No	556	79.6	79.6	87.5
Don't Know	86	12.3	12.3	99.8
No response	2	.2	.2	100.0
Total	698	100.0	100.0	

If yes, what activities and why? (*Record response verbatim*)

What activities? _____

Why? _____

Coded list of activities

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Boating - don't have boat or no place to rent	12	1.8	23.0	23.0
Mountain biking - need trails or don't know where its allowe	1	.2	2.3	25.3
Horseshoes	6	.9	11.9	37.2
Quieter experience (w/o motorized vehicles)	3	.4	5.0	42.2
Longer hikes	0	.0	.4	42.6
Horseback riding - enjoy it	8	1.1	14.1	56.7
Dogs/Pet-based	1	.1	1.9	58.6
Other water based	4	.5	6.7	65.3
Other land based	17	2.4	30.7	96.0
Other	2	.3	4.0	100.0
Total	54	7.8	100.0	
Missing System	644	92.2		
Total	698	100.0		

19. Are there any changes or improvements that you would like to see at this facility (*this campground, boat launch or day use area*)?

²NO ¹YES ³DON'T KNOW (*Check one*)

Any change or improvements to facility?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	380	54.4	54.4	54.4
No	297	42.6	42.6	97.0
Don't Know	20	2.8	2.8	99.8
No response	1	.2	.2	100.0
Total	698	100.0	100.0	

If yes, what changes or improvements? (*Record response verbatim*)

Coded list of changes (MAX 3)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom or shower related	177	25.4	46.7	46.7
	Potable water related	42	6.1	11.1	57.8
	Other developed facility changes related	29	4.2	7.7	65.5
	Improve management services related	12	1.7	3.1	68.6
	RV related	17	2.4	4.5	73.1
	Boat launch related	24	3.5	6.4	79.5
	Trails related	5	.7	1.3	80.9
	More first-come, first-serve opportunities	2	.3	.6	81.4
	Fix or improve roads	4	.6	1.0	82.5
	Install food storage boxes	7	1.0	1.9	84.4
	Solve the bear problem	8	1.2	2.2	86.5
	More campgrounds or campsites	8	1.1	2.0	88.6
	More beaches	10	1.4	2.5	91.1
	Less powerboats	4	.6	1.1	92.2
	Less personal water crafts	4	.6	1.1	93.3
	Less OHVs	2	.2	.5	93.8
	Allow electric motors on Gerle Creek Reservoir	0	.0	.1	93.8
	Better signs along roadway	0	.0	.1	93.9
	Buoys or markers identifying hazards	4	.6	1.1	95.0
	Higher reservoir levels	2	.2	.5	95.4
	Stock more fish	1	.2	.4	95.8
	Bee traps	1	.1	.3	96.1
	Other	9	1.3	2.4	98.5
	No response	5	.7	1.2	99.7
	Unreadable response	1	.1	.3	100.0
	Total	379	54.3	100.0	
Missing	System	319	45.7		
Total		698	100.0		

Coded list of changes 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom or shower related	44	6.3	32.1	32.1
	Potable water related	23	3.2	16.5	48.6
	Other developed facility changes related	19	2.8	14.2	62.8
	Improve management services related	12	1.8	8.9	71.7
	RV related	3	.5	2.3	74.1
	Boat launch related	7	1.0	4.8	78.9
	Trails related	1	.1	.7	79.7
	Fix or improve roads	0	.0	.2	79.8
	Install food storage boxes	6	.9	4.4	84.2
	Solve the bear problem	2	.3	1.7	86.0
	More campgrounds or campsites	1	.2	.9	86.9
	More beaches	3	.4	2.0	88.9
	Less powerboats	2	.3	1.5	90.4
	Less personal water crafts	2	.3	1.6	91.9
	Better signs along roadway	1	.2	.8	92.7
	Stock more fish	1	.2	.8	93.5
	Other	9	1.3	6.5	100.0
	Total	137	19.6	100.0	
Missing	System	561	80.4		
Total		698	100.0		

Coded list of changes 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom or shower related	5	.7	12.1	12.1
	Potable water related	6	.8	13.0	25.1
	Other developed facility changes related	10	1.4	23.1	48.3
	Improve management services related	1	.2	3.1	51.3
	RV related	2	.3	4.9	56.2
	Boat launch related	1	.1	2.4	58.6
	Trails related	2	.3	4.6	63.2
	More first-come, first-serve opportunities	1	.1	2.4	65.6
	Install food storage boxes	3	.5	8.1	73.7
	Solve the bear problem	2	.2	4.0	77.8
	Less personal water crafts	1	.2	2.5	80.3
	Bee traps	1	.2	2.5	82.8
	Other	7	1.0	17.2	100.0
	Total	42	6.1	100.0	
Missing	System	656	93.9		
Total		698	100.0		

Drill down of "bathroom or shower related 1"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Shower	89	12.8	49.5	49.5
	Flush toilets	39	5.6	21.8	71.3
	Bathroom improvements	26	3.8	14.6	85.9
	More bathrooms	6	.8	3.2	89.1
	Floating bathrooms	2	.2	1.0	90.1
	Cleaner restrooms	17	2.5	9.7	99.8
	Other	0	.1	.2	100.0
	Total	180	25.8	100.0	
Missing	System	518	74.2		
Total		698	100.0		

Drill down of "bathroom or shower related 2"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Flush toilets	29	4.2	68.8	68.8
	Bathroom improvements	2	.3	5.4	74.2
	Cleaner restrooms	9	1.3	21.8	96.0
	Other	2	.2	4.0	100.0
	Total	43	6.1	100.0	
Missing	System	655	93.9		
Total		698	100.0		

Drill down of "bathroom or shower related 3"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom improvements	2	.2	50.0	50.0
	Cleaner restrooms	2	.2	50.0	100.0
	Total	3	.5	100.0	
Missing	System	695	99.5		
Total		698	100.0		

Drill down of "potable water related"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Provide potable water	18	2.6	25.9	25.9
	Potable water for dishes and hand washing	30	4.2	42.0	67.9
	Potable water to fill up RVs	3	.5	4.5	72.4
	Improve taste of water	2	.2	2.4	74.8
	Improve water pressure/availability	9	1.2	12.2	87.0
	Potable water at campsite	4	.5	5.1	92.1
	Do not add potable water	2	.2	2.4	94.5
	Other	4	.6	5.5	100.0
	Total	70	10.1	100.0	
Missing	System	628	89.9		
Total		698	100.0		

Drill down of "other developed facility changes 1"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More picnic tables	13	1.9	25.7	25.7
	bigger parking lot	9	1.3	17.9	43.6
	Other	29	4.1	56.4	100.0
	Total	51	7.4	100.0	
Missing	System	647	92.6		
Total		698	100.0		

Drill down of "other developed facility changes 2"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	bigger parking lot	1	.1	16.7	16.7
	Other	5	.7	83.3	100.0
	Total	6	.9	100.0	
Missing	System	692	99.1		
Total		698	100.0		

Drill down of "other developed facility changes 3"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	bigger parking lot	1	.1	100.0	100.0
Missing	System	697	99.9		
Total		698	100.0		

Drill down of "improve management services"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Enforce quiet hours	9	1.3	35.8	35.8
	Reduce litter	5	.8	21.6	57.4
	More trash removal	9	1.4	37.5	94.9
	Other	1	.2	5.1	100.0
	Total	25	3.6	100.0	
Missing	System	673	96.4		
Total		698	100.0		

Drill down of "RV related 1"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More access for larger RVS	13	1.8	60.9	60.9
	Hookups for RVs	5	.7	23.7	84.6
	Other	3	.5	15.4	100.0
	Total	21	3.0	100.0	
Missing	System	677	97.0		
Total		698	100.0		

Drill down of "RV related 2"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	1	.2	100.0	100.0
Missing	System	697	99.8		
Total		698	100.0		

Drill down of "boat launch related"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Launching improvements	23	3.3	73.0	73.0
	Other	9	1.2	27.0	100.0
	Total	32	4.6	100.0	
Missing	System	666	95.4		
Total		698	100.0		

Drill down of "trails related"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Increase/improve trails	8	1.1	100.0	100.0
Missing	System	690	98.9		
Total		698	100.0		

20. (Hand the respondent a card with one of 3 versions of this list.) From the settings listed on this card, please rate how important these settings are in your decision to visit the Crystal Basin? (Circle response. Confirm setting before recording response.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
A. MOUNTAIN/FORESTED AREA	1	2	3	4
B. NATURAL LAKES & PONDS	1	2	3	4
C. RESERVOIRS	1	2	3	4
D. RIVERS/STREAMS	1	2	3	4

Mountain/Forested area

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	5	.7	.7	.7
Somewhat important	14	2.0	2.0	2.6
Moderately important	76	10.9	10.9	13.5
Extremely important	603	86.4	86.4	99.9
No response	1	.1	.1	100.0
Total	698	100.0	100.0	

Natural Lakes & Ponds

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	24	3.4	3.4	3.4
Somewhat important	41	5.9	5.9	9.3
Moderately important	110	15.7	15.7	25.0
Extremely important	523	74.9	74.9	99.9
No response	1	.1	.1	100.0
Total	698	100.0	100.0	

Reservoirs

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	11	1.5	1.5	1.5
Somewhat important	51	7.3	7.3	8.8
Moderately important	106	15.2	15.2	24.0
Extremely important	530	75.9	75.9	99.9
No response	1	.1	.1	100.0
Total	698	100.0	100.0	

Rivers/Streams

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	35	5.1	5.1	5.1
	Somewhat important	79	11.3	11.3	16.4
	Moderately important	138	19.8	19.8	36.2
	Extremely important	444	63.6	63.6	99.9
	No response	1	.1	.1	100.0
	Total	698	100.0	100.0	

21. (Have the respondent turn to the backside of the card.) From the facilities and services listed on the card, please rate how important these facilities and services are in your decision to visit the Crystal Basin? (Circle response. Confirm facility or service before recording response.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
A. BOAT LAUNCH RAMPS	1	2	3	4
B. DEVELOPED CAMPGROUNDS	1	2	3	4
C. DEVELOPED SWIMMING/BEACH AREAS	1	2	3	4
D. NON-MOTORIZED TRAILS	1	2	3	4
E. OHV TRAILS	1	2	3	4
F. PICNIC FACILITIES	1	2	3	4
G. TWO-LANE PAVED ROAD ACCESS	1	2	3	4

Boat Launch Ramps

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	136	19.5	19.5	19.5
	Somewhat important	121	17.3	17.3	36.8
	Moderately important	133	19.1	19.1	55.9
	Extremely important	307	43.9	43.9	99.8
	No response	1	.2	.2	100.0
	Total	698	100.0	100.0	

Developed Campgrounds

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	53	7.5	7.5	7.5
	Somewhat important	75	10.7	10.7	18.3
	Moderately important	211	30.2	30.2	48.4
	Extremely important	357	51.2	51.2	99.6
	No response	3	.4	.4	100.0
	Total	698	100.0	100.0	

Developed Swimming/Beach Areas

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	149	21.3	21.3	21.3
	Somewhat important	146	20.9	20.9	42.2
	Moderately important	159	22.8	22.8	65.1
	Extremely important	242	34.6	34.6	99.7
	No response	2	.3	.3	100.0
	Total	698	100.0	100.0	

Non-motorized Trails

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	129	18.4	18.4	18.4
	Somewhat important	100	14.3	14.3	32.7
	Moderately important	231	33.1	33.1	65.8
	Extremely important	237	34.0	34.0	99.8
	No response	1	.2	.2	100.0
	Total	698	100.0	100.0	

OHV Trails

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	303	43.4	43.4	43.4
	Somewhat important	155	22.2	22.2	65.6
	Moderately important	73	10.4	10.4	76.1
	Extremely important	164	23.4	23.4	99.5
	No response	4	.5	.5	100.0
	Total	698	100.0	100.0	

Picnic Facilities

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	95	13.5	13.5	13.5
	Somewhat important	137	19.6	19.6	33.1
	Moderately important	220	31.5	31.5	64.7
	Extremely important	244	35.0	35.0	99.7
	No response	2	.3	.3	100.0
	Total	698	100.0	100.0	

Two-Laned Paved Road Access

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	60	8.6	8.6	8.6
	Somewhat important	93	13.3	13.3	21.9
	Moderately important	193	27.7	27.7	49.6
	Extremely important	350	50.2	50.2	99.8
	No response	1	.2	.2	100.0
	Total	698	100.0	100.0	

22. How likely or unlikely would you be to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist? (*Check one*)

¹VERY UNLIKELY

²UNLIKELY

³LIKELY

⁴VERY LIKELY

⁵DON'T KNOW

How likely or unlikely to come to CB

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very unlikely	217	31.1	31.1	31.1
	Unlikely	198	28.4	28.4	59.6
	Likely	170	24.4	24.4	83.9
	Very likely	100	14.3	14.3	98.3
	Don't know	10	1.5	1.5	99.7
	No response	2	.3	.3	100.0
	Total	698	100.0	100.0	

23. During this visit to the Crystal Basin, are there any activities that conflicted with your recreation activities?

a. Recreation activities? ¹ YES ² NO ¹ NO OPINION (*Check one*)

Recreation activities that conflicted with your recreation activities

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	99	14.1	14.1	14.1
No	589	84.4	84.4	98.5
No Opinion	9	1.3	1.3	99.9
No response	1	.1	.1	100.0
Total	698	100.0	100.0	

If yes, what were they and how did they affect you? (*Record response verbatim*)

What activities? _____

How conflicted? _____

What recreation activities conflicted with your recreation activities (MAX 2)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Motor boating related	19	2.7	19.0	19.0
OHV - too loud, disruption of peace	16	2.3	16.1	35.1
PWC - nosiy and disruptive	19	2.7	19.0	54.0
Gunshots or fireworks - noisy, dangerous, made nervous	9	1.3	9.4	63.5
Swimmers - disrupts fishing, boat hazard	1	.1	1.0	64.5
Rowdy people - noisy, disruptive of peace	27	3.9	27.9	92.3
Other	7	.9	6.6	99.0
No response	1	.1	1.0	100.0
Total	99	14.1	100.0	
Missing System	599	85.9		
Total	698	100.0		

Drill down of "motor boating"

	Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	noisy	9	1.3	47.5	47.5
	wake	6	.8	30.3	77.8
	Other	4	.6	22.2	100.0
	Total	19	2.7	100.0	
Missing	System	679	97.3		
Total		698	100.0		

What recreation activities conflicted with your recreation activities 2

	Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	OHV - too loud, disruption of peace	0	.0	1.1	1.1
	PWC - nosiy and disruptive	8	1.1	36.4	37.5
	Gunshots or fireworks - noisy, dangerous, made nervous	2	.3	9.3	46.8
	Swimmers - disrupts fishing, boat hazard	1	.2	6.2	53.0
	Rowdy people - noisy, disruptive of peace	9	1.3	41.9	94.9
	Other	1	.2	5.1	100.0
	Total	21	3.0	100.0	
Missing	System	677	97.0		
Total		698	100.0		

b. Non-recreation activities? NO YES NO OPINION (Check one)

Non-recreation activities that conflicted with your recreation activities

	Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	Yes	21	3.0	3.0	3.0
	No	662	94.9	94.9	97.9
	No Opinion	10	1.5	1.5	99.4
	No response	4	.6	.6	100.0
Total		698	100.0	100.0	

If yes, what were they and how did they affect you? (Record response verbatim)

What activities? _____

How conflicted? _____

List of non-recreation activities that conflicted with your recreation activities

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	677	97.0	97.0	97.0
Bears - camped at Sunset to get away from them.	2	.2	.2	97.2
Bears - could not sleep; afraid	1	.2	.2	97.4
Bears - safety issue	1	.2	.2	97.5
Bears	1	.2	.2	97.7
Bees - put bee traps in trees at campsites	1	.2	.2	97.8
Campground host not needed/stated CG resv. but was	2	.2	.2	98.1
Construction Noise	0	.0	.0	98.1
Construction of a bridge over GC - trail closed.	0	.0	.0	98.1
Fire danger - didn't go dispersed camping.	2	.2	.2	98.4
Gravel pit - eyesore	1	.1	.1	98.5
Hunting - sound is disturbing.	1	.1	.1	98.7
Intruders during camping (w/rifle)	2	.2	.2	98.9
Logging	0	.1	.1	99.0
Logging trucks early in morning-noise.	2	.2	.2	99.2
Roads blocked - denied access	1	.2	.2	99.4
St. Pauli fire on Hwy 50 cut stay in 1/2	1	.2	.2	99.5
Trucks hauling gravel down Ice House Rd - going too fast - making driving dangerous.	0	.0	.0	99.6
Wentworth Springs Rd construction - too rough & dusty	1	.2	.2	99.7
Workmen working on road to Angel Creek - noise during day.	0	.0	.0	99.8
YJCG water system shut down at night - bathrooms closed.	2	.2	.2	100.0
Total	698	100.0	100.0	

24. During this visit to the Crystal Basin, are there any activities that you observed that you feel may cause harm to the environment?

a. Recreation activities? ¹ YES ² NO ³ NO OPINION (*Check one*)

Recreation activities causing harm to the environment

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	158	22.7	22.7	22.7
No	521	74.6	74.6	97.3
No Opinion	17	2.4	2.4	99.7
No response	2	.3	.3	100.0
Total	698	100.0	100.0	

If yes, what were they and what was their affect? (*Record response verbatim*)

What activities? _____

How harmed? _____

What recreation activities caused harm to the environment (MAX 2)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid OHVs - degrades forest, erosion, air pollution	25	3.5	15.5	15.5
Personal water craft - water and air pollution	21	2.9	13.0	28.5
Power boats - water and air pollution	19	2.7	11.7	40.2
Fireworks - forest fire hazard	7	1.0	4.2	44.4
Visitors leaving trash behind	46	6.5	28.9	73.3
Gun shooting - dangerous	8	1.2	5.2	78.4
Campfires outside of developed campgrounds	6	.8	3.5	81.9
Hunters-killing wildlife	3	.4	1.9	83.8
Campfires too big or left burning-forest fire hazard	10	1.5	6.4	90.3
Cutting or chopping trees	7	1.0	4.6	94.8
Other	8	1.2	5.2	100.0
Total	158	22.7	100.0	
Missing System	540	77.3		
Total	698	100.0		

What recreation activities caused harm to the environment 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Personal water craft - water and air pollution	2	.3	7.6	7.6
	Power boats - water and air pollution	7	1.0	28.5	36.1
	Visitors leaving trash behind	6	.9	24.6	60.7
	Gun shooting - dangerous	3	.5	12.6	73.4
	Campfires outside of developed campgrounds	1	.1	4.0	77.3
	Hunters-killing wildlife	1	.1	4.0	81.3
	Cutting or chopping trees	1	.1	4.0	85.3
	Other	4	.5	14.7	100.0
	Total	25	3.6	100.0	
Missing	System	673	96.4		
Total		698	100.0		

b. Non-recreation activities? NO YES NO OPINION (Check one)

Non-recreation activities causing harm to the environment

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	22	3.2	3.2	3.2
	No	652	93.4	93.4	96.6
	No Opinion	17	2.4	2.4	99.0
	No response	7	1.0	1.0	100.0
	Total	698	100.0	100.0	

If yes, what were they and what was their affect? (Record response verbatim)

What activities? _____

How harmed? _____

List of non-recreation activities causing harm to the environment

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	676	96.8	96.8	96.8
Bears - destroy property	1	.2	.2	97.0
Building of a bridge over GC feels like a highway.	0	.0	.0	97.0
Chain saw cutting trees - smoke	2	.2	.2	97.3
Clear cutting-ruins natural appearance	2	.2	.2	97.5
Clear cutting - erosion	0	.0	.0	97.5
Deforestation - logging of trees	1	.2	.2	97.7
Dogs defecate on trail - some trash in areas	1	.2	.2	97.8
Dogs off leaches - disrupt people.	0	.0	.0	97.9
Food carelessness - bears	1	.2	.2	98.0
Logging-clear cutting causing erosion	1	.1	.1	98.2
Logging - dusty, fire hazard-the piles	2	.2	.2	98.4
Logging - noticeable	0	.0	.0	98.5
Logging	1	.1	.1	98.6
Logging of trees ruined the natural appearance of the environment	1	.2	.2	98.8
Off-trail hikers dragging coolers	2	.2	.2	99.0
Overheard someone talking about killing snakes	1	.2	.2	99.2
Quarry-disrupts regular environment	0	.0	.0	99.2
Roads - Holes	1	.1	.1	99.3
Sign screwed into tree-trapped fish in Rubicon River	1	.2	.2	99.5
Smoking - fire hazard	1	.2	.2	99.6
Too many improvements/takes away the naturalizatio	0	.0	.0	99.7
Trash/Logging - Pollution/Slashing	0	.0	.0	99.7
Tree beetles, the fire (of course) killing trees in campground-then the trees are not replaced.	1	.1	.1	99.8
Yellowing fo the pine trees unsightly - could it be because of pollution?	1	.2	.2	100.0
Total	698	100.0	100.0	

25. Please indicate which of the following statements best describes how crowded you feel at this facility? (Check one)

- ¹Not at all crowded
 ²Slightly crowded
 ³moderately crowded
 ⁴extremely crowded
 ⁵don't know

Described how crowded you feel (facility)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all crowded	342	49.0	49.0	49.0
Slightly crowded	187	26.7	26.7	75.7
Moderately crowded	124	17.7	17.7	93.4
Extremely crowded	46	6.5	6.5	99.9
Don't know	0	.1	.1	100.0
Total	698	100.0	100.0	

26. Did you bring a boat, jet ski, or other type of water craft with you on this visit? (Check one)

- ¹YES (continue to question 26A&B)
 ²NO (go to question 27)

Did you bring watercraft?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	406	58.2	58.2	58.2
no	286	40.9	40.9	99.1
No response	6	.9	.9	100.0
Total	698	100.0	100.0	

A. Please indicate which reservoir you have spent most of your time at with your boat, jet ski, or other type of water craft.

- ¹GERLE CREEK
 ²ICE HOUSE
 ³LOON LAKE
 ⁴UNION VALLEY
 ⁵OTHER: _____ (Specify)

Which reservoir on the most?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Gerle Creek	12	1.8	3.0	3.0
	Ice House	86	12.3	21.2	24.3
	Loon Lake	106	15.1	26.0	50.3
	Union Valley	195	27.9	47.9	98.2
	Other	2	.3	.5	98.7
	No response	3	.5	.8	99.6
	Unreadable response	2	.2	.4	100.0
	Total	406	58.2	100.0	
Missing	System	292	41.8		
Total		698	100.0		

B. Please indicate which of the following statements best describes how crowded you feel when you are on the surface of this reservoir in your boat or jet ski or other type of water craft. (*Check one*)

- ¹NOT AT ALL CROWDED
 ²SLIGHTLY CROWDED
 ³MODERATELY CROWDED
 ⁴EXTREMELY CROWDED
 ⁵DON'T KNOW

Describe how crowded (reservoir)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all crowded	293	42.0	72.3	72.3
	Slightly crowded	74	10.6	18.3	90.6
	Moderately crowded	19	2.7	4.6	95.2
	Extremely crowded	2	.3	.5	95.7
	Don't know	15	2.2	3.7	99.4
	No response	2	.3	.6	100.0
	Total	406	58.2	100.0	
Missing	System	292	41.8		
Total		698	100.0		

27. Please tell me about access to information by responding “adequate,” “inadequate” or “never looked for information”? (*Read list and record response*) If “inadequate”, please describe any suggestions for improvement?

If “inadequate,” ask for and record suggested improvements.

- A. Campsite availability
 ¹Adequate
 ²Inadequate
 ³Never looked for information

B. Campfire restrictions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
	¹ Adequate	² Inadequate	³ Never looked for information	
C. Reservoir levels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
	¹ Adequate	² Inadequate	³ Never looked for information	
D. Wilderness permits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
	¹ Adequate	² Inadequate	³ Never looked for information	
E. Trail locations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
	¹ Adequate	² Inadequate	³ Never looked for information	
F. Stream flow rates &/or depths	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
	¹ Adequate	² Inadequate	³ Never looked for information	
G. Environmental or educational displays	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
	¹ Adequate	² Inadequate	³ Never looked for information	
H. Information regarding fish stocking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
	¹ Adequate	² Inadequate	³ Never looked for information	
I. Other (<i>Please specify</i>):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
	¹ Adequate	² Inadequate	³ Never looked for information	

Info on campsite availability

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	415	59.5	59.5	59.5
inadequate	75	10.8	10.8	70.3
never looked for it	198	28.3	28.3	98.7
No response	9	1.3	1.3	100.0
Total	698	100.0	100.0	

Suggestions (campsite availability)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	26	3.7	34.6	34.6
	Post at facilities	2	.3	2.8	37.5
	Improve signs to clearly show what is available	1	.2	1.4	38.9
	Provide more campgrounds	4	.6	6.0	44.8
	Provide more first-come, first-serve	4	.6	5.6	50.4
	Provide more information	11	1.6	14.6	65.0
	Other	10	1.4	13.1	78.1
	No response	16	2.4	21.9	100.0
	Total	75	10.8	100.0	
	Missing	System	623	89.2	
Total		698	100.0		

Info on campfire restrictions

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	465	66.6	66.6	66.6
	inadequate	40	5.8	5.8	72.4
	never looked for it	183	26.3	26.3	98.7
	No response	9	1.3	1.3	100.0
	Total	698	100.0	100.0	

Suggestions (campfire restrictions)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	3	.4	7.3	7.3
	Post at facilities	11	1.6	28.2	35.6
	Post on map or brochure	1	.2	2.7	38.2
	Post in newspaper	3	.4	6.9	45.2
	Be more specific about where fires are/are not permitted	2	.3	5.2	50.3
	Other	4	.6	9.6	59.9
	No response	16	2.3	40.1	100.0
	Total	40	5.8	100.0	
	Missing	System	658	94.2	
Total		698	100.0		

Info on reservoir levels

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	323	46.3	46.3	46.3
	inadequate	76	10.9	10.9	57.1
	never looked for it	290	41.5	41.5	98.7
	No response	9	1.3	1.3	100.0
	Total	698	100.0	100.0	

Suggestions (reservoir levels)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	24	3.5	31.8	31.8
	Post at facilities	9	1.3	11.6	43.4
	Post in newspaper	3	.4	3.7	47.1
	Other	5	.7	6.8	53.9
	No response	35	5.0	46.1	100.0
	Total	76	10.9	100.0	
Missing	System	622	89.1		
	Total	698	100.0		

Info on wilderness permits

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	197	28.3	28.3	28.3
	inadequate	32	4.6	4.6	32.9
	never looked for it	459	65.8	65.8	98.7
	No response	9	1.3	1.3	100.0
	Total	698	100.0	100.0	

Suggestions (wilderness permits)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Post at facilities	5	.8	16.6	16.6
	Other	1	.2	4.1	20.7
	No response	25	3.6	79.3	100.0
	Total	32	4.6	100.0	
Missing	System	666	95.4		
	Total	698	100.0		

Info on trail locations

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	295	42.3	42.3	42.3
	inadequate	78	11.2	11.2	53.5
	never looked for it	315	45.1	45.1	98.7
	No response	9	1.3	1.3	100.0
	Total	698	100.0	100.0	

Suggestions (trail locations)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	5	.7	6.2	6.2
	Post at facilities	7	1.0	9.0	15.3
	Post on map or brochure	5	.7	6.3	21.6
	Improve description of trails	3	.5	4.0	25.7
	Provide more trail signs	7	1.0	8.8	34.5
	Other	2	.3	2.5	36.9
	No response	49	7.1	63.1	100.0
	Total	78	11.2	100.0	
Missing	System	620	88.8		
Total		698	100.0		

Info on stream flow rate &/or depths

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	156	22.4	22.4	22.4
	inadequate	63	9.1	9.1	31.4
	never looked for it	465	66.6	66.6	98.1
	No response	13	1.9	1.9	100.0
	Total	698	100.0	100.0	

Suggestions (stream flow rate)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	7	1.0	11.1	11.1
	Post at facilities	4	.5	5.7	16.8
	Post in newspaper	2	.2	2.7	19.5
	Other	3	.4	4.0	23.5
	No response	48	6.9	76.5	100.0
	Total	63	9.1	100.0	
Missing	System	635	90.9		
Total		698	100.0		

Info on environmental or educational displays

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	227	32.5	32.5	32.5
	inadequate	66	9.5	9.5	42.0
	never looked for it	395	56.5	56.5	98.5
	No response	10	1.5	1.5	100.0
	Total	698	100.0	100.0	

Suggestions (displays)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	5	.7	7.8	7.8
	Post at facilities	2	.3	2.9	10.7
	Post on map or brochure	1	.2	1.6	12.3
	Provide more displays	14	2.1	21.8	34.2
	Other	1	.2	2.0	36.1
	No response	42	6.0	63.9	100.0
	Total	66	9.5	100.0	
Missing	System	632	90.5		
Total		698	100.0		

Info on fish stocking

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	174	24.9	24.9	24.9
	inadequate	79	11.3	11.3	36.2
	never looked for it	434	62.2	62.2	98.4
	No response	11	1.6	1.6	100.0
	Total	698	100.0	100.0	

Suggestions (fish stocking)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	6	.9	7.9	7.9
	Post at facilities	22	3.2	28.0	35.9
	Post in newspaper	3	.4	3.8	39.8
	Other	9	1.2	10.9	50.7
	No response	39	5.6	49.3	100.0
	Total	79	11.3	100.0	
Missing	System	619	88.7		
Total		698	100.0		

28. (Open the Crystal Basin Recreation Area map, hand it to respondent, show them where they are, and ask:

What other areas have you visited or plan to visit during your stay at the Crystal Basin, and what is the primary activity you did or will do there? (Circle 'V' for 'have visited' and 'P' for 'plan to visit'. If area is not listed, record up to three responses at the end of the General Area column. Record the primary activity using the numbers from the code list. Tell respondent they can keep the map as a thank you.)

Check here if respondent plans to stay only at current locations on this visit. ^{AA}

Visited	Planned	General Area	Specific Location	Primary Activity	Primary Activity Code List
V	P	A. Ice House Reservoir			(1) Backpacking (2) Bicycling (3) Canoeing/Kayaking (4) Fishing (Lake or Reservoir) (5) Fishing (Stream or River) (6) Hiking/Walking (7) Hunting (8) OHV Use (9) Picnicking (10) Photography (11) Power Boating (12) PWC Use (Jet Ski) (13) Sail Boating (14) Swimming (15) Visiting Cultural/Historic Sites (16) Wildlife Viewing (17) Other _____ (Specify)
V	P	B. Union Valley Reservoir			
V	P	C. Gerle Creek Reservoir			
V	P	D. Loon Lake Reservoir			
V	P	E. Wrights Lake			
V	P	F. Rubicon Jeep Trail / Wentworth Springs Road			
V	P	G. Gerle Creek below Loon Lake Dam			
V	P				
V	P				
V	P				

Other areas visited during stay (MAX 5)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Stay at current location	431	61.8	61.8	61.8
	Ice House Reservoir	84	12.1	12.1	73.9
	Union Valley Reservoir	59	8.4	8.4	82.3
	Gerle Creek Reservoir	27	3.9	3.9	86.1
	Loon Lake Reservoir	41	5.8	5.8	91.9
	Wright's Lake	11	1.6	1.6	93.5
	Rubicon Jeep Trail/Wentworth Springs Rd.	12	1.7	1.7	95.3
	Gerle Creek below Loon Lake Dam	3	.5	.5	95.7
	Other non-Project streams	4	.6	.6	96.3
	Spider Lake	2	.3	.3	96.7
	Rubicon Reservoir	1	.2	.2	96.8
	Rubicon hiking trail to Spider Lake	1	.2	.2	97.0
	Rubicon hiking trail to Buck Island Reservoir	1	.2	.2	97.1
	Big Hill Lookout	1	.2	.2	97.3
	Bunker Hill Lookout	2	.2	.2	97.5
	Robbs Resort	6	.9	.9	98.4
	Ice House Resort	2	.2	.2	98.6
	End of 13N77 (near Dear Creek)	0	.0	.0	98.7
	Rubicon Hiking Trail	2	.3	.3	99.0
	Bassi Falls	3	.4	.4	99.4
	Crystal Basin Information Station	2	.2	.2	99.6
	Robbs Hut	0	.0	.0	99.7
	Other	2	.3	.3	100.0
	Total	698	100.0	100.0	

Primary Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	5	.8	2.0	2.0
	Bicycling	5	.6	1.7	3.7
	Canoeing/Kayaking	10	1.5	3.8	7.5
	Fishing (Lake or Reservoir)	68	9.8	25.5	33.1
	Fishing (Stream or River)	3	.5	1.3	34.4
	Hiking/Walking	37	5.4	14.0	48.3
	Hunting	2	.3	.8	49.1
	OHV Use	17	2.5	6.4	55.6
	Picnicking	21	3.0	7.9	63.5
	Photography	2	.3	.9	64.4
	Power Boating	18	2.6	6.6	71.0
	Sail Boating	1	.1	.4	71.4
	Swimming	22	3.2	8.3	79.7
	Wildlife Viewing	3	.4	1.1	80.8
	Other	47	6.7	17.5	98.3
	No response	4	.6	1.7	100.0
	Total	268	38.4	100.0	
Missing	System	430	61.6		
Total		698	100.0		

Primary Activity (other)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		651	93.3	93.3	93.3
	1st choice to camp.	2	.2	.2	93.5
	Camping.	1	.2	.2	93.7
	Checking Out Sites.	0	.0	.0	93.8
	Firewood.	0	.0	.0	93.8
	Get information.	2	.2	.2	94.0
	Getting Water.	0	.0	.0	94.1
	Horseback Riding.	1	.2	.2	94.2
	Karoke	1	.2	.2	94.4
	Looking for campsite.	5	.7	.7	95.1
	Looking for fire.	2	.2	.2	95.3
	Observation.	11	1.6	1.6	96.9
	Shower	1	.1	.1	97.1
	Shower & Beer.	0	.0	.0	97.1
	Sightseeing.	15	2.1	2.1	99.2
	Supplies.	5	.8	.8	100.0
	Total	698	100.0	100.0	

Other areas visited during stay 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	29	4.1	20.4	20.4
	Gerle Creek Reservoir	21	3.0	14.7	35.1
	Loon Lake Reservoir	32	4.6	22.7	57.9
	Wright's Lake	16	2.2	11.1	69.0
	Rubicon Jeep Trail/Wentworth Springs Rd.	11	1.6	7.9	76.9
	Gerle Creek below Loon Lake Dam	4	.6	2.9	79.8
	Other non-Project streams	4	.6	3.0	82.8
	Spider Lake	4	.6	3.1	85.9
	Big Hill Lookout	1	.2	.9	86.8
	McKinstry Lake	1	.2	.8	87.5
	Rubicon River	0	.0	.2	87.7
	Robbs Resort	6	.9	4.2	91.9
	Ice House Resort	2	.2	1.2	93.2
	Bassi Falls	3	.5	2.4	95.6
	Crystal Basin Information Station	2	.2	1.2	96.8
	Robbs Hut	0	.0	.2	97.0
	Other	4	.6	3.0	100.0
	Total	140	20.1	100.0	
Missing	System	558	79.9		
Total		698	100.0		

Primary Activity 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	.2	.9	.9
	Bicycling	7	1.0	4.7	5.7
	Canoeing/Kayaking	7	1.0	5.0	10.7
	Fishing (Lake or Reservoir)	33	4.8	23.7	34.4
	Fishing (Stream or River)	4	.5	2.5	36.9
	Hiking/Walking	16	2.2	11.1	48.0
	OHV Use	11	1.6	7.8	55.7
	Picnicking	7	.9	4.7	60.4
	Photography	0	.0	.2	60.6
	Power Boating	10	1.4	6.9	67.4
	Swimming	10	1.4	7.1	74.6
	Visiting Cultural/Historic Sites	1	.2	1.0	75.6
	Wildlife Viewing	3	.4	2.1	77.7
	Other	28	4.0	19.7	97.4
	No response	3	.4	1.8	99.2
	Unreadable response	1	.2	.8	100.0
	Total	140	20.1	100.0	
Missing	System	558	79.9		
Total		698	100.0		

Primary Activity (other) 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		670	96.0	96.0	96.0
	Camping.	0	.0	.0	96.1
	Checking out sites.	0	.0	.0	96.1
	Get information.	2	.2	.2	96.3
	Gold Panning.	0	.0	.0	96.4
	Information.	2	.2	.2	96.6
	No Response.	0	.0	.0	96.7
	Observation.	5	.7	.7	97.4
	Scout it out.	1	.2	.2	97.5
	Showers.	1	.2	.2	97.7
	Sightseeing	2	.2	.2	97.9
	Sightseeing.	10	1.5	1.5	99.4
	Supplies.	4	.5	.5	99.9
	To get ice.	0	.0	.0	100.0
	Wood Hunting.	0	.0	.0	100.0
	Total	698	100.0	100.0	

Other areas visited during stay 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	2	.3	4.1	4.1
	Gerle Creek Reservoir	3	.4	6.3	10.4
	Loon Lake Reservoir	4	.6	9.4	19.7
	Wright's Lake	5	.8	11.4	31.1
	Rubicon Jeep Trail/Wentworth Springs Rd.	6	.9	12.9	43.9
	Gerle Creek below Loon Lake Dam	1	.1	1.9	45.8
	Other non-Project streams	7	.9	13.8	59.6
	Spider Lake	1	.2	2.2	61.9
	Shadow Lake	1	.2	2.2	64.1
	Big Hill Lookout	0	.0	.5	64.6
	Wentworth Springs	0	.0	.5	65.1
	Robbs Resort	2	.3	4.1	69.1
	Ice House Resort	3	.5	7.2	76.3
	Robbs Hut	3	.4	6.3	82.6
	Other	8	1.2	17.4	100.0
	Total	48	6.8	100.0	
Missing	System	650	93.2		
Total		698	100.0		

Primary Activity 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	3	.4	6.3	6.3
	Bicycling	0	.0	.5	6.8
	Canoeing/Kayaking	3	.4	6.2	13.0
	Fishing (Lake or Reservoir)	7	.9	13.8	26.7
	Fishing (Stream or River)	2	.3	4.1	30.9
	Hiking/Walking	5	.8	11.0	41.9
	OHV Use	8	1.2	17.0	58.9
	Picnicking	2	.2	3.6	62.5
	Swimming	0	.1	.9	63.4
	Visiting Cultural/Historic Sites	0	.0	.5	63.9
	Other	15	2.2	31.8	95.8
	No response	2	.3	4.2	100.0
	Total	48	6.8	100.0	
Missing	System	650	93.2		
Total		698	100.0		

Primary Activity (other) 3

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	683	97.8	97.8	97.8
Camping.	0	.0	.0	97.9
Checking out sites.	0	.0	.0	97.9
Observation.	3	.4	.4	98.3
Shower.	0	.0	.0	98.3
Sightseeing.	6	.9	.9	99.2
Supplies.	5	.7	.7	100.0
Wood Hunting.	0	.0	.0	100.0
Total	698	100.0	100.0	

Other areas visited during stay 4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Union Valley Reservoir	0	.0	2.6	2.6
Loon Lake Reservoir	1	.2	12.4	15.0
Wright's Lake	1	.2	12.4	27.5
Gerle Creek below Loon Lake Dam	1	.2	16.9	44.4
Spider Lake	0	.0	2.6	47.0
Rubicon Reservoir	2	.3	22.5	69.4
Bunker Hill Lookout	1	.1	7.8	77.2
McKinstry Lake	1	.2	12.4	89.6
Robbs Resort	0	.1	5.2	94.8
Other	0	.1	5.2	100.0
Total	9	1.2	100.0	
Missing				
System	689	98.8		
Total	698	100.0		

Primary Activity 4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Hiking/Walking	2	.3	24.2	24.2
OHV Use	3	.4	32.8	57.0
Swimming	0	.0	2.6	59.6
Other	2	.3	28.0	87.6
No response	1	.2	12.4	100.0
Total	9	1.2	100.0	
Missing				
System	689	98.8		
Total	698	100.0		

Primary Activity (other) 4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	696	99.7	99.7	99.7
Camping.	0	.0	.0	99.7
Checking out sites.	0	.0	.0	99.7
Showers & Drinking.	0	.0	.0	99.8
Sightseeing.	2	.2	.2	100.0
Wood Hunting.	0	.0	.0	100.0
Total	698	100.0	100.0	

Other areas visited during stay 5

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Wright's Lake	1	.2	61.6	61.6
Spider Lake	0	.0	12.8	74.4
Robbs Resort	0	.1	25.6	100.0
Total	2	.2	100.0	
Missing				
System	696	99.8		
Total	698	100.0		

Primary Activity 5

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Hiking/Walking	1	.2	61.6	61.6
OHV Use	0	.0	12.8	74.4
Other	0	.0	12.8	87.2
No response	0	.0	12.8	100.0
Total	2	.2	100.0	
Missing				
System	696	99.8		
Total	698	100.0		

Primary Activity (other) 5

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	698	100.0	100.0	100.0
Showers	0	.0	.0	100.0
Total	698	100.0	100.0	

If the respondent has identified an activity as fishing in question 8 or 28, then ask:

a. Did the quality of the fishing attract you to (record general area and circle response):

GENERAL AREA (RECORD)	YES	NO
A.	1	2
B.	1	2

Quality of fishing attract (general area A)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	202	28.9	47.0	47.0
no	228	32.6	53.0	100.0
Total	430	61.5	100.0	
Missing System	268	38.5		
Total	698	100.0		

Coded general area A

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Ice House Reservoir	106	15.2	24.7	24.7
Union Valley Reservoir	187	26.9	43.6	68.4
Gerle Creek Reservoir	15	2.1	3.5	71.8
Loon Lake Reservoir	118	16.9	27.5	99.3
Gerle Creek below Loon Lake Dam	2	.3	.5	99.8
Unreadable response	1	.1	.2	100.0
Total	430	61.5	100.0	
Missing System	268	38.5		
Total	698	100.0		

Quality of fishing attract (general area B)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	27	3.9	51.8	51.8
no	24	3.5	46.2	98.1
No response	1	.1	1.9	100.0
Total	52	7.5	100.0	
Missing System	646	92.5		
Total	698	100.0		

Coded general area B

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	5	.7	8.9	8.9
	Union Valley Reservoir	10	1.4	18.9	27.8
	Gerle Creek Reservoir	9	1.2	16.6	44.4
	Loon Lake Reservoir	18	2.6	34.6	79.0
	Gerle Creek below Loon Lake Dam	1	.1	1.3	80.3
	South Fork Rubicon River below Robbs Forebay	2	.2	3.3	83.5
	Other Project Reservoir or stream	2	.3	4.0	87.5
	Other non-Project Reservoirs or streams	6	.9	12.1	99.6
	Unreadable response	0	.0	.4	100.0
	Total	52	7.5	100.0	
	Missing	System	646	92.5	
Total		698	100.0		

If the respondent has identified an activity as fishing in question 8 or has identified fishing as a primary activity in question 28 and “visited” the general area, then ask:

- b.** Please rate the quality of your fishing experience at (*record general area and circle response*):

GENERAL AREA (<i>RECORD</i>)	POOR	FAIR	GOOD	EXCELLENT	N/A
A.	1	2	3	4	5
B.	1	2	3	4	5

Quality of fishing (general area A)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	89	12.8	21.5	21.5
	Fair	114	16.4	27.6	49.2
	Good	88	12.6	21.3	70.5
	Excellent	49	7.1	12.0	82.4
	n/a	72	10.3	17.3	99.7
	No response	1	.2	.3	100.0
	Total	414	59.3	100.0	
Missing	System	284	40.7		
Total		698	100.0		

Coded general area A

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	106	15.2	25.7	25.7
	Union Valley Reservoir	174	25.0	42.2	67.8
	Gerle Creek Reservoir	14	2.0	3.3	71.1
	Loon Lake Reservoir	116	16.7	28.1	99.3
	Gerle Creek below Loon Lake Dam	2	.3	.5	99.7
	Unreadable response	1	.2	.3	100.0
	Total	414	59.3	100.0	
	Missing System	284	40.7		
Total	698	100.0			

Quality of fishing (general area B)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	4	.6	10.4	10.4
	Fair	22	3.2	53.6	63.9
	Good	3	.5	7.8	71.7
	Excellent	5	.8	12.6	84.3
	n/a	7	.9	15.7	100.0
	Total	42	6.0	100.0	
Missing System	656	94.0			
Total	698	100.0			

Coded general area B

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	2	.3	5.4	5.4
	Union Valley Reservoir	8	1.1	18.9	24.3
	Gerle Creek Reservoir	6	.9	15.2	39.6
	Loon Lake Reservoir	17	2.4	40.2	79.8
	South Fork Rubicon River below Robbs Forebay	2	.2	4.1	83.9
	Other Project Reservoir or stream	2	.3	5.0	88.9
	Other non-Project Reservoirs or streams	5	.7	11.1	100.0
	Total	42	6.0	100.0	
Missing System	656	94.0			
Total	698	100.0			

Appendix C.1.4 Frequencies by Reservoir

This compilation presents the results of approximately 700 personal interviews conducted at campgrounds, day use areas, and boat launch facilities located adjacent to or near the UARP's four primary reservoirs during the summer of 2002. This document builds upon the results presented in Appendix C.1.2, in that the results presented here are sorted "by reservoir." IHR = Ice House Reservoir, UVR = Union Valley Reservoir, GCR = Gerle Creek Reservoir, and LLR = Loon Lake Reservoir.

Facility ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Ice House	62	37.1	37.1	37.1
Northwind	7	4.2	4.2	41.3
Strawberry	8	4.8	4.8	46.1
Ice House Boat Launch	71	42.5	42.5	88.6
Ice House Picnic	19	11.4	11.4	100.0
Total	167	100.0	100.0	

Facility ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Azalea Cove/Lone Rock	2	1.2	1.2	1.2
Big Silver Group	2	1.2	1.2	2.3
Camino Cove	9	5.3	5.3	7.6
Jones Fork	6	3.5	3.5	11.1
Sunset	39	22.8	22.8	33.9
Wench Creek Family	20	11.7	11.7	45.6
Wench Creek Group	6	3.5	3.5	49.1
Westpoint	3	1.8	1.8	50.9
Wolf Creek	6	3.5	3.5	54.4
Yellowjacket	11	6.4	6.4	60.8
West Point Boat Launch	28	16.4	16.4	77.2
Sunset Boat Launch	34	19.9	19.9	97.1
Yellowjacket Boat Launch	5	2.9	2.9	100.0
Total	171	100.0	100.0	

Facility ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Airport Flat	43	24.6	24.6	24.6
Gerle Creek	103	58.9	58.9	83.4
Gerle/Angel Picnic	29	16.6	16.6	100.0
Total	175	100.0	100.0	

Facility ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Red Fir Group	1	.5	.5	.5
Loon Lake/Equestrian Chalet	29	15.8	15.8	16.3
Loon Lake Group	2	1.1	1.1	17.4
Loon Lake Equestrian Group	4	2.2	2.2	19.6
Northshore	1	.5	.5	20.1
Pleasant	10	5.4	5.4	25.5
Loon Lake Boat Launch	1	.5	.5	26.1
Total	136	73.9	73.9	100.0
	184	100.0	100.0	

Gender ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Male	98	58.7	58.7	58.7
Female	61	36.5	36.5	95.2
No response	8	4.8	4.8	100.0
Total	167	100.0	100.0	

Gender ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Male	97	56.7	56.7	56.7
Female	67	39.2	39.2	95.9
No response	7	4.1	4.1	100.0
Total	171	100.0	100.0	

GENDER ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Male	96	54.9	54.9	54.9
Female	74	42.3	42.3	97.1
No response	5	2.9	2.9	100.0
Total	175	100.0	100.0	

Gender ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	110	59.8	59.8	59.8
	Female	67	36.4	36.4	96.2
	No response	7	3.8	3.8	100.0
	Total	184	100.0	100.0	

Zip County (final) ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	El Dorado County	35	21.0	21.0	21.0
	Sacramento County	76	45.5	45.5	66.5
	Placer County	8	4.8	4.8	71.3
	Yolo County	6	3.6	3.6	74.9
	Bay Area	25	15.0	15.0	89.8
	Northern CA	2	1.2	1.2	91.0
	Coast	2	1.2	1.2	92.2
	Central Valley	8	4.8	4.8	97.0
	Southern CA	1	.6	.6	97.6
	Out of State	2	1.2	1.2	98.8
	No response	1	.6	.6	99.4
	Unreadable response	1	.6	.6	100.0
	Total	167	100.0	100.0	

Zip County (final) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	El Dorado County	51	29.8	29.8	29.8
	Sacramento County	65	38.0	38.0	67.8
	Placer County	4	2.3	2.3	70.2
	Yolo County	5	2.9	2.9	73.1
	Bay Area	27	15.8	15.8	88.9
	Northern CA	1	.6	.6	89.5
	Coast	4	2.3	2.3	91.8
	Central Valley	5	2.9	2.9	94.7
	Southern CA	4	2.3	2.3	97.1
	Out of State	2	1.2	1.2	98.2
	No response	2	1.2	1.2	99.4
	Unreadable response	1	.6	.6	100.0
	Total	171	100.0	100.0	

Zip County (final) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	El Dorado County	19	10.9	10.9	10.9
	Sacramento County	79	45.1	45.1	56.0
	Placer County	7	4.0	4.0	60.0
	Yolo County	9	5.1	5.1	65.1
	Bay Area	34	19.4	19.4	84.6
	Northern CA	3	1.7	1.7	86.3
	Coast	5	2.9	2.9	89.1
	Central Valley	4	2.3	2.3	91.4
	Southern CA	6	3.4	3.4	94.9
	Out of State	3	1.7	1.7	96.6
	No response	3	1.7	1.7	98.3
	Unreadable response	3	1.7	1.7	100.0
	Total	175	100.0	100.0	

Zip County (final) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	El Dorado County	39	21.2	21.2	21.2
	Sacramento County	85	46.2	46.2	67.4
	Placer County	11	6.0	6.0	73.4
	Yolo County	8	4.3	4.3	77.7
	Bay Area	21	11.4	11.4	89.1
	Northern CA	1	.5	.5	89.7
	Coast	6	3.3	3.3	92.9
	Central Valley	6	3.3	3.3	96.2
	Southern CA	2	1.1	1.1	97.3
	Out of State	4	2.2	2.2	99.5
	Unreadable response	1	.5	.5	100.0
	Total	184	100.0	100.0	

in Group (recode) ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1	2	1.2	1.2	1.2
2	54	32.3	32.3	33.5
3	26	15.6	15.6	49.1
4	22	13.2	13.2	62.3
5	18	10.8	10.8	73.1
6	13	7.8	7.8	80.8
7-10	18	10.8	10.8	91.6
11-15	6	3.6	3.6	95.2
16-20	5	3.0	3.0	98.2
41-50	2	1.2	1.2	99.4
51 or more	1	.6	.6	100.0
Total	167	100.0	100.0	

in Group (recode) ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1	5	2.9	2.9	2.9
2	33	19.3	19.3	22.2
3	19	11.1	11.1	33.3
4	31	18.1	18.1	51.5
5	13	7.6	7.6	59.1
6	18	10.5	10.5	69.6
7-10	23	13.5	13.5	83.0
11-15	13	7.6	7.6	90.6
16-20	5	2.9	2.9	93.6
21-30	6	3.5	3.5	97.1
31-40	2	1.2	1.2	98.2
41-50	1	.6	.6	98.8
51 or more	2	1.2	1.2	100.0
Total	171	100.0	100.0	

in Group (recode) ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1	9	5.1	5.1	5.1
2	40	22.9	22.9	28.0
3	18	10.3	10.3	38.3
4	28	16.0	16.0	54.3
5	19	10.9	10.9	65.1
6	13	7.4	7.4	72.6
7-10	24	13.7	13.7	86.3
11-15	13	7.4	7.4	93.7
16-20	6	3.4	3.4	97.1
21-30	4	2.3	2.3	99.4
31-40	1	.6	.6	100.0
Total	175	100.0	100.0	

in Group (recode) ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1	8	4.3	4.3	4.3
2	61	33.2	33.2	37.5
3	26	14.1	14.1	51.6
4	21	11.4	11.4	63.0
5	15	8.2	8.2	71.2
6	12	6.5	6.5	77.7
7-10	19	10.3	10.3	88.0
11-15	12	6.5	6.5	94.6
16-20	5	2.7	2.7	97.3
21-30	2	1.1	1.1	98.4
41-50	2	1.1	1.1	99.5
51 or more	1	.5	.5	100.0
Total	184	100.0	100.0	

Yrs Visiting Crystal Basin (recode) ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	First visit	35	21.0	21.0	21.0
	1	5	3.0	3.0	24.0
	2	9	5.4	5.4	29.3
	3	9	5.4	5.4	34.7
	4	7	4.2	4.2	38.9
	5	10	6.0	6.0	44.9
	6	6	3.6	3.6	48.5
	7	1	.6	.6	49.1
	8	3	1.8	1.8	50.9
	9	2	1.2	1.2	52.1
	10	16	9.6	9.6	61.7
	11-15	15	9.0	9.0	70.7
	16-20	19	11.4	11.4	82.0
	21-30	19	11.4	11.4	93.4
	31-40	6	3.6	3.6	97.0
	41-50	4	2.4	2.4	99.4
	51 or more	1	.6	.6	100.0
	Total	167	100.0	100.0	

Yrs Visiting Crystal Basin (recode) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	First visit	22	12.9	12.9	12.9
	1	8	4.7	4.7	17.5
	2	10	5.8	5.8	23.4
	3	12	7.0	7.0	30.4
	4	4	2.3	2.3	32.7
	5	7	4.1	4.1	36.8
	6	11	6.4	6.4	43.3
	7	4	2.3	2.3	45.6
	8	3	1.8	1.8	47.4
	10	12	7.0	7.0	54.4
	11-15	27	15.8	15.8	70.2
	16-20	16	9.4	9.4	79.5
	21-30	17	9.9	9.9	89.5
	31-40	11	6.4	6.4	95.9
	41-50	5	2.9	2.9	98.8
	51 or more	2	1.2	1.2	100.0
	Total	171	100.0	100.0	

Yrs Visiting Crystal Basin (recode) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	First visit	33	18.9	18.9	18.9
	1	4	2.3	2.3	21.1
	2	14	8.0	8.0	29.1
	3	10	5.7	5.7	34.9
	4	8	4.6	4.6	39.4
	5	13	7.4	7.4	46.9
	6	5	2.9	2.9	49.7
	7	4	2.3	2.3	52.0
	8	4	2.3	2.3	54.3
	9	4	2.3	2.3	56.6
	10	15	8.6	8.6	65.1
	11-15	12	6.9	6.9	72.0
	16-20	11	6.3	6.3	78.3
	21-30	20	11.4	11.4	89.7
	31-40	15	8.6	8.6	98.3
	41-50	1	.6	.6	98.9
	51 or more	2	1.1	1.1	100.0
	Total	175	100.0	100.0	

Yrs Visiting Crystal Basin (recode) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	First visit	34	18.5	18.5	18.5
	1	2	1.1	1.1	19.6
	2	13	7.1	7.1	26.6
	3	12	6.5	6.5	33.2
	4	3	1.6	1.6	34.8
	5	21	11.4	11.4	46.2
	6	4	2.2	2.2	48.4
	7	3	1.6	1.6	50.0
	8	5	2.7	2.7	52.7
	9	2	1.1	1.1	53.8
	10	10	5.4	5.4	59.2
	11-15	22	12.0	12.0	71.2
	16-20	16	8.7	8.7	79.9
	21-30	19	10.3	10.3	90.2
	31-40	7	3.8	3.8	94.0
	41-50	4	2.2	2.2	96.2
	51 or more	7	3.8	3.8	100.0
	Total	184	100.0	100.0	

Is Your Visit ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	the primary destination of your trip	148	88.6	88.6	88.6
	a side trip while camped at another location in the Crystal	12	7.2	7.2	95.8
	a stop on route to another destination	5	3.0	3.0	98.8
	No response	2	1.2	1.2	100.0
	Total	167	100.0	100.0	

Is Your Visit ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	the primary destination of your trip	151	88.3	88.3	88.3
	a side trip while camped at another location in the Crystal	16	9.4	9.4	97.7
	a stop on route to another destination	3	1.8	1.8	99.4
	No response	1	.6	.6	100.0
	Total	171	100.0	100.0	

Is Your Visit ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	the primary destination of your trip	160	91.4	91.4	91.4
	a side trip while camped at another location in the Crystal	6	3.4	3.4	94.9
	a stop on route to another destination	8	4.6	4.6	99.4
	No response	1	.6	.6	100.0
	Total	175	100.0	100.0	

Is Your Visit ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid the primary destination of your trip	157	85.3	85.3	85.3
a side trip while camped at another location in the Crystal	20	10.9	10.9	96.2
a stop on route to another destination	6	3.3	3.3	99.5
No response	1	.5	.5	100.0
Total	184	100.0	100.0	

Day or Overnight ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Day Trip	47	28.1	28.1	28.1
Staying Overnight	120	71.9	71.9	100.0
Total	167	100.0	100.0	

Day or Overnight ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Day Trip	34	19.9	19.9	19.9
Staying Overnight	137	80.1	80.1	100.0
Total	171	100.0	100.0	

Day or Overnight ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Day Trip	9	5.1	5.1	5.1
Staying Overnight	166	94.9	94.9	100.0
Total	175	100.0	100.0	

Day or Overnight ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Day Trip	54	29.3	29.3	29.3
Staying Overnight	128	69.6	69.6	98.9
No response	2	1.1	1.1	100.0
Total	184	100.0	100.0	

Hours of Day Trip ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	3 hours or less	5	3.0	10.6	10.6
	4 to 6 hours	30	18.0	63.8	74.5
	7 to 9 hours	6	3.6	12.8	87.2
	10 hours or more	5	3.0	10.6	97.9
	No response	1	.6	2.1	100.0
	Total	47	28.1	100.0	
Missing	System	120	71.9		
Total		167	100.0		

Hours of Day Trip ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	3 hours or less	1	.6	2.9	2.9
	4 to 6 hours	16	9.4	47.1	50.0
	7 to 9 hours	9	5.3	26.5	76.5
	10 hours or more	7	4.1	20.6	97.1
	No response	1	.6	2.9	100.0
	Total	34	19.9	100.0	
Missing	System	137	80.1		
Total		171	100.0		

Hours of Day Trip ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	4 to 6 hours	4	2.3	44.4	44.4
	7 to 9 hours	2	1.1	22.2	66.7
	10 hours or more	3	1.7	33.3	100.0
	Total	9	5.1	100.0	
Missing	System	166	94.9		
Total		175	100.0		

Hours of Day Trip ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	3 hours or less	8	4.3	14.8	14.8
	4 to 6 hours	23	12.5	42.6	57.4
	7 to 9 hours	19	10.3	35.2	92.6
	10 hours or more	2	1.1	3.7	96.3
	No response	2	1.1	3.7	100.0
	Total	54	29.3	100.0	
Missing	System	130	70.7		
Total		184	100.0		

of Nights ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 night	9	5.4	7.6	7.6
	2 nights	43	25.7	36.1	43.7
	3 nights	23	13.8	19.3	63.0
	4 nights	18	10.8	15.1	78.2
	5 nights	9	5.4	7.6	85.7
	6 nights	3	1.8	2.5	88.2
	7 nights	5	3.0	4.2	92.4
	8 to 14 nights	7	4.2	5.9	98.3
	No response	2	1.2	1.7	100.0
	Total	119	71.3	100.0	
Missing	System	48	28.7		
Total		167	100.0		

of Nights ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 night	9	5.3	6.6	6.6
	2 nights	37	21.6	27.0	33.6
	3 nights	41	24.0	29.9	63.5
	4 nights	23	13.5	16.8	80.3
	5 nights	14	8.2	10.2	90.5
	6 nights	4	2.3	2.9	93.4
	7 nights	4	2.3	2.9	96.4
	8 to 14 nights	4	2.3	2.9	99.3
	No response	1	.6	.7	100.0
	Total	137	80.1	100.0	
Missing	System	34	19.9		
Total		171	100.0		

of Nights ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 night	23	13.1	13.9	13.9
	2 nights	52	29.7	31.3	45.2
	3 nights	47	26.9	28.3	73.5
	4 nights	19	10.9	11.4	84.9
	5 nights	10	5.7	6.0	91.0
	6 nights	3	1.7	1.8	92.8
	7 nights	5	2.9	3.0	95.8
	8 to 14 nights	7	4.0	4.2	100.0
	Total	166	94.9	100.0	
Missing	System	9	5.1		
Total		175	100.0		

of Nights ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 night	19	10.3	14.7	14.7
	2 nights	47	25.5	36.4	51.2
	3 nights	28	15.2	21.7	72.9
	4 nights	18	9.8	14.0	86.8
	5 nights	4	2.2	3.1	89.9
	6 nights	3	1.6	2.3	92.2
	7 nights	2	1.1	1.6	93.8
	8 to 14 nights	5	2.7	3.9	97.7
	No response	3	1.6	2.3	100.0
Total	129	70.1	100.0		
Missing	System	55	29.9		
Total		184	100.0		

Type of Overnight Accomodation ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground	113	67.7	94.2	94.2
	Undeveloped Campsite	4	2.4	3.3	97.5
	Resort, Private Cabin or Residence	1	.6	.8	98.3
	No response	2	1.2	1.7	100.0
	Total	120	71.9	100.0	
Missing	System	47	28.1		
Total		167	100.0		

Type of Overnight Accomodation ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground	127	74.3	92.7	92.7
	Undeveloped Campsite	9	5.3	6.6	99.3
	Resort, Private Cabin or Residence	1	.6	.7	100.0
	Total	137	80.1	100.0	
Missing	System	34	19.9		
Total		171	100.0		

Type of Overnight Accomodation ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground	160	91.4	96.4	96.4
	Undeveloped Campsite	2	1.1	1.2	97.6
	Resort, Private Cabin or Residence	4	2.3	2.4	100.0
	Total	166	94.9	100.0	
Missing	System	9	5.1		
Total		175	100.0		

Type of Overnight Accomodation ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground	114	62.0	87.7	87.7
	Undeveloped Campsite	10	5.4	7.7	95.4
	Resort, Private Cabin or Residence	5	2.7	3.8	99.2
	No response	1	.5	.8	100.0
	Total	130	70.7	100.0	
Missing	System	54	29.3		
Total		184	100.0		

Name of Campground ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground at Ice House Reservoir	107	64.1	94.7	94.7
	Campground at Union Valley Reservoir	3	1.8	2.7	97.3
	Campground at Loon Lake Reservoir	1	.6	.9	98.2
	Campground at Wrights Lake	1	.6	.9	99.1
	Unreadable response	1	.6	.9	100.0
	Total	113	67.7	100.0	
Missing	System	54	32.3		
Total		167	100.0		

Name of Campground ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground at Ice House Reservoir	1	.6	.8	.8
	Campground at Union Valley Reservoir	124	72.5	97.6	98.4
	Campground at Gerle Creek Reservoir	1	.6	.8	99.2
	Other	1	.6	.8	100.0
	Total	127	74.3	100.0	
Missing	System	44	25.7		
Total		171	100.0		

Name of Campground ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground at Gerle Creek Reservoir	159	90.9	99.4	99.4
	Campground at Loon Lake Reservoir	1	.6	.6	100.0
	Total	160	91.4	100.0	
Missing	System	15	8.6		
Total		175	100.0		

Name of Campground ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground at Union Valley Reservoir	2	1.1	1.8	1.8
	Campground at Gerle Creek Reservoir	4	2.2	3.5	5.3
	Campground at Loon Lake Reservoir	107	58.2	93.9	99.1
	Campground at Wrights Lake	1	.5	.9	100.0
	Total	114	62.0	100.0	
Missing	System	70	38.0		
Total		184	100.0		

Undeveloped Campsite ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Undecided	1	.6	25.0	25.0
	Other dispersed area	1	.6	25.0	50.0
	No Response	2	1.2	50.0	100.0
	Total	4	2.4	100.0	
Missing	System	163	97.6		
Total		167	100.0		

Undeveloped Campsite ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Site within .25 mile of Union Valley Reservoir	8	4.7	88.9	88.9
	Undecided	1	.6	11.1	100.0
	Total	9	5.3	100.0	
Missing	System	162	94.7		
Total		171	100.0		

Undeveloped Campsite ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Site within .25 mile of Gerle Creek Reservoir	2	1.1	100.0	100.0
Missing	System	173	98.9		
Total		175	100.0		

Undeveloped Campsite ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Site within .25 mile of Loon Lake Reservoir	7	3.8	70.0	70.0
	Jones Wreckum Road Area	1	.5	10.0	80.0
	Millionaire Camp Area	1	.5	10.0	90.0
	Other dispersed area	1	.5	10.0	100.0
	Total	10	5.4	100.0	
Missing	System	174	94.6		
Total		184	100.0		

Resort ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	1	.6	100.0	100.0
Missing	System	166	99.4		
Total		167	100.0		

Resort ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	1	.6	100.0	100.0
Missing	System	170	99.4		
Total		171	100.0		

Resort ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Robbs Resort	1	.6	25.0	25.0
	Gerle Recreational Residences	1	.6	25.0	50.0
	Other	2	1.1	50.0	100.0
	Total	4	2.3	100.0	
Missing	System	171	97.7		
Total		175	100.0		

Resort ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Robbs Resort	2	1.1	40.0	40.0
	Gerle Recreational Residences	1	.5	20.0	60.0
	Other	2	1.1	40.0	100.0
	Total	5	2.7	100.0	
Missing	System	179	97.3		
Total		184	100.0		

Backpacking ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	7	4.2	100.0	100.0
Missing	System	160	95.8		
Total		167	100.0		

Backpacking ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	11	6.4	100.0	100.0
Missing	System	160	93.6		
Total		171	100.0		

Backpacking ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	18	10.3	100.0	100.0
Missing	System	157	89.7		
Total		175	100.0		

Backpacking ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	13	7.1	100.0	100.0
Missing	System	171	92.9		
Total		184	100.0		

Bicycling ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	29	17.4	100.0	100.0
Missing System	138	82.6		
Total	167	100.0		

Bicycling ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	33	19.3	100.0	100.0
Missing System	138	80.7		
Total	171	100.0		

Bicycling ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	24	13.7	100.0	100.0
Missing System	151	86.3		
Total	175	100.0		

Bicycling ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	29	15.8	100.0	100.0
Missing System	155	84.2		
Total	184	100.0		

Canoeing / Kayaking ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	24	14.4	100.0	100.0
Missing System	143	85.6		
Total	167	100.0		

Canoeing/Kayaking ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	26	15.2	100.0	100.0
Missing System	145	84.8		
Total	171	100.0		

Canoeing/Kayaking ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	36	20.6	100.0	100.0
Missing System	139	79.4		
Total	175	100.0		

Canoeing/Kayaking ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	36	19.6	100.0	100.0
Missing System	148	80.4		
Total	184	100.0		

Fishing (Lake or Reservoir) ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	93	55.7	100.0	100.0
Missing System	74	44.3		
Total	167	100.0		

Fishing (Lake or Reservoir) ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	105	61.4	100.0	100.0
Missing System	66	38.6		
Total	171	100.0		

Fishing (Lake or Reservoir) ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	63	36.0	100.0	100.0
Missing System	112	64.0		
Total	175	100.0		

Fishing (Lake or Reservoir) ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	101	54.9	100.0	100.0
Missing System	83	45.1		
Total	184	100.0		

Fishing (Stream or River) ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	23	13.8	100.0	100.0
Missing System	144	86.2		
Total	167	100.0		

Fishing (Stream or River) ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	12	7.0	100.0	100.0
Missing System	159	93.0		
Total	171	100.0		

Fishing (Stream or River) ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	28	16.0	100.0	100.0
Missing System	147	84.0		
Total	175	100.0		

Fishing (Stream or River) ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	4	2.2	100.0	100.0
Missing System	180	97.8		
Total	184	100.0		

Hiking/Walking ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	84	50.3	100.0	100.0
Missing System	83	49.7		
Total	167	100.0		

Hiking/Walking ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	112	65.5	100.0	100.0
Missing System	59	34.5		
Total	171	100.0		

Hiking/Walking ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	120	68.6	100.0	100.0
Missing System	55	31.4		
Total	175	100.0		

Hiking/Walking ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	108	58.7	100.0	100.0
Missing System	76	41.3		
Total	184	100.0		

Hunting ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	3	1.8	100.0	100.0
Missing System	164	98.2		
Total	167	100.0		

Hunting ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	1	.6	100.0	100.0
Missing System	170	99.4		
Total	171	100.0		

Hunting ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	3	1.7	100.0	100.0
Missing System	172	98.3		
Total	175	100.0		

Hunting ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	4	2.2	100.0	100.0
Missing System	180	97.8		
Total	184	100.0		

OHV Use ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	13	7.8	100.0	100.0
Missing System	154	92.2		
Total	167	100.0		

OHV Use ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	13	7.6	100.0	100.0
Missing System	158	92.4		
Total	171	100.0		

OHV Use ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	28	16.0	100.0	100.0
Missing System	147	84.0		
Total	175	100.0		

OHV Use ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	16	8.7	100.0	100.0
Missing System	168	91.3		
Total	184	100.0		

Picnicking ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	83	49.7	100.0	100.0
Missing System	84	50.3		
Total	167	100.0		

Picnicking ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	87	50.9	100.0	100.0
Missing System	84	49.1		
Total	171	100.0		

Picnicking ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	88	50.3	100.0	100.0
Missing System	87	49.7		
Total	175	100.0		

Picnicking ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	101	54.9	100.0	100.0
Missing System	83	45.1		
Total	184	100.0		

Photography ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	50	29.9	100.0	100.0
Missing System	117	70.1		
Total	167	100.0		

Photography ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	56	32.7	100.0	100.0
Missing System	115	67.3		
Total	171	100.0		

Photography ~GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	58	33.1	100.0	100.0
Missing System	117	66.9		
Total	175	100.0		

Photography ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	64	34.8	100.0	100.0
Missing System	120	65.2		
Total	184	100.0		

Power Boating ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	43	25.7	100.0	100.0
Missing System	124	74.3		
Total	167	100.0		

Power Boating ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	68	39.8	100.0	100.0
Missing System	103	60.2		
Total	171	100.0		

Power Boating ~GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	5	2.9	100.0	100.0
Missing System	170	97.1		
Total	175	100.0		

Power Boating ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	34	18.5	100.0	100.0
Missing System	150	81.5		
Total	184	100.0		

PWC Use ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	18	10.8	100.0	100.0
Missing System	149	89.2		
Total	167	100.0		

PWC Use ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	15	8.8	100.0	100.0
Missing System	156	91.2		
Total	171	100.0		

PWC Use ~ GCR

	Frequency	Percent
Missing System	175	100.0

PWC Use ~ LLR

	Frequency	Percent
Missing System	184	100.0

Sail Boating ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	4	2.4	100.0	100.0
Missing System	163	97.6		
Total	167	100.0		

Sail Boating ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	7	4.1	100.0	100.0
Missing System	164	95.9		
Total	171	100.0		

Sail Boating ~ GCR

	Frequency	Percent
Missing System	175	100.0

Sail Boating ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	7	3.8	100.0	100.0
Missing System	177	96.2		
Total	184	100.0		

Swimming ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	98	58.7	100.0	100.0
Missing System	69	41.3		
Total	167	100.0		

Swimming ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	131	76.6	100.0	100.0
Missing	System	40	23.4		
Total		171	100.0		

Swimming ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	128	73.1	100.0	100.0
Missing	System	47	26.9		
Total		175	100.0		

Swimming ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	106	57.6	100.0	100.0
Missing	System	78	42.4		
Total		184	100.0		

Visiting Cultural/Historic Sites ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	7	4.2	100.0	100.0
Missing	System	160	95.8		
Total		167	100.0		

Visiting Cultural/Historic Sites ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	10	5.8	100.0	100.0
Missing	System	161	94.2		
Total		171	100.0		

Visiting Cultural/Historic Sites ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	12	6.9	100.0	100.0
Missing	System	163	93.1		
Total		175	100.0		

Visiting Cultural/Historic Sites ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	11	6.0	100.0	100.0
Missing System	173	94.0		
Total	184	100.0		

Wildlife Viewing ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	74	44.3	100.0	100.0
Missing System	93	55.7		
Total	167	100.0		

Wildlife Viewing ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	72	42.1	100.0	100.0
Missing System	99	57.9		
Total	171	100.0		

Wildlife Viewing ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	95	54.3	100.0	100.0
Missing System	80	45.7		
Total	175	100.0		

Wildlife Viewing ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	83	45.1	100.0	100.0
Missing System	101	54.9		
Total	184	100.0		

Most Important Activity ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	2	1.2	1.2	1.2
	Bicycling	2	1.2	1.2	2.4
	Canoeing/Kayaking	8	4.8	4.8	7.2
	Fishing (Lake or Reservoir)	52	31.1	31.1	38.3
	Fishing (Stream or River)	1	.6	.6	38.9
	Hiking/Walking	11	6.6	6.6	45.5
	Hunting	3	1.8	1.8	47.3
	OHV Use	5	3.0	3.0	50.3
	Picnicking	10	6.0	6.0	56.3
	Photography	1	.6	.6	56.9
	Power Boating	20	12.0	12.0	68.9
	PWC Use (Jet Ski)	12	7.2	7.2	76.0
	Swimming	26	15.6	15.6	91.6
	Visiting Cultural/Historic Sites	1	.6	.6	92.2
	Wildlife Viewing	9	5.4	5.4	97.6
	Other	2	1.2	1.2	98.8
	No response	2	1.2	1.2	100.0
	Total	167	100.0	100.0	

Most Important Activity ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bicycling	3	1.8	1.8	1.8
	Canoeing/Kayaking	5	2.9	2.9	4.7
	Fishing (Lake or Reservoir)	48	28.1	28.1	32.7
	Hiking/Walking	14	8.2	8.2	40.9
	OHV Use	5	2.9	2.9	43.9
	Picnicking	11	6.4	6.4	50.3
	Photography	4	2.3	2.3	52.6
	Power Boating	37	21.6	21.6	74.3
	PWC Use (Jet Ski)	5	2.9	2.9	77.2
	Swimming	25	14.6	14.6	91.8
	Wildlife Viewing	10	5.8	5.8	97.7
	Other	3	1.8	1.8	99.4
	No response	1	.6	.6	100.0
	Total	171	100.0	100.0	

Most Important Activity ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	6	3.4	3.4	3.4
	Bicycling	1	.6	.6	4.0
	Canoeing/Kayaking	12	6.9	6.9	10.9
	Fishing (Lake or Reservoir)	23	13.1	13.1	24.0
	Fishing (Stream or River)	3	1.7	1.7	25.7
	Hiking/Walking	38	21.7	21.7	47.4
	Hunting	2	1.1	1.1	48.6
	OHV Use	20	11.4	11.4	60.0
	Picnicking	7	4.0	4.0	64.0
	Photography	3	1.7	1.7	65.7
	Power Boating	1	.6	.6	66.3
	Swimming	39	22.3	22.3	88.6
	Visiting Cultural/Historic Sites	1	.6	.6	89.1
	Wildlife Viewing	11	6.3	6.3	95.4
	Other	5	2.9	2.9	98.3
	No response	3	1.7	1.7	100.0
	Total	175	100.0	100.0	

Most Important Activity ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	3	1.6	1.6	1.6
	Bicycling	6	3.3	3.3	4.9
	Canoeing/Kayaking	18	9.8	9.8	14.7
	Fishing (Lake or Reservoir)	62	33.7	33.7	48.4
	Hiking/Walking	22	12.0	12.0	60.3
	Hunting	1	.5	.5	60.9
	OHV Use	8	4.3	4.3	65.2
	Picnicking	10	5.4	5.4	70.7
	Photography	4	2.2	2.2	72.8
	Power Boating	12	6.5	6.5	79.3
	Sail Boating	3	1.6	1.6	81.0
	Swimming	22	12.0	12.0	92.9
	Visiting Cultural/Historic Sites	1	.5	.5	93.5
	Wildlife Viewing	3	1.6	1.6	95.1
	Other	6	3.3	3.3	98.4
	No response	3	1.6	1.6	100.0
	Total	184	100.0	100.0	

2nd Most Important Activity ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	.6	.6	.6
	Bicycling	7	4.2	4.2	4.8
	Canoeing/Kayaking	3	1.8	1.8	6.6
	Fishing (Lake or Reservoir)	19	11.4	11.4	18.0
	Fishing (Stream or River)	7	4.2	4.2	22.2
	Hiking/Walking	23	13.8	13.8	35.9
	OHV Use	2	1.2	1.2	37.1
	Picnicking	18	10.8	10.8	47.9
	Photography	6	3.6	3.6	51.5
	Power Boating	8	4.8	4.8	56.3
	PWC Use (Jet Ski)	3	1.8	1.8	58.1
	Sail Boating	1	.6	.6	58.7
	Swimming	32	19.2	19.2	77.8
	Wildlife Viewing	13	7.8	7.8	85.6
	Other	3	1.8	1.8	87.4
	No response	21	12.6	12.6	100.0
	Total	167	100.0	100.0	

2nd Most Important Activity ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	2	1.2	1.2	1.2
	Bicycling	6	3.5	3.5	4.7
	Canoeing/Kayaking	6	3.5	3.5	8.2
	Fishing (Lake or Reservoir)	24	14.0	14.0	22.2
	Fishing (Stream or River)	3	1.8	1.8	24.0
	Hiking/Walking	27	15.8	15.8	39.8
	Picnicking	14	8.2	8.2	48.0
	Photography	6	3.5	3.5	51.5
	Power Boating	13	7.6	7.6	59.1
	PWC Use (Jet Ski)	3	1.8	1.8	60.8
	Sail Boating	1	.6	.6	61.4
	Swimming	35	20.5	20.5	81.9
	Visiting Cultural/Historic Sites	1	.6	.6	82.5
	Wildlife Viewing	12	7.0	7.0	89.5
	No response	18	10.5	10.5	100.0
	Total	171	100.0	100.0	

2nd Most Important Activity ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	4	2.3	2.3	2.3
	Bicycling	9	5.1	5.1	7.4
	Canoeing/Kayaking	8	4.6	4.6	12.0
	Fishing (Lake or Reservoir)	13	7.4	7.4	19.4
	Fishing (Stream or River)	6	3.4	3.4	22.9
	Hiking/Walking	30	17.1	17.1	40.0
	Hunting	1	.6	.6	40.6
	OHV Use	5	2.9	2.9	43.4
	Picnicking	20	11.4	11.4	54.9
	Photography	10	5.7	5.7	60.6
	Swimming	43	24.6	24.6	85.1
	Visiting Cultural/Historic Sites	1	.6	.6	85.7
	Wildlife Viewing	10	5.7	5.7	91.4
	Other	1	.6	.6	92.0
	No response	14	8.0	8.0	100.0
	Total	175	100.0	100.0	

2nd Most Important Activity ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	2	1.1	1.1	1.1
	Bicycling	7	3.8	3.8	4.9
	Canoeing/Kayaking	3	1.6	1.6	6.5
	Fishing (Lake or Reservoir)	15	8.2	8.2	14.7
	Fishing (Stream or River)	2	1.1	1.1	15.8
	Hiking/Walking	36	19.6	19.6	35.3
	OHV Use	4	2.2	2.2	37.5
	Picnicking	25	13.6	13.6	51.1
	Photography	7	3.8	3.8	54.9
	Power Boating	8	4.3	4.3	59.2
	Sail Boating	2	1.1	1.1	60.3
	Swimming	31	16.8	16.8	77.2
	Wildlife Viewing	20	10.9	10.9	88.0
	Other	1	.5	.5	88.6
	No response	21	11.4	11.4	100.0
	Total	184	100.0	100.0	

3rd Most Important Activity ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bicycling	5	3.0	3.0	3.0
	Canoeing/Kayaking	4	2.4	2.4	5.4
	Fishing (Lake or Reservoir)	7	4.2	4.2	9.6
	Fishing (Stream or River)	2	1.2	1.2	10.8
	Hiking/Walking	21	12.6	12.6	23.4
	OHV Use	3	1.8	1.8	25.1
	Picnicking	23	13.8	13.8	38.9
	Photography	14	8.4	8.4	47.3
	Power Boating	6	3.6	3.6	50.9
	Swimming	22	13.2	13.2	64.1
	Visiting Cultural/Historic Sites	1	.6	.6	64.7
	Wildlife Viewing	18	10.8	10.8	75.4
	Other	1	.6	.6	76.0
	No response	40	24.0	24.0	100.0
	Total	167	100.0	100.0	

3rd Most Important Activity ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bicycling	6	3.5	3.5	3.5
	Canoeing/Kayaking	2	1.2	1.2	4.7
	Fishing (Lake or Reservoir)	12	7.0	7.0	11.7
	Hiking/Walking	24	14.0	14.0	25.7
	Hunting	1	.6	.6	26.3
	OHV Use	1	.6	.6	26.9
	Picnicking	25	14.6	14.6	41.5
	Photography	9	5.3	5.3	46.8
	Power Boating	8	4.7	4.7	51.5
	PWC Use (Jet Ski)	4	2.3	2.3	53.8
	Swimming	31	18.1	18.1	71.9
	Wildlife Viewing	12	7.0	7.0	78.9
	No response	36	21.1	21.1	100.0
	Total	171	100.0	100.0	

3rd Most Important Activity ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	.6	.6	.6
	Bicycling	4	2.3	2.3	2.9
	Canoeing/Kayaking	6	3.4	3.4	6.3
	Fishing (Lake or Reservoir)	9	5.1	5.1	11.4
	Fishing (Stream or River)	3	1.7	1.7	13.1
	Hiking/Walking	27	15.4	15.4	28.6
	OHV Use	2	1.1	1.1	29.7
	Picnicking	28	16.0	16.0	45.7
	Photography	8	4.6	4.6	50.3
	Power Boating	1	.6	.6	50.9
	Swimming	16	9.1	9.1	60.0
	Visiting Cultural/Historic Sites	1	.6	.6	60.6
	Wildlife Viewing	26	14.9	14.9	75.4
	Other	2	1.1	1.1	76.6
	No response	41	23.4	23.4	100.0
	Total	175	100.0	100.0	

3rd Most Important Activity ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bicycling	3	1.6	1.6	1.6
	Canoeing/Kayaking	9	4.9	4.9	6.5
	Fishing (Lake or Reservoir)	7	3.8	3.8	10.3
	Hiking/Walking	26	14.1	14.1	24.5
	Hunting	1	.5	.5	25.0
	Picnicking	22	12.0	12.0	37.0
	Photography	12	6.5	6.5	43.5
	Power Boating	4	2.2	2.2	45.7
	Swimming	18	9.8	9.8	55.4
	Visiting Cultural/Historic Sites	3	1.6	1.6	57.1
	Wildlife Viewing	24	13.0	13.0	70.1
	Other	2	1.1	1.1	71.2
	No response	53	28.8	28.8	100.0
	Total	184	100.0	100.0	

Changes to Motorized Trails ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	22	13.2	13.2	13.2
	No	80	47.9	47.9	61.1
	No Opinion	65	38.9	38.9	100.0
	Total	167	100.0	100.0	

Changes to Motorized Trails ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	32	18.7	18.7	18.7
	No	70	40.9	40.9	59.6
	No Opinion	68	39.8	39.8	99.4
	No response	1	.6	.6	100.0
	Total	171	100.0	100.0	

Changes to Motorized Trails ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	35	20.0	20.0	20.0
	No	87	49.7	49.7	69.7
	No Opinion	53	30.3	30.3	100.0
	Total	175	100.0	100.0	

Changes to Motorized Trails ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	21	11.4	11.4	11.4
	No	77	41.8	41.8	53.3
	No Opinion	85	46.2	46.2	99.5
	No response	1	.5	.5	100.0
	Total	184	100.0	100.0	

Coded List of What Changes to Motorized (MAX 3) ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Expanded motorized trail system	9	5.4	40.9	40.9
	Reopen Bassi Falls area	6	3.6	27.3	68.2
	Improve trailhead markers (not obvious if allowable)	1	.6	4.5	72.7
	Reduce or eliminate motorized trail system	3	1.8	13.6	86.4
	Strengthen regulations or enforcement over OHV use	1	.6	4.5	90.9
	More paved or other road improvements	1	.6	4.5	95.5
	No response	1	.6	4.5	100.0
	Total	22	13.2	100.0	
Missing	System	145	86.8		
Total		167	100.0		

Coded List of What Changes to Motorized (MAX 3) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Expanded motorized trail system	10	5.8	31.3	31.3
	Reopen Bassi Falls area	4	2.3	12.5	43.8
	Reduce regulations or enforcement over OHV use	1	.6	3.1	46.9
	Improve trailhead markers (not obvious if allowable)	3	1.8	9.4	56.3
	Reduce or eliminate motorized trail system	5	2.9	15.6	71.9
	Strengthen regulations or enforcement over OHV use	2	1.2	6.3	78.1
	More paved or other road improvements	2	1.2	6.3	84.4
	Other	3	1.8	9.4	93.8
	No response	2	1.2	6.3	100.0
	Total	32	18.7	100.0	
Missing	System	139	81.3		
Total		171	100.0		

Coded List of What Changes to Motorized (MAX 3) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Expanded motorized trail system	12	6.9	34.3	34.3
	Reopen Bassi Falls area	2	1.1	5.7	40.0
	Reduce regulations or enforcement over OHV use	3	1.7	8.6	48.6
	Improve trailhead markers (not obvious if allowable)	2	1.1	5.7	54.3
	Reduce or eliminate motorized trail system	8	4.6	22.9	77.1
	Strengthen regulations or enforcement over OHV use	4	2.3	11.4	88.6
	Other	3	1.7	8.6	97.1
	No response	1	.6	2.9	100.0
	Total	35	20.0	100.0	
Missing	System	140	80.0		
Total		175	100.0		

Coded List of What Changes to Motorized (MAX 3) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Expanded motorized trail system	5	2.7	23.8	23.8
	Reopen Bassi Falls area	1	.5	4.8	28.6
	Reduce regulations or enforcement over OHV use	2	1.1	9.5	38.1
	Improve trailhead markers (not obvious if allowable)	2	1.1	9.5	47.6
	Reduce or eliminate motorized trail system	6	3.3	28.6	76.2
	Strengthen regulations or enforcement over OHV use	2	1.1	9.5	85.7
	Other	2	1.1	9.5	95.2
	No response	1	.5	4.8	100.0
	Total	21	11.4	100.0	
Missing	System	163	88.6		
Total		184	100.0		

Changes to Non-Motorized Trails ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	23	13.8	13.8	13.8
No	91	54.5	54.5	68.3
No Opinion	53	31.7	31.7	100.0
Total	167	100.0	100.0	

Changes to Non-Motorized Trails ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	26	15.2	15.2	15.2
No	98	57.3	57.3	72.5
No Opinion	47	27.5	27.5	100.0
Total	171	100.0	100.0	

Changes to Non-Motorized Trails ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	32	18.3	18.3	18.3
No	113	64.6	64.6	82.9
No Opinion	29	16.6	16.6	99.4
No response	1	.6	.6	100.0
Total	175	100.0	100.0	

Changes to Non-Motorized Trails ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	29	15.8	15.8	15.8
No	104	56.5	56.5	72.3
No Opinion	51	27.7	27.7	100.0
Total	184	100.0	100.0	

Coded List of What Changes to Non-Motorized (MAX 3) ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Better trail/trailhead marking	6	3.6	26.1	26.1
	Increase information/maps	2	1.2	8.7	34.8
	More bike trails	2	1.2	8.7	43.5
	More hiking trails	1	.6	4.3	47.8
	More trails	5	3.0	21.7	69.6
	Increase level of development	3	1.8	13.0	82.6
	Increase trail maintenance	1	.6	4.3	87.0
	Other	2	1.2	8.7	95.7
	No response	1	.6	4.3	100.0
	Total	23	13.8	100.0	
Missing	System	144	86.2		
Total		167	100.0		

Coded List of What Changes to Non-Motorized (MAX 3) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Better trail/trailhead marking	6	3.5	23.1	23.1
	Increase information/maps	1	.6	3.8	26.9
	More bike trails	6	3.5	23.1	50.0
	More hiking trails	3	1.8	11.5	61.5
	More equestrian trails	1	.6	3.8	65.4
	More trails	4	2.3	15.4	80.8
	Increase level of development	1	.6	3.8	84.6
	Other	3	1.8	11.5	96.2
	No response	1	.6	3.8	100.0
	Total	26	15.2	100.0	
Missing	System	145	84.8		
Total		171	100.0		

Coded List of What Changes to Non-Motorized (MAX 3) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Better trail/trailhead marking	12	6.9	37.5	37.5
	Increase information/maps	1	.6	3.1	40.6
	More bike trails	1	.6	3.1	43.8
	More hiking trails	1	.6	3.1	46.9
	More trails	12	6.9	37.5	84.4
	Increase level of development	1	.6	3.1	87.5
	Increase trail maintenance	1	.6	3.1	90.6
	Other	3	1.7	9.4	100.0
	Total	32	18.3	100.0	
Missing	System	143	81.7		
Total		175	100.0		

Coded List of What Changes to Non-Motorized (MAX 3) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Better trail/trailhead marking	14	7.6	48.3	48.3
	Increase information/maps	2	1.1	6.9	55.2
	More bike trails	2	1.1	6.9	62.1
	More hiking trails	1	.5	3.4	65.5
	More trails	3	1.6	10.3	75.9
	Increase level of development	2	1.1	6.9	82.8
	Increase trail maintenance	1	.5	3.4	86.2
	Other	3	1.6	10.3	96.6
	No response	1	.5	3.4	100.0
	Total	29	15.8	100.0	
Missing	System	155	84.2		
Total		184	100.0		

Coded List of What Changes to Non-Motorized 2 ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Increase information/maps	1	.6	33.3	33.3
	More hiking trails	1	.6	33.3	66.7
	More trails	1	.6	33.3	100.0
	Total	3	1.8	100.0	
Missing	System	164	98.2		
Total		167	100.0		

Coded List of What Changes to Non-Motorized 2 ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Increase information/maps	2	1.2	50.0	50.0
	More trails	1	.6	25.0	75.0
	More hike-in or boat-in only campgrounds	1	.6	25.0	100.0
	Total	4	2.3	100.0	
Missing	System	167	97.7		
Total		171	100.0		

Coded List of What Changes to Non-Motorized 2 ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Increase information/maps	1	.6	33.3	33.3
	More hiking trails	1	.6	33.3	66.7
	More trails	1	.6	33.3	100.0
	Total	3	1.7	100.0	
Missing	System	172	98.3		
Total		175	100.0		

Coded List of What Changes to Non-Motorized 2 ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Increase information/maps	1	.5	33.3	33.3
	More hiking trails	1	.5	33.3	66.7
	More hike-in or boat-in only campgrounds	1	.5	33.3	100.0
	Total	3	1.6	100.0	
Missing	System	181	98.4		
Total		184	100.0		

Are improvements needed to make access to shorelines easier, safer, OR more enjoyable?

~ IHR ~

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid At least one yes in 12a,b,c	39	23.4	23.4	23.4
No	120	71.9	71.9	95.2
No Opinion	8	4.8	4.8	100.0
Total	167	100.0	100.0	

Are improvements needed to make access to shorelines easier, safer, OR more enjoyable?

~ UVR ~

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid At least one yes in 12a,b,c	42	24.6	24.6	24.6
No	118	69.0	69.0	93.6
No Opinion	11	6.4	6.4	100.0
Total	171	100.0	100.0	

Are improvements needed to make access to shorelines easier, safer, OR more enjoyable?

~ GCR ~

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid At least one yes in 12a,b,c	22	12.6	12.6	12.6
No	131	74.9	74.9	87.4
No Opinion	22	12.6	12.6	100.0
Total	175	100.0	100.0	

Are improvements needed to make access to shorelines easier, safer, OR more enjoyable?

~ LLR ~

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid At least one yes in 12a,b,c	42	22.8	22.8	22.8
No	133	72.3	72.3	95.1
No Opinion	9	4.9	4.9	100.0
Total	184	100.0	100.0	

Coded list of changes to shorelines (MAX 4) ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Clearly defined trail to shoreline	8	4.8	20.5	20.5
	More docks	2	1.2	5.1	25.6
	Make improvements for seniors or disabled	4	2.4	10.3	35.9
	Keep water levels up	1	.6	2.6	38.5
	More sand/Less rocks	3	1.8	7.7	46.2
	Banks are too steep	1	.6	2.6	48.7
	More campgrounds or campsites closer to shoreline	1	.6	2.6	51.3
	Greater road access	3	1.8	7.7	59.0
	More designated swimming areas	1	.6	2.6	61.5
	More boat ramps	1	.6	2.6	64.1
	Other	10	6.0	25.6	89.7
	No response	3	1.8	7.7	97.4
	Unreadable response	1	.6	2.6	100.0
	Total	39	23.4	100.0	
Missing	System	128	76.6		
Total		167	100.0		

Coded list of changes to shorelines (MAX 4) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Clearly defined trail to shoreline	10	5.8	23.8	23.8
	More docks	1	.6	2.4	26.2
	More parking	3	1.8	7.1	33.3
	Make improvements for seniors or disabled	1	.6	2.4	35.7
	More sand/Less rocks	7	4.1	16.7	52.4
	Pave trail to shoreline	2	1.2	4.8	57.1
	More fish	1	.6	2.4	59.5
	More campgrounds or campsites closer to shoreline	3	1.8	7.1	66.7
	Greater road access	3	1.8	7.1	73.8
	More designated swimming areas	1	.6	2.4	76.2
	Floating bathrooms	1	.6	2.4	78.6
	Other	8	4.7	19.0	97.6
	No response	1	.6	2.4	100.0
	Total	42	24.6	100.0	
Missing	System	129	75.4		
Total		171	100.0		

Coded list of changes to shorelines (MAX 4) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Clearly defined trail to shoreline	3	1.7	13.6	13.6
	More parking	2	1.1	9.1	22.7
	Make improvements for seniors or disabled	1	.6	4.5	27.3
	More sand/Less rocks	4	2.3	18.2	45.5
	More fish	1	.6	4.5	50.0
	Banks are too steep	1	.6	4.5	54.5
	Greater road access	1	.6	4.5	59.1
	More information about access	1	.6	4.5	63.6
	Other	6	3.4	27.3	90.9
	No response	2	1.1	9.1	100.0
	Total	22	12.6	100.0	
Missing	System	153	87.4		
Total		175	100.0		

Coded list of changes to shorelines (MAX 4) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Clearly defined trail to shoreline	4	2.2	9.5	9.5
	More docks	4	2.2	9.5	19.0
	Make improvements for seniors or disabled	3	1.6	7.1	26.2
	More sand/Less rocks	8	4.3	19.0	45.2
	More picnic or day-use areas	1	.5	2.4	47.6
	More campgrounds or campsites closer to shoreline	2	1.1	4.8	52.4
	Greater road access	2	1.1	4.8	57.1
	More designated swimming areas	1	.5	2.4	59.5
	More boat ramps	1	.5	2.4	61.9
	Other	13	7.1	31.0	92.9
	No response	3	1.6	7.1	100.0
	Total	42	22.8	100.0	
Missing	System	142	77.2		
Total		184	100.0		

Coded list of changes to shorelines 2 ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More sand/Less rocks	2	1.2	22.2	22.2
	Pave trail to shoreline	1	.6	11.1	33.3
	More picnic or day-use areas	1	.6	11.1	44.4
	Banks are too steep	1	.6	11.1	55.6
	More campgrounds or campsites closer to shoreline	1	.6	11.1	66.7
	Other	3	1.8	33.3	100.0
	Total	9	5.4	100.0	
Missing	System	158	94.6		
Total		167	100.0		

Coded list of changes to shorelines 2 ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Clearly defined trail to shoreline	1	.6	14.3	14.3
	Keep water levels up	1	.6	14.3	28.6
	More sand/Less rocks	1	.6	14.3	42.9
	More campgrounds or campsites closer to shoreline	1	.6	14.3	57.1
	Floating bathrooms	1	.6	14.3	71.4
	Other	1	.6	14.3	85.7
	No response	1	.6	14.3	100.0
	Total	7	4.1	100.0	
Missing	System	164	95.9		
Total		171	100.0		

Coded list of changes to shorelines 2 ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More fish	1	.6	50.0	50.0
	Other	1	.6	50.0	100.0
	Total	2	1.1	100.0	
Missing	System	173	98.9		
Total		175	100.0		

Coded list of changes to shorelines 2 ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Clearly defined trail to shoreline	1	.5	10.0	10.0
	Make improvements for seniors or disabled	1	.5	10.0	20.0
	More sand/Less rocks	2	1.1	20.0	40.0
	More campgrounds or campsites closer to shoreline	1	.5	10.0	50.0
	More designated swimming areas	1	.5	10.0	60.0
	More information about access	1	.5	10.0	70.0
	Other	2	1.1	20.0	90.0
	No response	1	.5	10.0	100.0
	Total	10	5.4	100.0	
Missing	System	174	94.6		
Total		184	100.0		

Coded list of changes to shorelines 3 ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More fish	1	.6	100.0	100.0
Missing	System	166	99.4		
Total		167	100.0		

Coded list of changes to shorelines 3 ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More sand/Less rocks	1	.6	50.0	50.0
	No response	1	.6	50.0	100.0
Total		2	1.2	100.0	
Missing	System	169	98.8		
Total		171	100.0		

Coded list of changes to shorelines 3 ~ GCR

		Frequency	Percent
Missing	System	175	100.0

Coded list of changes to shorelines 3 ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Make improvements for seniors or disabled	1	.5	50.0	50.0
	No response	1	.5	50.0	100.0
Total		2	1.1	100.0	
Missing	System	182	98.9		
Total		184	100.0		

Are improvements needed to make access to rivers or streams easier, safer OR more enjoyable? ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	At least one yes in 12a,b,c	16	9.6	9.6	9.6
	No	95	56.9	56.9	66.5
	No Opinion	56	33.5	33.5	100.0
Total		167	100.0	100.0	

Are improvements needed to make access to rivers or streams easier, safer OR more enjoyable? ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid At least one yes in 12a,b,c	10	5.8	5.8	5.8
No	95	55.6	55.6	61.4
No Opinion	66	38.6	38.6	100.0
Total	171	100.0	100.0	

Are improvements needed to make access to rivers or streams easier, safer OR more enjoyable? ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid At least one yes in 12a,b,c	15	8.6	8.6	8.6
No	126	72.0	72.0	80.6
No Opinion	34	19.4	19.4	100.0
Total	175	100.0	100.0	

Are improvements needed to make access to rivers or streams easier, safer OR more enjoyable? ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid At least one yes in 12a,b,c	10	5.4	5.4	5.4
No	105	57.1	57.1	62.5
No Opinion	69	37.5	37.5	100.0
Total	184	100.0	100.0	

Coded list of changes to rivers or streams (MAX 4) ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Improve road and trail access to river or stream	6	3.6	37.5	37.5
Paved trails or walkways	3	1.8	18.8	56.3
Picnic areas	1	.6	6.3	62.5
More information about access	1	.6	6.3	68.8
Improve accessibility for seniors or disabled	1	.6	6.3	75.0
Other	2	1.2	12.5	87.5
No response	2	1.2	12.5	100.0
Total	16	9.6	100.0	
Missing System	151	90.4		
Total	167	100.0		

Coded list of changes to rivers or streams (MAX 4) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve road and trail access to river or stream	5	2.9	50.0	50.0
	Better parking	1	.6	10.0	60.0
	More information about access	3	1.8	30.0	90.0
	No response	1	.6	10.0	100.0
	Total	10	5.8	100.0	
Missing	System	161	94.2		
Total		171	100.0		

Coded list of changes to rivers or streams (MAX 4) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve road and trail access to river or stream	8	4.6	53.3	53.3
	Paved trails or walkways	1	.6	6.7	60.0
	Better parking	1	.6	6.7	66.7
	Picnic areas	1	.6	6.7	73.3
	More information about access	2	1.1	13.3	86.7
	Remove some of the brush along river or stream	1	.6	6.7	93.3
	Improve accessibility for seniors or disabled	1	.6	6.7	100.0
	Total	15	8.6	100.0	
Missing	System	160	91.4		
Total		175	100.0		

Coded list of changes to rivers or streams (MAX 4) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve road and trail access to river or stream	5	2.7	50.0	50.0
	Better parking	1	.5	10.0	60.0
	Improve accessibility for seniors or disabled	1	.5	10.0	70.0
	Other	3	1.6	30.0	100.0
	Total	10	5.4	100.0	
Missing	System	174	94.6		
Total		184	100.0		

Coded list of changes to rivers or streams 2 ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	2	1.2	100.0	100.0
Missing	System	165	98.8		
Total		167	100.0		

Coded list of changes to rivers or streams 2 ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Better parking	1	.6	50.0	50.0
	No response	1	.6	50.0	100.0
	Total	2	1.2	100.0	
Missing	System	169	98.8		
Total		171	100.0		

Coded list of changes to rivers or streams 2 ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Picnic areas	1	.6	50.0	50.0
	Other	1	.6	50.0	100.0
	Total	2	1.1	100.0	
Missing	System	173	98.9		
Total		175	100.0		

Coded list of changes to rivers or streams 2 ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Better parking	1	.5	33.3	33.3
	Improve accessibility for seniors or disabled	1	.5	33.3	66.7
	No response	1	.5	33.3	100.0
	Total	3	1.6	100.0	
Missing	System	181	98.4		
Total		184	100.0		

Did water level allow you to participate in activities? ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	157	94.0	94.0	94.0
	No	4	2.4	2.4	96.4
	No Opinion	6	3.6	3.6	100.0
Total		167	100.0	100.0	

Did water level allow you to participate in activities? ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	158	92.4	92.4	92.4
	No	6	3.5	3.5	95.9
	No Opinion	7	4.1	4.1	100.0
	Total	171	100.0	100.0	

Did water level allow you to participate in activities? ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	149	85.1	85.1	85.1
	No	2	1.1	1.1	86.3
	No Opinion	24	13.7	13.7	100.0
	Total	175	100.0	100.0	

Did water level allow you to participate in activities? ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	170	92.4	92.4	92.4
	No	3	1.6	1.6	94.0
	No Opinion	11	6.0	6.0	100.0
	Total	184	100.0	100.0	

To what degree did water level impact? ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Minimal	1	.6	25.0	25.0
	Moderate	1	.6	25.0	50.0
	No response	2	1.2	50.0	100.0
	Total	4	2.4	100.0	
Missing	System	163	97.6		
Total		167	100.0		

To what degree did water level impact? ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Minimal	3	1.8	50.0	50.0
	Moderate	2	1.2	33.3	83.3
	No response	1	.6	16.7	100.0
	Total	6	3.5	100.0	
Missing	System	165	96.5		
Total		171	100.0		

To what degree did water level impact? ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No response	2	1.1	100.0	100.0
Missing	System	173	98.9		
Total		175	100.0		

To what degree did water level impact? ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Minimal	2	1.1	66.7	66.7
	Moderate	1	.5	33.3	100.0
	Total	3	1.6	100.0	
Missing	System	181	98.4		
Total		184	100.0		

List of what impacts (reservoir) ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	163	97.6	97.6	97.6
No Response.	2	1.2	1.2	98.8
On a nature walk it was difficult to collect rocks that are needed for my collection.	1	.6	.6	99.4
Water level low - had to walk further to water.	1	.6	.6	100.0
Total	167	100.0	100.0	

List of what impacts (reservoir) ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	165	96.5	96.5	96.5
Cancelled some activities	1	.6	.6	97.1
Low water level affects fishing.	1	.6	.6	97.7
No markers of shallow areas in reservoir opted not to boat.	1	.6	.6	98.2
No Response.	1	.6	.6	98.8
The water level looks like it has gone down over the course of the summer.	1	.6	.6	99.4
Water level too low.	1	.6	.6	100.0
Total	171	100.0	100.0	

List of what impacts (reservoir) ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	173	98.9	98.9	98.9
No Response.	2	1.1	1.1	100.0
Total	175	100.0	100.0	

List of what impacts (reservoir) ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	181	98.4	98.4	98.4
Hoping H2O level lower - so not so many people	1	.5	.5	98.9
No Fish.	1	.5	.5	99.5
Water level lower than normal - affects fishing.	1	.5	.5	100.0
Total	184	100.0	100.0	

Extent negatively affecting quality of experience (reservoirs) ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid None	154	92.2	92.2	92.2
Minimal	2	1.2	1.2	93.4
Moderate	3	1.8	1.8	95.2
Significant	1	.6	.6	95.8
No Opinion	7	4.2	4.2	100.0
Total	167	100.0	100.0	

Extent negatively affecting quality of experience (reservoirs) ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid None	154	90.1	90.1	90.1
Minimal	10	5.8	5.8	95.9
Moderate	2	1.2	1.2	97.1
No Opinion	5	2.9	2.9	100.0
Total	171	100.0	100.0	

Extent negatively affecting quality of experience (reservoirs) ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid None	152	86.9	86.9	86.9
Minimal	2	1.1	1.1	88.0
Moderate	2	1.1	1.1	89.1
No Opinion	19	10.9	10.9	100.0
Total	175	100.0	100.0	

Extent negatively affecting quality of experience (reservoirs) ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid None	166	90.2	90.2	90.2
Minimal	5	2.7	2.7	92.9
No Opinion	13	7.1	7.1	100.0
Total	184	100.0	100.0	

List of how (reservoir/quality) ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	161	96.4	96.4	96.4
Beaches farther from water.	1	.6	.6	97.0
I just couldn't do everything I planned.	1	.6	.6	97.6
Lots of rock (sandbar) put warning signs up.	1	.6	.6	98.2
Need extra fishing dock.	1	.6	.6	98.8
No Response	2	1.2	1.2	100.0
Total	167	100.0	100.0	

List of how (reservoir/quality) ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	159	93.0	93.0	93.0
A little low - have to walk.	1	.6	.6	93.6
As reservoir drops rocks appear-dangerous - install markers.	1	.6	.6	94.2
Had to walk further to get to water.	1	.6	.6	94.7
Harder to launch boat.	1	.6	.6	95.3
Large rocks used to jump off of - under water.	1	.6	.6	95.9
More rocks - hazards (need markers).	1	.6	.6	96.5
No Response	4	2.3	2.3	98.8
Water level was a little low.	1	.6	.6	99.4
Water was murky & silty - put gravel over more of the beach area.	1	.6	.6	100.0
Total	171	100.0	100.0	

List of how (reservoir/quality) ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	171	97.7	97.7	97.7
It was too cold to swim.	1	.6	.6	98.3
Keep at one level for fishing.	1	.6	.6	98.9
Little more water.	1	.6	.6	99.4
Took longer to get to water.	1	.6	.6	100.0
Total	175	100.0	100.0	

List of how (reservoir/quality) ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	179	97.3	97.3	97.3
Got snagged on some rocks while on Loon Lake.	1	.5	.5	97.8
Kinda high.	1	.5	.5	98.4
No Fish.	1	.5	.5	98.9
No Response	2	1.1	1.1	100.0
Total	184	100.0	100.0	

Did flow in streams allow participation ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	88	52.7	52.7	52.7
No	8	4.8	4.8	57.5
No Opinion	71	42.5	42.5	100.0
Total	167	100.0	100.0	

Did flow in streams allow participation ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	75	43.9	43.9	43.9
No	11	6.4	6.4	50.3
No Opinion	85	49.7	49.7	100.0
Total	171	100.0	100.0	

Did flow in streams allow participation ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	116	66.3	66.3	66.3
	No	10	5.7	5.7	72.0
	No Opinion	49	28.0	28.0	100.0
	Total	175	100.0	100.0	

Did flow in streams allow participation ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	72	39.1	39.1	39.1
	No	8	4.3	4.3	43.5
	No Opinion	104	56.5	56.5	100.0
	Total	184	100.0	100.0	

Degree negatively impact type of experience ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Moderate	2	1.2	25.0	25.0
	Significant	1	.6	12.5	37.5
	No response	5	3.0	62.5	100.0
	Total	8	4.8	100.0	
Missing	System	159	95.2		
	Total	167	100.0		

Degree negatively impact type of experience ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Minimal	2	1.2	18.2	18.2
	Moderate	2	1.2	18.2	36.4
	No response	7	4.1	63.6	100.0
	Total	11	6.4	100.0	
Missing	System	160	93.6		
	Total	171	100.0		

Degree negatively impact type of experience ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Minimal	2	1.1	20.0	20.0
	No response	8	4.6	80.0	100.0
	Total	10	5.7	100.0	
Missing	System	165	94.3		
	Total	175	100.0		

Degree negatively impact type of experience ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Minimal	3	1.6	37.5	37.5
	Moderate	2	1.1	25.0	62.5
	No response	3	1.6	37.5	100.0
	Total	8	4.3	100.0	
Missing	System	176	95.7		
Total		184	100.0		

List of what impacts (stream segments) ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		159	95.2	95.2	95.2
	Jones Fork Silver Creek - level too low, lots of debris, remove trees and logs, couldn't fish.	1	.6	.6	95.8
	No Response.	5	3.0	3.0	98.8
	Section coming from Ice House up to Wench Creek-wasn't able to swim & fish water too low.	1	.6	.6	99.4
	Silver Creek really low - could not stream fish because water was so low.	1	.6	.6	100.0
	Total	167	100.0	100.0	

List of what impacts (stream segments) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		160	93.6	93.6	93.6
	Bassi Falls - No water - wasn't enjoyable to hike or look at.	1	.6	.6	94.2
	Jones Fork Silver Creek - water level seemed really low.	1	.6	.6	94.7
	No Response.	7	4.1	4.1	98.8
	Water level looks low in all streams - not very pretty.	1	.6	.6	99.4
	Wench Creek Group/some water equipment wasn't used	1	.6	.6	100.0
	Total	171	100.0	100.0	

List of what impacts (stream segments) ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	165	94.3	94.3	94.3
GC below LLD-pools not deep enough for fish	1	.6	.6	94.9
increase flow slightly				
Gerle Creek low water level.	1	.6	.6	95.4
No Response.	8	4.6	4.6	100.0
Total	175	100.0	100.0	

List of what impacts (stream segments) ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	176	95.7	95.7	95.7
Gerle Creek below Loon Lake Dam - Beer Cans & trash in creek (from Jamboree)	1	.5	.5	96.2
Gerle Creek near AFCG looked low	1	.5	.5	96.7
No Response.	3	1.6	1.6	98.4
Silver Creek - Water was low, wasn't very pretty, didn't look natural.	1	.5	.5	98.9
Silver Creek, Gerle Creek - Water was a little low-made it difficult to fish.	1	.5	.5	99.5
South Rubicon River trail - fish trapped, no rushing water, could't enjoy scenery-conc'd about fish	1	.5	.5	100.0
Total	184	100.0	100.0	

Extent negatively affecting quality of experience (streams) ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid None	107	64.1	64.1	64.1
Minimal	2	1.2	1.2	65.3
Moderate	4	2.4	2.4	67.7
No Opinion	54	32.3	32.3	100.0
Total	167	100.0	100.0	

Extent negatively affecting quality of experience (streams) ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid None	92	53.8	53.8	53.8
Minimal	2	1.2	1.2	55.0
Moderate	4	2.3	2.3	57.3
No Opinion	72	42.1	42.1	99.4
No response	1	.6	.6	100.0
Total	171	100.0	100.0	

Extent negatively affecting quality of experience (streams) ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid None	129	73.7	73.7	73.7
Minimal	2	1.1	1.1	74.9
Moderate	3	1.7	1.7	76.6
Significant	1	.6	.6	77.1
No Opinion	40	22.9	22.9	100.0
Total	175	100.0	100.0	

Extent negatively affecting quality of experience (streams) ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid None	90	48.9	48.9	48.9
Minimal	5	2.7	2.7	51.6
Moderate	2	1.1	1.1	52.7
No Opinion	87	47.3	47.3	100.0
Total	184	100.0	100.0	

List of how (streams/quality) ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	161	96.4	96.4	96.4
Could only fish in small pools, not worthwhile.	1	.6	.6	97.0
Couldn't fish - planned activity.	1	.6	.6	97.6
I couldn't swim.	1	.6	.6	98.2
No Response	1	.6	.6	98.8
Streams were low, it made fishing difficult-but I went to the lakes.	1	.6	.6	99.4
Water was a little low in streams	1	.6	.6	100.0
Total	167	100.0	100.0	

List of how (streams/quality) ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	165	96.5	96.5	96.5
Expected more water - prettier to look at.	1	.6	.6	97.1
More water in streams makes a more worth while hike (scenic beauty).	1	.6	.6	97.7
No Response	3	1.8	1.8	99.4
No water in falls, made the hike pointless	1	.6	.6	100.0
Total	171	100.0	100.0	

List of how (streams/quality) ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	169	96.6	96.6	96.6
Fishing holes are not as deep - hard on fish.	1	.6	.6	97.1
Hurts Bread of fish	1	.6	.6	97.7
Little more water.	1	.6	.6	98.3
Location-walk further to find water.	1	.6	.6	98.9
Not many fish present-they need deeper pools	1	.6	.6	99.4
Poor flow for trout fishing.	1	.6	.6	100.0
Total	175	100.0	100.0	

List of how (streams/quality) ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	177	96.2	96.2	96.2
Didn't catch enough fish	1	.5	.5	96.7
Disappointing, could not sit by flowing water-it was brackish not attractive	1	.5	.5	97.3
Hoped for more water while hiking by river.	1	.5	.5	97.8
No Response	2	1.1	1.1	98.9
Poor fishing experience because water level was low.	1	.5	.5	99.5
Trash & beer cans in creek - opted not to fish.	1	.5	.5	100.0
Total	184	100.0	100.0	

Are there activities you are unable to participate in? ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	12	7.2	7.2	7.2
No	124	74.3	74.3	81.4
Don't Know	31	18.6	18.6	100.0
Total	167	100.0	100.0	

Are there activities you are unable to participate in? ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	18	10.5	10.5	10.5
No	135	78.9	78.9	89.5
Don't Know	17	9.9	9.9	99.4
No response	1	.6	.6	100.0
Total	171	100.0	100.0	

Are there activities you are unable to participate in? ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	10	5.7	5.7	5.7
No	148	84.6	84.6	90.3
Don't Know	17	9.7	9.7	100.0
Total	175	100.0	100.0	

Are there activities you are unable to participate in? ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	9	4.9	4.9	4.9
No	155	84.2	84.2	89.1
Don't Know	20	10.9	10.9	100.0
Total	184	100.0	100.0	

Coded list of activities ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Boating - don't have boat or no place to rent	3	1.8	25.0	25.0
Mountain biking - need trails or don't know where its allowe	1	.6	8.3	33.3
Quieter experience (w/o motorized vehicles)	1	.6	8.3	41.7
Horseback riding - enjoy it	1	.6	8.3	50.0
Dogs/Pet-based	1	.6	8.3	58.3
Other land based	5	3.0	41.7	100.0
Total	12	7.2	100.0	
Missing System	155	92.8		
Total	167	100.0		

Coded list of activities ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Boating - don't have boat or no place to rent	4	2.3	23.5	23.5
Horseshoes	3	1.8	17.6	41.2
Quieter experience (w/o motorized vehicles)	1	.6	5.9	47.1
Horseback riding - enjoy it	2	1.2	11.8	58.8
Other water based	2	1.2	11.8	70.6
Other land based	4	2.3	23.5	94.1
Other	1	.6	5.9	100.0
Total	17	9.9	100.0	
Missing System	154	90.1		
Total	171	100.0		

Coded list of activities ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Boating - don't have boat or no place to rent	2	1.1	20.0	20.0
	Mountain biking - need trails or don't know where its allowe	1	.6	10.0	30.0
	Horseshoes	1	.6	10.0	40.0
	Longer hikes	1	.6	10.0	50.0
	Other water based	1	.6	10.0	60.0
	Other land based	2	1.1	20.0	80.0
	Other	2	1.1	20.0	100.0
	Total	10	5.7	100.0	
Missing	System	165	94.3		
Total		175	100.0		

Coded list of activities ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Boating - don't have boat or no place to rent	2	1.1	20.0	20.0
	Horseshoes	1	.5	10.0	30.0
	Horseback riding - enjoy it	3	1.6	30.0	60.0
	Other land based	4	2.2	40.0	100.0
	Total	10	5.4	100.0	
Missing	System	174	94.6		
Total		184	100.0		

Any change or improvements to facility? ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	90	53.9	53.9	53.9
	No	70	41.9	41.9	95.8
	Don't Know	7	4.2	4.2	100.0
	Total	167	100.0	100.0	

Any change or improvements to facility? ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	93	54.4	54.4	54.4
	No	74	43.3	43.3	97.7
	Don't Know	4	2.3	2.3	100.0
	Total	171	100.0	100.0	

Any change or improvements to facility? ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	91	52.0	52.0	52.0
No	77	44.0	44.0	96.0
Don't Know	7	4.0	4.0	100.0
Total	175	100.0	100.0	

Any change or improvements to facility? ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	102	55.4	55.4	55.4
No	77	41.8	41.8	97.3
Don't Know	4	2.2	2.2	99.5
No response	1	.5	.5	100.0
Total	184	100.0	100.0	

Coded list of changes (MAX 3) ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Bathroom or shower related	42	25.1	46.7	46.7
Potable water related	7	4.2	7.8	54.4
Other developed facility changes related	7	4.2	7.8	62.2
Improve management services related	5	3.0	5.6	67.8
RV related	7	4.2	7.8	75.6
Boat launch related	4	2.4	4.4	80.0
Trails related	2	1.2	2.2	82.2
Install food storage boxes	1	.6	1.1	83.3
More campgrounds or campsites	5	3.0	5.6	88.9
Less powerboats	1	.6	1.1	90.0
Less personal water crafts	2	1.2	2.2	92.2
Buoys or markers identifying hazards	1	.6	1.1	93.3
Stock more fish	1	.6	1.1	94.4
Bee traps	1	.6	1.1	95.6
Other	2	1.2	2.2	97.8
No response	1	.6	1.1	98.9
Unreadable response	1	.6	1.1	100.0
Total	90	53.9	100.0	
Missing System	77	46.1		
Total	167	100.0		

Coded list of changes (MAX 3) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom or shower related	49	28.7	53.3	53.3
	Potable water related	15	8.8	16.3	69.6
	Other developed facility changes related	9	5.3	9.8	79.3
	Improve management services related	1	.6	1.1	80.4
	RV related	4	2.3	4.3	84.8
	Boat launch related	5	2.9	5.4	90.2
	Trails related	1	.6	1.1	91.3
	More beaches	5	2.9	5.4	96.7
	Less OHVs	1	.6	1.1	97.8
	Higher reservoir levels	1	.6	1.1	98.9
	Other	1	.6	1.1	100.0
	Total	92	53.8	100.0	
Missing	System	79	46.2		
Total		171	100.0		

Coded list of changes (MAX 3) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom or shower related	40	22.9	44.0	44.0
	Potable water related	9	5.1	9.9	53.8
	Other developed facility changes related	6	3.4	6.6	60.4
	Improve management services related	3	1.7	3.3	63.7
	RV related	4	2.3	4.4	68.1
	Trails related	1	.6	1.1	69.2
	Fix or improve roads	3	1.7	3.3	72.5
	Install food storage boxes	9	5.1	9.9	82.4
	Solve the bear problem	3	1.7	3.3	85.7
	More campgrounds or campsites	2	1.1	2.2	87.9
	Allow electric motors on Gerle Creek Reservoir	1	.6	1.1	89.0
	Better signs along roadway	1	.6	1.1	90.1
	Stock more fish	2	1.1	2.2	92.3
	Other	5	2.9	5.5	97.8
	No response	2	1.1	2.2	100.0
	Total	91	52.0	100.0	
Missing	System	84	48.0		
Total		175	100.0		

Coded list of changes (MAX 3) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom or shower related	39	21.2	37.9	37.9
	Potable water related	7	3.8	6.8	44.7
	Other developed facility changes related	5	2.7	4.9	49.5
	Improve management services related	4	2.2	3.9	53.4
	RV related	2	1.1	1.9	55.3
	Boat launch related	11	6.0	10.7	66.0
	Trails related	1	.5	1.0	67.0
	More first-come, first-serve opportunities	2	1.1	1.9	68.9
	Fix or improve roads	3	1.6	2.9	71.8
	Install food storage boxes	4	2.2	3.9	75.7
	Solve the bear problem	7	3.8	6.8	82.5
	More campgrounds or campsites	2	1.1	1.9	84.5
	More beaches	1	.5	1.0	85.4
	Less powerboats	3	1.6	2.9	88.3
	Less personal water crafts	2	1.1	1.9	90.3
	Buoys or markers identifying hazards	3	1.6	2.9	93.2
	Other	4	2.2	3.9	97.1
	No response	3	1.6	2.9	100.0
	Total	103	56.0	100.0	
Missing	System	81	44.0		
Total		184	100.0		

Coded list of changes 2 ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom or shower related	8	4.8	28.6	28.6
	Potable water related	5	3.0	17.9	46.4
	Other developed facility changes related	6	3.6	21.4	67.9
	Improve management services related	3	1.8	10.7	78.6
	Trails related	1	.6	3.6	82.1
	More campgrounds or campsites	1	.6	3.6	85.7
	More beaches	1	.6	3.6	89.3
	Less powerboats	1	.6	3.6	92.9
	Other	2	1.2	7.1	100.0
	Total	28	16.8	100.0	
Missing	System	139	83.2		
Total		167	100.0		

Coded list of changes 2 ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom or shower related	14	8.2	40.0	40.0
	Potable water related	6	3.5	17.1	57.1
	Other developed facility changes related	6	3.5	17.1	74.3
	Improve management services related	4	2.3	11.4	85.7
	Boat launch related	2	1.2	5.7	91.4
	More beaches	1	.6	2.9	94.3
	Other	2	1.2	5.7	100.0
	Total	35	20.5	100.0	
Missing	System	136	79.5		
Total		171	100.0		

Coded list of changes 2 ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom or shower related	10	5.7	38.5	38.5
	Potable water related	4	2.3	15.4	53.8
	Other developed facility changes related	4	2.3	15.4	69.2
	Improve management services related	1	.6	3.8	73.1
	Fix or improve roads	1	.6	3.8	76.9
	Install food storage boxes	3	1.7	11.5	88.5
	Solve the bear problem	1	.6	3.8	92.3
	More campgrounds or campsites	1	.6	3.8	96.2
	Other	1	.6	3.8	100.0
	Total	26	14.9	100.0	
Missing	System	149	85.1		
Total		175	100.0		

Coded list of changes 2 ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom or shower related	9	4.9	22.5	22.5
	Potable water related	6	3.3	15.0	37.5
	Other developed facility changes related	2	1.1	5.0	42.5
	Improve management services related	2	1.1	5.0	47.5
	RV related	3	1.6	7.5	55.0
	Boat launch related	3	1.6	7.5	62.5
	Install food storage boxes	5	2.7	12.5	75.0
	Solve the bear problem	2	1.1	5.0	80.0
	Less powerboats	1	.5	2.5	82.5
	Less personal water crafts	2	1.1	5.0	87.5
	Better signs along roadway	1	.5	2.5	90.0
	Stock more fish	1	.5	2.5	92.5
	Other	3	1.6	7.5	100.0
	Total	40	21.7	100.0	
Missing	System	144	78.3		
Total		184	100.0		

Coded list of changes 3 ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Potable water related	1	.6	20.0	20.0
	Other developed facility changes related	1	.6	20.0	40.0
	RV related	1	.6	20.0	60.0
	Boat launch related	1	.6	20.0	80.0
	More first-come, first-serve opportunities	1	.6	20.0	100.0
	Total	5	3.0	100.0	
Missing	System	162	97.0		
Total		167	100.0		

Coded list of changes 3 ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom or shower related	3	1.8	21.4	21.4
	Potable water related	2	1.2	14.3	35.7
	Other developed facility changes related	3	1.8	21.4	57.1
	Trails related	1	.6	7.1	64.3
	Install food storage boxes	1	.6	7.1	71.4
	Solve the bear problem	1	.6	7.1	78.6
	Other	3	1.8	21.4	100.0
	Total	14	8.2	100.0	
Missing	System	157	91.8		
Total		171	100.0		

Coded list of changes 3 ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other developed facility changes related	2	1.1	28.6	28.6
	Improve management services related	1	.6	14.3	42.9
	Trails related	1	.6	14.3	57.1
	Install food storage boxes	3	1.7	42.9	100.0
	Total	7	4.0	100.0	
Missing	System	168	96.0		
Total		175	100.0		

Coded list of changes 3 ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Potable water related	1	.5	9.1	9.1
	Other developed facility changes related	3	1.6	27.3	36.4
	Improve management services related	1	.5	9.1	45.5
	RV related	1	.5	9.1	54.5
	Install food storage boxes	1	.5	9.1	63.6
	Less personal water crafts	1	.5	9.1	72.7
	Bee traps	1	.5	9.1	81.8
	Other	2	1.1	18.2	100.0
	Total	11	6.0	100.0	
Missing	System	173	94.0		
Total		184	100.0		

Drill down of "bathroom or shower related 1" ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Shower	17	10.2	40.5	40.5
	Flush toilets	14	8.4	33.3	73.8
	Bathroom improvements	5	3.0	11.9	85.7
	More bathrooms	3	1.8	7.1	92.9
	Cleaner restrooms	3	1.8	7.1	100.0
	Total	42	25.1	100.0	
Missing	System	125	74.9		
Total		167	100.0		

Drill down of "bathroom or shower related 1" ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Shower	27	15.8	54.0	54.0
	Flush toilets	6	3.5	12.0	66.0
	Bathroom improvements	9	5.3	18.0	84.0
	More bathrooms	1	.6	2.0	86.0
	Floating bathrooms	1	.6	2.0	88.0
	Cleaner restrooms	6	3.5	12.0	100.0
	Total	50	29.2	100.0	
Missing	System	121	70.8		
Total		171	100.0		

Drill down of "bathroom or shower related 1" ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Shower	24	13.7	58.5	58.5
	Flush toilets	4	2.3	9.8	68.3
	Bathroom improvements	7	4.0	17.1	85.4
	Cleaner restrooms	4	2.3	9.8	95.1
	Other	2	1.1	4.9	100.0
	Total	41	23.4	100.0	
Missing	System	134	76.6		
Total		175	100.0		

Drill down of "bathroom or shower related 1" ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Shower	19	10.3	47.5	47.5
	Flush toilets	13	7.1	32.5	80.0
	Bathroom improvements	4	2.2	10.0	90.0
	More bathrooms	1	.5	2.5	92.5
	Cleaner restrooms	3	1.6	7.5	100.0
	Total	40	21.7	100.0	
Missing	System	144	78.3		
Total		184	100.0		

Drill down of "bathroom or shower related 2" ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Flush toilets	5	3.0	62.5	62.5
	Bathroom improvements	1	.6	12.5	75.0
	Cleaner restrooms	2	1.2	25.0	100.0
	Total	8	4.8	100.0	
Missing	System	159	95.2		
Total		167	100.0		

Drill down of "bathroom or shower related 2" ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Flush toilets	10	5.8	71.4	71.4
	Cleaner restrooms	3	1.8	21.4	92.9
	Other	1	.6	7.1	100.0
	Total	14	8.2	100.0	
Missing	System	157	91.8		
Total		171	100.0		

Drill down of "bathroom or shower related 2" ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Flush toilets	8	4.6	88.9	88.9
	Bathroom improvements	1	.6	11.1	100.0
	Total	9	5.1	100.0	
Missing	System	166	94.9		
Total		175	100.0		

Drill down of "bathroom or shower related 2" ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Flush toilets	5	2.7	62.5	62.5
	Bathroom improvements	1	.5	12.5	75.0
	Cleaner restrooms	2	1.1	25.0	100.0
	Total	8	4.3	100.0	
Missing	System	176	95.7		
Total		184	100.0		

Drill down of "bathroom or shower related 3" ~ IHR

		Frequency	Percent
Missing	System	167	100.0

Drill down of "bathroom or shower related 3" ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bathroom improvements	1	.6	50.0	50.0
	Cleaner restrooms	1	.6	50.0	100.0
	Total	2	1.2	100.0	
Missing	System	169	98.8		
Total		171	100.0		

Drill down of "bathroom or shower related 3" ~ GCR

		Frequency	Percent
Missing	System	175	100.0

Drill down of "bathroom or shower related 3" ~ LLR

		Frequency	Percent
Missing	System	184	100.0

Drill down of "potable water related" ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Provide potable water	4	2.4	30.8	30.8
	Potable water for dishes and hand washing	7	4.2	53.8	84.6
	Potable water to fill up RVs	1	.6	7.7	92.3
	Potable water at campsite	1	.6	7.7	100.0
	Total	13	7.8	100.0	
Missing	System	154	92.2		
Total		167	100.0		

Drill down of "potable water related" ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Provide potable water	6	3.5	26.1	26.1
	Potable water for dishes and hand washing	9	5.3	39.1	65.2
	Improve taste of water	1	.6	4.3	69.6
	Improve water pressure/availability	5	2.9	21.7	91.3
	Do not add potable water	1	.6	4.3	95.7
	Other	1	.6	4.3	100.0
	Total	23	13.5	100.0	
Missing	System	148	86.5		
Total		171	100.0		

Drill down of "potable water related" ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Provide potable water	8	4.6	61.5	61.5
	Potable water for dishes and hand washing	3	1.7	23.1	84.6
	Potable water at campsite	2	1.1	15.4	100.0
	Total	13	7.4	100.0	
Missing	System	162	92.6		
Total		175	100.0		

Drill down of "potable water related" ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Provide potable water	2	1.1	14.3	14.3
	Potable water for dishes and hand washing	6	3.3	42.9	57.1
	Potable water to fill up RVs	2	1.1	14.3	71.4
	Potable water at campsite	2	1.1	14.3	85.7
	Other	2	1.1	14.3	100.0
	Total	14	7.6	100.0	
Missing	System	170	92.4		
Total		184	100.0		

Drill down of "other developed facility changes 1" ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More picnic tables	5	3.0	50.0	50.0
	bigger parking lot	1	.6	10.0	60.0
	Other	4	2.4	40.0	100.0
	Total	10	6.0	100.0	
Missing	System	157	94.0		
Total		167	100.0		

Drill down of "other developed facility changes 1" ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More picnic tables	4	2.3	23.5	23.5
	bigger parking lot	3	1.8	17.6	41.2
	Other	10	5.8	58.8	100.0
	Total	17	9.9	100.0	
Missing	System	154	90.1		
Total		171	100.0		

Drill down of "other developed facility changes 1" ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More picnic tables	1	.6	9.1	9.1
	bigger parking lot	4	2.3	36.4	45.5
	Other	6	3.4	54.5	100.0
	Total	11	6.3	100.0	
Missing	System	164	93.7		
Total		175	100.0		

Drill down of "other developed facility changes 1" ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More picnic tables	1	.5	11.1	11.1
	bigger parking lot	2	1.1	22.2	33.3
	Other	6	3.3	66.7	100.0
	Total	9	4.9	100.0	
Missing	System	175	95.1		
Total		184	100.0		

Drill down of "other developed facility changes 2" ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	bigger parking lot	1	.6	33.3	33.3
	Other	2	1.2	66.7	100.0
	Total	3	1.8	100.0	
Missing	System	164	98.2		
Total		167	100.0		

Drill down of "other developed facility changes 2" ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	1	.6	100.0	100.0
Missing	System	170	99.4		
Total		171	100.0		

Drill down of "other developed facility changes 2" ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	1	.6	100.0	100.0
Missing	System	174	99.4		
Total		175	100.0		

Drill down of "other developed facility changes 2" ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	1	.5	100.0	100.0
Missing	System	183	99.5		
Total		184	100.0		

Drill down of "improve management services" ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Enforce quiet hours	3	1.8	37.5	37.5
	Reduce litter	2	1.2	25.0	62.5
	More trash removal	3	1.8	37.5	100.0
	Total	8	4.8	100.0	
Missing	System	159	95.2		
Total		167	100.0		

Drill down of "improve management services" ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Enforce quiet hours	2	1.2	40.0	40.0
	Reduce litter	2	1.2	40.0	80.0
	More trash removal	1	.6	20.0	100.0
	Total	5	2.9	100.0	
Missing	System	166	97.1		
Total		171	100.0		

Drill down of "improve management services" ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Enforce quiet hours	2	1.1	40.0	40.0
	More trash removal	2	1.1	40.0	80.0
	Other	1	.6	20.0	100.0
	Total	5	2.9	100.0	
Missing	System	170	97.1		
Total		175	100.0		

Drill down of "improve management services" ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Enforce quiet hours	2	1.1	28.6	28.6
	More trash removal	4	2.2	57.1	85.7
	Other	1	.5	14.3	100.0
	Total	7	3.8	100.0	
Missing	System	177	96.2		
Total		184	100.0		

Drill down of "RV related 1" ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More access for larger RVS	3	1.8	37.5	37.5
	Hookups for RVs	2	1.2	25.0	62.5
	Other	3	1.8	37.5	100.0
	Total	8	4.8	100.0	
Missing	System	159	95.2		
Total		167	100.0		

Drill down of "RV related 1" ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More access for larger RVS	3	1.8	75.0	75.0
	Hookups for RVs	1	.6	25.0	100.0
	Total	4	2.3	100.0	
Missing	System	167	97.7		
Total		171	100.0		

Drill down of "RV related 1" ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More access for larger RVS	2	1.1	50.0	50.0
	Hookups for RVs	1	.6	25.0	75.0
	Other	1	.6	25.0	100.0
	Total	4	2.3	100.0	
Missing	System	171	97.7		
Total		175	100.0		

Drill down of "RV related 1" ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More access for larger RVS	4	2.2	80.0	80.0
	Hookups for RVs	1	.5	20.0	100.0
	Total	5	2.7	100.0	
Missing	System	179	97.3		
Total		184	100.0		

Drill down of "boat launch related" ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Launching improvements	3	1.8	60.0	60.0
	Other	2	1.2	40.0	100.0
	Total	5	3.0	100.0	
Missing	System	162	97.0		
Total		167	100.0		

Drill down of "boat launch related" ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Launching improvements	5	2.9	71.4	71.4
	Other	2	1.2	28.6	100.0
	Total	7	4.1	100.0	
Missing	System	164	95.9		
Total		171	100.0		

Drill down of "boat launch related" ~ GCR

		Frequency	Percent
Missing	System	175	100.0

Drill down of "boat launch related" ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Launching improvements	11	6.0	78.6	78.6
	Other	3	1.6	21.4	100.0
	Total	14	7.6	100.0	
Missing	System	170	92.4		
Total		184	100.0		

Drill down of "trails related" ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Increase/improve trails	3	1.8	100.0	100.0
Missing	System	164	98.2		
Total		167	100.0		

Drill down of "trails related" ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Increase/improve trails	2	1.2	100.0	100.0
Missing	System	169	98.8		
Total		171	100.0		

Drill down of "trails related" ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Increase/improve trails	2	1.1	100.0	100.0
Missing	System	173	98.9		
Total		175	100.0		

Drill down of "trails related" ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Increase/improve trails	1	.5	100.0	100.0
Missing	System	183	99.5		
Total		184	100.0		

Mountain/Forested area ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	1	.6	.6	.6
	Somewhat important	4	2.4	2.4	3.0
	Moderately important	17	10.2	10.2	13.2
	Extremely important	144	86.2	86.2	99.4
	No response	1	.6	.6	100.0
Total		167	100.0	100.0	

Mountain/Forested area ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	2	1.2	1.2	1.2
	Somewhat important	3	1.8	1.8	2.9
	Moderately important	21	12.3	12.3	15.2
	Extremely important	145	84.8	84.8	100.0
Total		171	100.0	100.0	

Mountain/Forested area ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	1	.6	.6	.6
	Somewhat important	1	.6	.6	1.1
	Moderately important	20	11.4	11.4	12.6
	Extremely important	153	87.4	87.4	100.0
	Total	175	100.0	100.0	

Mountain/Forested area ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Somewhat important	4	2.2	2.2	2.2
	Moderately important	17	9.2	9.2	11.4
	Extremely important	163	88.6	88.6	100.0
	Total	184	100.0	100.0	

Natural Lakes & Ponds ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	3	1.8	1.8	1.8
	Somewhat important	11	6.6	6.6	8.4
	Moderately important	22	13.2	13.2	21.6
	Extremely important	130	77.8	77.8	99.4
	No response	1	.6	.6	100.0
	Total	167	100.0	100.0	

Natural Lakes & Ponds ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	10	5.8	5.8	5.8
	Somewhat important	14	8.2	8.2	14.0
	Moderately important	30	17.5	17.5	31.6
	Extremely important	117	68.4	68.4	100.0
	Total	171	100.0	100.0	

Natural Lakes & Ponds ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	3	1.7	1.7	1.7
	Somewhat important	2	1.1	1.1	2.9
	Moderately important	36	20.6	20.6	23.4
	Extremely important	134	76.6	76.6	100.0
	Total	175	100.0	100.0	

Natural Lakes & Ponds ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	3	1.6	1.6	1.6
Somewhat important	5	2.7	2.7	4.3
Moderately important	26	14.1	14.1	18.5
Extremely important	150	81.5	81.5	100.0
Total	184	100.0	100.0	

Reservoirs ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	3	1.8	1.8	1.8
Somewhat important	6	3.6	3.6	5.4
Moderately important	29	17.4	17.4	22.8
Extremely important	128	76.6	76.6	99.4
No response	1	.6	.6	100.0
Total	167	100.0	100.0	

Reservoirs ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	2	1.2	1.2	1.2
Somewhat important	16	9.4	9.4	10.5
Moderately important	23	13.5	13.5	24.0
Extremely important	130	76.0	76.0	100.0
Total	171	100.0	100.0	

Reservoirs ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	5	2.9	2.9	2.9
Somewhat important	15	8.6	8.6	11.4
Moderately important	42	24.0	24.0	35.4
Extremely important	113	64.6	64.6	100.0
Total	175	100.0	100.0	

Reservoirs ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	3	1.6	1.6	1.6
	Somewhat important	13	7.1	7.1	8.7
	Moderately important	26	14.1	14.1	22.8
	Extremely important	142	77.2	77.2	100.0
	Total	184	100.0	100.0	

Rivers/Streams ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	5	3.0	3.0	3.0
	Somewhat important	9	5.4	5.4	8.4
	Moderately important	33	19.8	19.8	28.1
	Extremely important	119	71.3	71.3	99.4
	No response	1	.6	.6	100.0
	Total	167	100.0	100.0	

Rivers/Streams ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	12	7.0	7.0	7.0
	Somewhat important	24	14.0	14.0	21.1
	Moderately important	32	18.7	18.7	39.8
	Extremely important	103	60.2	60.2	100.0
	Total	171	100.0	100.0	

Rivers/Streams ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	1	.6	.6	.6
	Somewhat important	5	2.9	2.9	3.4
	Moderately important	37	21.1	21.1	24.6
	Extremely important	132	75.4	75.4	100.0
	Total	175	100.0	100.0	

Rivers/Streams ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	9	4.9	4.9	4.9
	Somewhat important	26	14.1	14.1	19.0
	Moderately important	39	21.2	21.2	40.2
	Extremely important	110	59.8	59.8	100.0
	Total	184	100.0	100.0	

Boat Launch Ramps ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	26	15.6	15.6	15.6
	Somewhat important	25	15.0	15.0	30.5
	Moderately important	34	20.4	20.4	50.9
	Extremely important	81	48.5	48.5	99.4
	No response	1	.6	.6	100.0
	Total	167	100.0	100.0	

Boat Launch Ramps ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	35	20.5	20.5	20.5
	Somewhat important	24	14.0	14.0	34.5
	Moderately important	32	18.7	18.7	53.2
	Extremely important	80	46.8	46.8	100.0
	Total	171	100.0	100.0	

Boat Launch Ramps ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	78	44.6	44.6	44.6
	Somewhat important	38	21.7	21.7	66.3
	Moderately important	20	11.4	11.4	77.7
	Extremely important	38	21.7	21.7	99.4
	No response	1	.6	.6	100.0
	Total	175	100.0	100.0	

Boat Launch Ramps ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	30	16.3	16.3	16.3
	Somewhat important	43	23.4	23.4	39.7
	Moderately important	37	20.1	20.1	59.8
	Extremely important	74	40.2	40.2	100.0
	Total	184	100.0	100.0	

Developed Campgrounds ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	11	6.6	6.6	6.6
	Somewhat important	21	12.6	12.6	19.2
	Moderately important	41	24.6	24.6	43.7
	Extremely important	93	55.7	55.7	99.4
	No response	1	.6	.6	100.0
	Total	167	100.0	100.0	

Developed Campgrounds ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	18	10.5	10.5	10.5
	Somewhat important	18	10.5	10.5	21.1
	Moderately important	54	31.6	31.6	52.6
	Extremely important	80	46.8	46.8	99.4
	No response	1	.6	.6	100.0
	Total	171	100.0	100.0	

Developed Campgrounds ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	14	8.0	8.0	8.0
	Somewhat important	11	6.3	6.3	14.3
	Moderately important	51	29.1	29.1	43.4
	Extremely important	99	56.6	56.6	100.0
	Total	175	100.0	100.0	

Developed Campgrounds ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	7	3.8	3.8	3.8
	Somewhat important	19	10.3	10.3	14.1
	Moderately important	61	33.2	33.2	47.3
	Extremely important	97	52.7	52.7	100.0
	Total	184	100.0	100.0	

Developed Swimming/Beach Areas ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	28	16.8	16.8	16.8
	Somewhat important	33	19.8	19.8	36.5
	Moderately important	37	22.2	22.2	58.7
	Extremely important	68	40.7	40.7	99.4
	No response	1	.6	.6	100.0
	Total	167	100.0	100.0	

Developed Swimming/Beach Areas ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	46	26.9	26.9	26.9
	Somewhat important	31	18.1	18.1	45.0
	Moderately important	38	22.2	22.2	67.3
	Extremely important	56	32.7	32.7	100.0
	Total	171	100.0	100.0	

Developed Swimming/Beach Areas ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	42	24.0	24.0	24.0
	Somewhat important	42	24.0	24.0	48.0
	Moderately important	43	24.6	24.6	72.6
	Extremely important	47	26.9	26.9	99.4
	No response	1	.6	.6	100.0
	Total	175	100.0	100.0	

Developed Swimming/Beach Areas ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	30	16.3	16.3	16.3
	Somewhat important	47	25.5	25.5	41.8
	Moderately important	44	23.9	23.9	65.8
	Extremely important	62	33.7	33.7	99.5
	No response	1	.5	.5	100.0
	Total	184	100.0	100.0	

Non-motorized Trails ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	30	18.0	18.0	18.0
	Somewhat important	28	16.8	16.8	34.7
	Moderately important	53	31.7	31.7	66.5
	Extremely important	55	32.9	32.9	99.4
	No response	1	.6	.6	100.0
	Total	167	100.0	100.0	

Non-motorized Trails ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	38	22.2	22.2	22.2
	Somewhat important	23	13.5	13.5	35.7
	Moderately important	62	36.3	36.3	71.9
	Extremely important	48	28.1	28.1	100.0
	Total	171	100.0	100.0	

Non-motorized Trails ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	19	10.9	10.9	10.9
	Somewhat important	23	13.1	13.1	24.0
	Moderately important	46	26.3	26.3	50.3
	Extremely important	86	49.1	49.1	99.4
	No response	1	.6	.6	100.0
	Total	175	100.0	100.0	

Non-motorized Trails ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	27	14.7	14.7	14.7
Somewhat important	25	13.6	13.6	28.3
Moderately important	57	31.0	31.0	59.2
Extremely important	75	40.8	40.8	100.0
Total	184	100.0	100.0	

OHV Trails ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	67	40.1	40.1	40.1
Somewhat important	37	22.2	22.2	62.3
Moderately important	20	12.0	12.0	74.3
Extremely important	41	24.6	24.6	98.8
No response	2	1.2	1.2	100.0
Total	167	100.0	100.0	

OHV Trails ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	75	43.9	43.9	43.9
Somewhat important	43	25.1	25.1	69.0
Moderately important	13	7.6	7.6	76.6
Extremely important	40	23.4	23.4	100.0
Total	171	100.0	100.0	

OHV Trails ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	71	40.6	40.6	40.6
Somewhat important	33	18.9	18.9	59.4
Moderately important	21	12.0	12.0	71.4
Extremely important	48	27.4	27.4	98.9
No response	2	1.1	1.1	100.0
Total	175	100.0	100.0	

OHV Trails ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	85	46.2	46.2	46.2
	Somewhat important	34	18.5	18.5	64.7
	Moderately important	24	13.0	13.0	77.7
	Extremely important	40	21.7	21.7	99.5
	No response	1	.5	.5	100.0
	Total	184	100.0	100.0	

Picnic Facilities ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	20	12.0	12.0	12.0
	Somewhat important	30	18.0	18.0	29.9
	Moderately important	44	26.3	26.3	56.3
	Extremely important	72	43.1	43.1	99.4
	No response	1	.6	.6	100.0
	Total	167	100.0	100.0	

Picnic Facilities ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	31	18.1	18.1	18.1
	Somewhat important	35	20.5	20.5	38.6
	Moderately important	56	32.7	32.7	71.3
	Extremely important	49	28.7	28.7	100.0
	Total	171	100.0	100.0	

Picnic Facilities ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	23	13.1	13.1	13.1
	Somewhat important	45	25.7	25.7	38.9
	Moderately important	54	30.9	30.9	69.7
	Extremely important	52	29.7	29.7	99.4
	No response	1	.6	.6	100.0
	Total	175	100.0	100.0	

Picnic Facilities ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	15	8.2	8.2	8.2
	Somewhat important	34	18.5	18.5	26.6
	Moderately important	63	34.2	34.2	60.9
	Extremely important	71	38.6	38.6	99.5
	No response	1	.5	.5	100.0
	Total	184	100.0	100.0	

Two-Laned Paved Road Access ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	10	6.0	6.0	6.0
	Somewhat important	15	9.0	9.0	15.0
	Moderately important	49	29.3	29.3	44.3
	Extremely important	92	55.1	55.1	99.4
	No response	1	.6	.6	100.0
	Total	167	100.0	100.0	

Two-Laned Paved Road Access ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	20	11.7	11.7	11.7
	Somewhat important	27	15.8	15.8	27.5
	Moderately important	43	25.1	25.1	52.6
	Extremely important	81	47.4	47.4	100.0
	Total	171	100.0	100.0	

Two-Laned Paved Road Access ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	17	9.7	9.7	9.7
	Somewhat important	27	15.4	15.4	25.1
	Moderately important	60	34.3	34.3	59.4
	Extremely important	70	40.0	40.0	99.4
	No response	1	.6	.6	100.0
	Total	175	100.0	100.0	

Two-Laned Paved Road Access ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	11	6.0	6.0	6.0
	Somewhat important	24	13.0	13.0	19.0
	Moderately important	53	28.8	28.8	47.8
	Extremely important	96	52.2	52.2	100.0
	Total	184	100.0	100.0	

How likely or unlikely to come to CB ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very unlikely	46	27.5	27.5	27.5
	Unlikely	49	29.3	29.3	56.9
	Likely	46	27.5	27.5	84.4
	Very likely	22	13.2	13.2	97.6
	Don't know	2	1.2	1.2	98.8
	No response	2	1.2	1.2	100.0
	Total	167	100.0	100.0	

How likely or unlikely to come to CB ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very unlikely	66	38.6	38.6	38.6
	Unlikely	45	26.3	26.3	64.9
	Likely	38	22.2	22.2	87.1
	Very likely	20	11.7	11.7	98.8
	Don't know	2	1.2	1.2	100.0
	Total	171	100.0	100.0	

How likely or unlikely to come to CB ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very unlikely	33	18.9	18.9	18.9
	Unlikely	43	24.6	24.6	43.4
	Likely	56	32.0	32.0	75.4
	Very likely	41	23.4	23.4	98.9
	Don't know	2	1.1	1.1	100.0
	Total	175	100.0	100.0	

How likely or unlikely to come to CB ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very unlikely	47	25.5	25.5	25.5
	Unlikely	58	31.5	31.5	57.1
	Likely	43	23.4	23.4	80.4
	Very likely	32	17.4	17.4	97.8
	Don't know	4	2.2	2.2	100.0
Total		184	100.0	100.0	

Recreation activities that conflicted with your recreation activities ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	31	18.6	18.6	18.6
	No	130	77.8	77.8	96.4
	No Opinion	5	3.0	3.0	99.4
	No response	1	.6	.6	100.0
	Total	167	100.0	100.0	

Recreation activities that conflicted with your recreation activities ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	20	11.7	11.7	11.7
	No	149	87.1	87.1	98.8
	No Opinion	2	1.2	1.2	100.0
	Total	171	100.0	100.0	

Recreation activities that conflicted with your recreation activities ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	23	13.1	13.1	13.1
	No	149	85.1	85.1	98.3
	No Opinion	3	1.7	1.7	100.0
	Total	175	100.0	100.0	

recreation activities that conflicted with your recreation activities ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	26	14.1	14.1	14.1
	No	158	85.9	85.9	100.0
	Total	184	100.0	100.0	

What recreation activities conflicted with your recreation activities (MAX 2) ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Motor boating related	6	3.6	19.4	19.4
	OHV - too loud, disruption of peace	1	.6	3.2	22.6
	PWC - nosiy and disruptive	10	6.0	32.3	54.8
	Gunshots or fireworks - noisy, dangerous, made nervous	3	1.8	9.7	64.5
	Swimmers - disrupts fishing, boat hazard	1	.6	3.2	67.7
	Rowdy people - noisy, disruptive of peace	7	4.2	22.6	90.3
	Other	2	1.2	6.5	96.8
	No response	1	.6	3.2	100.0
	Total	31	18.6	100.0	
Missing	System	136	81.4		
Total		167	100.0		

What recreation activities conflicted with your recreation activities (MAX 2) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Motor boating related	4	2.3	20.0	20.0
	OHV - too loud, disruption of peace	5	2.9	25.0	45.0
	PWC - nosiy and disruptive	3	1.8	15.0	60.0
	Rowdy people - noisy, disruptive of peace	7	4.1	35.0	95.0
	Other	1	.6	5.0	100.0
	Total	20	11.7	100.0	
Missing	System	151	88.3		
Total		171	100.0		

What recreation activities conflicted with your recreation activities (MAX 2) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Motor boating related	2	1.1	8.7	8.7
	OHV - too loud, disruption of peace	9	5.1	39.1	47.8
	PWC - nosiy and disruptive	1	.6	4.3	52.2
	Gunshots or fireworks - noisy, dangerous, made nervous	4	2.3	17.4	69.6
	Rowdy people - noisy, disruptive of peace	4	2.3	17.4	87.0
	Other	3	1.7	13.0	100.0
	Total	23	13.1	100.0	
Missing	System	152	86.9		
Total		175	100.0		

What recreation activities conflicted with your recreation activities (MAX 2) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Motor boating related	5	2.7	19.2	19.2
	OHV - too loud, disruption of peace	4	2.2	15.4	34.6
	PWC - nosiy and disruptive	3	1.6	11.5	46.2
	Gunshots or fireworks - noisy, dangerous, made nervous	5	2.7	19.2	65.4
	Rowdy people - noisy, disruptive of peace	7	3.8	26.9	92.3
	Other	2	1.1	7.7	100.0
	Total	26	14.1	100.0	
Missing	System	158	85.9		
Total		184	100.0		

Drill down of "motor boating" ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	noisy	2	1.2	33.3	33.3
	wake	2	1.2	33.3	66.7
	Other	2	1.2	33.3	100.0
	Total	6	3.6	100.0	
Missing	System	161	96.4		
Total		167	100.0		

Drill down of "motor boating" ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	noisy	2	1.2	50.0	50.0
	wake	2	1.2	50.0	100.0
	Total	4	2.3	100.0	
Missing	System	167	97.7		
Total		171	100.0		

Drill down of "motor boating" ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	noisy	1	.6	50.0	50.0
	wake	1	.6	50.0	100.0
	Total	2	1.1	100.0	
Missing	System	173	98.9		
Total		175	100.0		

Drill down of "motor boating" ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	noisy	3	1.6	60.0	60.0
	Other	2	1.1	40.0	100.0
	Total	5	2.7	100.0	
Missing	System	179	97.3		
Total		184	100.0		

What recreation activities conflicted with your recreation activities 2 ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	PWC - nosiy and disruptive	2	1.2	66.7	66.7
	Rowdy people - noisy, disruptive of peace	1	.6	33.3	100.0
	Total	3	1.8	100.0	
Missing	System	164	98.2		
Total		167	100.0		

What recreation activities conflicted with your recreation activities 2 ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	PWC - nosiy and disruptive	2	1.2	33.3	33.3
	Gunshots or fireworks - nosiy, dangerous, made nervous	1	.6	16.7	50.0
	Rowdy people - nosiy, disruptive of peace	3	1.8	50.0	100.0
	Total	6	3.5	100.0	
Missing	System	165	96.5		
Total		171	100.0		

What recreation activities conflicted with your recreation activities 2 ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	OHV - too loud, disruption of peace	1	.6	20.0	20.0
	Gunshots or fireworks - nosiy, dangerous, made nervous	1	.6	20.0	40.0
	Swimmers - disrupts fishing, boat hazard	1	.6	20.0	60.0
	Rowdy people - nosiy, disruptive of peace	2	1.1	40.0	100.0
	Total	5	2.9	100.0	
Missing	System	170	97.1		
Total		175	100.0		

What recreation activities conflicted with your recreation activities 2 ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	PWC - nosiy and disruptive	2	1.1	33.3	33.3
	Swimmers - disrupts fishing, boat hazard	1	.5	16.7	50.0
	Rowdy people - nosiy, disruptive of peace	2	1.1	33.3	83.3
	Other	1	.5	16.7	100.0
	Total	6	3.3	100.0	
Missing	System	178	96.7		
Total		184	100.0		

Non-recreation activities that conflicted with your recreation activities ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	2	1.2	1.2	1.2
No	157	94.0	94.0	95.2
No Opinion	6	3.6	3.6	98.8
No response	2	1.2	1.2	100.0
Total	167	100.0	100.0	

Non-recreation activities that conflicted with your recreation activities ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	6	3.5	3.5	3.5
No	162	94.7	94.7	98.2
No Opinion	2	1.2	1.2	99.4
No response	1	.6	.6	100.0
Total	171	100.0	100.0	

Non-recreation activities that conflicted with your recreation activities ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	6	3.4	3.4	3.4
No	163	93.1	93.1	96.6
No Opinion	3	1.7	1.7	98.3
No response	3	1.7	1.7	100.0
Total	175	100.0	100.0	

Non-recreation activities that conflicted with your recreation activities ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	7	3.8	3.8	3.8
No	177	96.2	96.2	100.0
Total	184	100.0	100.0	

List of non-recreation activities that conflicted with your recreation activities ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	165	98.8	98.8	98.8
Gravel pit - eyesore	1	.6	.6	99.4
Hunting - sound is disturbing.	1	.6	.6	100.0
Total	167	100.0	100.0	

List of non-recreation activities that conflicted with your recreation activities ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	165	96.5	96.5	96.5
Bears - camped at Sunset to get away from them.	1	.6	.6	97.1
Campground host not needed/stated CG resv. but was	1	.6	.6	97.7
Fire danger - didn't go dispersed camping.	1	.6	.6	98.2
Intruders during camping (w/rifle)	1	.6	.6	98.8
Logging trucks early in morning-noise.	1	.6	.6	99.4
YJCG water system shut down at night - bathrooms closed.	1	.6	.6	100.0
Total	171	100.0	100.0	

List of non-recreation activities that conflicted with your recreation activities ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	169	96.6	96.6	96.6
Construction Noise	1	.6	.6	97.1
Construction of a bridge over GC - trail closed.	1	.6	.6	97.7
Logging	2	1.1	1.1	98.9
Trucks hauling gravel down Ice House Rd - going too fast - making driving dangerous.	1	.6	.6	99.4
Workmen working on road to Angel Creek - noise during day.	1	.6	.6	100.0
Total	175	100.0	100.0	

List of non-recreation activities that conflicted with your recreation activities ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	177	96.2	96.2	96.2
Bears - could not sleep; afraid	1	.5	.5	96.7
Bears - safety issue	1	.5	.5	97.3
Bears	1	.5	.5	97.8
Bees - put bee traps in trees at campsites	1	.5	.5	98.4
Roads blocked - denied access	1	.5	.5	98.9
St. Pauli fire on Hwy 50 cut stay in 1/2	1	.5	.5	99.5
Wentworth Springs Rd construction - too rough & dusty	1	.5	.5	100.0
Total	184	100.0	100.0	

Recreation activities causing harm to the environment ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	45	26.9	26.9	26.9
	No	112	67.1	67.1	94.0
	No Opinion	8	4.8	4.8	98.8
	No response	2	1.2	1.2	100.0
	Total	167	100.0	100.0	

Recreation activities causing harm to the environment ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	33	19.3	19.3	19.3
	No	138	80.7	80.7	100.0
	Total	171	100.0	100.0	

Recreation activities causing harm to the environment ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	36	20.6	20.6	20.6
	No	134	76.6	76.6	97.1
	No Opinion	5	2.9	2.9	100.0
	Total	175	100.0	100.0	

Recreation activities causing harm to the environment ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	45	24.5	24.5	24.5
	No	132	71.7	71.7	96.2
	No Opinion	7	3.8	3.8	100.0
	Total	184	100.0	100.0	

What recreation activities caused harm to the environment (MAX 2) ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	OHVs - degrades forest, erosion, air pollution	4	2.4	8.9	8.9
	Personal water craft - water and air pollution	8	4.8	17.8	26.7
	Power boats - water and air pollution	5	3.0	11.1	37.8
	Visitors leaving trash behind	11	6.6	24.4	62.2
	Gun shooting - dangerous	3	1.8	6.7	68.9
	Campfires outside of developed campgrounds	1	.6	2.2	71.1
	Hunters-killing wildlife	3	1.8	6.7	77.8
	Campfires too big or left burning-forest fire hazard	2	1.2	4.4	82.2
	Cutting or chopping trees	5	3.0	11.1	93.3
	Other	3	1.8	6.7	100.0
	Total	45	26.9	100.0	
Missing	System	122	73.1		
Total		167	100.0		

What recreation activities caused harm to the environment (MAX 2) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	OHVs - degrades forest, erosion, air pollution	3	1.8	9.1	9.1
	Personal water craft - water and air pollution	4	2.3	12.1	21.2
	Power boats - water and air pollution	1	.6	3.0	24.2
	Fireworks - forest fire hazard	2	1.2	6.1	30.3
	Visitors leaving trash behind	13	7.6	39.4	69.7
	Gun shooting - dangerous	1	.6	3.0	72.7
	Campfires outside of developed campgrounds	2	1.2	6.1	78.8
	Campfires too big or left burning-forest fire hazard	4	2.3	12.1	90.9
	Cutting or chopping trees	1	.6	3.0	93.9
	Other	2	1.2	6.1	100.0
	Total	33	19.3	100.0	
Missing	System	138	80.7		
Total		171	100.0		

What recreation activities caused harm to the environment (MAX 2) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	OHVs - degrades forest, erosion, air pollution	21	12.0	58.3	58.3
	Personal water craft - water and air pollution	1	.6	2.8	61.1
	Visitors leaving trash behind	7	4.0	19.4	80.6
	Gun shooting - dangerous	1	.6	2.8	83.3
	Campfires too big or left burning-forest fire hazard	1	.6	2.8	86.1
	Cutting or chopping trees	2	1.1	5.6	91.7
	Other	3	1.7	8.3	100.0
	Total	36	20.6	100.0	
Missing	System	139	79.4		
Total		175	100.0		

What recreation activities caused harm to the environment (MAX 2) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	OHVs - degrades forest, erosion, air pollution	10	5.4	22.2	22.2
	Personal water craft - water and air pollution	5	2.7	11.1	33.3
	Power boats - water and air pollution	11	6.0	24.4	57.8
	Fireworks - forest fire hazard	3	1.6	6.7	64.4
	Visitors leaving trash behind	10	5.4	22.2	86.7
	Gun shooting - dangerous	3	1.6	6.7	93.3
	Campfires outside of developed campgrounds	1	.5	2.2	95.6
	Campfires too big or left burning-forest fire hazard	1	.5	2.2	97.8
	Other	1	.5	2.2	100.0
	Total	45	24.5	100.0	
Missing	System	139	75.5		
Total		184	100.0		

What recreation activities caused harm to the environment 2 ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Power boats - water and air pollution	1	.6	11.1	11.1
	Visitors leaving trash behind	3	1.8	33.3	44.4
	Campfires outside of developed campgrounds	1	.6	11.1	55.6
	Hunters-killing wildlife	1	.6	11.1	66.7
	Cutting or chopping trees	1	.6	11.1	77.8
	Other	2	1.2	22.2	100.0
	Total	9	5.4	100.0	
Missing	System	158	94.6		
Total		167	100.0		

What recreation activities caused harm to the environment 2 ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Personal water craft - water and air pollution	1	.6	25.0	25.0
	Power boats - water and air pollution	1	.6	25.0	50.0
	Visitors leaving trash behind	1	.6	25.0	75.0
	Other	1	.6	25.0	100.0
	Total	4	2.3	100.0	
Missing	System	167	97.7		
Total		171	100.0		

What recreation activities caused harm to the environment 2 ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Personal water craft - water and air pollution	1	.6	25.0	25.0
	Power boats - water and air pollution	1	.6	25.0	50.0
	Visitors leaving trash behind	2	1.1	50.0	100.0
	Total	4	2.3	100.0	
Missing	System	171	97.7		
Total		175	100.0		

What recreation activities caused harm to the environment 2 ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Power boats - water and air pollution	4	2.2	50.0	50.0
	Visitors leaving trash behind	1	.5	12.5	62.5
	Gun shooting - dangerous	3	1.6	37.5	100.0
	Total	8	4.3	100.0	
Missing	System	176	95.7		
Total		184	100.0		

Non-recreation activities causing harm to the environment ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	4	2.4	2.4	2.4
	No	150	89.8	89.8	92.2
	No Opinion	8	4.8	4.8	97.0
	No response	5	3.0	3.0	100.0
	Total	167	100.0	100.0	

Non-recreation activities causing harm to the environment ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	4	2.3	2.3	2.3
	No	167	97.7	97.7	100.0
	Total	171	100.0	100.0	

Non-recreation activities causing harm to the environment ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	7	4.0	4.0	4.0
	No	159	90.9	90.9	94.9
	No Opinion	6	3.4	3.4	98.3
	No response	3	1.7	1.7	100.0
	Total	175	100.0	100.0	

Non-recreation activities causing harm to the environment ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	9	4.9	4.9	4.9
No	167	90.8	90.8	95.7
No Opinion	7	3.8	3.8	99.5
No response	1	.5	.5	100.0
Total	184	100.0	100.0	

List of non-recreation activities causing harm to the environment ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	163	97.6	97.6	97.6
Logging-clear cutting causing erosion	1	.6	.6	98.2
Logging	1	.6	.6	98.8
Roads - Holes	1	.6	.6	99.4
Tree beetles, the fire (of course) killing trees in campground-then the trees are not replaced.	1	.6	.6	100.0
Total	167	100.0	100.0	

List of non-recreation activities causing harm to the environment ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	167	97.7	97.7	97.7
Chain saw cutting trees - smoke	1	.6	.6	98.2
Clear cutting-ruins natural appearance	1	.6	.6	98.8
Logging - dusty, fire hazard-the piles	1	.6	.6	99.4
Off-trail hikers dragging coolers	1	.6	.6	100.0
Total	171	100.0	100.0	

List of non-recreation activities causing harm to the environment ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	168	96.0	96.0	96.0
Building of a bridge over GC feels like a highway.	1	.6	.6	96.6
Clear cutting - erosion	1	.6	.6	97.1
Dogs off leaches - disrupt people.	1	.6	.6	97.7
Logging - noticeable	1	.6	.6	98.3
Quarry-disrupts regular environment	1	.6	.6	98.9
Too many improvements/takes away the naturalizatio	1	.6	.6	99.4
Trash/Logging - Pollution/Slashing	1	.6	.6	100.0
Total	175	100.0	100.0	

List of non-recreation activities causing harm to the environment ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	175	95.1	95.1	95.1
Bears - destroy property	1	.5	.5	95.7
Deforestation - logging of trees	1	.5	.5	96.2
Dogs defecate on trail - some trash in areas	1	.5	.5	96.7
Food carelessness - bears	1	.5	.5	97.3
Logging of trees ruined the natural appearance of the environment	1	.5	.5	97.8
Overheard someone talking about killing snakes	1	.5	.5	98.4
Sign screwed into tree-trapped fish in Rubicon River	1	.5	.5	98.9
Smoking - fire hazard	1	.5	.5	99.5
Yellowing fo the pine trees unsightly - could it be because of pollution?	1	.5	.5	100.0
Total	184	100.0	100.0	

Described how crowded you feel (facility) ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all crowded	75	44.9	44.9	44.9
	Slightly crowded	45	26.9	26.9	71.9
	Moderately crowded	27	16.2	16.2	88.0
	Extremely crowded	20	12.0	12.0	100.0
	Total	167	100.0	100.0	

Described how crowded you feel (facility) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all crowded	95	55.6	55.6	55.6
	Slightly crowded	46	26.9	26.9	82.5
	Moderately crowded	25	14.6	14.6	97.1
	Extremely crowded	5	2.9	2.9	100.0
	Total	171	100.0	100.0	

Described how crowded you feel (facility) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all crowded	78	44.6	44.6	44.6
	Slightly crowded	44	25.1	25.1	69.7
	Moderately crowded	43	24.6	24.6	94.3
	Extremely crowded	8	4.6	4.6	98.9
	Don't know	2	1.1	1.1	100.0
	Total	175	100.0	100.0	

Described how crowded you feel (facility) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all crowded	80	43.5	43.5	43.5
	Slightly crowded	49	26.6	26.6	70.1
	Moderately crowded	41	22.3	22.3	92.4
	Extremely crowded	14	7.6	7.6	100.0
	Total	184	100.0	100.0	

Did you bring watercraft? ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	93	55.7	55.7	55.7
	no	70	41.9	41.9	97.6
	No response	4	2.4	2.4	100.0
	Total	167	100.0	100.0	

Did you bring watercraft? ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	111	64.9	64.9	64.9
no	60	35.1	35.1	100.0
Total	171	100.0	100.0	

Did you bring watercraft? ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	51	29.1	29.1	29.1
no	123	70.3	70.3	99.4
No response	1	.6	.6	100.0
Total	175	100.0	100.0	

Did you bring watercraft? ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	103	56.0	56.0	56.0
no	79	42.9	42.9	98.9
No response	2	1.1	1.1	100.0
Total	184	100.0	100.0	

Which reservoir on the most? ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Ice House	84	50.3	90.3	90.3
Union Valley	8	4.8	8.6	98.9
No response	1	.6	1.1	100.0
Total	93	55.7	100.0	
Missing System	74	44.3		
Total	167	100.0		

Which reservoir on the most? ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Gerle Creek	1	.6	.9	.9
Loon Lake	1	.6	.9	1.8
Union Valley	108	63.2	97.3	99.1
Unreadable response	1	.6	.9	100.0
Total	111	64.9	100.0	
Missing System	60	35.1		
Total	171	100.0		

Which reservoir on the most? ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Gerle Creek	43	24.6	84.3	84.3
	Loon Lake	5	2.9	9.8	94.1
	Union Valley	2	1.1	3.9	98.0
	No response	1	.6	2.0	100.0
	Total	51	29.1	100.0	
Missing	System	124	70.9		
Total		175	100.0		

Which reservoir on the most? ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Gerle Creek	1	.5	1.0	1.0
	Ice House	1	.5	1.0	1.9
	Loon Lake	96	52.2	93.2	95.1
	Union Valley	1	.5	1.0	96.1
	Other	2	1.1	1.9	98.1
	No response	2	1.1	1.9	100.0
	Total	103	56.0	100.0	
Missing	System	81	44.0		
Total		184	100.0		

Describe how crowded (reservoir) ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all crowded	60	35.9	64.5	64.5
	Slightly crowded	20	12.0	21.5	86.0
	Moderately crowded	10	6.0	10.8	96.8
	Don't know	3	1.8	3.2	100.0
	Total	93	55.7	100.0	
Missing	System	74	44.3		
Total		167	100.0		

Describe how crowded (reservoir) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all crowded	83	48.5	74.8	74.8
	Slightly crowded	20	11.7	18.0	92.8
	Moderately crowded	4	2.3	3.6	96.4
	Don't know	4	2.3	3.6	100.0
	Total	111	64.9	100.0	
Missing	System	60	35.1		
Total		171	100.0		

Describe how crowded (reservoir) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all crowded	36	20.6	70.6	70.6
	Slightly crowded	7	4.0	13.7	84.3
	Moderately crowded	3	1.7	5.9	90.2
	Don't know	4	2.3	7.8	98.0
	No response	1	.6	2.0	100.0
	Total	51	29.1	100.0	
Missing	System	124	70.9		
Total		175	100.0		

Describe how crowded (reservoir) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all crowded	77	41.8	74.8	74.8
	Slightly crowded	17	9.2	16.5	91.3
	Moderately crowded	1	.5	1.0	92.2
	Extremely crowded	2	1.1	1.9	94.2
	Don't know	4	2.2	3.9	98.1
	No response	2	1.1	1.9	100.0
	Total	103	56.0	100.0	
Missing	System	81	44.0		
Total		184	100.0		

Info on campsite availability ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	101	60.5	60.5	60.5
	inadequate	12	7.2	7.2	67.7
	never looked for it	50	29.9	29.9	97.6
	No response	4	2.4	2.4	100.0
	Total	167	100.0	100.0	

Info on campsite availability ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	94	55.0	55.0	55.0
inadequate	21	12.3	12.3	67.3
never looked for it	53	31.0	31.0	98.2
No response	3	1.8	1.8	100.0
Total	171	100.0	100.0	

Info on campsite availability ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	125	71.4	71.4	71.4
inadequate	12	6.9	6.9	78.3
never looked for it	37	21.1	21.1	99.4
No response	1	.6	.6	100.0
Total	175	100.0	100.0	

Info on campsite availability ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	116	63.0	63.0	63.0
inadequate	23	12.5	12.5	75.5
never looked for it	45	24.5	24.5	100.0
Total	184	100.0	100.0	

Info on campfire restrictions ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	103	61.7	61.7	61.7
inadequate	10	6.0	6.0	67.7
never looked for it	50	29.9	29.9	97.6
No response	4	2.4	2.4	100.0
Total	167	100.0	100.0	

Info on campfire restrictions ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	113	66.1	66.1	66.1
inadequate	10	5.8	5.8	71.9
never looked for it	45	26.3	26.3	98.2
No response	3	1.8	1.8	100.0
Total	171	100.0	100.0	

Info on campfire restrictions ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	131	74.9	74.9	74.9
inadequate	10	5.7	5.7	80.6
never looked for it	33	18.9	18.9	99.4
No response	1	.6	.6	100.0
Total	175	100.0	100.0	

Info on campfire restrictions ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	129	70.1	70.1	70.1
inadequate	10	5.4	5.4	75.5
never looked for it	45	24.5	24.5	100.0
Total	184	100.0	100.0	

Info on reservoir levels ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	90	53.9	53.9	53.9
inadequate	12	7.2	7.2	61.1
never looked for it	61	36.5	36.5	97.6
No response	4	2.4	2.4	100.0
Total	167	100.0	100.0	

Info on reservoir levels ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	71	41.5	41.5	41.5
inadequate	27	15.8	15.8	57.3
never looked for it	70	40.9	40.9	98.2
No response	3	1.8	1.8	100.0
Total	171	100.0	100.0	

Info on reservoir levels ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	77	44.0	44.0	44.0
inadequate	6	3.4	3.4	47.4
never looked for it	91	52.0	52.0	99.4
No response	1	.6	.6	100.0
Total	175	100.0	100.0	

Info on reservoir levels ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	87	47.3	47.3	47.3
	inadequate	15	8.2	8.2	55.4
	never looked for it	82	44.6	44.6	100.0
	Total	184	100.0	100.0	

Info on wilderness permits ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	45	26.9	26.9	26.9
	inadequate	11	6.6	6.6	33.5
	never looked for it	107	64.1	64.1	97.6
	No response	4	2.4	2.4	100.0
	Total	167	100.0	100.0	

Info on wilderness permits ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	42	24.6	24.6	24.6
	inadequate	9	5.3	5.3	29.8
	never looked for it	117	68.4	68.4	98.2
	No response	3	1.8	1.8	100.0
	Total	171	100.0	100.0	

Info on wilderness permits ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	70	40.0	40.0	40.0
	inadequate	5	2.9	2.9	42.9
	never looked for it	99	56.6	56.6	99.4
	No response	1	.6	.6	100.0
	Total	175	100.0	100.0	

Info on wilderness permits ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	60	32.6	32.6	32.6
	inadequate	4	2.2	2.2	34.8
	never looked for it	120	65.2	65.2	100.0
	Total	184	100.0	100.0	

Info on trail locations ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	64	38.3	38.3	38.3
inadequate	18	10.8	10.8	49.1
never looked for it	81	48.5	48.5	97.6
No response	4	2.4	2.4	100.0
Total	167	100.0	100.0	

Info on trail locations ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	62	36.3	36.3	36.3
inadequate	21	12.3	12.3	48.5
never looked for it	85	49.7	49.7	98.2
No response	3	1.8	1.8	100.0
Total	171	100.0	100.0	

Info on trail locations ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	92	52.6	52.6	52.6
inadequate	17	9.7	9.7	62.3
never looked for it	65	37.1	37.1	99.4
No response	1	.6	.6	100.0
Total	175	100.0	100.0	

Info on trail locations ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	97	52.7	52.7	52.7
inadequate	19	10.3	10.3	63.0
never looked for it	68	37.0	37.0	100.0
Total	184	100.0	100.0	

Info on stream flow rate &/or depths ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	40	24.0	24.0	24.0
inadequate	13	7.8	7.8	31.7
never looked for it	107	64.1	64.1	95.8
No response	7	4.2	4.2	100.0
Total	167	100.0	100.0	

Info on stream flow rate &/or depths ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	34	19.9	19.9	19.9
inadequate	18	10.5	10.5	30.4
never looked for it	116	67.8	67.8	98.2
No response	3	1.8	1.8	100.0
Total	171	100.0	100.0	

Info on stream flow rate &/or depths ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	46	26.3	26.3	26.3
inadequate	10	5.7	5.7	32.0
never looked for it	114	65.1	65.1	97.1
No response	5	2.9	2.9	100.0
Total	175	100.0	100.0	

Info on stream flow rate &/or depths ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	44	23.9	23.9	23.9
inadequate	16	8.7	8.7	32.6
never looked for it	124	67.4	67.4	100.0
Total	184	100.0	100.0	

Info on environmental or educational displays ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	49	29.3	29.3	29.3
inadequate	19	11.4	11.4	40.7
never looked for it	94	56.3	56.3	97.0
No response	5	3.0	3.0	100.0
Total	167	100.0	100.0	

Info on environmental or educational displays ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	55	32.2	32.2	32.2
inadequate	18	10.5	10.5	42.7
never looked for it	95	55.6	55.6	98.2
No response	3	1.8	1.8	100.0
Total	171	100.0	100.0	

Info on environmental or educational displays ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	94	53.7	53.7	53.7
inadequate	9	5.1	5.1	58.9
never looked for it	71	40.6	40.6	99.4
No response	1	.6	.6	100.0
Total	175	100.0	100.0	

Info on environmental or educational displays ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	58	31.5	31.5	31.5
inadequate	13	7.1	7.1	38.6
never looked for it	113	61.4	61.4	100.0
Total	184	100.0	100.0	

Info on fish stocking ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	48	28.7	28.7	28.7
inadequate	18	10.8	10.8	39.5
never looked for it	97	58.1	58.1	97.6
No response	4	2.4	2.4	100.0
Total	167	100.0	100.0	

Info on fish stocking ~ UVR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	42	24.6	24.6	24.6
inadequate	18	10.5	10.5	35.1
never looked for it	107	62.6	62.6	97.7
No response	4	2.3	2.3	100.0
Total	171	100.0	100.0	

Info on fish stocking ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	43	24.6	24.6	24.6
inadequate	17	9.7	9.7	34.3
never looked for it	114	65.1	65.1	99.4
No response	1	.6	.6	100.0
Total	175	100.0	100.0	

Info on fish stocking ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	41	22.3	22.3	22.3
inadequate	24	13.0	13.0	35.3
never looked for it	119	64.7	64.7	100.0
Total	184	100.0	100.0	

Other areas visited during stay (MAX 5) ~ IHR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Stay at current location	110	65.9	65.9	65.9
Ice House Reservoir	30	18.0	18.0	83.8
Union Valley Reservoir	11	6.6	6.6	90.4
Gerle Creek Reservoir	2	1.2	1.2	91.6
Loon Lake Reservoir	3	1.8	1.8	93.4
Wright's Lake	7	4.2	4.2	97.6
Other non-Project streams	1	.6	.6	98.2
Robbs Resort	1	.6	.6	98.8
Bassi Falls	1	.6	.6	99.4
Other	1	.6	.6	100.0
Total	167	100.0	100.0	

Other areas visited during stay (MAX 5) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Stay at current location	106	62.0	62.0	62.0
	Ice House Reservoir	19	11.1	11.1	73.1
	Union Valley Reservoir	21	12.3	12.3	85.4
	Gerle Creek Reservoir	4	2.3	2.3	87.7
	Loon Lake Reservoir	12	7.0	7.0	94.7
	Wright's Lake	1	.6	.6	95.3
	Gerle Creek below Loon Lake Dam	1	.6	.6	95.9
	Other non-Project streams	1	.6	.6	96.5
	Bunker Hill Lookout	1	.6	.6	97.1
	Robbs Resort	2	1.2	1.2	98.2
	Ice House Resort	1	.6	.6	98.8
	Bassi Falls	1	.6	.6	99.4
	Crystal Basin Information Station	1	.6	.6	100.0
	Total	171	100.0	100.0	

Other areas visited during stay (MAX 5) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Stay at current location	78	44.6	44.6	44.6
	Ice House Reservoir	14	8.0	8.0	52.6
	Union Valley Reservoir	13	7.4	7.4	60.0
	Gerle Creek Reservoir	28	16.0	16.0	76.0
	Loon Lake Reservoir	24	13.7	13.7	89.7
	Wright's Lake	1	.6	.6	90.3
	Rubicon Jeep Trail/Wentworth Springs Rd.	6	3.4	3.4	93.7
	Gerle Creek below Loon Lake Dam	2	1.1	1.1	94.9
	Other non-Project streams	2	1.1	1.1	96.0
	Spider Lake	1	.6	.6	96.6
	Robbs Resort	2	1.1	1.1	97.7
	End of 13N77 (near Dear Creek)	1	.6	.6	98.3
	Rubicon Hiking Trail	1	.6	.6	98.9
	Robbs Hut	1	.6	.6	99.4
	Other	1	.6	.6	100.0
	Total	175	100.0	100.0	

Other areas visited during stay (MAX 5) ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Stay at current location	113	61.4	61.4	61.4
Ice House Reservoir	17	9.2	9.2	70.7
Union Valley Reservoir	8	4.3	4.3	75.0
Gerle Creek Reservoir	11	6.0	6.0	81.0
Loon Lake Reservoir	11	6.0	6.0	87.0
Wright's Lake	2	1.1	1.1	88.0
Rubicon Jeep Trail/Wentworth Springs Rd.	10	5.4	5.4	93.5
Gerle Creek below Loon Lake Dam	1	.5	.5	94.0
Other non-Project streams	1	.5	.5	94.6
Spider Lake	2	1.1	1.1	95.7
Rubicon Reservoir	1	.5	.5	96.2
Rubicon hiking trail to Spider Lake	1	.5	.5	96.7
Rubicon hiking trail to Buck Island Reservoir	1	.5	.5	97.3
Big Hill Lookout	1	.5	.5	97.8
Robbs Resort	1	.5	.5	98.4
Rubicon Hiking Trail	2	1.1	1.1	99.5
Other	1	.5	.5	100.0
Total	184	100.0	100.0	

Primary Activity ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	2	1.2	3.5	3.5
	Canoeing/Kayaking	3	1.8	5.3	8.8
	Fishing (Lake or Reservoir)	9	5.4	15.8	24.6
	Fishing (Stream or River)	3	1.8	5.3	29.8
	Hiking/Walking	10	6.0	17.5	47.4
	OHV Use	3	1.8	5.3	52.6
	Picnicking	7	4.2	12.3	64.9
	Power Boating	7	4.2	12.3	77.2
	Sail Boating	1	.6	1.8	78.9
	Swimming	4	2.4	7.0	86.0
	Wildlife Viewing	1	.6	1.8	87.7
	Other	3	1.8	5.3	93.0
	No response	4	2.4	7.0	100.0
	Total	57	34.1	100.0	
Missing	System	110	65.9		
Total		167	100.0		

Primary Activity ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bicycling	1	.6	1.5	1.5
	Canoeing/Kayaking	1	.6	1.5	3.1
	Fishing (Lake or Reservoir)	20	11.7	30.8	33.8
	Hiking/Walking	8	4.7	12.3	46.2
	OHV Use	2	1.2	3.1	49.2
	Picnicking	6	3.5	9.2	58.5
	Power Boating	4	2.3	6.2	64.6
	Swimming	4	2.3	6.2	70.8
	Wildlife Viewing	1	.6	1.5	72.3
	Other	18	10.5	27.7	100.0
	Total	65	38.0	100.0	
Missing	System	106	62.0		
Total		171	100.0		

Primary Activity ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	.6	1.0	1.0
	Bicycling	3	1.7	3.1	4.1
	Canoeing/Kayaking	5	2.9	5.1	9.2
	Fishing (Lake or Reservoir)	26	14.9	26.5	35.7
	Fishing (Stream or River)	2	1.1	2.0	37.8
	Hiking/Walking	13	7.4	13.3	51.0
	OHV Use	10	5.7	10.2	61.2
	Picnicking	3	1.7	3.1	64.3
	Photography	1	.6	1.0	65.3
	Power Boating	3	1.7	3.1	68.4
	Swimming	13	7.4	13.3	81.6
	Wildlife Viewing	1	.6	1.0	82.7
	Other	15	8.6	15.3	98.0
	No response	2	1.1	2.0	100.0
	Total	98	56.0	100.0	
Missing	System	77	44.0		
Total		175	100.0		

Primary Activity ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	3	1.6	4.2	4.2
	Bicycling	2	1.1	2.8	6.9
	Canoeing/Kayaking	4	2.2	5.6	12.5
	Fishing (Lake or Reservoir)	18	9.8	25.0	37.5
	Hiking/Walking	10	5.4	13.9	51.4
	Hunting	2	1.1	2.8	54.2
	OHV Use	8	4.3	11.1	65.3
	Picnicking	3	1.6	4.2	69.4
	Photography	2	1.1	2.8	72.2
	Power Boating	3	1.6	4.2	76.4
	Swimming	8	4.3	11.1	87.5
	Other	9	4.9	12.5	100.0
	Total	72	39.1	100.0	
Missing	System	112	60.9		
Total		184	100.0		

Other areas visited during stay 2 ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	8	4.8	28.6	28.6
	Gerle Creek Reservoir	7	4.2	25.0	53.6
	Loon Lake Reservoir	3	1.8	10.7	64.3
	Wright's Lake	5	3.0	17.9	82.1
	Rubicon Jeep Trail/Wentworth Springs Rd.	1	.6	3.6	85.7
	Other non-Project streams	2	1.2	7.1	92.9
	Robbs Resort	1	.6	3.6	96.4
	Other	1	.6	3.6	100.0
	Total	28	16.8	100.0	
Missing	System	139	83.2		
Total		167	100.0		

Other areas visited during stay 2 ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	9	5.3	23.7	23.7
	Gerle Creek Reservoir	5	2.9	13.2	36.8
	Loon Lake Reservoir	8	4.7	21.1	57.9
	Wright's Lake	5	2.9	13.2	71.1
	Rubicon Jeep Trail/Wentworth Springs Rd.	2	1.2	5.3	76.3
	Gerle Creek below Loon Lake Dam	1	.6	2.6	78.9
	Other non-Project streams	1	.6	2.6	81.6
	Robbs Resort	2	1.2	5.3	86.8
	Ice House Resort	1	.6	2.6	89.5
	Bassi Falls	2	1.2	5.3	94.7
	Crystal Basin Information Station	1	.6	2.6	97.4
	Other	1	.6	2.6	100.0
	Total	38	22.2	100.0	
Missing	System	133	77.8		
Total		171	100.0		

Other areas visited during stay 2 ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	4	2.3	7.7	7.7
	Gerle Creek Reservoir	8	4.6	15.4	23.1
	Loon Lake Reservoir	20	11.4	38.5	61.5
	Wright's Lake	4	2.3	7.7	69.2
	Rubicon Jeep Trail/Wentworth Springs Rd.	6	3.4	11.5	80.8
	Gerle Creek below Loon Lake Dam	1	.6	1.9	82.7
	Other non-Project streams	2	1.1	3.8	86.5
	Big Hill Lookout	1	.6	1.9	88.5
	Rubicon River	1	.6	1.9	90.4
	Robbs Resort	2	1.1	3.8	94.2
	Robbs Hut	1	.6	1.9	96.2
	Other	2	1.1	3.8	100.0
	Total	52	29.7	100.0	
Missing	System	123	70.3		
Total		175	100.0		

Other areas visited during stay 2 ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	4	2.2	12.1	12.1
	Gerle Creek Reservoir	3	1.6	9.1	21.2
	Loon Lake Reservoir	10	5.4	30.3	51.5
	Wright's Lake	1	.5	3.0	54.5
	Rubicon Jeep Trail/Wentworth Springs Rd.	5	2.7	15.2	69.7
	Gerle Creek below Loon Lake Dam	2	1.1	6.1	75.8
	Spider Lake	4	2.2	12.1	87.9
	Big Hill Lookout	1	.5	3.0	90.9
	McKinstry Lake	1	.5	3.0	93.9
	Robbs Resort	1	.5	3.0	97.0
	Other	1	.5	3.0	100.0
	Total	33	17.9	100.0	
Missing	System	151	82.1		
Total		184	100.0		

Primary Activity 2 ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Canoeing/Kayaking	1	.6	3.6	3.6
	Fishing (Lake or Reservoir)	4	2.4	14.3	17.9
	Fishing (Stream or River)	2	1.2	7.1	25.0
	Hiking/Walking	6	3.6	21.4	46.4
	OHV Use	1	.6	3.6	50.0
	Picnicking	1	.6	3.6	53.6
	Power Boating	4	2.4	14.3	67.9
	Swimming	5	3.0	17.9	85.7
	Visiting Cultural/Historic Sites	1	.6	3.6	89.3
	Wildlife Viewing	1	.6	3.6	92.9
	Other	1	.6	3.6	96.4
	No response	1	.6	3.6	100.0
	Total	28	16.8	100.0	
Missing	System	139	83.2		
Total		167	100.0		

Primary Activity 2 ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bicycling	2	1.2	5.3	5.3
	Canoeing/Kayaking	2	1.2	5.3	10.5
	Fishing (Lake or Reservoir)	12	7.0	31.6	42.1
	Hiking/Walking	4	2.3	10.5	52.6
	OHV Use	2	1.2	5.3	57.9
	Picnicking	2	1.2	5.3	63.2
	Power Boating	2	1.2	5.3	68.4
	Swimming	1	.6	2.6	71.1
	Wildlife Viewing	1	.6	2.6	73.7
	Other	10	5.8	26.3	100.0
	Total	38	22.2	100.0	
Missing	System	133	77.8		
Total		171	100.0		

Primary Activity 2 ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	.6	1.9	1.9
	Canoeing/Kayaking	2	1.1	3.8	5.8
	Fishing (Lake or Reservoir)	10	5.7	19.2	25.0
	Fishing (Stream or River)	2	1.1	3.8	28.8
	Hiking/Walking	7	4.0	13.5	42.3
	OHV Use	5	2.9	9.6	51.9
	Photography	1	.6	1.9	53.8
	Swimming	5	2.9	9.6	63.5
	Visiting Cultural/Historic Sites	2	1.1	3.8	67.3
	Wildlife Viewing	1	.6	1.9	69.2
	Other	14	8.0	26.9	96.2
	No response	2	1.1	3.8	100.0
	Total	52	29.7	100.0	
Missing	System	123	70.3		
Total		175	100.0		

Primary Activity 2 ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	.5	3.0	3.0
	Bicycling	3	1.6	9.1	12.1
	Canoeing/Kayaking	2	1.1	6.1	18.2
	Fishing (Lake or Reservoir)	6	3.3	18.2	36.4
	Fishing (Stream or River)	1	.5	3.0	39.4
	Hiking/Walking	1	.5	3.0	42.4
	OHV Use	5	2.7	15.2	57.6
	Picnicking	2	1.1	6.1	63.6
	Power Boating	2	1.1	6.1	69.7
	Swimming	2	1.1	6.1	75.8
	Other	6	3.3	18.2	93.9
	No response	1	.5	3.0	97.0
	Unreadable response	1	.5	3.0	100.0
	Total	33	17.9	100.0	
Missing	System	151	82.1		
Total		184	100.0		

Other areas visited during stay 3 ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Loon Lake Reservoir	1	.6	12.5	12.5
	Wright's Lake	3	1.8	37.5	50.0
	Rubicon Jeep Trail/Wentworth Springs Rd.	2	1.2	25.0	75.0
	Other non-Project streams	1	.6	12.5	87.5
	Other	1	.6	12.5	100.0
	Total	8	4.8	100.0	
Missing	System	159	95.2		
Total		167	100.0		

Other areas visited during stay 3 ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	1	.6	7.1	7.1
	Gerle Creek Reservoir	1	.6	7.1	14.3
	Loon Lake Reservoir	1	.6	7.1	21.4
	Wright's Lake	1	.6	7.1	28.6
	Other non-Project streams	3	1.8	21.4	50.0
	Robbs Resort	1	.6	7.1	57.1
	Ice House Resort	2	1.2	14.3	71.4
	Robbs Hut	1	.6	7.1	78.6
	Other	3	1.8	21.4	100.0
	Total	14	8.2	100.0	
Missing	System	157	91.8		
Total		171	100.0		

Other areas visited during stay 3 ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	1	.6	4.5	4.5
	Gerle Creek Reservoir	1	.6	4.5	9.1
	Loon Lake Reservoir	3	1.7	13.6	22.7
	Wright's Lake	3	1.7	13.6	36.4
	Rubicon Jeep Trail/Wentworth Springs Rd.	4	2.3	18.2	54.5
	Gerle Creek below Loon Lake Dam	4	2.3	18.2	72.7
	Other non-Project streams	2	1.1	9.1	81.8
	Big Hill Lookout	1	.6	4.5	86.4
	Wentworth Springs	1	.6	4.5	90.9
	Robbs Resort	1	.6	4.5	95.5
	Robbs Hut	1	.6	4.5	100.0
	Total	22	12.6	100.0	
Missing	System	153	87.4		
Total		175	100.0		

Other areas visited during stay 3 ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Gerle Creek Reservoir	1	.5	10.0	10.0
	Loon Lake Reservoir	1	.5	10.0	20.0
	Rubicon Jeep Trail/Wentworth Springs Rd.	3	1.6	30.0	50.0
	Spider Lake	1	.5	10.0	60.0
	Shadow Lake	1	.5	10.0	70.0
	Robbs Hut	1	.5	10.0	80.0
	Other	2	1.1	20.0	100.0
	Total	10	5.4	100.0	
Missing	System	174	94.6		
Total		184	100.0		

Primary Activity 3 ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Canoeing/Kayaking	1	.6	12.5	12.5
	Fishing (Lake or Reservoir)	1	.6	12.5	25.0
	Hiking/Walking	2	1.2	25.0	50.0
	OHV Use	1	.6	12.5	62.5
	Other	1	.6	12.5	75.0
	No response	2	1.2	25.0	100.0
	Total	8	4.8	100.0	
Missing	System	159	95.2		
Total		167	100.0		

Primary Activity 3 ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	.6	7.1	7.1
	Canoeing/Kayaking	1	.6	7.1	14.3
	Fishing (Lake or Reservoir)	2	1.2	14.3	28.6
	Hiking/Walking	1	.6	7.1	35.7
	OHV Use	1	.6	7.1	42.9
	Picnicking	1	.6	7.1	50.0
	Other	7	4.1	50.0	100.0
	Total	14	8.2	100.0	
Missing	System	157	91.8		
Total		171	100.0		

Primary Activity 3 ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	.6	4.5	4.5
	Bicycling	1	.6	4.5	9.1
	Canoeing/Kayaking	1	.6	4.5	13.6
	Fishing (Stream or River)	4	2.3	18.2	31.8
	Hiking/Walking	2	1.1	9.1	40.9
	OHV Use	5	2.9	22.7	63.6
	Swimming	2	1.1	9.1	72.7
	Visiting Cultural/Historic Sites	1	.6	4.5	77.3
	Other	5	2.9	22.7	100.0
	Total	22	12.6	100.0	
Missing	System	153	87.4		
Total		175	100.0		

Primary Activity 3 ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	.5	10.0	10.0
	Fishing (Lake or Reservoir)	2	1.1	20.0	30.0
	Fishing (Stream or River)	1	.5	10.0	40.0
	Hiking/Walking	1	.5	10.0	50.0
	OHV Use	4	2.2	40.0	90.0
	Other	1	.5	10.0	100.0
	Total	10	5.4	100.0	
Missing	System	174	94.6		
Total		184	100.0		

Other areas visited during stay 4 ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Gerle Creek below Loon Lake Dam	1	.6	100.0	100.0
Missing	System	166	99.4		
Total		167	100.0		

Other areas visited during stay 4 ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Rubicon Reservoir	1	.6	100.0	100.0
Missing	System	170	99.4		
Total		171	100.0		

Other areas visited during stay 4 ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	1	.6	8.3	8.3
	Gerle Creek below Loon Lake Dam	2	1.1	16.7	25.0
	Spider Lake	1	.6	8.3	33.3
	Rubicon Reservoir	1	.6	8.3	41.7
	Bunker Hill Lookout	3	1.7	25.0	66.7
	Robbs Resort	2	1.1	16.7	83.3
	Other	2	1.1	16.7	100.0
	Total	12	6.9	100.0	
Missing	System	163	93.1		
Total		175	100.0		

Other areas visited during stay 4 ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Loon Lake Reservoir	1	.5	33.3	33.3
	Wright's Lake	1	.5	33.3	66.7
	McKinstry Lake	1	.5	33.3	100.0
	Total	3	1.6	100.0	
Missing	System	181	98.4		
Total		184	100.0		

Primary Activity 4 ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Hiking/Walking	1	.6	100.0	100.0
Missing	System	166	99.4		
Total		167	100.0		

Primary Activity 4 ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	OHV Use	1	.6	100.0	100.0
Missing	System	170	99.4		
Total		171	100.0		

Primary Activity 4 ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	OHV Use	5	2.9	41.7	41.7
	Swimming	1	.6	8.3	50.0
	Other	6	3.4	50.0	100.0
	Total	12	6.9	100.0	
Missing	System	163	93.1		
Total		175	100.0		

Primary Activity 4 ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Hiking/Walking	1	.5	33.3	33.3
	Other	1	.5	33.3	66.7
	No response	1	.5	33.3	100.0
	Total	3	1.6	100.0	
Missing	System	181	98.4		
Total		184	100.0		

Quality of fishing attract (general area A) ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	47	28.1	46.1	46.1
	no	55	32.9	53.9	100.0
	Total	102	61.1	100.0	
Missing	System	65	38.9		
Total		167	100.0		

Quality of fishing attract (general area A) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	48	28.1	42.9	42.9
	no	64	37.4	57.1	100.0
	Total	112	65.5	100.0	
Missing	System	59	34.5		
Total		171	100.0		

Quality of fishing attract (general area A) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	26	14.9	34.7	34.7
	no	49	28.0	65.3	100.0
	Total	75	42.9	100.0	
Missing	System	100	57.1		
Total		175	100.0		

Quality of fishing attract (general area A) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	62	33.7	56.4	56.4
	no	48	26.1	43.6	100.0
	Total	110	59.8	100.0	
Missing	System	74	40.2		
Total		184	100.0		

Coded general area A ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	99	59.3	97.1	97.1
	Union Valley Reservoir	2	1.2	2.0	99.0
	Loon Lake Reservoir	1	.6	1.0	100.0
	Total	102	61.1	100.0	
Missing	System	65	38.9		
Total		167	100.0		

Coded general area A ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	2	1.2	1.8	1.8
	Union Valley Reservoir	106	62.0	94.6	96.4
	Gerle Creek Reservoir	1	.6	.9	97.3
	Loon Lake Reservoir	3	1.8	2.7	100.0
	Total	112	65.5	100.0	
Missing	System	59	34.5		
Total		171	100.0		

Coded general area A ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	2	1.1	2.7	2.7
	Union Valley Reservoir	3	1.7	4.0	6.7
	Gerle Creek Reservoir	54	30.9	72.0	78.7
	Loon Lake Reservoir	7	4.0	9.3	88.0
	Gerle Creek below Loon Lake Dam	5	2.9	6.7	94.7
	Unreadable response	4	2.3	5.3	100.0
	Total	75	42.9	100.0	
Missing	System	100	57.1		
Total		175	100.0		

Coded general area A ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	2	1.1	1.8	1.8
	Union Valley Reservoir	3	1.6	2.7	4.5
	Gerle Creek Reservoir	1	.5	.9	5.5
	Loon Lake Reservoir	103	56.0	93.6	99.1
	Gerle Creek below Loon Lake Dam	1	.5	.9	100.0
	Total	110	59.8	100.0	
Missing	System	74	40.2		
Total		184	100.0		

Quality of fishing attract (general area B) ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	6	3.6	54.5	54.5
	no	4	2.4	36.4	90.9
	No response	1	.6	9.1	100.0
	Total	11	6.6	100.0	
Missing	System	156	93.4		
Total		167	100.0		

Quality of fishing attract (general area B) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	7	4.1	46.7	46.7
	no	8	4.7	53.3	100.0
	Total	15	8.8	100.0	
Missing	System	156	91.2		
Total		171	100.0		

Quality of fishing attract (general area B) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	12	6.9	70.6	70.6
	no	5	2.9	29.4	100.0
	Total	17	9.7	100.0	
Missing	System	158	90.3		
Total		175	100.0		

Quality of fishing attract (general area B) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	6	3.3	54.5	54.5
	no	5	2.7	45.5	100.0
	Total	11	6.0	100.0	
Missing	System	173	94.0		
Total		184	100.0		

Coded general area B ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	1	.6	9.1	9.1
	Union Valley Reservoir	3	1.8	27.3	36.4
	Gerle Creek Reservoir	2	1.2	18.2	54.5
	Loon Lake Reservoir	2	1.2	18.2	72.7
	Other Project Reservoir or stream	1	.6	9.1	81.8
	Other non-Project Reservoirs or streams	2	1.2	18.2	100.0
	Total	11	6.6	100.0	
	Missing	System	156	93.4	
Total		167	100.0		

Coded general area B ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	2	1.2	13.3	13.3
	Union Valley Reservoir	4	2.3	26.7	40.0
	Gerle Creek Reservoir	2	1.2	13.3	53.3
	Loon Lake Reservoir	5	2.9	33.3	86.7
	South Fork Rubicon River below Robbs Forebay	1	.6	6.7	93.3
	Other non-Project Reservoirs or streams	1	.6	6.7	100.0
	Total	15	8.8	100.0	
	Missing	System	156	91.2	
Total		171	100.0		

Coded general area B ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	1	.6	5.9	5.9
	Gerle Creek Reservoir	5	2.9	29.4	35.3
	Loon Lake Reservoir	5	2.9	29.4	64.7
	Gerle Creek below Loon Lake Dam	3	1.7	17.6	82.4
	Other non-Project Reservoirs or streams	2	1.1	11.8	94.1
	Unreadable response	1	.6	5.9	100.0
	Total	17	9.7	100.0	
Missing	System	158	90.3		
Total		175	100.0		

Coded general area B ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Gerle Creek Reservoir	2	1.1	18.2	18.2
	Loon Lake Reservoir	6	3.3	54.5	72.7
	Other Project Reservoir or stream	1	.5	9.1	81.8
	Other non-Project Reservoirs or streams	2	1.1	18.2	100.0
	Total	11	6.0	100.0	
Missing	System	173	94.0		
Total		184	100.0		

Quality of fishing (general area A) ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	24	14.4	23.5	23.5
	Fair	27	16.2	26.5	50.0
	Good	26	15.6	25.5	75.5
	Excellent	12	7.2	11.8	87.3
	n/a	13	7.8	12.7	100.0
	Total	102	61.1	100.0	
Missing	System	65	38.9		
Total		167	100.0		

Quality of fishing (general area A) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	25	14.6	23.8	23.8
	Fair	33	19.3	31.4	55.2
	Good	17	9.9	16.2	71.4
	Excellent	13	7.6	12.4	83.8
	n/a	17	9.9	16.2	100.0
	Total	105	61.4	100.0	
Missing	System	66	38.6		
Total		171	100.0		

Quality of fishing (general area A) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	17	9.7	25.0	25.0
	Fair	12	6.9	17.6	42.6
	Good	8	4.6	11.8	54.4
	Excellent	10	5.7	14.7	69.1
	n/a	21	12.0	30.9	100.0
	Total	68	38.9	100.0	
Missing	System	107	61.1		
Total		175	100.0		

Quality of fishing (general area A) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	17	9.2	15.7	15.7
	Fair	26	14.1	24.1	39.8
	Good	29	15.8	26.9	66.7
	Excellent	12	6.5	11.1	77.8
	n/a	23	12.5	21.3	99.1
	No response	1	.5	.9	100.0
	Total	108	58.7	100.0	
Missing	System	76	41.3		
Total		184	100.0		

Coded general area A ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	99	59.3	97.1	97.1
	Union Valley Reservoir	1	.6	1.0	98.0
	Loon Lake Reservoir	2	1.2	2.0	100.0
	Total	102	61.1	100.0	
Missing	System	65	38.9		
Total		167	100.0		

Coded general area A ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	2	1.2	1.9	1.9
	Union Valley Reservoir	99	57.9	94.3	96.2
	Gerle Creek Reservoir	1	.6	1.0	97.1
	Loon Lake Reservoir	3	1.8	2.9	100.0
	Total	105	61.4	100.0	
Missing	System	66	38.6		
Total		171	100.0		

Coded general area A ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	2	1.1	2.9	2.9
	Union Valley Reservoir	3	1.7	4.4	7.4
	Gerle Creek Reservoir	49	28.0	72.1	79.4
	Loon Lake Reservoir	5	2.9	7.4	86.8
	Gerle Creek below Loon Lake Dam	4	2.3	5.9	92.6
	Unreadable response	5	2.9	7.4	100.0
	Total	68	38.9	100.0	
Missing	System	107	61.1		
Total		175	100.0		

Coded general area A ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	2	1.1	1.9	1.9
	Union Valley Reservoir	3	1.6	2.8	4.6
	Gerle Creek Reservoir	1	.5	.9	5.6
	Loon Lake Reservoir	101	54.9	93.5	99.1
	Gerle Creek below Loon Lake Dam	1	.5	.9	100.0
	Total	108	58.7	100.0	
Missing	System	76	41.3		
Total		184	100.0		

Quality of fishing (general area B) ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Fair	4	2.4	44.4	44.4
	Excellent	2	1.2	22.2	66.7
	n/a	3	1.8	33.3	100.0
	Total	9	5.4	100.0	
Missing	System	158	94.6		
Total		167	100.0		

Quality of fishing (general area B) ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	1	.6	10.0	10.0
	Fair	8	4.7	80.0	90.0
	Good	1	.6	10.0	100.0
	Total	10	5.8	100.0	
Missing	System	161	94.2		
Total		171	100.0		

Quality of fishing (general area B) ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	2	1.1	18.2	18.2
	Fair	1	.6	9.1	27.3
	Good	2	1.1	18.2	45.5
	n/a	6	3.4	54.5	100.0
	Total	11	6.3	100.0	
Missing	System	164	93.7		
Total		175	100.0		

Quality of fishing (general area B) ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	2	1.1	16.7	16.7
	Fair	4	2.2	33.3	50.0
	Good	1	.5	8.3	58.3
	Excellent	3	1.6	25.0	83.3
	n/a	2	1.1	16.7	100.0
	Total	12	6.5	100.0	
Missing	System	172	93.5		
Total		184	100.0		

Coded general area B ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	2	1.2	22.2	22.2
	Union Valley Reservoir	1	.6	11.1	33.3
	Gerle Creek Reservoir	2	1.2	22.2	55.6
	Loon Lake Reservoir	1	.6	11.1	66.7
	Other Project Reservoir or stream	1	.6	11.1	77.8
	Other non-Project Reservoirs or streams	2	1.2	22.2	100.0
	Total	9	5.4	100.0	
	Missing	System	158	94.6	
Total		167	100.0		

Coded general area B ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	4	2.3	40.0	40.0
	Gerle Creek Reservoir	1	.6	10.0	50.0
	Loon Lake Reservoir	4	2.3	40.0	90.0
	South Fork Rubicon River below Robbs Forebay	1	.6	10.0	100.0
	Total	10	5.8	100.0	
Missing	System	161	94.2		
Total		171	100.0		

Coded general area B ~ GCR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	1	.6	9.1	9.1
	Gerle Creek Reservoir	2	1.1	18.2	27.3
	Loon Lake Reservoir	6	3.4	54.5	81.8
	Other non-Project Reservoirs or streams	2	1.1	18.2	100.0
	Total	11	6.3	100.0	
Missing	System	164	93.7		
Total		175	100.0		

Coded general area B ~ LLR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Gerle Creek Reservoir	2	1.1	16.7	16.7
	Loon Lake Reservoir	7	3.8	58.3	75.0
	Other Project Reservoir or stream	1	.5	8.3	83.3
	Other non-Project Reservoirs or streams	2	1.1	16.7	100.0
	Total	12	6.5	100.0	
Missing	System	172	93.5		
Total		184	100.0		

Willing to provide name and address for future studies ~ IHR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	95	56.9	56.9	56.9
	no	70	41.9	41.9	98.8
	No response	2	1.2	1.2	100.0
Total		167	100.0	100.0	

Willing to provide name and address for future studies ~ UVR

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	107	62.6	62.6	62.6
	no	64	37.4	37.4	100.0
Total		171	100.0	100.0	

Willing to provide name and address for future studies ~ GCR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	100	57.1	57.1	57.1
no	75	42.9	42.9	100.0
Total	175	100.0	100.0	

Willing to provide name and address for future studies ~ LLR

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	93	50.5	50.5	50.5
no	88	47.8	47.8	98.4
No response	3	1.6	1.6	100.0
Total	184	100.0	100.0	

Appendix C.2.2 Frequencies – Dispersed Data Set

This compilation presents the results of 68 personal interviews conducted at undeveloped areas around the four primary Project reservoirs (Ice House, Union Valley, Gerle Creek and Loon Lake), generally within one-quarter mile from the reservoir shoreline, during the summer of 2002. The survey areas were identified during the May 16, 2002, survey design meeting held at the Eldorado National Forest’s Pacific Ranger District office.

The results are contained in frequency and percentage tables. The order of presentation follows the order that the questions are displayed in the survey instrument.

Reservoir

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Ice House	9	13.2	13.2	13.2
Union Valley	21	30.9	30.9	44.1
Gerle Creek	10	14.7	14.7	58.8
Loon Lake	23	33.8	33.8	92.6
Junction	5	7.4	7.4	100.0
Total	68	100.0	100.0	

Location

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	SF Silver Creek above IHR.2.	1	1.5	1.5	1.5
	SPCG to South Fork Silver Creek.3.	7	10.3	10.3	11.8
	Northwind CG to IHCG.5.	1	1.5	1.5	13.2
	South Shore (UVR).7.	3	4.4	4.4	17.6
	Between West Point boat launches.9.	4	5.9	5.9	23.5
	North of West Point CG.10.	4	5.9	5.9	29.4
	Camino Cove - West.11.	4	5.9	5.9	35.3
	Camino Cove - East.12.	3	4.4	4.4	39.7
	SMUDEA to YJCG.15.	1	1.5	1.5	41.2
	SE of Lizard Rock.16.	1	1.5	1.5	42.6
	Lizard Rock.17.	1	1.5	1.5	44.1
	WSR & GC-SE qt.19.	4	5.9	5.9	50.0
	WSR & GC - SW qt.21.	2	2.9	2.9	52.9
	13N52 - 2nd Area.23.	1	1.5	1.5	54.4
	AC Picnic - South.25.	1	1.5	1.5	55.9
	IHR & SFRR - SE qt.26.	2	2.9	2.9	58.8
	Pleasant Lake - South.31.	1	1.5	1.5	60.3
	Red Fir to main dam.32.	6	8.8	8.8	69.1
	North Shore to Red Fir.33.	6	8.8	8.8	77.9
	Ski trail to North Shore.34.	4	5.9	5.9	83.8
	Informal boat launch to ski trail.35.	4	5.9	5.9	89.7
	North of main dam near spillway.36.	1	1.5	1.5	91.2
	Auxiliary dam - North.37.	1	1.5	1.5	92.6
	South of UV Dam.40.	1	1.5	1.5	94.1
	Junction Res. undeveloped BL.42.	2	2.9	2.9	97.1
	Bryant Springs Rd. & SFSC.43.	1	1.5	1.5	98.5
	Other dispersed area near JR.45.	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

Note: the number following the location description above is the location code number. Other tables in this document show responses verbatim, followed by the location code designating where that survey was administered.

Gender

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	48	70.6	70.6	70.6
	Female	19	27.9	27.9	98.5
	No response	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

Zip County (final)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	El Dorado County	13	19.1	19.1	19.1
	Sacramento County	27	39.7	39.7	58.8
	Placer County	2	2.9	2.9	61.8
	Yolo County	1	1.5	1.5	63.2
	Bay Area	17	25.0	25.0	88.2
	Northern CA	1	1.5	1.5	89.7
	Coast	1	1.5	1.5	91.2
	Central Valley	3	4.4	4.4	95.6
	Out of State	2	2.9	2.9	98.5
	Unreadable response	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

in Group

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1	2	2.9	2.9	2.9
2	10	14.7	14.7	17.6
3	7	10.3	10.3	27.9
4	9	13.2	13.2	41.2
5	7	10.3	10.3	51.5
6	3	4.4	4.4	55.9
7	8	11.8	11.8	67.6
8	5	7.4	7.4	75.0
9	1	1.5	1.5	76.5
10	2	2.9	2.9	79.4
11	1	1.5	1.5	80.9
12	1	1.5	1.5	82.4
13	1	1.5	1.5	83.8
14	2	2.9	2.9	86.8
15	1	1.5	1.5	88.2
19	1	1.5	1.5	89.7
20	3	4.4	4.4	94.1
22	1	1.5	1.5	95.6
30	1	1.5	1.5	97.1
32	1	1.5	1.5	98.5
38	1	1.5	1.5	100.0
Total	68	100.0	100.0	

of Vehicles

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1	20	29.4	29.4	29.4
2	15	22.1	22.1	51.5
3	11	16.2	16.2	67.6
4	5	7.4	7.4	75.0
5	3	4.4	4.4	79.4
6	1	1.5	1.5	80.9
7	2	2.9	2.9	83.8
8	1	1.5	1.5	85.3
9	1	1.5	1.5	86.8
10	2	2.9	2.9	89.7
11	1	1.5	1.5	91.2
15	1	1.5	1.5	92.6
16	1	1.5	1.5	94.1
20	2	2.9	2.9	97.1
30	1	1.5	1.5	98.5
No response	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Yrs Visiting Crystal Basin

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid First visit	9	13.2	13.2	13.2
1	3	4.4	4.4	17.6
2	4	5.9	5.9	23.5
3	2	2.9	2.9	26.5
4	1	1.5	1.5	27.9
5	5	7.4	7.4	35.3
6	2	2.9	2.9	38.2
7	3	4.4	4.4	42.6
9	1	1.5	1.5	44.1
10	6	8.8	8.8	52.9
11-15	9	13.2	13.2	66.2
16-20	6	8.8	8.8	75.0
21-30	10	14.7	14.7	89.7
31-40	6	8.8	8.8	98.5
41-50	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Is Your Visit

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	the primary destination of your trip	59	86.8	86.8	86.8
	a side trip while camped at another location in the Crystal	7	10.3	10.3	97.1
	a stop on route to another destination	2	2.9	2.9	100.0
	Total	68	100.0	100.0	

Other Destination

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Rubicon Jeep Trail/Wentworth Springs Rd.	1	1.5	50.0	50.0
	Other destination inside Crystal Basin	1	1.5	50.0	100.0
	Total	2	2.9	100.0	
Missing	System	66	97.1		
	Total	68	100.0		

Cuff notes on “Other” destination inside of Crystal Basin:
Hiking near UV Dam – (Bryant Springs Road @ SFSC).

Day or Overnight

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Day Trip	15	22.1	22.1	22.1
	Staying Overnight	53	77.9	77.9	100.0
	Total	68	100.0	100.0	

Hours of Day Trip

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	4 to 6 hours	8	11.8	53.3	53.3
	7 to 9 hours	2	2.9	13.3	66.7
	10 hours or more	5	7.4	33.3	100.0
	Total	15	22.1	100.0	
Missing	System	53	77.9		
	Total	68	100.0		

of Nights

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 night	3	4.4	5.7	5.7
	2 nights	24	35.3	45.3	50.9
	3 nights	6	8.8	11.3	62.3
	4 nights	7	10.3	13.2	75.5
	5 nights	3	4.4	5.7	81.1
	6 nights	1	1.5	1.9	83.0
	7 nights	4	5.9	7.5	90.6
	8 to 14 nights	4	5.9	7.5	98.1
	No response	1	1.5	1.9	100.0
	Total	53	77.9	100.0	
Missing	System	15	22.1		
Total		68	100.0		

Type of Camping

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground	7	10.3	13.2	13.2
	Undeveloped Campsite	44	64.7	83.0	96.2
	Resort, Private Cabin or Residence	2	2.9	3.8	100.0
	Total	53	77.9	100.0	
Missing	System	15	22.1		
Total		68	100.0		

Name of Campground

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground at Ice House Reservoir	1	1.5	14.3	14.3
	Campground at Union Valley Reservoir	4	5.9	57.1	71.4
	Campground at Wrights Lake	1	1.5	14.3	85.7
	Other	1	1.5	14.3	100.0
	Total	7	10.3	100.0	
Missing	System	61	89.7		
Total		68	100.0		

Cuff notes on "Other":

Unknown – (Camino Cove, east).

Undeveloped Campsite

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Site within .25 mile of Union Valley Reservoir	10	14.7	22.7	22.7
	Site within .25 mile of Gerle Creek Reservoir	10	14.7	22.7	45.5
	Site within .25 mile of Loon Lake Reservoir	21	30.9	47.7	93.2
	Site within .25 mile of Junction Reservoir	2	2.9	4.5	97.7
	No Response	1	1.5	2.3	100.0
	Total	44	64.7	100.0	
Missing	System	24	35.3		
Total		68	100.0		

Resort

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Robbs Resort	1	1.5	50.0	50.0
	Other	1	1.5	50.0	100.0
	Total	2	2.9	100.0	
Missing	System	66	97.1		
Total		68	100.0		

Cuff notes on "Other":

KUHL (Old Swift Ranch) near Camino Cove – (Camino Cove, east).

Intent of Camping

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Intended to stay here	43	63.2	93.5	93.5
	Intended to stay at a developed campground	3	4.4	6.5	100.0
	Total	46	67.6	100.0	
Missing	System	22	32.4		
Total		68	100.0		

Which one

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground at Union Valley Reservoir	1	1.5	33.3	33.3
	Campground at Gerle Creek Reservoir	1	1.5	33.3	66.7
	Other	1	1.5	33.3	100.0
	Total	3	4.4	100.0	
Missing	System	65	95.6		
Total		68	100.0		

Cuff notes on "Other":

Robbs Hut – (Lizard Rock).

Backpacking

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	3	4.4	100.0	100.0
Missing	System	65	95.6		
Total		68	100.0		

Bicycling

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	11	16.2	100.0	100.0
Missing	System	57	83.8		
Total		68	100.0		

Canoeing/Kayaking

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	5	7.4	100.0	100.0
Missing	System	63	92.6		
Total		68	100.0		

Fishing (Lake or Reservoir)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	44	64.7	100.0	100.0
Missing	System	24	35.3		
Total		68	100.0		

Fishing (Stream or River)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	7	10.3	100.0	100.0
Missing System	61	89.7		
Total	68	100.0		

Hiking/Walking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	38	55.9	100.0	100.0
Missing System	30	44.1		
Total	68	100.0		

Hunting

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	1	1.5	100.0	100.0
Missing System	67	98.5		
Total	68	100.0		

OHV Use

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	26	38.2	100.0	100.0
Missing System	42	61.8		
Total	68	100.0		

Picnicking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	35	51.5	100.0	100.0
Missing System	33	48.5		
Total	68	100.0		

Photography

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	29	42.6	100.0	100.0
Missing System	39	57.4		
Total	68	100.0		

Power Boating

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	16	23.5	100.0	100.0
Missing System	52	76.5		
Total	68	100.0		

PWC Use

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	2	2.9	100.0	100.0
Missing System	66	97.1		
Total	68	100.0		

Sail Boating

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	2	2.9	100.0	100.0
Missing System	66	97.1		
Total	68	100.0		

Swimming

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	53	77.9	100.0	100.0
Missing System	15	22.1		
Total	68	100.0		

Visiting Cultural/Historic Sites

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	7	10.3	100.0	100.0
Missing System	61	89.7		
Total	68	100.0		

Wildlife Viewing

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	28	41.2	100.0	100.0
Missing System	40	58.8		
Total	68	100.0		

Other

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	62	91.2	91.2	91.2
Beer.9.	1	1.5	1.5	92.6
Gold Panning	1	1.5	1.5	94.1
Looking at vegetation.12.	1	1.5	1.5	95.6
Paint Ball Shooting.35.	1	1.5	1.5	97.1
Shooting.34.	1	1.5	1.5	98.5
Shooting.35.	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Most Important Activity

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Fishing (Lake or Reservoir)	21	30.9	30.9	30.9
Fishing (Stream or River)	1	1.5	1.5	32.4
Hiking/Walking	4	5.9	5.9	38.2
Hunting	1	1.5	1.5	39.7
OHV Use	18	26.5	26.5	66.2
Picnicking	3	4.4	4.4	70.6
Power Boating	5	7.4	7.4	77.9
Swimming	12	17.6	17.6	95.6
Wildlife Viewing	3	4.4	4.4	100.0
Total	68	100.0	100.0	

2nd Most Important Activity

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Fishing (Lake or Reservoir)	6	8.8	8.8	8.8
Fishing (Stream or River)	3	4.4	4.4	13.2
Hiking/Walking	13	19.1	19.1	32.4
OHV Use	4	5.9	5.9	38.2
Picnicking	11	16.2	16.2	54.4
Photography	1	1.5	1.5	55.9
Power Boating	5	7.4	7.4	63.2
PWC Use (Jet Ski)	1	1.5	1.5	64.7
Swimming	18	26.5	26.5	91.2
Visiting Cultural/Historic Sites	1	1.5	1.5	92.6
Wildlife Viewing	2	2.9	2.9	95.6
No response	3	4.4	4.4	100.0
Total	68	100.0	100.0	

3rd Most Important Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bicycling	2	2.9	2.9	2.9
	Fishing (Lake or Reservoir)	9	13.2	13.2	16.2
	Hiking/Walking	7	10.3	10.3	26.5
	OHV Use	1	1.5	1.5	27.9
	Picnicking	9	13.2	13.2	41.2
	Photography	5	7.4	7.4	48.5
	Power Boating	3	4.4	4.4	52.9
	Swimming	13	19.1	19.1	72.1
	Wildlife Viewing	5	7.4	7.4	79.4
	Other	3	4.4	4.4	83.8
	No response	11	16.2	16.2	100.0
	Total	68	100.0	100.0	

Changes to Motorized Trails

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	20	29.4	29.4	29.4
	No	34	50.0	50.0	79.4
	No Opinion	14	20.6	20.6	100.0
	Total	68	100.0	100.0	

Coded List of What Changes to Motorized 1 (max 3)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Expanded motorized trail system	9	13.2	45.0	45.0
	Reopen Bassi Falls area	1	1.5	5.0	50.0
	Reduce regulations or enforcement over OHV use	1	1.5	5.0	55.0
	Improve trailhead markers (not obvious if allowable)	1	1.5	5.0	60.0
	Reduce or eliminate motorized trail system	3	4.4	15.0	75.0
	Strengthen regulations or enforcement over OHV use	1	1.5	5.0	80.0
	More paved or other road improvements	2	2.9	10.0	90.0
	Other	2	2.9	10.0	100.0
	Total	20	29.4	100.0	
Missing	System	48	70.6		
Total		68	100.0		

Cuff notes on “Other”:

- Enforce 14-day limit and provide more FCFS (between West Point boat launches).
- Install bear lockers at Buck Island Reservoir and Spider Lake (Wentworth Springs Road @ Gerle Creek).
- Put dumpsters at ingress and egress points (Wentworth Springs Road @ Gerle Creek).
- Trash cans and bathrooms – Rubicon Trail (North Shore Drive to Red Fir Drive).

Coded List of What Changes to Motorized 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Expanded motorized trail system	1	1.5	25.0	25.0
	Reopen Bassi Falls area	1	1.5	25.0	50.0
	Other	2	2.9	50.0	100.0
	Total	4	5.9	100.0	
Missing	System	64	94.1		
Total		68	100.0		

Changes to Non-Motorized Trails

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	11	16.2	16.2	16.2
No	36	52.9	52.9	69.1
No Opinion	21	30.9	30.9	100.0
Total	68	100.0	100.0	

Coded List of What Changes to Non-Motorized 1 (max 3)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Better trail/trailhead marking	7	10.3	63.6	63.6
More bike trails	1	1.5	9.1	72.7
More equestrian trails	1	1.5	9.1	81.8
More trails	2	2.9	18.2	100.0
Total	11	16.2	100.0	
Missing System	57	83.8		
Total	68	100.0		

Are improvements needed to make access to shorelines easier, safer OR more enjoyable?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid At least one yes in 12a,b,c	21	30.9	30.9	30.9
No	41	60.3	60.3	91.2
No Opinion	6	8.8	8.8	100.0
Total	68	100.0	100.0	

Coded list of changes to shorelines 1 (max 4)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Clearly defined trail to shoreline	3	4.4	14.3	14.3
More sand/Less rocks	2	2.9	9.5	23.8
Pave trail to shoreline	1	1.5	4.8	28.6
Banks are too steep	1	1.5	4.8	33.3
Greater road access	3	4.4	14.3	47.6
More boat ramps	2	2.9	9.5	57.1
Other	7	10.3	33.3	90.5
No response	2	2.9	9.5	100.0
Total	21	30.9	100.0	
Missing System	47	69.1		
Total	68	100.0		

Cuff notes on "Other":

More trash cans (2 - Strawberry Point CG to South Fork Silver Creek and Ski trail to North Shore Drive).

More trash removal (Red Fir Dirve to Loon Lake Main Dam).

Toilets (South Fork Silver Creek above Ice House Reservoir).

Restrooms (Strawberry Point CG to South Fork Silver Creek).

Flush toilets at boat launch (North of West Point CG).

Don't make access any easier (Loon Lake Auxiliary Dam, north).

Wider shoreline area (Strawberry Point CG to South Fork Silver Creek).

More dams for fishing (Strawberry Point CG to South Fork Silver Creek).

Mark the rocks (North of West Point CG).

More direct route to Gerle Creek Picnic Area w/o driving through GCCG - (Wentworth Springs Road @ Gerle Creek).

More rangers patrolling (Ski trail to North Shore Drive).

Coded list of changes to shorelines 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Clearly defined trail to shoreline	1	1.5	12.5	12.5
	More sand/Less rocks	1	1.5	12.5	25.0
	More picnic or day-use areas	1	1.5	12.5	37.5
	Other	5	7.4	62.5	100.0
	Total	8	11.8	100.0	
Missing	System	60	88.2		
Total		68	100.0		

Coded list of changes to shorelines 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Clearly defined trail to shoreline	1	1.5	50.0	50.0
	Keep water levels up	1	1.5	50.0	100.0
	Total	2	2.9	100.0	
Missing	System	66	97.1		
Total		68	100.0		

Are improvements needed t o make access to streams easier, safer OR more enjoyable?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	At least one yes in 12a,b,c	6	8.8	8.8	8.8
	No	52	76.5	76.5	85.3
	No Opinion	10	14.7	14.7	100.0
	Total	68	100.0	100.0	

Coded list of changes to rivers or streams 1 (max 4)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve road and trail access to river or stream	3	4.4	50.0	50.0
	More information about access	1	1.5	16.7	66.7
	Other	1	1.5	16.7	83.3
	No response	1	1.5	16.7	100.0
	Total	6	8.8	100.0	
Missing	System	62	91.2		
Total		68	100.0		

Cuff notes on "Other":

Open gates at Jaybird PH and road near Camino Adit (Other dispersed area near Junction Res).

Coded list of changes to rivers or streams 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve road and trail access to river or stream	1	1.5	100.0	100.0
Missing	System	67	98.5		
Total		68	100.0		

Did reservoir water level allow you to participate in activities?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	63	92.6	92.6	92.6
	No Opinion	5	7.4	7.4	100.0
	Total	68	100.0	100.0	

If no, to what degree did water level negatively impact type of experience planned?

		Frequency	Percent
Missing	System	68	100.0

List of what impacts and how it affected trip

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		68	100.0	100.0	100.0

To what extent did reservoir water level negatively affect the quality of experience?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid None	58	85.3	85.3	85.3
Minimal	2	2.9	2.9	88.2
Moderate	2	2.9	2.9	91.2
Significant	1	1.5	1.5	92.6
No Opinion	5	7.4	7.4	100.0
Total	68	100.0	100.0	

List of how if affected the quality of experience (reservoir/quality)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	63	92.6	92.6	92.6
Fishing, swimming at Gerle wasn't so nice.19.	1	1.5	1.5	94.1
Hampers fishing & swimming.31.	1	1.5	1.5	95.6
Little more water.10.	1	1.5	1.5	97.1
No Response.35.	1	1.5	1.5	98.5
WPBL - road to 2nd BL underwater about 1 foot - muddy.40.	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Did amount of flow in streams allow participation in activities planned?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	29	42.6	42.6	42.6
No	6	8.8	8.8	51.5
No Opinion	33	48.5	48.5	100.0
Total	68	100.0	100.0	

If no, to what degree did amount of flow negatively impact type of experience planned?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid None	2	2.9	33.3	33.3
Moderate	1	1.5	16.7	50.0
No response	3	4.4	50.0	100.0
Total	6	8.8	100.0	
Missing System	62	91.2		
Total	68	100.0		

List of what impacts and how it affected trip

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	67	98.5	98.5	98.5
Streams off Jaybird Canyon Rd. (before Camino Res.) creeks were dry.	1	1.5	1.5	100.0
Total	68	100.0	100.0	

To what extent did amount of flow in streams negatively affect quality of experience?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid None	40	58.8	58.8	58.8
Minimal	2	2.9	2.9	61.8
No Opinion	26	38.2	38.2	100.0
Total	68	100.0	100.0	

List of what segment, what impacts and how (streams/quality)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	66	97.1	97.1	97.1
It didn't impact it.25.	1	1.5	1.5	98.5
No Response.19.	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Are there activities you are unable to participate in?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	10	14.7	14.7	14.7
No	57	83.8	83.8	98.5
Don't Know	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Coded list of activities

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Boating - don't have boat or no place to rent	1	1.5	10.0	10.0
Other water based	1	1.5	10.0	20.0
Other land based	4	5.9	40.0	60.0
Other	3	4.4	30.0	90.0
No response	1	1.5	10.0	100.0
Total	10	14.7	100.0	
Missing System	58	85.3		
Total	68	100.0		

Cuff notes on “Other Water Based”:

Water skiing at night – fun to do (between West Point Boat Launches).

Cuff notes on “Other Land Based”:

More OHV trails (North Shore Drive to Red Fir Drive).

Hunting Deer – not in season (North Shore Drive to Red Fir Drive).

Organized OHV trail ride (Wentworth Springs Road @ Gerle Creek).

Trail to Bassi Falls – access (North of West Point CG).

Cuff notes on “Other”:

Campfires in undeveloped sites (3 – Wentworth Springs Road @ Gerle Creek, North Shore Drive to Red Fir Drive, and Ski trail to North Shore drive).

Any change or improvements at this location?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	33	48.5	48.5	48.5
No	35	51.5	51.5	100.0
Total	68	100.0	100.0	

Coded list of changes 1 (max 3)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Bathroom or shower related	2	2.9	6.1	6.1
Potable water related	2	2.9	6.1	12.1
Other developed facility changes	10	14.7	30.3	42.4
Improve management services	3	4.4	9.1	51.5
Boat launch related	2	2.9	6.1	57.6
Trails related	4	5.9	12.1	69.7
More beaches	1	1.5	3.0	72.7
Higher reservoir levels	1	1.5	3.0	75.8
Stock more fish	1	1.5	3.0	78.8
Other	6	8.8	18.2	97.0
No response	1	1.5	3.0	100.0
Total	33	48.5	100.0	
Missing System	35	51.5		
Total	68	100.0		

Cuff notes on “Other”:

- No bugs (South Fork Silver Creek above Ice House Reservoir).
- Pave North Shore Road @ UV Reservoir (South shore, near UV Reservoir intake).
- Keep providing non-fee camping (Between West Point boat launches).
- Less regulations – FS focus on trees (Between West Point boat launches).
- More group camping opportunities for OHV club (Wentworth Springs Road @ Gerle Creek).
- When reservoir levels drop, allow vehicles down to water’s edge for loading and unloading (SMUDEA to Yellowjacket CG).
- Add more gravel to keep dust down (Wentworth Springs Road @ Gerle Creek).
- Add cell tower for Rubicon area (Wentworth Springs Road @ Gerle Creek).
- Develop parking for vehicles and trailers below Loon Lake Dam (Wentworth Springs Road @ Gerle Creek).
- No bathing in lakes (Red Fir Drive to LL Main Dam).
- Better maintained natural settings (LL Auxiliary Dam, north side).
- Lessen water bars on road (South of Union Valley Dam, above PH on south side).
- Plant some trees for shade (undeveloped boat launch at Junction Reservoir).

Coded list of changes 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other developed facility changes	5	7.4	41.7	41.7
	Improve management services	1	1.5	8.3	50.0
	Boat launch related	1	1.5	8.3	58.3
	Other	5	7.4	41.7	100.0
	Total	12	17.6	100.0	
Missing	System	56	82.4		
Total		68	100.0		

Coded list of changes 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other developed facility changes	2	2.9	40.0	40.0
	More campgrounds or campsites	1	1.5	20.0	60.0
	Other	2	2.9	40.0	100.0
	Total	5	7.4	100.0	
Missing	System	63	92.6		
Total		68	100.0		

Drill down of "bathroom or shower related 1"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More bathrooms	2	2.9	100.0	100.0
Missing	System	66	97.1		
Total		68	100.0		

Drill down of "potable water related"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Provide potable water	1	1.5	50.0	50.0
	Other	1	1.5	50.0	100.0
	Total	2	2.9	100.0	
Missing	System	66	97.1		
Total		68	100.0		

Cuff notes on "Other potable water related":

More signs posting where you can obtain potable water (Strawberry Point CG to South Fork Silver Creek).

Drill down of "other developed facility changes 1"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More picnic tables	4	5.9	26.7	26.7
	bigger parking lot	1	1.5	6.7	33.3
	Other	10	14.7	66.7	100.0
	Total	15	22.1	100.0	
Missing	System	53	77.9		
Total		68	100.0		

Cuff notes on "Other developed facility changes":

Fire rings at dispersed areas (5 - two at informal boat launch at LL to ski trail, North Shore Drive to Red Fir Drive, Red Fir Drive to LL Main Dam, and between West Point boat launches).

More dumpsters (3 - Red Fir Drive to LL Main Dam, informal boat launch at LL to ski trail and 13N52 2nd area).

Trash cans (2 - Red Fir Drive to LL Main Dam and Strawberry Point CG to South Fork Silver Creek).

More litter removal (LL Auxiliary dam, north side).

Move large rocks back about 2-3 feet in campgrounds (SMUDEA to Yellowjacket CG).

Drill down of "other developed facility changes 2"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	2	2.9	100.0	100.0
Missing	System	66	97.1		
Total		68	100.0		

Drill down of "improve management services"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Reduce litter	4	5.9	100.0	100.0
Missing	System	64	94.1		
Total		68	100.0		

Drill down of "boat launch related"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Launching improvements	3	4.4	100.0	100.0
Missing	System	65	95.6		
Total		68	100.0		

Drill down of "trails related"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Increase/improve trails	4	5.9	100.0	100.0
Missing	System	64	94.1		
Total		68	100.0		

Mountain/Forested area

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	1	1.5	1.5	1.5
	Somewhat important	2	2.9	2.9	4.4
	Moderately important	15	22.1	22.1	26.5
	Extremely important	50	73.5	73.5	100.0
Total		68	100.0	100.0	

Natural Lakes & Ponds

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	2	2.9	2.9	2.9
	Somewhat important	7	10.3	10.3	13.2
	Moderately important	16	23.5	23.5	36.8
	Extremely important	43	63.2	63.2	100.0
Total		68	100.0	100.0	

Reservoirs

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	3	4.4	4.4	4.4
	Somewhat important	7	10.3	10.3	14.7
	Moderately important	10	14.7	14.7	29.4
	Extremely important	48	70.6	70.6	100.0
Total		68	100.0	100.0	

Rivers/Streams

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	5	7.4	7.4	7.4
	Somewhat important	8	11.8	11.8	19.1
	Moderately important	13	19.1	19.1	38.2
	Extremely important	42	61.8	61.8	100.0
Total		68	100.0	100.0	

Boat Launch Ramps

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	15	22.1	22.1	22.1
	Somewhat important	10	14.7	14.7	36.8
	Moderately important	14	20.6	20.6	57.4
	Extremely important	27	39.7	39.7	97.1
	No response	2	2.9	2.9	100.0
	Total	68	100.0	100.0	

Developed Campgrounds

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	17	25.0	25.0	25.0
	Somewhat important	14	20.6	20.6	45.6
	Moderately important	19	27.9	27.9	73.5
	Extremely important	17	25.0	25.0	98.5
	No response	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

Developed Swimming/Beach Areas

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	21	30.9	30.9	30.9
	Somewhat important	14	20.6	20.6	51.5
	Moderately important	13	19.1	19.1	70.6
	Extremely important	19	27.9	27.9	98.5
	No response	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

Non-motorized Trails

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	12	17.6	17.6	17.6
	Somewhat important	16	23.5	23.5	41.2
	Moderately important	20	29.4	29.4	70.6
	Extremely important	18	26.5	26.5	97.1
	No response	2	2.9	2.9	100.0
	Total	68	100.0	100.0	

OHV Trails

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	16	23.5	23.5	23.5
	Somewhat important	15	22.1	22.1	45.6
	Moderately important	7	10.3	10.3	55.9
	Extremely important	28	41.2	41.2	97.1
	No response	2	2.9	2.9	100.0
	Total	68	100.0	100.0	

Picnic Facilities

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	16	23.5	23.5	23.5
	Somewhat important	21	30.9	30.9	54.4
	Moderately important	17	25.0	25.0	79.4
	Extremely important	13	19.1	19.1	98.5
	No response	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

Two-Laned Paved Road Access

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	14	20.6	20.6	20.6
	Somewhat important	14	20.6	20.6	41.2
	Moderately important	18	26.5	26.5	67.6
	Extremely important	21	30.9	30.9	98.5
	No response	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

How likely or unlikely to come to CB

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very unlikely	18	26.5	26.5	26.5
	Unlikely	20	29.4	29.4	55.9
	Likely	19	27.9	27.9	83.8
	Very likely	10	14.7	14.7	98.5
	Don't know	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

Recreation activities that conflicted with you

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	8	11.8	11.9	11.9
	No	59	86.8	88.1	100.0
	Total	67	98.5	100.0	
Missing	System	1	1.5		
Total		68	100.0		

What recreation activities conflicted with you 1 (max 2)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Motor boating related	1	1.5	12.5	12.5
	OHV - too loud, disruption of peace	1	1.5	12.5	25.0
	PWC - nosiy and disruptive	2	2.9	25.0	50.0
	Gunshots or fireworks - noisy, dangerous, made nervous	2	2.9	25.0	75.0
	Rowdy people - noisy, disruptive of peace	1	1.5	12.5	87.5
	Other	1	1.5	12.5	100.0
	Total	8	11.8	100.0	
Missing	System	60	88.2		
Total		68	100.0		

Cuff notes for "other":

Development of recreation facilities – eliminated dispersed camping opportunities (south of Angel Creek Picnic facility).

Drill down of "motor boating"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	wake	1	1.5	100.0	100.0
Missing	System	67	98.5		
Total		68	100.0		

What recreation activities conflicted with you 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Rowdy people - noisy, disruptive of peace	1	1.5	100.0	100.0
Missing	System	67	98.5		
Total		68	100.0		

Non-recreation activities that conflicted with you

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	2	2.9	2.9	2.9
No	66	97.1	97.1	100.0
Total	68	100.0	100.0	

List of non-recreation activities that conflicted with you

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	66	97.1	97.1	97.1
Can't have fire pit - disappointing.9.	1	1.5	1.5	98.5
Regulations & rules very much restricts freedoms (FS & Sheriff).9.	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Recreation activities causing harm to environment

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	16	23.5	23.5	23.5
No	51	75.0	75.0	98.5
No Opinion	1	1.5	1.5	100.0
Total	68	100.0	100.0	

What recreation activities 1 (max 2)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid OHVs - degrades forest, erosion, air pollution	3	4.4	18.8	18.8
Personal water craft - water and air pollution	3	4.4	18.8	37.5
Power boats - water and air pollution	1	1.5	6.3	43.8
Fireworks - forest fire hazard	1	1.5	6.3	50.0
Visitors leaving trash behind	3	4.4	18.8	68.8
Gun shooting - dangerous	1	1.5	6.3	75.0
Cutting or chopping trees	1	1.5	6.3	81.3
Other	3	4.4	18.8	100.0
Total	16	23.5	100.0	
Missing System	52	76.5		
Total	68	100.0		

Cuff notes for “other”:

Development of recreation facilities – more people equals more impact on environment (south of Angel Creek Picnic facility).

Using the woods for a restroom – didn’t use cat hole (North of West Point).

Paint balls and soap in lake (Red Fir Drive to LL Main Dam).

What recreation activities 2

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Power boats - water and air pollution	1	1.5	100.0	100.0
Missing System	67	98.5		
Total	68	100.0		

Non-recreation activities causing harm to environment

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	3	4.4	4.4	4.4
No	63	92.6	92.6	97.1
No Opinion	2	2.9	2.9	100.0
Total	68	100.0	100.0	

List of non-recreation activities causing harm to environment

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	65	95.6	95.6	95.6
Forest thinning is too thin & clear cutting - eyesore.15.	1	1.5	1.5	97.1
No Response.12.	1	1.5	1.5	98.5
Sheriffs on guard driving quickly-lots of dust.33.	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Described how crowded you feel (facility)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all crowded	43	63.2	63.2	63.2
Slightly crowded	16	23.5	23.5	86.8
Moderately crowded	8	11.8	11.8	98.5
Extremely crowded	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Did you bring watercraft?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	25	36.8	36.8	36.8
	no	42	61.8	61.8	98.5
	No response	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

Which reservoir on the most?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Gerle Creek	2	2.9	8.0	8.0
	Ice House	3	4.4	12.0	20.0
	Loon Lake	4	5.9	16.0	36.0
	Union Valley	15	22.1	60.0	96.0
	Other	1	1.5	4.0	100.0
	Total	25	36.8	100.0	
Missing	System	43	63.2		
	Total	68	100.0		

Other reservoir

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		67	98.5	98.5	98.5
	Junction Reservoir.42.	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

Describe how crowded (reservoir)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all crowded	18	26.5	72.0	72.0
	Slightly crowded	4	5.9	16.0	88.0
	Moderately crowded	2	2.9	8.0	96.0
	Don't know	1	1.5	4.0	100.0
	Total	25	36.8	100.0	
Missing	System	43	63.2		
	Total	68	100.0		

Info on campsite availability

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	22	32.4	32.4	32.4
inadequate	8	11.8	11.8	44.1
never looked for it	37	54.4	54.4	98.5
No response	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Suggestions (campsite availability)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Improve Internet/web	2	2.9	25.0	25.0
Provide more first-come, first-serve	2	2.9	25.0	50.0
Provide more information	1	1.5	12.5	62.5
Other	1	1.5	12.5	75.0
No response	2	2.9	25.0	100.0
Total	8	11.8	100.0	
Missing System	60	88.2		
Total	68	100.0		

Cuff notes for "other":

Difficult to reserve (Strawberry Point CG to South Fork Silver Creek).

Info on campfire restrictions

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	51	75.0	75.0	75.0
inadequate	1	1.5	1.5	76.5
never looked for it	15	22.1	22.1	98.5
No response	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Suggestions (campfire restrictions)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Other	1	1.5	100.0	100.0
Missing System	67	98.5		
Total	68	100.0		

Cuff notes for "other":

Unable to get permits (Informal boat launch at LL to ski trail).

Info on reservoir levels

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	31	45.6	45.6	45.6
inadequate	5	7.4	7.4	52.9
never looked for it	31	45.6	45.6	98.5
No response	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Suggestions (reservoir levels)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Improve Internet/web	3	4.4	60.0	60.0
Post in newspaper	1	1.5	20.0	80.0
No response	1	1.5	20.0	100.0
Total	5	7.4	100.0	
Missing System	63	92.6		
Total	68	100.0		

Info on wilderness permits

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	18	26.5	26.5	26.5
inadequate	1	1.5	1.5	27.9
never looked for it	47	69.1	69.1	97.1
No response	2	2.9	2.9	100.0
Total	68	100.0	100.0	

Suggestions (wilderness permits)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid No response	1	1.5	100.0	100.0
Missing System	67	98.5		
Total	68	100.0		

Info on trail locations

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	28	41.2	41.2	41.2
inadequate	11	16.2	16.2	57.4
never looked for it	28	41.2	41.2	98.5
No response	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Suggestions (trail locations)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	2	2.9	18.2	18.2
	Post on map or brochure	2	2.9	18.2	36.4
	Provide more trail signs	5	7.4	45.5	81.8
	No response	2	2.9	18.2	100.0
	Total	11	16.2	100.0	
Missing	System	57	83.8		
Total		68	100.0		

Info on stream flow rate &/or depths

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	17	25.0	25.0	25.0
	inadequate	3	4.4	4.4	29.4
	never looked for it	47	69.1	69.1	98.5
	No response	1	1.5	1.5	100.0
Total		68	100.0	100.0	

Suggestions (stream flow rate)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	1	1.5	33.3	33.3
	Post in newspaper	2	2.9	66.7	100.0
	Total	3	4.4	100.0	
Missing	System	65	95.6		
Total		68	100.0		

Info on environmental or educational displays

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	21	30.9	30.9	30.9
	inadequate	3	4.4	4.4	35.3
	never looked for it	43	63.2	63.2	98.5
	No response	1	1.5	1.5	100.0
Total		68	100.0	100.0	

Suggestions (displays)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Provide more displays	3	4.4	100.0	100.0
Missing	System	65	95.6		
Total		68	100.0		

Info on fish stocking

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	16	23.5	23.5	23.5
	inadequate	6	8.8	8.8	32.4
	never looked for it	45	66.2	66.2	98.5
	No response	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

Suggestions (fish stocking)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	1	1.5	16.7	16.7
	Post at facilities	1	1.5	16.7	33.3
	Post in newspaper	3	4.4	50.0	83.3
	No response	1	1.5	16.7	100.0
	Total	6	8.8	100.0	
Missing	System	62	91.2		
	Total	68	100.0		

Info on other

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	inadequate	1	1.5	100.0	100.0
Missing	System	67	98.5		
	Total	68	100.0		

List of other suggestions (access to info)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		67	98.5	98.5	98.5
	Why Bassi Falls was closed - couldn't find on WEB.19.	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

Other areas visited during stay 1 (max 5)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Stay at current location	29	42.6	42.6	42.6
Ice House Reservoir	7	10.3	10.3	52.9
Union Valley Reservoir	9	13.2	13.2	66.2
Gerle Creek Reservoir	5	7.4	7.4	73.5
Loon Lake Reservoir	6	8.8	8.8	82.4
Wright's Lake	1	1.5	1.5	83.8
Rubicon Jeep Trail/Wentworth Springs Rd.	6	8.8	8.8	92.6
Robbs Resort	2	2.9	2.9	95.6
Bassi Falls	1	1.5	1.5	97.1
Other	1	1.5	1.5	98.5
No response	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Cuff notes for "other":

- Bloodsucker Lake – Hiking (Strawberry Point CG to South Fork Silver Creek).
- Junction Reservoir – Observation (South Shore, near UV intake).
- Junction Reservoir – Swimming (South of Union Valley Dam, above PH on south side).
- Uncle Toms Cabin – no response (Pleasant Lake, south).
- Cleveland Corral – Observation (13N52 2nd area).
- Area off Jaybird Canyon Road – looking for place to camp (undeveloped boat launch at Junction Res.).

Primary Activity

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Bicycling	1	1.5	2.7	2.7
Fishing (Lake or Reservoir)	5	7.4	13.5	16.2
Fishing (Stream or River)	1	1.5	2.7	18.9
Hiking/Walking	2	2.9	5.4	24.3
OHV Use	9	13.2	24.3	48.6
Picnicking	2	2.9	5.4	54.1
Power Boating	1	1.5	2.7	56.8
Swimming	4	5.9	10.8	67.6
Visiting Cultural/Historic Sites	1	1.5	2.7	70.3
Other	10	14.7	27.0	97.3
No response	1	1.5	2.7	100.0
Total	37	54.4	100.0	
Missing System	31	45.6		
Total	68	100.0		

Primary Activity (other)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	58	85.3	85.3	85.3
Camping.3.	1	1.5	1.5	86.8
Camping.35.	1	1.5	1.5	88.2
Camping/Boating.12.	1	1.5	1.5	89.7
Eating.34.	1	1.5	1.5	91.2
Looking for a place to camp by stream.42.	1	1.5	1.5	92.6
Observation.16.	1	1.5	1.5	94.1
Observation.23.	1	1.5	1.5	95.6
Observation.7.	2	2.9	2.9	98.5
Park RV.21.	1	1.5	1.5	100.0
Total	68	100.0	100.0	

Other areas visited during stay 2

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Union Valley Reservoir	4	5.9	14.3	14.3
Gerle Creek Reservoir	3	4.4	10.7	25.0
Loon Lake Reservoir	4	5.9	14.3	39.3
Rubicon Jeep Trail/Wentworth Springs Rd.	6	8.8	21.4	60.7
Gerle Creek below Loon Lake Dam	1	1.5	3.6	64.3
Spider Lake	1	1.5	3.6	67.9
Rubicon hiking trail to Spider Lake	1	1.5	3.6	71.4
Bunker Hill Lookout	1	1.5	3.6	75.0
Wentworth Springs	1	1.5	3.6	78.6
Robbs Resort	1	1.5	3.6	82.1
Ice House Resort	1	1.5	3.6	85.7
Other	4	5.9	14.3	100.0
Total	28	41.2	100.0	
Missing				
System	40	58.8		
Total	68	100.0		

Primary Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Fishing (Lake or Reservoir)	1	1.5	3.6	3.6
	Hiking/Walking	4	5.9	14.3	17.9
	OHV Use	8	11.8	28.6	46.4
	Picnicking	1	1.5	3.6	50.0
	Power Boating	1	1.5	3.6	53.6
	Swimming	5	7.4	17.9	71.4
	Other	8	11.8	28.6	100.0
	Total	28	41.2	100.0	
Missing	System	40	58.8		
Total		68	100.0		

Primary Activity (other)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		60	88.2	88.2	88.2
	Camping.35.	1	1.5	1.5	89.7
	Camping/Boating.12.	1	1.5	1.5	91.2
	Observation.10.	1	1.5	1.5	92.6
	Observation.23.	1	1.5	1.5	94.1
	Observation.7.	1	1.5	1.5	95.6
	Removing Boat.20.	1	1.5	1.5	97.1
	Scouting for future trips.26.	1	1.5	1.5	98.5
	Supplies.15.	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

Other areas visited during stay 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Loon Lake Reservoir	3	4.4	25.0	25.0
	Rubicon Jeep Trail/Wentworth Springs Rd.	3	4.4	25.0	50.0
	Gerle Creek below Loon Lake Dam	1	1.5	8.3	58.3
	Buck Island Reservoir	1	1.5	8.3	66.7
	Robbs Resort	1	1.5	8.3	75.0
	End of 13N77 (near Dear Creek)	1	1.5	8.3	83.3
	Crystal Basin Information Station	1	1.5	8.3	91.7
	Other	1	1.5	8.3	100.0
	Total	12	17.6	100.0	
Missing	System	56	82.4		
Total		68	100.0		

Primary Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	OHV Use	7	10.3	58.3	58.3
	Picnicking	1	1.5	8.3	66.7
	Other	3	4.4	25.0	91.7
	No response	1	1.5	8.3	100.0
	Total	12	17.6	100.0	
Missing	System	56	82.4		
Total		68	100.0		

Primary Activity (other)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		65	95.6	95.6	95.6
	Buy items.21.	1	1.5	1.5	97.1
	Observation.19.	1	1.5	1.5	98.5
	Supplies.19.	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

Other areas visited during stay 4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Rubicon Jeep Trail/Wentworth Springs Rd.	1	1.5	33.3	33.3
	Bunker Hill Lookout	1	1.5	33.3	66.7
	Robbs Resort	1	1.5	33.3	100.0
	Total	3	4.4	100.0	
Missing	System	65	95.6		
Total		68	100.0		

Primary Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Hiking/Walking	1	1.5	33.3	33.3
	OHV Use	1	1.5	33.3	66.7
	Other	1	1.5	33.3	100.0
	Total	3	4.4	100.0	
Missing	System	65	95.6		
Total		68	100.0		

Primary Activity (other)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		67	98.5	98.5	98.5
	Supplies.16.	1	1.5	1.5	100.0
	Total	68	100.0	100.0	

Quality of fishing attract (general area A)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	25	36.8	52.1	52.1
	no	23	33.8	47.9	100.0
	Total	48	70.6	100.0	
Missing	System	20	29.4		
Total		68	100.0		

Coded general area A

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	7	10.3	14.6	14.6
	Union Valley Reservoir	15	22.1	31.3	45.8
	Gerle Creek Reservoir	2	2.9	4.2	50.0
	Loon Lake Reservoir	21	30.9	43.8	93.8
	Gerle Creek below Loon Lake Dam	2	2.9	4.2	97.9
	Other Project Reservoir or stream	1	1.5	2.1	100.0
	Total	48	70.6	100.0	
	Missing System	20	29.4		
Total	68	100.0			

Other Project reservoir, lake or stream:

Junction Reservoir (2 – undeveloped boat launch at Junction Reservoir and other dispersed area near Junction Reservoir).

Quality of fishing attract (general area B)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	5	7.4	71.4	71.4
	no	2	2.9	28.6	100.0
	Total	7	10.3	100.0	
Missing System	61	89.7			
Total	68	100.0			

Coded general area B

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	1	1.5	14.3	14.3
	Gerle Creek Reservoir	1	1.5	14.3	28.6
	Loon Lake Reservoir	3	4.4	42.9	71.4
	Other Project Reservoir or stream	1	1.5	14.3	85.7
	Other non-Project Reservoirs or streams	1	1.5	14.3	100.0
	Total	7	10.3	100.0	
	Missing System	61	89.7		
Total	68	100.0			

Other non-Project reservoir, lake or stream:

Wrights Lake (Strawberry Point CG to South Fork Silver Creek).

Quality of fishing (general area A)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	5	7.4	10.6	10.6
	Fair	6	8.8	12.8	23.4
	Good	13	19.1	27.7	51.1
	Excellent	9	13.2	19.1	70.2
	n/a	13	19.1	27.7	97.9
	No response	1	1.5	2.1	100.0
	Total	47	69.1	100.0	
Missing	System	21	30.9		
Total		68	100.0		

Coded general area A

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	7	10.3	14.9	14.9
	Union Valley Reservoir	14	20.6	29.8	44.7
	Gerle Creek Reservoir	2	2.9	4.3	48.9
	Loon Lake Reservoir	21	30.9	44.7	93.6
	Gerle Creek below Loon Lake Dam	2	2.9	4.3	97.9
	Other Project Reservoir or stream	1	1.5	2.1	100.0
	Total	47	69.1	100.0	
	Missing	System	21	30.9	
Total		68	100.0		

Other Project reservoir or stream:

Junction Reservoir (2 – undeveloped boat launch at Junction Reservoir and other dispersed area near Junction Reservoir).

Quality of fishing (general area B)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Fair	1	1.5	20.0	20.0
	Good	3	4.4	60.0	80.0
	n/a	1	1.5	20.0	100.0
	Total	5	7.4	100.0	
Missing	System	63	92.6		
Total		68	100.0		

Coded general area B

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	1	1.5	20.0	20.0
	Gerle Creek Reservoir	1	1.5	20.0	40.0
	Loon Lake Reservoir	1	1.5	20.0	60.0
	Other Project Reservoir or stream	1	1.5	20.0	80.0
	Other non-Project Reservoirs or streams	1	1.5	20.0	100.0
	Total	5	7.4	100.0	
	Missing System	63	92.6		
Total	68	100.0			

Other non-Project reservoir, lake or stream:

Wrights Lake (Strawberry Point CG to South Fork Silver Creek).

Willing to provide name and address for future studies

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	46	67.6	67.6	67.6
	no	22	32.4	32.4	100.0
Total		68	100.0	100.0	

**Appendix C.3.3 Frequencies – Dispersed Windshield –
Crystal Basin (all locations)**

This compilation presents the results of detailed surveys left on vehicles parked at the wilderness trailhead at Loon Lake Reservoir and on visitor’s vehicles parked at dispersed areas adjacent to Project waters in the Crystal Basin where the visitor was not present. A total of 33 surveys were completed and returned. Appendix C.3.4 contains the results from only the detailed surveys left on vehicles parked at the wilderness trailhead at Loon Lake Reservoir.

The results are contained in frequency and percentage tables. The order of presentation follows the order that the questions are displayed in the survey instrument, contained in Appendix B.

Location of vehicle

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Wilderness trailhead at Loon Lake.1.	25	75.8	75.8	75.8
	South Fork Silver Creek above IHR (day-use).2.	5	15.2	15.2	90.9
	Other dispersed area near UVR.18.	1	3.0	3.0	93.9
	WSR & GC-SE Quarter.19.	1	3.0	3.0	97.0
	Other dispersed area near JR.45.	1	3.0	3.0	100.0
	Total	33	100.0	100.0	

Note: the number following the location description above is the location code number. Other tables in this document show responses verbatim, followed by the location code designating where that survey was administered.

in Group

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1	2	6.1	6.1	6.1
2	12	36.4	36.4	42.4
3	4	12.1	12.1	54.5
4	4	12.1	12.1	66.7
5	4	12.1	12.1	78.8
6	3	9.1	9.1	87.9
7-10	2	6.1	6.1	93.9
11-15	1	3.0	3.0	97.0
16-20	1	3.0	3.0	100.0
Total	33	100.0	100.0	

Yrs Visiting Crystal Basin

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid First visit	5	15.2	15.2	15.2
2	3	9.1	9.1	24.2
3	3	9.1	9.1	33.3
4	1	3.0	3.0	36.4
5	1	3.0	3.0	39.4
8	2	6.1	6.1	45.5
10	2	6.1	6.1	51.5
11-15	4	12.1	12.1	63.6
16-20	5	15.2	15.2	78.8
21-30	4	12.1	12.1	90.9
31-40	2	6.1	6.1	97.0
51 or more	1	3.0	3.0	100.0
Total	33	100.0	100.0	

Gender

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Male	20	60.6	60.6	60.6
Female	13	39.4	39.4	100.0
Total	33	100.0	100.0	

Zip County (final)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	El Dorado County	2	6.1	6.1	6.1
	Sacramento County	13	39.4	39.4	45.5
	Placer County	1	3.0	3.0	48.5
	Yolo County	5	15.2	15.2	63.6
	Bay Area	9	27.3	27.3	90.9
	Northern CA	3	9.1	9.1	100.0
	Total	33	100.0	100.0	

Willing to be contacted for future studies?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	19	57.6	57.6	57.6
	No	12	36.4	36.4	93.9
	No response	2	6.1	6.1	100.0
	Total	33	100.0	100.0	

Is Your Visit

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	the primary destination of your trip	26	78.8	78.8	78.8
	a side trip while camped at another location in the Crystal	4	12.1	12.1	90.9
	a stop on route to another destination	3	9.1	9.1	100.0
	Total	33	100.0	100.0	

Other Destination

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other destination inside Crystal Basin	3	9.1	100.0	100.0
Missing	System	30	90.9		
Total		33	100.0		

Cuff notes on "Other" destination inside Crystal Basin:

- Rubicon Reservoir (Rubicon TH at LL).
- Desolation Wilderness (Rubicon TH at LL).
- Campers Flat / Lake Schmidell (Rubicon TH at LL).

Day or Overnight

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Day Trip	5	15.2	15.2	15.2
Staying Overnight	28	84.8	84.8	100.0
Total	33	100.0	100.0	

Hours of Day Trip

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 4 to 6 hours	4	12.1	80.0	80.0
7 to 9 hours	1	3.0	20.0	100.0
Total	5	15.2	100.0	
Missing System	28	84.8		
Total	33	100.0		

of Nights

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2 nights	14	42.4	50.0	50.0
3 nights	6	18.2	21.4	71.4
4 nights	2	6.1	7.1	78.6
5 nights	1	3.0	3.6	82.1
6 nights	1	3.0	3.6	85.7
7 nights	1	3.0	3.6	89.3
8 to 14 nights	1	3.0	3.6	92.9
No response	2	6.1	7.1	100.0
Total	28	84.8	100.0	
Missing System	5	15.2		
Total	33	100.0		

Type of Camping

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Campground	6	18.2	21.4	21.4
Undeveloped Campsite	21	63.6	75.0	96.4
Resort, Private Cabin or Residence	1	3.0	3.6	100.0
Total	28	84.8	100.0	
Missing System	5	15.2		
Total	33	100.0		

Name of Campground

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground at Ice House Reservoir	2	6.1	33.3	33.3
	Campground at Union Valley Reservoir	1	3.0	16.7	50.0
	Campground at Loon Lake Reservoir	1	3.0	16.7	66.7
	Other	2	6.1	33.3	100.0
	Total	6	18.2	100.0	
Missing	System	27	81.8		
Total		33	100.0		

Cuff notes for “Other” camping in campground in CB:

Stumpy Meadows (Rubicon TH at LL).

LLCG one night, Pleasant CG one night and Rockbound one night (Rubicon TH at LL).

Undeveloped Campsite

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Site within .25 mile of Union Valley Reservoir	1	3.0	4.8	4.8
	Site within .25 mile of Gerle Creek Reservoir	1	3.0	4.8	9.5
	Spider Lake Area	4	12.1	19.0	28.6
	Buck Island Reservoir	2	6.1	9.5	38.1
	Rock-Bound Lake	2	6.1	9.5	47.6
	Rubicon Reservoir	4	12.1	19.0	66.7
	Desolation Wilderness	3	9.1	14.3	81.0
	Other dispersed area	2	6.1	9.5	90.5
	No Response	2	6.1	9.5	100.0
	Total	21	63.6	100.0	
Missing	System	12	36.4		
Total		33	100.0		

Cuff notes for “Other” camping in undeveloped campsite:

Buck Island one night and Airport Flat CG one night (Rubicon TH at LL).

Spider Lake, Buck Island Reservoir, Rockbound Lake, Rubicon Reservoir and Shadow Lake – multiple nights (Rubicon TH at LL).

Resort

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No response	1	3.0	100.0	100.0
Missing	System	32	97.0		
Total		33	100.0		

Did you intend to stay here

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Intended to stay here	22	66.7	100.0	100.0
Missing	System	11	33.3		
Total		33	100.0		

Backpacking

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	20	60.6	100.0	100.0
Missing	System	13	39.4		
Total		33	100.0		

Bicycling

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	2	6.1	100.0	100.0
Missing	System	31	93.9		
Total		33	100.0		

Canoeing/Kayaking

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	3	9.1	100.0	100.0
Missing	System	30	90.9		
Total		33	100.0		

Fishing (Lake or Reservoir)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	14	42.4	100.0	100.0
Missing	System	19	57.6		
Total		33	100.0		

Fishing (Stream or River)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	11	33.3	100.0	100.0
Missing	System	22	66.7		
Total		33	100.0		

Hiking/Walking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	30	90.9	100.0	100.0
Missing System	3	9.1		
Total	33	100.0		

Hunting

	Frequency	Percent
Missing System	33	100.0

OHV Use

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	1	3.0	100.0	100.0
Missing System	32	97.0		
Total	33	100.0		

Picnicking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	6	18.2	100.0	100.0
Missing System	27	81.8		
Total	33	100.0		

Photography

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	14	42.4	100.0	100.0
Missing System	19	57.6		
Total	33	100.0		

Power Boating

	Frequency	Percent
Missing System	33	100.0

PWC Use

	Frequency	Percent
Missing System	33	100.0

Sail Boating

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	1	3.0	100.0	100.0
Missing System	32	97.0		
Total	33	100.0		

Swimming

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	26	78.8	100.0	100.0
Missing System	7	21.2		
Total	33	100.0		

Visiting Cultural/Historic Sites

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	1	3.0	100.0	100.0
Missing System	32	97.0		
Total	33	100.0		

Wildlife Viewing

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	12	36.4	100.0	100.0
Missing System	21	63.6		
Total	33	100.0		

Other

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	29	87.9	87.9	87.9
Kite Flying!	1	3.0	3.0	90.9
Peace & Rejuvenation	1	3.0	3.0	93.9
Rockclimbing	1	3.0	3.0	97.0
Sitting & enjoying the quiet and nature.	1	3.0	3.0	100.0
Total	33	100.0	100.0	

Most Important Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	16	48.5	48.5	48.5
	Fishing (Stream or River)	3	9.1	9.1	57.6
	Hiking/Walking	11	33.3	33.3	90.9
	Wildlife Viewing	1	3.0	3.0	93.9
	No response	2	6.1	6.1	100.0
	Total	33	100.0	100.0	

2nd Most Important Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	3.0	3.0	3.0
	Bicycling	1	3.0	3.0	6.1
	Fishing (Lake or Reservoir)	4	12.1	12.1	18.2
	Fishing (Stream or River)	1	3.0	3.0	21.2
	Hiking/Walking	6	18.2	18.2	39.4
	Picnicking	1	3.0	3.0	42.4
	Photography	2	6.1	6.1	48.5
	Swimming	11	33.3	33.3	81.8
	Wildlife Viewing	2	6.1	6.1	87.9
	No response	4	12.1	12.1	100.0
	Total	33	100.0	100.0	

3rd Most Important Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Fishing (Lake or Reservoir)	6	18.2	18.2	18.2
	Fishing (Stream or River)	2	6.1	6.1	24.2
	Hiking/Walking	3	9.1	9.1	33.3
	Picnicking	1	3.0	3.0	36.4
	Photography	3	9.1	9.1	45.5
	Swimming	6	18.2	18.2	63.6
	Visiting Cultural/Historic Sites	1	3.0	3.0	66.7
	Wildlife Viewing	3	9.1	9.1	75.8
	No response	8	24.2	24.2	100.0
	Total	33	100.0	100.0	

Did you select fishing as an activity?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	15	45.5	45.5	45.5
No	17	51.5	51.5	97.0
No response	1	3.0	3.0	100.0
Total	33	100.0	100.0	

Coded general area A

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Ice House Reservoir	1	3.0	6.7	6.7
Union Valley Reservoir	1	3.0	6.7	13.3
Gerle Creek below Loon Lake Dam	1	3.0	6.7	20.0
Other Project Reservoir or stream	2	6.1	13.3	33.3
Other non-Project Reservoirs or streams	2	6.1	13.3	46.7
Rock-Bound Lake	3	9.1	20.0	66.7
Rubicon Reservoir	3	9.1	20.0	86.7
Spider Lake	2	6.1	13.3	100.0
Total	15	45.5	100.0	
Missing System	18	54.5		
Total	33	100.0		

Cuff notes for “Other” project stream:

Silver Creek below UVPH (Other dispersed area near JR).

Rubicon River (Rubicon TH at LL).

Cuff notes for “Other” non-project stream:

(2) South Fork Silver Creek into IHR (SFSC above IHR).

Tells Creek into UVR (Wentworth Springs Road and Gerle Creek – SW quarter).

Lake Schmidell (Rubicon TH at LL).

Quality of fishing (general area A)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Poor	4	12.1	26.7	26.7
Fair	5	15.2	33.3	60.0
Good	5	15.2	33.3	93.3
Excellent	1	3.0	6.7	100.0
Total	15	45.5	100.0	
Missing System	18	54.5		
Total	33	100.0		

Coded general area B

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	1	3.0	14.3	14.3
	Loon Lake Reservoir	1	3.0	14.3	28.6
	Gerle Creek below Loon Lake Dam	1	3.0	14.3	42.9
	Other non-Project Reservoirs or streams	2	6.1	28.6	71.4
	Rubicon Reservoir	1	3.0	14.3	85.7
	Spider Lake	1	3.0	14.3	100.0
	Total	7	21.2	100.0	
	Missing System	26	78.8		
Total	33	100.0			

Quality of fishing (general area B)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	1	3.0	14.3	14.3
	Fair	2	6.1	28.6	42.9
	Good	4	12.1	57.1	100.0
	Total	7	21.2	100.0	
Missing System	26	78.8			
Total	33	100.0			

Coded general area C

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	1	3.0	33.3	33.3
	Other non-Project Reservoirs or streams	1	3.0	33.3	66.7
	Rock-Bound Lake	1	3.0	33.3	100.0
	Total	3	9.1	100.0	
Missing System	30	90.9			
Total	33	100.0			

Quality of fishing (general area C)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	1	3.0	33.3	33.3
	Fair	1	3.0	33.3	66.7
	Good	1	3.0	33.3	100.0
	Total	3	9.1	100.0	
Missing System	30	90.9			
Total	33	100.0			

Changes to Motorized Trails

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	6	18.2	18.2	18.2
No	14	42.4	42.4	60.6
No Opinion	13	39.4	39.4	100.0
Total	33	100.0	100.0	

Coded List of What Changes to Motorized 1 (max 3)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Reduce or eliminate motorized trail system	5	15.2	83.3	83.3
Strengthen regulations or enforcement over OHV use	1	3.0	16.7	100.0
Total	6	18.2	100.0	
Missing System	27	81.8		
Total	33	100.0		

Changes to Non-Motorized Trails

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	15	45.5	45.5	45.5
No	12	36.4	36.4	81.8
No Opinion	6	18.2	18.2	100.0
Total	33	100.0	100.0	

Coded List of What Changes to Non-Motorized 1 (max 3)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Better trail/trailhead marking	4	12.1	26.7	26.7
More bike trails	1	3.0	6.7	33.3
More trails	1	3.0	6.7	40.0
Increase trail maintenance (large rocks)	7	21.2	46.7	86.7
Other	2	6.1	13.3	100.0
Total	15	45.5	100.0	
Missing System	18	54.5		
Total	33	100.0		

Cuff notes on "Other":

Better regulation/enforcement of backcountry etiquette – loud music at night, campfires – around Spider Lake (SFSC above IHR).

Take your garbage when you leave (Other dispersed area near UVR – Jones Wreckum Road near site 3).

Coded List of What Changes to Non-Motorized 2

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid More trails	1	3.0	100.0	100.0
Missing System	32	97.0		
Total	33	100.0		

Are improvements needed to make access to shorelines easier, safer OR more enjoyable?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid At least one yes in 12a,b,c	7	21.2	21.2	21.2
No	19	57.6	57.6	78.8
No Opinion	7	21.2	21.2	100.0
Total	33	100.0	100.0	

Coded list of changes to shorelines 1 (max 4)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid More campgrounds or campsites closer to shoreline	1	3.0	14.3	14.3
Other	6	18.2	85.7	100.0
Total	7	21.2	100.0	
Missing System	26	78.8		
Total	33	100.0		

Cuff notes on “Other”:

- Easier – bike trails to lake and around (Rubicon TH at LL).
- Easier – points of interest to LL shoreline – off Rubicon trail (Rubicon TH at LL).
- Easier – access to both sides of the river (Other dispersed area near UVR – Jones Wreckum Road near site 3).
- Safer and more enjoyable– take jet skis and water skiers off lake – Strawberry Point (Rubicon TH at LL).
- More enjoyable – more clearly marked access trail – Buck Island (Rubicon TH at LL).
- More enjoyable – more aerial fish planting – all lakes in Desolation (Rubicon TH at LL).

Coded list of changes to shorelines 2

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Other	1	3.0	100.0	100.0
Missing System	32	97.0		
Total	33	100.0		

Are improvements needed to make access to streams easier, safer OR more enjoyable?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	At least one yes in 12a,b,c	4	12.1	12.1	12.1
	No	20	60.6	60.6	72.7
	No Opinion	9	27.3	27.3	100.0
	Total	33	100.0	100.0	

Coded list of changes to rivers or streams 1 (max 4)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	4	12.1	100.0	100.0
Missing	System	29	87.9		
	Total	33	100.0		

Cuff notes on "Other":

- Easier – trails to inlets – all lakes (Rubicon TH at LL).
- Safer – keep the bears on a leash – Loon Lake (Rubicon TH at LL).
- Safer – improve stream crossing near Campers Flat; move a few boulders? (Rubicon TH at LL).
- More enjoyable – less motorized access (Wentworth Springs Road and Gerle Creek – SE quarter).

Did flow in streams allow participation

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	19	57.6	57.6	57.6
	No	6	18.2	18.2	75.8
	No Opinion	7	21.2	21.2	97.0
	No response	1	3.0	3.0	100.0
	Total	33	100.0	100.0	

If no, degree stream flow negatively affected the quality of experience

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Minimal	2	6.1	33.3	33.3
	Moderate	2	6.1	33.3	66.7
	Significant	2	6.1	33.3	100.0
	Total	6	18.2	100.0	
Missing	System	27	81.8		
	Total	33	100.0		

How did it affect the quality of your experience

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	27	81.8	81.8	81.8
Fishing wasn't as good as when the water was higher.19.	1	3.0	3.0	84.8
Low flow leads to deterioration of trout habitat.2.	1	3.0	3.0	87.9
No Response.1.	1	3.0	3.0	90.9
Not enough water.2.	1	3.0	3.0	93.9
There was no flow in the streams in Desolation.1.	1	3.0	3.0	97.0
We didn't get to slide down the rocks.2.	1	3.0	3.0	100.0
Total	33	100.0	100.0	

Are there activities you are unable to participate in?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	6	18.2	18.2	18.2
No	22	66.7	66.7	84.8
Don't Know	5	15.2	15.2	100.0
Total	33	100.0	100.0	

Coded list of activities

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Boating - don't have boat or no place to rent	1	3.0	16.7	16.7
Other land based	2	6.1	33.3	50.0
Other	3	9.1	50.0	100.0
Total	6	18.2	100.0	
Missing System	27	81.8		
Total	33	100.0		

Cuff notes on "Other":

Curling – why not?! (Rubicon TH at LL).

Would like to catch red-legged and yellow-legged frogs and eat them – removing excuse for limiting use of the wilderness (Rubicon TH at LL).

Ranger programs at Loon Lake – history of area (Rubicon TH at LL).

Cuff notes on "Other Land Based":

More mountain bike trails – trails currently not used by OHVs not very accessible (Rubicon TH at LL).

4-wheeling, don't have a 4x4, rent them out cheaply (Wentworth Springs Road and Gerle Creek – SW quarter).

Mountain/Forested area

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Somewhat important	1	3.0	3.0	3.0
	Moderately important	4	12.1	12.1	15.2
	Extremely important	28	84.8	84.8	100.0
	Total	33	100.0	100.0	

Natural Lakes & Ponds

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Somewhat important	2	6.1	6.1	6.1
	Moderately important	3	9.1	9.1	15.2
	Extremely important	28	84.8	84.8	100.0
	Total	33	100.0	100.0	

Reservoirs

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	3	9.1	9.1	9.1
	Somewhat important	6	18.2	18.2	27.3
	Moderately important	6	18.2	18.2	45.5
	Extremely important	17	51.5	51.5	97.0
	No response	1	3.0	3.0	100.0
	Total	33	100.0	100.0	

Rivers/Streams

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	1	3.0	3.0	3.0
	Somewhat important	2	6.1	6.1	9.1
	Moderately important	7	21.2	21.2	30.3
	Extremely important	23	69.7	69.7	100.0
	Total	33	100.0	100.0	

Boat Launch Ramps

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	22	66.7	66.7	66.7
	Somewhat important	4	12.1	12.1	78.8
	Moderately important	2	6.1	6.1	84.8
	Extremely important	1	3.0	3.0	87.9
	No response	4	12.1	12.1	100.0
	Total	33	100.0	100.0	

Developed Campgrounds

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	12	36.4	36.4	36.4
	Somewhat important	7	21.2	21.2	57.6
	Moderately important	5	15.2	15.2	72.7
	Extremely important	6	18.2	18.2	90.9
	No response	3	9.1	9.1	100.0
	Total	33	100.0	100.0	

Developed Swimming/Beach Areas

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	13	39.4	39.4	39.4
	Somewhat important	10	30.3	30.3	69.7
	Moderately important	4	12.1	12.1	81.8
	Extremely important	3	9.1	9.1	90.9
	No response	3	9.1	9.1	100.0
	Total	33	100.0	100.0	

Non-motorized Trails

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	4	12.1	12.1	12.1
	Moderately important	7	21.2	21.2	33.3
	Extremely important	21	63.6	63.6	97.0
	No response	1	3.0	3.0	100.0
	Total	33	100.0	100.0	

OHV Trails

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	25	75.8	75.8	75.8
	Somewhat important	2	6.1	6.1	81.8
	Moderately important	3	9.1	9.1	90.9
	No response	3	9.1	9.1	100.0
	Total	33	100.0	100.0	

Picnic Facilities

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	16	48.5	48.5	48.5
	Somewhat important	9	27.3	27.3	75.8
	Moderately important	5	15.2	15.2	90.9
	Extremely important	1	3.0	3.0	93.9
	No response	2	6.1	6.1	100.0
	Total	33	100.0	100.0	

Two-Laned Paved Road Access

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	9	27.3	27.3	27.3
	Somewhat important	8	24.2	24.2	51.5
	Moderately important	10	30.3	30.3	81.8
	Extremely important	6	18.2	18.2	100.0
	Total	33	100.0	100.0	

How likely or unlikely to come to CB

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very unlikely	3	9.1	9.1	9.1
	Unlikely	4	12.1	12.1	21.2
	Likely	6	18.2	18.2	39.4
	Very likely	15	45.5	45.5	84.8
	Don't know	5	15.2	15.2	100.0
	Total	33	100.0	100.0	

Recreation activities that conflicted with you

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	11	33.3	33.3	33.3
	No	20	60.6	60.6	93.9
	No Opinion	2	6.1	6.1	100.0
	Total	33	100.0	100.0	

What recreation activities conflicted with you 1 (max 2)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Motor boating related	1	3.0	9.1	9.1
	OHV - too loud, disruption of peace	8	24.2	72.7	81.8
	Gunshots or fireworks - noisy, dangerous, made nervous	2	6.1	18.2	100.0
	Total	11	33.3	100.0	
Missing	System	22	66.7		
Total		33	100.0		

Drill down of "motor boating"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	noisy	1	3.0	100.0	100.0
Missing	System	32	97.0		
Total		33	100.0		

What recreation activities conflicted with you 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	2	6.1	100.0	100.0
Missing	System	31	93.9		
Total		33	100.0		

Cuff notes for "Other":

Noise from planes and helicopters (Rubicon TH at LL).

Swimming – made fishing poor (Wentworth Springs Road and Gerle Creek – SE quarter).

Non-recreation activities that conflicted with you

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	2	6.1	6.1	6.1
	No	28	84.8	84.8	90.9
	No Opinion	3	9.1	9.1	100.0
	Total	33	100.0	100.0	

List of non-recreation activities that conflicted with you

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	31	93.9	93.9	93.9
Numerous helicopter over-flights detracted from wilderness experience.1.	1	3.0	3.0	97.0
Timber harvest - sad landscape-unappealing. 2.	1	3.0	3.0	100.0
Total	33	100.0	100.0	

Recreation activities causing harm to environment

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	18	54.5	54.5	54.5
No	12	36.4	36.4	90.9
No Opinion	3	9.1	9.1	100.0
Total	33	100.0	100.0	

What recreation activities 1 (max 2)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid OHVs - degrades forest, erosion, air pollution	8	24.2	44.4	44.4
Personal water craft - water and air pollution	1	3.0	5.6	50.0
Power boats - water and air pollution	2	6.1	11.1	61.1
Visitors leaving trash behind	2	6.1	11.1	72.2
Campfires too big or left burning-forest fire hazard	1	3.0	5.6	77.8
Cutting or chopping trees	1	3.0	5.6	83.3
Other	3	9.1	16.7	100.0
Total	18	54.5	100.0	
Missing System	15	45.5		
Total	33	100.0		

Cuff notes for "Other":

Campers with horses – grazing severely injured riparian habitat (SFSC above IHR).

Campers with four horses in Desolation Wilderness – manure and soil disruption (Rubicon TH at LL).

Is hunting legal – heard rifle shots at Buck Island Reservoir (Rubicon TH at LL).

What recreation activities 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	OHVs - degrades forest, erosion, air pollution	1	3.0	25.0	25.0
	Power boats - water and air pollution	2	6.1	50.0	75.0
	Gun shooting - dangerous	1	3.0	25.0	100.0
	Total	4	12.1	100.0	
Missing	System	29	87.9		
Total		33	100.0		

Non-recreation activities causing harm to environment

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	5	15.2	15.2	15.2
	No	22	66.7	66.7	81.8
	No Opinion	4	12.1	12.1	93.9
	No response	2	6.1	6.1	100.0
	Total	33	100.0	100.0	

List of non-recreation activities causing harm to environment

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		28	84.8	84.8	84.8
	Logging - habitat fragmentation & destruction, erosion.2.	1	3.0	3.0	87.9
	Logging - Visual degradation, presumed increased erosion & silting of streams.1.	1	3.0	3.0	90.9
	Reservoirs - may impact fish & local wildlife.1.	1	3.0	3.0	93.9
	Timber harvest.1.	1	3.0	3.0	97.0
	Timber harvesting.1.	1	3.0	3.0	100.0
	Total	33	100.0	100.0	

Info on campsite availability

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	26	78.8	78.8	78.8
	inadequate	2	6.1	6.1	84.8
	never looked for it	5	15.2	15.2	100.0
	Total	33	100.0	100.0	

Suggestions (campsite availability)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	1	3.0	50.0	50.0
	Other	1	3.0	50.0	100.0
	Total	2	6.1	100.0	
Missing	System	31	93.9		
Total		33	100.0		

Cuff notes for "Other":

Reservations should be allowed (Rubicon TH at LL).

Info on campfire restrictions

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	29	87.9	87.9	87.9
	never looked for it	4	12.1	12.1	100.0
	Total	33	100.0	100.0	

Info on reservoir levels

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	15	45.5	45.5	45.5
	inadequate	1	3.0	3.0	48.5
	never looked for it	17	51.5	51.5	100.0
	Total	33	100.0	100.0	

Suggestions (reservoir levels)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No response	1	3.0	100.0	100.0
Missing	System	32	97.0		
Total		33	100.0		

Info on wilderness permits

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	26	78.8	78.8	78.8
	inadequate	4	12.1	12.1	90.9
	never looked for it	2	6.1	6.1	97.0
	No response	1	3.0	3.0	100.0
	Total	33	100.0	100.0	

Suggestions (wilderness permits)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	3	9.1	60.0	60.0
	No response	2	6.1	40.0	100.0
	Total	5	15.2	100.0	
Missing	System	28	84.8		
Total		33	100.0		

Cuff notes for "Other":

None available at trailhead (Rubicon TH at LL).

No day permits in box (Rubicon TH at LL).

At Camino office I asked for Desolation Wilderness permit and was given Spider Lake.

Two awful nights there! (SFSC above IHR).

Info on trail locations

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	29	87.9	87.9	87.9
	inadequate	4	12.1	12.1	100.0
Total		33	100.0	100.0	

Suggestions (trail locations)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Provide more trail signs	1	3.0	25.0	25.0
	No response	3	9.1	75.0	100.0
	Total	4	12.1	100.0	
Missing	System	29	87.9		
Total		33	100.0		

Info on stream flow rate &/or depths

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	8	24.2	24.2	24.2
	inadequate	4	12.1	12.1	36.4
	never looked for it	21	63.6	63.6	100.0
Total		33	100.0	100.0	

Suggestions (stream flow rate)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	1	3.0	25.0	25.0
	Other	1	3.0	25.0	50.0
	No response	2	6.1	50.0	100.0
	Total	4	12.1	100.0	
Missing	System	29	87.9		
Total		33	100.0		

Cuff notes for "Other":

Let more water through to Wrights Lake so it can get more water in creek (SFSC above IHR).

Info on environmental or educational displays

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	11	33.3	33.3	33.3
	inadequate	2	6.1	6.1	39.4
	never looked for it	20	60.6	60.6	100.0
	Total	33	100.0	100.0	

Suggestions (displays)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No response	2	6.1	100.0	100.0
Missing	System	31	93.9		
Total		33	100.0		

Info on fish stocking

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	2	6.1	6.1	6.1
	inadequate	8	24.2	24.2	30.3
	never looked for it	23	69.7	69.7	100.0
	Total	33	100.0	100.0	

Suggestions (fish stocking)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	2	6.1	25.0	25.0
	Post at facilities	1	3.0	12.5	37.5
	Post on map or brochure	1	3.0	12.5	50.0
	Other	1	3.0	12.5	62.5
	No response	3	9.1	37.5	100.0
	Total	8	24.2	100.0	
Missing	System	25	75.8		
Total		33	100.0		

Cuff notes for "Other":

No fish in lakes (Rubicon TH at LL).

Info on other

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	inadequate	3	9.1	100.0	100.0
Missing	System	30	90.9		
Total		33	100.0		

List of other suggestions (access to info)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		30	90.9	90.9	90.9
	History of the area.	1	3.0	3.0	93.9
	More "Please don't litter signs by Rubicon Res.	1	3.0	3.0	97.0
	Were unprepared for noise of OHV'ers at Pleasant Campground.	1	3.0	3.0	100.0
	Total	33	100.0	100.0	

Cuff notes for "Other":

More "Please don't litter" signs by Rubicon Reservoir (Rubicon TH at LL).

Other areas visited during stay 1 (max 5)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Stay at current location	1	3.0	3.0	3.0
Ice House Reservoir	4	12.1	12.1	15.2
Union Valley Reservoir	1	3.0	3.0	18.2
Loon Lake Reservoir	4	12.1	12.1	30.3
Gerle Creek below Loon Lake Dam	1	3.0	3.0	33.3
Other non-Project streams	2	6.1	6.1	39.4
Spider Lake	2	6.1	6.1	45.5
Buck Island Reservoir	3	9.1	9.1	54.5
Rubicon Reservoir	4	12.1	12.1	66.7
Rubicon Hiking Trail	5	15.2	15.2	81.8
Rockbound Lake	4	12.1	12.1	93.9
Other	1	3.0	3.0	97.0
No response	1	3.0	3.0	100.0
Total	33	100.0	100.0	

Cuff notes for “Other non-Project streams”:

- Tells Creek – Fishing (Wentworth Springs Road and Gerle Creek – SW quarter).
- Big Silver Creek – Fishing (Wentworth Springs Road and Gerle Creek – SE quarter).
- South Fork Silver Creek below Wrights Lake – Fishing (SFSC above IHR).
- Upper Rubicon River near Campers Flat (Rubicon TH at LL).
- Lake Schmidell (Rubicon TH at LL).

Cuff notes for “Other”:

- Hiking to Middle Mountain – Hiking (Rubicon TH to LL).
- Lake Winifred – Backpacking (Rubicon TH to LL).

Primary Activity

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Backpacking	14	42.4	42.4	42.4
Bicycling	1	3.0	3.0	45.5
Fishing (Lake or Reservoir)	1	3.0	3.0	48.5
Fishing (Stream or River)	2	6.1	6.1	54.5
Hiking/Walking	9	27.3	27.3	81.8
Swimming	1	3.0	3.0	84.8
Visiting Cultural/Historic Sites	1	3.0	3.0	87.9
Other	1	3.0	3.0	90.9
No response	3	9.1	9.1	100.0
Total	33	100.0	100.0	

Primary Activity (other)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	32	97.0	97.0	97.0
Camping	1	3.0	3.0	100.0
Total	33	100.0	100.0	

Other areas visited during stay 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	2	6.1	11.8	11.8
	Union Valley Reservoir	1	3.0	5.9	17.6
	Gerle Creek Reservoir	1	3.0	5.9	23.5
	Loon Lake Reservoir	2	6.1	11.8	35.3
	Other non-Project streams	1	3.0	5.9	41.2
	Spider Lake	1	3.0	5.9	47.1
	Shadow Lake	1	3.0	5.9	52.9
	Buck Island Reservoir	1	3.0	5.9	58.8
	Rubicon Reservoir	1	3.0	5.9	64.7
	Rubicon Hiking Trail	2	6.1	11.8	76.5
	Rockbound Lake	3	9.1	17.6	94.1
	Other	1	3.0	5.9	100.0
	Total	17	51.5	100.0	
Missing	System	16	48.5		
Total		33	100.0		

Primary Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	7	21.2	41.2	41.2
	Canoeing/Kayaking	1	3.0	5.9	47.1
	Fishing (Lake or Reservoir)	2	6.1	11.8	58.8
	Hiking/Walking	2	6.1	11.8	70.6
	Swimming	3	9.1	17.6	88.2
	No response	2	6.1	11.8	100.0
	Total	17	51.5	100.0	
Missing	System	16	48.5		
Total		33	100.0		

Other areas visited during stay 3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Gerle Creek below Loon Lake Dam	1	3.0	12.5	12.5
	Other non-Project streams	2	6.1	25.0	37.5
	Buck Island Reservoir	2	6.1	25.0	62.5
	Rubicon River	1	3.0	12.5	75.0
	Rubicon Hiking Trail	2	6.1	25.0	100.0
	Total	8	24.2	100.0	
Missing	System	25	75.8		
Total		33	100.0		

Primary Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	3	9.1	37.5	37.5
	Fishing (Stream or River)	2	6.1	25.0	62.5
	Hiking/Walking	1	3.0	12.5	75.0
	OHV Use	1	3.0	12.5	87.5
	No response	1	3.0	12.5	100.0
	Total	8	24.2	100.0	
Missing	System	25	75.8		
Total		33	100.0		

Other areas visited during stay 4

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Gerle Creek Reservoir	1	3.0	33.3	33.3
	Rubicon Hiking Trail	1	3.0	33.3	66.7
	Rockbound Lake	1	3.0	33.3	100.0
	Total	3	9.1	100.0	
Missing	System	30	90.9		
Total		33	100.0		

Primary Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	3.0	33.3	33.3
	Fishing (Lake or Reservoir)	1	3.0	33.3	66.7
	No response	1	3.0	33.3	100.0
	Total	3	9.1	100.0	
Missing	System	30	90.9		
Total		33	100.0		

Other areas visited during stay 5

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	1	3.0	50.0	50.0
	Rubicon Reservoir	1	3.0	50.0	100.0
	Total	2	6.1	100.0	
Missing	System	31	93.9		
Total		33	100.0		

Primary Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	3.0	50.0	50.0
	Fishing (Lake or Reservoir)	1	3.0	50.0	100.0
	Total	2	6.1	100.0	
Missing	System	31	93.9		
Total		33	100.0		

List of places for similar recreational experiences

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2	6.1	6.1	6.1
Any Sierra Wilderness	1	3.0	3.0	9.1
Bowman Lake Area	1	3.0	3.0	12.1
Carson Pass Area	1	3.0	3.0	15.2
Desolation Wilderness	3	9.1	9.1	24.2
Emigrant Wilderness	1	3.0	3.0	27.3
Granite Bay at Folsom Lake	1	3.0	3.0	30.3
Hell Hole	1	3.0	3.0	33.3
Henry Co.	1	3.0	3.0	36.4
Here Only	2	6.1	6.1	42.4
High Desert Hwy. 395	1	3.0	3.0	45.5
Horsetail Falls	1	3.0	3.0	48.5
Kennedy Meadows	1	3.0	3.0	51.5
Lake Tahoe	3	9.1	9.1	60.6
Little Truckee River	1	3.0	3.0	63.6
Multiple Wilderness Areas Throughout the State	1	3.0	3.0	66.7
Point Reyes Coast Line	1	3.0	3.0	69.7
Pollock Pines	1	3.0	3.0	72.7
Scottsdale, Arizona	1	3.0	3.0	75.8
Sierra Buttes	1	3.0	3.0	78.8
Silver Lake	1	3.0	3.0	81.8
Sly Park	1	3.0	3.0	84.8
Sykes Hot Springs	1	3.0	3.0	87.9
Throughout The Sierras	1	3.0	3.0	90.9
Trinity Alps	1	3.0	3.0	93.9
Yosemite	2	6.1	6.1	100.0
Total	33	100.0	100.0	

List of second place for similar recreational experiences

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	14	42.4	42.4	42.4
Caples Lake	1	3.0	3.0	45.5
Donner Pass Area	1	3.0	3.0	48.5
Eastern Sierras	1	3.0	3.0	51.5
Golden Gate N.R.A.	1	3.0	3.0	54.5
Half Moon Bay	1	3.0	3.0	57.6
Highway 88	1	3.0	3.0	60.6
Lake Maud	1	3.0	3.0	63.6
Lake Tahoe	2	6.1	6.1	69.7
Mammoth Lakes Area	1	3.0	3.0	72.7
Middle Fork of the American River	1	3.0	3.0	75.8
Point Reyes	1	3.0	3.0	78.8
Prosser Creek	1	3.0	3.0	81.8
Rollins Lake	1	3.0	3.0	84.8
Trinity Alps	1	3.0	3.0	87.9
Wrights Lake	1	3.0	3.0	90.9
Yosemite	3	9.1	9.1	100.0
Total	33	100.0	100.0	

**Appendix C.3.4 Frequencies – Dispersed Windshield –
Crystal Basin (trailhead only)**

This compilation presents the results of detailed surveys left on vehicles parked at the wilderness trailhead at Loon Lake Reservoir. A total of 25 surveys were completed and returned. Appendix C.3.3 contains both the results from detailed surveys left on vehicles parked at the wilderness trailhead at Loon Lake Reservoir and left on vehicles parked at the wilderness trailhead at Loon Lake Reservoir.

The results are contained in frequency and percentage tables. The order of presentation follows the order that the questions are displayed in the survey instrument, contained in Appendix B.

Location of vehicle					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Wilderness trailhead at Loon Lake.1.	25	100.0	100.0	100.0

Month of Interview					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	July	13	52.0	52.0	52.0
	August	12	48.0	48.0	100.0
	Total	25	100.0	100.0	

Is Your Visit					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	the primary destination of your trip	21	84.0	84.0	84.0
	a side trip while camped at another location in the Crystal	1	4.0	4.0	88.0
	a stop on route to another destination	3	12.0	12.0	100.0
	Total	25	100.0	100.0	

Other Destination					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other destination inside Crystal Basin	3	12.0	100.0	100.0
Missing	System	22	88.0		
Total		25	100.0		

Day or Overnight					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Day Trip	4	16.0	16.0	16.0
	Staying Overnight	21	84.0	84.0	100.0
	Total	25	100.0	100.0	

Hours of Day Trip					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	4 to 6 hours	3	12.0	75.0	75.0
	7 to 9 hours	1	4.0	25.0	100.0
	Total	4	16.0	100.0	
Missing	System	21	84.0		
Total		25	100.0		

# of Nights					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2 nights	10	40.0	47.6	47.6
	3 nights	4	16.0	19.0	66.7
	4 nights	2	8.0	9.5	76.2
	5 nights	1	4.0	4.8	81.0
	6 nights	1	4.0	4.8	85.7
	7 nights	1	4.0	4.8	90.5
	8 to 14 nights	1	4.0	4.8	95.2
	No response	1	4.0	4.8	100.0
	Total	21	84.0	100.0	
Missing	System	4	16.0		
Total		25	100.0		

Type of Camping					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground	3	12.0	14.3	14.3
	Undeveloped Campsite	17	68.0	81.0	95.2
	Resort, Private Cabin or Residence	1	4.0	4.8	100.0
	Total	21	84.0	100.0	
Missing	System	4	16.0		
Total		25	100.0		

Name of Campground					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground at Union Valley Reservoir	1	4.0	33.3	33.3
	Other	2	8.0	66.7	100.0
	Total	3	12.0	100.0	
Missing	System	22	88.0		
Total		25	100.0		

Undeveloped Campsite					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Spider Lake Area	3	12.0	17.6	17.6
	Buck Island Reservoir	2	8.0	11.8	29.4
	Rock-Bound Lake	2	8.0	11.8	41.2
	Rubicon Reservoir	4	16.0	23.5	64.7
	Desolation Wilderness	3	12.0	17.6	82.4
	Other dispersed area	2	8.0	11.8	94.1
	No Response	1	4.0	5.9	100.0
	Total	17	68.0	100.0	
Missing	System	8	32.0		
Total		25	100.0		

Resort					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No response	1	4.0	100.0	100.0
Missing	System	24	96.0		
Total		25	100.0		

Did you intend to stay here					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Intended to stay here	18	72.0	100.0	100.0
Missing	System	7	28.0		
Total		25	100.0		

Backpacking

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	18	72.0	100.0	100.0
Missing	System	7	28.0		
Total		25	100.0		

Bicycling					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	1	4.0	100.0	100.0
Missing	System	24	96.0		
Total		25	100.0		

Canoeing/Kayaking					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	1	4.0	100.0	100.0
Missing	System	24	96.0		
Total		25	100.0		

Fishing (Lake or Reservoir)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	10	40.0	100.0	100.0
Missing	System	15	60.0		
Total		25	100.0		

Fishing (Stream or River)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	6	24.0	100.0	100.0
Missing	System	19	76.0		
Total		25	100.0		

Hiking/Walking					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	23	92.0	100.0	100.0
Missing	System	2	8.0		
Total		25	100.0		

Hunting			
		Frequency	Percent

Missing	System	25	100.0

OHV Use					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	1	4.0	100.0	100.0
Missing	System	24	96.0		
Total		25	100.0		

Picnicking					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	5	20.0	100.0	100.0
Missing	System	20	80.0		
Total		25	100.0		

Photography					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	13	52.0	100.0	100.0
Missing	System	12	48.0		
Total		25	100.0		

Power Boating			
		Frequency	Percent
Missing	System	25	100.0

PWC Use			
		Frequency	Percent
Missing	System	25	100.0

Sail Boating			
		Frequency	Percent
Missing	System	25	100.0

Swimming					
		Frequency	Percent	Valid Percent	Cumulative Percent

Valid	yes	21	84.0	100.0	100.0
Missing	System	4	16.0		
Total		25	100.0		

Visiting Cultural/Historic Sites			
		Frequency	Percent
Missing	System	25	100.0

Wildlife Viewing					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	10	40.0	100.0	100.0
Missing	System	15	60.0		
Total		25	100.0		

Other					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		22	88.0	88.0	88.0
	Kite Flying!	1	4.0	4.0	92.0
	Peace & Rejuvenation	1	4.0	4.0	96.0
	Sitting & enjoying the quiet and nature.	1	4.0	4.0	100.0
	Total	25	100.0	100.0	

Most Important Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	15	60.0	60.0	60.0
	Hiking/Walking	8	32.0	32.0	92.0
	Wildlife Viewing	1	4.0	4.0	96.0
	No response	1	4.0	4.0	100.0
	Total	25	100.0	100.0	

2nd Most Important Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent

Valid	Backpacking	1	4.0	4.0	4.0
	Fishing (Lake or Reservoir)	3	12.0	12.0	16.0
	Fishing (Stream or River)	1	4.0	4.0	20.0
	Hiking/Walking	4	16.0	16.0	36.0
	Picnicking	1	4.0	4.0	40.0
	Photography	1	4.0	4.0	44.0
	Swimming	9	36.0	36.0	80.0
	Wildlife Viewing	2	8.0	8.0	88.0
	No response	3	12.0	12.0	100.0
	Total	25	100.0	100.0	

3rd Most Important Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Fishing (Lake or Reservoir)	6	24.0	24.0	24.0
	Hiking/Walking	2	8.0	8.0	32.0
	Picnicking	1	4.0	4.0	36.0
	Photography	3	12.0	12.0	48.0
	Swimming	6	24.0	24.0	72.0
	Wildlife Viewing	2	8.0	8.0	80.0
	No response	5	20.0	20.0	100.0
	Total	25	100.0	100.0	

Did you select fishing as an activity?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	10	40.0	40.0	40.0
	No	15	60.0	60.0	100.0
	Total	25	100.0	100.0	

Coded general area A					
		Frequency	Percent	Valid	Cumulative

				Percent	Percent
Valid	Union Valley Reservoir	1	4.0	10.0	10.0
	Other Project Reservoir or stream	1	4.0	10.0	20.0
	Rock-Bound Lake	3	12.0	30.0	50.0
	Rubicon Reservoir	3	12.0	30.0	80.0
	Spider Lake	2	8.0	20.0	100.0
	Total	10	40.0	100.0	
Missing	System	15	60.0		
Total		25	100.0		

Quality of fishing (general area A)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	2	8.0	20.0	20.0
	Fair	2	8.0	20.0	40.0
	Good	5	20.0	50.0	90.0
	Excellent	1	4.0	10.0	100.0
	Total	10	40.0	100.0	
Missing	System	15	60.0		
Total		25	100.0		

Coded general area B					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	1	4.0	25.0	25.0
	Other non-Project Reservoirs or streams	1	4.0	25.0	50.0
	Rubicon Reservoir	1	4.0	25.0	75.0
	Spider Lake	1	4.0	25.0	100.0
	Total	4	16.0	100.0	
Missing	System	21	84.0		
Total		25	100.0		

Quality of fishing (general area B)				
	Frequency	Percent	Valid Percent	Cumulative Percent

Valid	Fair	2	8.0	50.0	50.0
	Good	2	8.0	50.0	100.0
	Total	4	16.0	100.0	
Missing	System	21	84.0		
Total		25	100.0		

Coded general area C					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other non-Project Reservoirs or streams	1	4.0	50.0	50.0
	Rock-Bound Lake	1	4.0	50.0	100.0
	Total	2	8.0	100.0	
Missing	System	23	92.0		
Total		25	100.0		

Quality of fishing (general area C)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	1	4.0	50.0	50.0
	Fair	1	4.0	50.0	100.0
	Total	2	8.0	100.0	
Missing	System	23	92.0		
Total		25	100.0		

Changes to Motorized Trails					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	3	12.0	12.0	12.0
	No	14	56.0	56.0	68.0
	No Opinion	8	32.0	32.0	100.0
	Total	25	100.0	100.0	

Coded List of What Changes to Motorized 1 (max 3)					
		Frequency	Percent	Valid Percent	Cumulative Percent

Valid	Reduce or eliminate motorized trail system	2	8.0	66.7	66.7
	Strengthen regulations or enforcement over OHV use	1	4.0	33.3	100.0
	Total	3	12.0	100.0	
Missing	System	22	88.0		
Total		25	100.0		

Coded List of What Changes to Motorized 2			
		Frequency	Percent
Missing	System	25	100.0

Changes to Non-Motorized Trails					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	13	52.0	52.0	52.0
	No	7	28.0	28.0	80.0
	No Opinion	5	20.0	20.0	100.0
	Total	25	100.0	100.0	

Coded List of What Changes to Non-Motorized 1 (max 3)						
			Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Better trail/trailhead marking		4	16.0	30.8	30.8
	More bike trails		1	4.0	7.7	38.5
	More trails		1	4.0	7.7	46.2
	Increase trail maintenance (large rocks)		7	28.0	53.8	100.0
	Total		13	52.0	100.0	
Missing	System		12	48.0		
Total			25	100.0		

Coded List of What Changes to Non-Motorized 2					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More trails	1	4.0	100.0	100.0
Missing	System	24	96.0		
Total		25	100.0		

Are improvements needed to make access to shorelines easier?					
		Frequency	Percent	Valid Percent	Cumulative Percent

Valid	Yes	3	12.0	12.0	12.0
	No	16	64.0	64.0	76.0
	No Opinion	6	24.0	24.0	100.0
	Total	25	100.0	100.0	

Are improvements needed to make access to shorelines safer?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	1	4.0	4.0	4.0
	No	13	52.0	52.0	56.0
	No Opinion	8	32.0	32.0	88.0
	No response	3	12.0	12.0	100.0
	Total	25	100.0	100.0	

Are improvements needed to make access to shorelines more enjoyable?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	3	12.0	12.0	12.0
	No	11	44.0	44.0	56.0
	No Opinion	8	32.0	32.0	88.0
	No response	3	12.0	12.0	100.0
	Total	25	100.0	100.0	

Are improvements needed to make access to shorelines easier, safer OR more enjoyable?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	At least one yes in 12a,b,c	6	24.0	24.0	24.0
	No	14	56.0	56.0	80.0
	No Opinion	5	20.0	20.0	100.0
	Total	25	100.0	100.0	

Coded list of changes to shorelines 1 (max 4)					
		Frequency	Percent	Valid Percent	Cumulative Percent

Valid	More campgrounds or campsites closer to shoreline	1	4.0	16.7	16.7
	Other	5	20.0	83.3	100.0
	Total	6	24.0	100.0	
Missing	System	19	76.0		
Total		25	100.0		

Coded list of changes to shorelines 2					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	1	4.0	100.0	100.0
Missing	System	24	96.0		
Total		25	100.0		

Are improvements needed to make access to rivers or streams easier?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	1	4.0	4.0	4.0
	No	16	64.0	64.0	68.0
	No Opinion	8	32.0	32.0	100.0
	Total	25	100.0	100.0	

Are improvements needed to make access to rivers or streams safer?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	2	8.0	8.0	8.0
	No	11	44.0	44.0	52.0
	No Opinion	10	40.0	40.0	92.0
	No response	2	8.0	8.0	100.0
	Total	25	100.0	100.0	

Are improvements needed to make access to rivers or streams more enjoyable?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No	13	52.0	52.0	52.0
	No Opinion	10	40.0	40.0	92.0
	No response	2	8.0	8.0	100.0
	Total	25	100.0	100.0	

Are improvements needed to make access to streams easier, safer OR more enjoyable?					
		Frequency	Percent	Valid Percent	Cumulative Percent

Valid	At least one yes in 12a,b,c	3	12.0	12.0	12.0
	No	14	56.0	56.0	68.0
	No Opinion	8	32.0	32.0	100.0
	Total	25	100.0	100.0	

Coded list of changes to rivers or streams 1 (max 4)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	3	12.0	100.0	100.0
Missing	System	22	88.0		
Total		25	100.0		

Did flow in streams allow participation					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	16	64.0	64.0	64.0
	No	2	8.0	8.0	72.0
	No Opinion	6	24.0	24.0	96.0
	No response	1	4.0	4.0	100.0
	Total	25	100.0	100.0	

If no, degree stream flow negatively affected the quality of experience					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Minimal	1	4.0	50.0	50.0
	Significant	1	4.0	50.0	100.0
	Total	2	8.0	100.0	
Missing	System	23	92.0		
Total		25	100.0		

How did it affect the quality of your experience					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		23	92.0	92.0	92.0
	No Response.1.	1	4.0	4.0	96.0
	There was no flow in the streams in Desolation.1.	1	4.0	4.0	100.0
	Total	25	100.0	100.0	

Are there activities you are unable to participate in?					
		Frequency	Percent	Valid Percent	Cumulative Percent

Valid	Yes	4	16.0	16.0	16.0
	No	16	64.0	64.0	80.0
	Don't Know	5	20.0	20.0	100.0
	Total	25	100.0	100.0	

Coded list of activities					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other land based	1	4.0	25.0	25.0
	Other	3	12.0	75.0	100.0
	Total	4	16.0	100.0	
Missing	System	21	84.0		
Total		25	100.0		

Mountain/Forested area					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Somewhat important	1	4.0	4.0	4.0
	Moderately important	4	16.0	16.0	20.0
	Extremely important	20	80.0	80.0	100.0
	Total	25	100.0	100.0	

Natural Lakes & Ponds					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Somewhat important	1	4.0	4.0	4.0
	Moderately important	2	8.0	8.0	12.0
	Extremely important	22	88.0	88.0	100.0
	Total	25	100.0	100.0	

Reservoirs					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	1	4.0	4.0	4.0
	Somewhat important	4	16.0	16.0	20.0
	Moderately important	4	16.0	16.0	36.0
	Extremely important	15	60.0	60.0	96.0
	No response	1	4.0	4.0	100.0
	Total	25	100.0	100.0	

Rivers/Streams					
		Frequency	Percent	Valid Percent	Cumulative Percent

Valid	Not at all important	1	4.0	4.0	4.0
	Somewhat important	2	8.0	8.0	12.0
	Moderately important	6	24.0	24.0	36.0
	Extremely important	16	64.0	64.0	100.0
	Total	25	100.0	100.0	

Boat Launch Ramps					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	16	64.0	64.0	64.0
	Somewhat important	3	12.0	12.0	76.0
	Moderately important	1	4.0	4.0	80.0
	Extremely important	1	4.0	4.0	84.0
	No response	4	16.0	16.0	100.0
	Total	25	100.0	100.0	

Developed Campgrounds					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	9	36.0	36.0	36.0
	Somewhat important	4	16.0	16.0	52.0
	Moderately important	4	16.0	16.0	68.0
	Extremely important	5	20.0	20.0	88.0
	No response	3	12.0	12.0	100.0
	Total	25	100.0	100.0	

Developed Swimming/Beach Areas					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	8	32.0	32.0	32.0
	Somewhat important	10	40.0	40.0	72.0
	Moderately important	3	12.0	12.0	84.0
	Extremely important	1	4.0	4.0	88.0
	No response	3	12.0	12.0	100.0
	Total	25	100.0	100.0	

Non-motorized Trails					
		Frequency	Percent	Valid Percent	Cumulative Percent

Valid	Not at all important	2	8.0	8.0	8.0
	Moderately important	3	12.0	12.0	20.0
	Extremely important	19	76.0	76.0	96.0
	No response	1	4.0	4.0	100.0
	Total	25	100.0	100.0	

OHV Trails					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	19	76.0	76.0	76.0
	Somewhat important	1	4.0	4.0	80.0
	Moderately important	2	8.0	8.0	88.0
	No response	3	12.0	12.0	100.0
	Total	25	100.0	100.0	

Picnic Facilities					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	10	40.0	40.0	40.0
	Somewhat important	8	32.0	32.0	72.0
	Moderately important	5	20.0	20.0	92.0
	No response	2	8.0	8.0	100.0
	Total	25	100.0	100.0	

Two-Laned Paved Road Access					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	7	28.0	28.0	28.0
	Somewhat important	6	24.0	24.0	52.0
	Moderately important	6	24.0	24.0	76.0
	Extremely important	6	24.0	24.0	100.0
	Total	25	100.0	100.0	

How likely or unlikely to come to CB					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very unlikely	2	8.0	8.0	8.0

	Unlikely	2	8.0	8.0	16.0
	Likely	6	24.0	24.0	40.0
	Very likely	11	44.0	44.0	84.0
	Don't know	4	16.0	16.0	100.0
	Total	25	100.0	100.0	

Recreation activities that conflicted with you					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	9	36.0	36.0	36.0
	No	14	56.0	56.0	92.0
	No Opinion	2	8.0	8.0	100.0
	Total	25	100.0	100.0	

What recreation activities conflicted with you 1 (max 2)						
			Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Motor boating related		1	4.0	11.1	11.1
	OHV - too loud, disruption of peace		7	28.0	77.8	88.9
	Gunshots or fireworks - noisy, dangerous, made nervous		1	4.0	11.1	100.0
	Total		9	36.0	100.0	
Missing	System		16	64.0		
Total			25	100.0		

Drill down of "motor boating"					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	noisy	1	4.0	100.0	100.0
Missing	System	24	96.0		
Total		25	100.0		

What recreation activities conflicted with you 2					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	1	4.0	100.0	100.0
Missing	System	24	96.0		
Total		25	100.0		

Non-recreation activities that conflicted with you					
		Frequency	Percent	Valid Percent	Cumulative Percent

Valid	Yes	1	4.0	4.0	4.0
	No	21	84.0	84.0	88.0
	No Opinion	3	12.0	12.0	100.0
	Total	25	100.0	100.0	

List of non-recreation activities that conflicted with you					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		24	96.0	96.0	96.0
	Numerous helicopter over-flights detracted from wilderness experience.1.	1	4.0	4.0	100.0
	Total	25	100.0	100.0	

Recreation activities causing harm to environment					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	13	52.0	52.0	52.0
	No	9	36.0	36.0	88.0
	No Opinion	3	12.0	12.0	100.0
	Total	25	100.0	100.0	

What recreation activities 1 (max 2)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	OHVs - degrades forest, erosion, air pollution	5	20.0	38.5	38.5
	Personal water craft - water and air pollution	1	4.0	7.7	46.2
	Power boats - water and air pollution	2	8.0	15.4	61.5
	Visitors leaving trash behind	1	4.0	7.7	69.2
	Campfires too big or left burning-forest fire hazard	1	4.0	7.7	76.9
	Cutting or chopping trees	1	4.0	7.7	84.6
	Other	2	8.0	15.4	100.0
	Total	13	52.0	100.0	
Missing	System	12	48.0		
Total		25	100.0		

What recreation activities 2					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	OHVs - degrades forest, erosion, air pollution	1	4.0	50.0	50.0

	Power boats - water and air pollution	1	4.0	50.0	100.0
	Total	2	8.0	100.0	
Missing	System	23	92.0		
Total		25	100.0		

Non-recreation activities causing harm to environment					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	4	16.0	16.0	16.0
	No	15	60.0	60.0	76.0
	No Opinion	4	16.0	16.0	92.0
	No response	2	8.0	8.0	100.0
	Total	25	100.0	100.0	

List of non-recreation activities causing harm to environment					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		21	84.0	84.0	84.0
	Logging - Visual degradation, presumed increased erosion & silting of streams.1.	1	4.0	4.0	88.0
	Reservoirs - may impact fish & local wildlife.1.	1	4.0	4.0	92.0
	Timber harvest.1.	1	4.0	4.0	96.0
	Timber harvesting.1.	1	4.0	4.0	100.0
	Total	25	100.0	100.0	

Info on campsite availability					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	18	72.0	72.0	72.0
	inadequate	2	8.0	8.0	80.0
	never looked for it	5	20.0	20.0	100.0
	Total	25	100.0	100.0	

Suggestions (campsite availability)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	1	4.0	50.0	50.0
	Other	1	4.0	50.0	100.0

	Total	2	8.0	100.0	
Missing	System	23	92.0		
Total		25	100.0		

Info on campfire restrictions					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Adequate	21	84.0	84.0	84.0
	never looked for it	4	16.0	16.0	100.0
	Total	25	100.0	100.0	

Suggestions (campfire restrictions)				
		Frequency	Percent	
Missing	System	25	100.0	

Info on reservoir levels					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	10	40.0	40.0	40.0
	inadequate	1	4.0	4.0	44.0
	never looked for it	14	56.0	56.0	100.0
	Total	25	100.0	100.0	

Suggestions (reservoir levels)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No response	1	4.0	100.0	100.0
Missing	System	24	96.0		
Total		25	100.0		

Info on wilderness permits					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	21	84.0	84.0	84.0
	inadequate	2	8.0	8.0	92.0

	never looked for it	1	4.0	4.0	96.0
	No response	1	4.0	4.0	100.0
	Total	25	100.0	100.0	

Suggestions (wilderness permits)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	2	8.0	66.7	66.7
	No response	1	4.0	33.3	100.0
	Total	3	12.0	100.0	
Missing	System	22	88.0		
Total		25	100.0		

Info on trail locations					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	21	84.0	84.0	84.0
	inadequate	4	16.0	16.0	100.0
	Total	25	100.0	100.0	

Suggestions (trail locations)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Provide more trail signs	1	4.0	25.0	25.0
	No response	3	12.0	75.0	100.0
	Total	4	16.0	100.0	
Missing	System	21	84.0		
Total		25	100.0		

Info on stream flow rate &/or depths					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	4	16.0	16.0	16.0
	inadequate	2	8.0	8.0	24.0
	never looked for it	19	76.0	76.0	100.0
	Total	25	100.0	100.0	

Suggestions (stream flow rate)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	1	4.0	50.0	50.0
	No response	1	4.0	50.0	100.0

	Total	2	8.0	100.0	
Missing	System	23	92.0		
Total		25	100.0		

Info on environmental or educational displays					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	8	32.0	32.0	32.0
	inadequate	2	8.0	8.0	40.0
	never looked for it	15	60.0	60.0	100.0
	Total	25	100.0	100.0	

Suggestions (displays)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No response	2	8.0	100.0	100.0
Missing	System	23	92.0		
Total		25	100.0		

Info on fish stocking					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	2	8.0	8.0	8.0
	inadequate	5	20.0	20.0	28.0
	never looked for it	18	72.0	72.0	100.0
	Total	25	100.0	100.0	

Suggestions (fish stocking)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	1	4.0	20.0	20.0
	Post on map or brochure	1	4.0	20.0	40.0
	Other	1	4.0	20.0	60.0
	No response	2	8.0	40.0	100.0
	Total	5	20.0	100.0	
Missing	System	20	80.0		
Total		25	100.0		

Info on other					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	inadequate	3	12.0	100.0	100.0

Missing	System	22	88.0		
Total		25	100.0		

List of other suggestions (access to info)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		22	88.0	88.0	88.0
	History of the area.	1	4.0	4.0	92.0
	More "Please don't litter signs by Rubicon Res.	1	4.0	4.0	96.0
	Were unprepared for noise of OHV'ers at Pleasant Campground.	1	4.0	4.0	100.0
	Total	25	100.0	100.0	

Other areas visited during stay 1 (max 5)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	1	4.0	4.0	4.0
	Union Valley Reservoir	1	4.0	4.0	8.0
	Loon Lake Reservoir	4	16.0	16.0	24.0
	Spider Lake	2	8.0	8.0	32.0
	Buck Island Reservoir	3	12.0	12.0	44.0
	Rubicon Reservoir	4	16.0	16.0	60.0
	Rubicon Hiking Trail	5	20.0	20.0	80.0
	Rockbound Lake	4	16.0	16.0	96.0
	Other	1	4.0	4.0	100.0
	Total	25	100.0	100.0	

Primary Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	13	52.0	52.0	52.0
	Fishing (Lake or Reservoir)	1	4.0	4.0	56.0
	Hiking/Walking	8	32.0	32.0	88.0
	Other	1	4.0	4.0	92.0
	No response	2	8.0	8.0	100.0
	Total	25	100.0	100.0	

Primary Activity (other)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		24	96.0	96.0	96.0

	Camping	1	4.0	4.0	100.0
	Total	25	100.0	100.0	

Other areas visited during stay 2					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	1	4.0	7.1	7.1
	Gerle Creek Reservoir	1	4.0	7.1	14.3
	Loon Lake Reservoir	1	4.0	7.1	21.4
	Other non-Project streams	1	4.0	7.1	28.6
	Spider Lake	1	4.0	7.1	35.7
	Shadow Lake	1	4.0	7.1	42.9
	Buck Island Reservoir	1	4.0	7.1	50.0
	Rubicon Reservoir	1	4.0	7.1	57.1
	Rubicon Hiking Trail	2	8.0	14.3	71.4
	Rockbound Lake	3	12.0	21.4	92.9
	Other	1	4.0	7.1	100.0
	Total	14	56.0	100.0	
Missing	System	11	44.0		
Total		25	100.0		

Primary Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	7	28.0	50.0	50.0
	Fishing (Lake or Reservoir)	2	8.0	14.3	64.3
	Hiking/Walking	1	4.0	7.1	71.4
	Swimming	2	8.0	14.3	85.7
	No response	2	8.0	14.3	100.0
		Total	14	56.0	100.0
Missing	System	11	44.0		
Total		25	100.0		

Primary Activity (other)				
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	25	100.0	100.0	100.0

Other areas visited during stay 3					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other non-Project streams	1	4.0	16.7	16.7
	Buck Island Reservoir	2	8.0	33.3	50.0
	Rubicon River	1	4.0	16.7	66.7
	Rubicon Hiking Trail	2	8.0	33.3	100.0
	Total	6	24.0	100.0	
Missing	System	19	76.0		
Total		25	100.0		

Primary Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	3	12.0	50.0	50.0
	Hiking/Walking	1	4.0	16.7	66.7
	OHV Use	1	4.0	16.7	83.3
	No response	1	4.0	16.7	100.0
	Total	6	24.0	100.0	
Missing	System	19	76.0		
Total		25	100.0		

Primary Activity (other)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		25	100.0	100.0	100.0

Other areas visited during stay 4					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Rubicon Hiking Trail	1	4.0	50.0	50.0
	Rockbound Lake	1	4.0	50.0	100.0
	Total	2	8.0	100.0	
Missing	System	23	92.0		
Total		25	100.0		

Primary Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	4.0	50.0	50.0

	No response	1	4.0	50.0	100.0
	Total	2	8.0	100.0	
Missing	System	23	92.0		
Total		25	100.0		

Primary Activity (other)				
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	25	100.0	100.0	100.0

Other areas visited during stay 5					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Rubicon Reservoir	1	4.0	100.0	100.0
Missing	System	24	96.0		
Total		25	100.0		

Primary Activity					
	Frequency	Percent	Valid Percent	Cumulative Percent	
Valid	Backpacking	1	4.0	100.0	100.0
Missing	System	24	96.0		
Total		25	100.0		

Primary Activity (other)				
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	25	100.0	100.0	100.0

List of places for similar recreational experiences					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		2	8.0	8.0	8.0
	Any Sierra Wilderness	1	4.0	4.0	12.0

Bowman Lake Area	1	4.0	4.0	16.0
Carson Pass Area	1	4.0	4.0	20.0
Desolation Wilderness	2	8.0	8.0	28.0
Emigrant Wilderness	1	4.0	4.0	32.0
Granite Bay at Folsom Lake	1	4.0	4.0	36.0
Henry Co.	1	4.0	4.0	40.0
Here Only	1	4.0	4.0	44.0
Horsetail Falls	1	4.0	4.0	48.0
Kennedy Meadows	1	4.0	4.0	52.0
Lake Tahoe	3	12.0	12.0	64.0
Multiple Wilderness Areas Throughout the State	1	4.0	4.0	68.0
Point Reyes Coast Line	1	4.0	4.0	72.0
Scottsdale, Arizona	1	4.0	4.0	76.0
Sierra Buttes	1	4.0	4.0	80.0
Silver Lake	1	4.0	4.0	84.0
Sly Park	1	4.0	4.0	88.0
Sykes Hot Springs	1	4.0	4.0	92.0
Throughout The Sierras	1	4.0	4.0	96.0
Trinity Alps	1	4.0	4.0	100.0
Total	25	100.0	100.0	

List of second place for similar recreational experiences					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		12	48.0	48.0	48.0
	Caples Lake	1	4.0	4.0	52.0

Donner Pass Area	1	4.0	4.0	56.0
Eastern Sierras	1	4.0	4.0	60.0
Half Moon Bay	1	4.0	4.0	64.0
Highway 88	1	4.0	4.0	68.0
Lake Maud	1	4.0	4.0	72.0
Lake Tahoe	1	4.0	4.0	76.0
Middle Fork of the American River	1	4.0	4.0	80.0
Point Reyes	1	4.0	4.0	84.0
Trinity Alps	1	4.0	4.0	88.0
Wrights Lake	1	4.0	4.0	92.0
Yosemite	2	8.0	8.0	100.0
Total	25	100.0	100.0	

Zip County (final)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	El Dorado County	2	8.0	8.0	8.0
	Sacramento County	9	36.0	36.0	44.0
	Placer County	1	4.0	4.0	48.0
	Yolo County	3	12.0	12.0	60.0
	Bay Area	7	28.0	28.0	88.0
	Northern CA	3	12.0	12.0	100.0
	Total	25	100.0	100.0	

# in Group					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	1	4.0	4.0	4.0
	2	9	36.0	36.0	40.0

3	4	16.0	16.0	56.0
4	3	12.0	12.0	68.0
5	3	12.0	12.0	80.0
6	2	8.0	8.0	88.0
7-10	1	4.0	4.0	92.0
11-15	1	4.0	4.0	96.0
16-20	1	4.0	4.0	100.0
Total	25	100.0	100.0	

Yrs Visiting Crystal Basin					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	First visit	4	16.0	16.0	16.0
	2	1	4.0	4.0	20.0
	3	3	12.0	12.0	32.0
	4	1	4.0	4.0	36.0
	5	1	4.0	4.0	40.0
	8	1	4.0	4.0	44.0
	10	1	4.0	4.0	48.0
	11-15	3	12.0	12.0	60.0
	16-20	3	12.0	12.0	72.0
	21-30	4	16.0	16.0	88.0
	31-40	2	8.0	8.0	96.0
	51 or more	1	4.0	4.0	100.0
	Total	25	100.0	100.0	

Gender					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	15	60.0	60.0	60.0
	Female	10	40.0	40.0	100.0
	Total	25	100.0	100.0	

City					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		3	12.0	12.0	12.0
	Berkeley	1	4.0	4.0	16.0

Chico	1	4.0	4.0	20.0
Davis	3	12.0	12.0	32.0
Fair Oaks	2	8.0	8.0	40.0
Fairfield	1	4.0	4.0	44.0
Granite Bay	1	4.0	4.0	48.0
Grass Valley	2	8.0	8.0	56.0
North Highlands	1	4.0	4.0	60.0
Oakland	1	4.0	4.0	64.0
Placerville	2	8.0	8.0	72.0
Sacramento	4	16.0	16.0	88.0
San Francisco	1	4.0	4.0	92.0
San Ramon	1	4.0	4.0	96.0
Union City	1	4.0	4.0	100.0
Total	25	100.0	100.0	

State					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		3	12.0	12.0	12.0
	CA	22	88.0	88.0	100.0
	Total	25	100.0	100.0	

Willing to be contacted for future studies?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	13	52.0	52.0	52.0
	No	11	44.0	44.0	96.0
	No response	1	4.0	4.0	100.0
	Total	25	100.0	100.0	

Appendix C.4.2 Frequencies – Dispersed Windshield – Canyonlands

This compilation presents the results of detailed surveys left on vehicles parked at dispersed recreation areas in the lower portion of the Project from Camino Reservoir to Mosquito Bridge on the South Fork American River. A total of 36 surveys were completed and returned.

The results are contained in frequency and percentage tables. The order of presentation follows the order that the questions are displayed in the survey instrument, contained in Appendix B.

Location of vehicle

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Forebay Road @ SFAR.2.	12	33.3	33.3	33.3
Brush Creek Res. at end of road.3.	5	13.9	13.9	47.2
FS Road 11N96 @ Slab Creek Dam.4.	3	8.3	8.3	55.6
FS Road 11N96 @ Slab Creek Boat Launch Site.5.	12	33.3	33.3	88.9
Mosquito Road @ SFAR.6.	4	11.1	11.1	100.0
Total	36	100.0	100.0	

Note: the number following the location description above is the location code number. Other tables in this document show responses verbatim, followed by the location code designating where that survey was administered.

in Group

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2	18	50.0	50.0	50.0
3	6	16.7	16.7	66.7
4	6	16.7	16.7	83.3
5	2	5.6	5.6	88.9
6	2	5.6	5.6	94.4
7	1	2.8	2.8	97.2
8	1	2.8	2.8	100.0
Total	36	100.0	100.0	

Yrs Visiting this area

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	First visit	8	22.2	22.2	22.2
	1	1	2.8	2.8	25.0
	2	3	8.3	8.3	33.3
	3	3	8.3	8.3	41.7
	4	1	2.8	2.8	44.4
	5	1	2.8	2.8	47.2
	6	2	5.6	5.6	52.8
	8	1	2.8	2.8	55.6
	9	1	2.8	2.8	58.3
	10	5	13.9	13.9	72.2
	11-15	4	11.1	11.1	83.3
	16-20	4	11.1	11.1	94.4
	21-30	2	5.6	5.6	100.0
	Total	36	100.0	100.0	

Gender

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	23	63.9	63.9	63.9
	Female	13	36.1	36.1	100.0
	Total	36	100.0	100.0	

Zip County (final)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	El Dorado County	28	77.8	77.8	77.8
	Sacramento County	5	13.9	13.9	91.7
	Yolo County	1	2.8	2.8	94.4
	Bay Area	2	5.6	5.6	100.0
	Total	36	100.0	100.0	

Willing to be contacted for future studies?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	24	66.7	66.7	66.7
	No	11	30.6	30.6	97.2
	No response	1	2.8	2.8	100.0
	Total	36	100.0	100.0	

Is Your Visit

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid the primary destination of your trip	32	88.9	88.9	88.9
a stop on route to another destination	4	11.1	11.1	100.0
Total	36	100.0	100.0	

Other Destination

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	32	88.9	88.9	88.9
American River Forebay.3.	1	2.8	2.8	91.7
Desolation Wilderness.4.	1	2.8	2.8	94.4
Home.6.	1	2.8	2.8	97.2
Ice House.2.	1	2.8	2.8	100.0
Total	36	100.0	100.0	

Day or Overnight

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Day Trip	30	83.3	83.3	83.3
Staying Overnight	6	16.7	16.7	100.0
Total	36	100.0	100.0	

Hours of Day Trip

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 3 hours or less	6	16.7	20.0	20.0
4 to 6 hours	19	52.8	63.3	83.3
7 to 9 hours	2	5.6	6.7	90.0
No response	3	8.3	10.0	100.0
Total	30	83.3	100.0	
Missing System	6	16.7		
Total	36	100.0		

of Nights

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 night	4	11.1	66.7	66.7
	2 nights	2	5.6	33.3	100.0
	Total	6	16.7	100.0	
Missing	System	30	83.3		
Total		36	100.0		

Type of Camping

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Campground	1	2.8	20.0	20.0
	Undeveloped Campsite	4	11.1	80.0	100.0
	Total	5	13.9	100.0	
Missing	System	31	86.1		
Total		36	100.0		

Name of Campground

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	1	2.8	100.0	100.0
Missing	System	35	97.2		
Total		36	100.0		

Undeveloped Campsite

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Forebay Road @ SFAR	3	8.3	60.0	60.0
	FS Road 11N96 Slab	1	2.8	20.0	80.0
	Creek Res BL site	1	2.8	20.0	100.0
	Other dispersed area in Canyonlands	1	2.8	20.0	100.0
	Total	5	13.9	100.0	
Missing	System	31	86.1		
Total		36	100.0		

Backpacking

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	2	5.6	100.0	100.0
Missing	System	34	94.4		
Total		36	100.0		

Bicycling

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	1	2.8	100.0	100.0
Missing System	35	97.2		
Total	36	100.0		

Canoeing/Kayaking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	10	27.8	100.0	100.0
Missing System	26	72.2		
Total	36	100.0		

Fishing (Lake or Reservoir)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	12	33.3	100.0	100.0
Missing System	24	66.7		
Total	36	100.0		

Fishing (Stream or River)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	13	36.1	100.0	100.0
Missing System	23	63.9		
Total	36	100.0		

Hiking/Walking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	16	44.4	100.0	100.0
Missing System	20	55.6		
Total	36	100.0		

Hunting

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	1	2.8	100.0	100.0
Missing System	35	97.2		
Total	36	100.0		

OHV Use

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	4	11.1	100.0	100.0
Missing System	32	88.9		
Total	36	100.0		

Picnicking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	11	30.6	100.0	100.0
Missing System	25	69.4		
Total	36	100.0		

Photography

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	9	25.0	100.0	100.0
Missing System	27	75.0		
Total	36	100.0		

Power Boating

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	3	8.3	100.0	100.0
Missing System	33	91.7		
Total	36	100.0		

PWC Use

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	1	2.8	100.0	100.0
Missing System	35	97.2		
Total	36	100.0		

Sail Boating

	Frequency	Percent
Missing System	36	100.0

Swimming

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	25	69.4	100.0	100.0
Missing System	11	30.6		
Total	36	100.0		

Visiting Cultural/Historic Sites

	Frequency	Percent
Missing System	36	100.0

Wildlife Viewing

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	15	41.7	100.0	100.0
Missing System	21	58.3		
Total	36	100.0		

Other

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	32	88.9	88.9	88.9
Gathering / Shooting	1	2.8	2.8	91.7
Hanging out/excellent stress reliver	1	2.8	2.8	94.4
Meeting with friends.	1	2.8	2.8	97.2
Reading	1	2.8	2.8	100.0
Total	36	100.0	100.0	

Most Important Activity

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Canoeing/Kayaking	8	22.2	22.2	22.2
Fishing (Lake or Reservoir)	8	22.2	22.2	44.4
Fishing (Stream or River)	5	13.9	13.9	58.3
Hiking/Walking	1	2.8	2.8	61.1
OHV Use	1	2.8	2.8	63.9
Swimming	9	25.0	25.0	88.9
Wildlife Viewing	2	5.6	5.6	94.4
Other	2	5.6	5.6	100.0
Total	36	100.0	100.0	

2nd Most Important Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Fishing (Stream or River)	2	5.6	5.6	5.6
	Hiking/Walking	7	19.4	19.4	25.0
	Hunting	1	2.8	2.8	27.8
	OHV Use	1	2.8	2.8	30.6
	Picnicking	4	11.1	11.1	41.7
	Power Boating	2	5.6	5.6	47.2
	PWC Use (Jet Ski)	1	2.8	2.8	50.0
	Swimming	8	22.2	22.2	72.2
	Wildlife Viewing	5	13.9	13.9	86.1
	Other	1	2.8	2.8	88.9
	No response	4	11.1	11.1	100.0
	Total	36	100.0	100.0	

3rd Most Important Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Canoeing/Kayaking	1	2.8	2.8	2.8
	Fishing (Lake or Reservoir)	1	2.8	2.8	5.6
	Fishing (Stream or River)	3	8.3	8.3	13.9
	Hiking/Walking	3	8.3	8.3	22.2
	Picnicking	3	8.3	8.3	30.6
	Photography	5	13.9	13.9	44.4
	Power Boating	1	2.8	2.8	47.2
	Swimming	5	13.9	13.9	61.1
	Wildlife Viewing	1	2.8	2.8	63.9
	No response	13	36.1	36.1	100.0
	Total	36	100.0	100.0	

Did you select fishing?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	21	58.3	58.3	58.3
	No	15	41.7	41.7	100.0
	Total	36	100.0	100.0	

Coded where fished (general area A)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	1	2.8	4.8	4.8
	Other non-Project Reservoirs or streams	2	5.6	9.5	14.3
	Slab Creek Reservoir	12	33.3	57.1	71.4
	SFAR above SCR	2	5.6	9.5	81.0
	SFAR @ Mosquito Road	1	2.8	4.8	85.7
	Brush Creek Reservoir	1	2.8	4.8	90.5
	No response	2	5.6	9.5	100.0
	Total	21	58.3	100.0	
Missing	System	15	41.7		
Total		36	100.0		

Cuff notes for "Other" non-project stream, river or reservoir:

Wrights Lake (Forebay Road @ SFAR).

Jenkinson Lake (Forebay Road @ SFAR).

Forebay (Forebay Road @ SFAR).

American River bottom forebay (Brush Creek Reservoir at end of road).

Caples Lake (FS Road 11N96 @ Slab Creek BL Site).

Quality of fishing (general area A)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	4	11.1	21.1	21.1
	Fair	10	27.8	52.6	73.7
	Good	5	13.9	26.3	100.0
	Total	19	52.8	100.0	
Missing	System	17	47.2		
Total		36	100.0		

Coded where fished (general area B)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	1	2.8	14.3	14.3
	Union Valley Reservoir	2	5.6	28.6	42.9
	Other Project Reservoir or stream	1	2.8	14.3	57.1
	Slab Creek Reservoir	1	2.8	14.3	71.4
	SFAR above SCR	2	5.6	28.6	100.0
	Total	7	19.4	100.0	
Missing	System	29	80.6		
Total		36	100.0		

Quality of fishing (general area B)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Poor	1	2.8	14.3	14.3
	Fair	1	2.8	14.3	28.6
	Good	4	11.1	57.1	85.7
	No response	1	2.8	14.3	100.0
	Total	7	19.4	100.0	
Missing	System	29	80.6		
Total		36	100.0		

Coded where fished (general area C)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Reservoir	1	2.8	16.7	16.7
	Union Valley Reservoir	1	2.8	16.7	33.3
	Other non-Project Reservoirs or streams	3	8.3	50.0	83.3
	SFAR below SCR	1	2.8	16.7	100.0
	Total	6	16.7	100.0	
Missing	System	30	83.3		
Total		36	100.0		

Quality of fishing (general area C)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Fair	1	2.8	16.7	16.7
	Good	5	13.9	83.3	100.0
	Total	6	16.7	100.0	
Missing	System	30	83.3		
Total		36	100.0		

Did you visit a reservoir on this trip?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	30	83.3	83.3	83.3
	No	6	16.7	16.7	100.0
Total		36	100.0	100.0	

If yes, select reservoir where you spent most of your time

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Slab Creek	26	72.2	86.7	86.7
	Brush Creek	4	11.1	13.3	100.0
	Total	30	83.3	100.0	
Missing	System	6	16.7		
Total		36	100.0		

Did reservoir level allow you to participate in activities planned?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	25	69.4	83.3	83.3
	No	3	8.3	10.0	93.3
	No Opinion	1	2.8	3.3	96.7
	No response	1	2.8	3.3	100.0
	Total	30	83.3	100.0	
Missing	System	6	16.7		
Total		36	100.0		

If no, to what extent did water level negatively affect quality of experience?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Minimal	6	16.7	54.5	54.5
	Moderate	2	5.6	18.2	72.7
	Significant	2	5.6	18.2	90.9
	No response	1	2.8	9.1	100.0
	Total	11	30.6	100.0	
Missing	System	25	69.4		
Total		36	100.0		

List of how it affected the quality of experience (reservoir)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	26	72.2	72.2	72.2
Couldn't launch on forebay side-so we launched on dam side-no problem.5.	1	2.8	2.8	75.0
Hard to launch.2.	1	2.8	2.8	77.8
It was hard (w/kids) to get back upstream because of the strong current.2.	1	2.8	2.8	80.6
Little.5.	1	2.8	2.8	83.3
Need better access to Slab Creek & Mosquito Rd. swimming area.6.	1	2.8	2.8	86.1
No Response	1	2.8	2.8	88.9
Planned to come Saturday afternoon to put in at upper end-water too low.5.	1	2.8	2.8	91.7
The water runs too fast when it is low.2.	1	2.8	2.8	94.4
Water too low to launch boat at top of SCR, had to go to dam-no room to camp.5.	1	2.8	2.8	97.2
Water too swift to put in for kayaking [@ upstream end of SCR].3.	1	2.8	2.8	100.0
Total	36	100.0	100.0	

Did you visit any streams on this visit?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	14	38.9	38.9	38.9
No	21	58.3	58.3	97.2
No response	1	2.8	2.8	100.0
Total	36	100.0	100.0	

Describe the stream segment.

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	SFAR above SCR	3	8.3	21.4	21.4
	SFAR below SCR	3	8.3	21.4	42.9
	SFAR @ Mosquito Road	4	11.1	28.6	71.4
	Brush Creek above BCR	1	2.8	7.1	78.6
	Other non-Project stream	2	5.6	14.3	92.9
	No Response	1	2.8	7.1	100.0
	Total	14	38.9	100.0	
Missing	System	22	61.1		
Total		36	100.0		

Did amount of flow in stream allow participation in activities planned?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	14	38.9	82.4	82.4
	No	2	5.6	11.8	94.1
	No response	1	2.8	5.9	100.0
	Total	17	47.2	100.0	
Missing	System	19	52.8		
Total		36	100.0		

If no, to what extent did amount of flow negatively affect quality of experience?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Minimal	1	2.8	25.0	25.0
	Moderate	1	2.8	25.0	50.0
	Significant	1	2.8	25.0	75.0
	No response	1	2.8	25.0	100.0
	Total	4	11.1	100.0	
Missing	System	32	88.9		
Total		36	100.0		

List of how it affected the quality of experience (stream)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	33	91.7	91.7	91.7
Could not put in-we would not be able to paddle back up stream [@ upstream end of SCR].3.	1	2.8	2.8	94.4
Near gate to Camino PH-water started rising-not able to walk the shoreline-had to climb out.2.	1	2.8	2.8	97.2
Only for the visual experience and the temp. of the water.2.	1	2.8	2.8	100.0
Total	36	100.0	100.0	

Are there activities you are unable to participate in?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	4	11.1	11.1	11.1
No	25	69.4	69.4	80.6
Don't Know	7	19.4	19.4	100.0
Total	36	100.0	100.0	

Coded list of activities

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Boating - don't have boat or no place to rent	1	2.8	25.0	25.0
Other water based	3	8.3	75.0	100.0
Total	4	11.1	100.0	
Missing System	32	88.9		
Total	36	100.0		

Cuff notes on "Other - Water Based":

Swimming – the water is too cold and runs to fast (Forebay Road @ SFAR).
Road too narrow to launch boat with a trailer (FS Road 11N96 @ Slab Creek Dam BL Site).

Kayaking – we couldn't put in [@ upstream end of SCR] because the water flow was too strong (Brush Creek Reservoir at end of road).

Any change or improvements in this area? (max 3)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	22	61.1	61.1	61.1
	No	11	30.6	30.6	91.7
	Don't Know	3	8.3	8.3	100.0
	Total	36	100.0	100.0	

List of Changes 1

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	13	36.1	36.1	36.1
A cleaner camping area, less refuse.2.	1	2.8	2.8	38.9
Bathrooms & trash cans.2.	1	2.8	2.8	41.7
Better parking-area.3.	1	2.8	2.8	44.4
Better road for boat ramp.3.	1	2.8	2.8	47.2
Bigger area to park & turn around.5.	1	2.8	2.8	50.0
Build trails to swimming areas at Mosquito Bridge.6.	1	2.8	2.8	52.8
Cleaner.2.	1	2.8	2.8	55.6
Easier access-not able to launch a boat with a trailer.5.	1	2.8	2.8	58.3
Easier access to lower reservoir.5.	1	2.8	2.8	61.1
Eliminate dams on the river.2.	1	2.8	2.8	63.9
Improve access - continue road past strong flow.3.	1	2.8	2.8	66.7
Less broken glass and trash.2.	1	2.8	2.8	69.4
Less pollution.2.	1	2.8	2.8	72.2
More clearly marked OHV trails.3.	1	2.8	2.8	75.0
Port-a-potty at Slab BL and at upper end.5.	1	2.8	2.8	77.8
Restrict size of motors, speed limits enforcement.5.	1	2.8	2.8	80.6
Stock the reservoirs and streams w/more fish.2.	1	2.8	2.8	83.3
Stock with trout.5.	1	2.8	2.8	86.1
Stricter rules for alcohol use in power boats.2.	1	2.8	2.8	88.9
Trash can.6.	1	2.8	2.8	91.7
Trash cans; FS needs to patrol.2.	1	2.8	2.8	94.4
Trash picked up.4.	1	2.8	2.8	97.2
Under age drinking-people with guns shooting.5.	1	2.8	2.8	100.0
Total	36	100.0	100.0	

List of Changes 2

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	33	91.7	91.7	91.7
More low-speed motorized areas for canoe & kayak-safety.2.	1	2.8	2.8	94.4
One lane road needs signs suggesting to honk your horn before entering.5.	1	2.8	2.8	97.2
Open gate to SFAR at North Canyon/Slab Creek Rd.6.	1	2.8	2.8	100.0
Total	36	100.0	100.0	

Mountain/Forested area

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Somewhat important	3	8.3	8.3	8.3
Moderately important	9	25.0	25.0	33.3
Extremely important	20	55.6	55.6	88.9
No response	4	11.1	11.1	100.0
Total	36	100.0	100.0	

Natural Lakes & Ponds

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	3	8.3	8.3	8.3
Somewhat important	2	5.6	5.6	13.9
Moderately important	11	30.6	30.6	44.4
Extremely important	15	41.7	41.7	86.1
No response	5	13.9	13.9	100.0
Total	36	100.0	100.0	

Reservoirs

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all important	3	8.3	8.3	8.3
Somewhat important	2	5.6	5.6	13.9
Moderately important	10	27.8	27.8	41.7
Extremely important	19	52.8	52.8	94.4
No response	2	5.6	5.6	100.0
Total	36	100.0	100.0	

Rivers/Streams

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Somewhat important	4	11.1	11.1	11.1
	Moderately important	7	19.4	19.4	30.6
	Extremely important	23	63.9	63.9	94.4
	No response	2	5.6	5.6	100.0
	Total	36	100.0	100.0	

Boat Launch Ramps

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	10	27.8	27.8	27.8
	Somewhat important	11	30.6	30.6	58.3
	Moderately important	6	16.7	16.7	75.0
	Extremely important	7	19.4	19.4	94.4
	No response	2	5.6	5.6	100.0
	Total	36	100.0	100.0	

Developed Campgrounds

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	22	61.1	61.1	61.1
	Somewhat important	6	16.7	16.7	77.8
	Moderately important	4	11.1	11.1	88.9
	Extremely important	3	8.3	8.3	97.2
	No response	1	2.8	2.8	100.0
	Total	36	100.0	100.0	

Developed Swimming/Beach Areas

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	22	61.1	61.1	61.1
	Somewhat important	6	16.7	16.7	77.8
	Moderately important	5	13.9	13.9	91.7
	Extremely important	3	8.3	8.3	100.0
	Total	36	100.0	100.0	

Non-motorized Trails

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	19	52.8	52.8	52.8
	Somewhat important	9	25.0	25.0	77.8
	Moderately important	5	13.9	13.9	91.7
	Extremely important	2	5.6	5.6	97.2
	No response	1	2.8	2.8	100.0
	Total	36	100.0	100.0	

OHV Trails

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	21	58.3	58.3	58.3
	Somewhat important	4	11.1	11.1	69.4
	Moderately important	6	16.7	16.7	86.1
	Extremely important	4	11.1	11.1	97.2
	No response	1	2.8	2.8	100.0
	Total	36	100.0	100.0	

Picnic Facilities

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	22	61.1	61.1	61.1
	Somewhat important	7	19.4	19.4	80.6
	Moderately important	2	5.6	5.6	86.1
	Extremely important	4	11.1	11.1	97.2
	No response	1	2.8	2.8	100.0
	Total	36	100.0	100.0	

Two-Laned Paved Road Access

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	18	50.0	50.0	50.0
	Somewhat important	8	22.2	22.2	72.2
	Moderately important	6	16.7	16.7	88.9
	Extremely important	3	8.3	8.3	97.2
	No response	1	2.8	2.8	100.0
	Total	36	100.0	100.0	

How likely or unlikely to come to this area

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Very unlikely	11	30.6	30.6	30.6
Unlikely	6	16.7	16.7	47.2
Likely	7	19.4	19.4	66.7
Very likely	11	30.6	30.6	97.2
Don't know	1	2.8	2.8	100.0
Total	36	100.0	100.0	

Changes to Motorized Trails

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	9	25.0	25.0	25.0
No	18	50.0	50.0	75.0
No Opinion	9	25.0	25.0	100.0
Total	36	100.0	100.0	

Coded List of What Changes to Motorized 1 (max 3)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Expanded motorized trail system	4	11.1	44.4	44.4
Improve trailhead markers (not obvious if allowable)	1	2.8	11.1	55.6
Reduce or eliminate motorized trail system	1	2.8	11.1	66.7
More paved or other road improvements	1	2.8	11.1	77.8
Other	1	2.8	11.1	88.9
No response	1	2.8	11.1	100.0
Total	9	25.0	100.0	
Missing System	27	75.0		
Total	36	100.0		

Cuff notes on "Other":

Open up the transmission ROW (FS Road 11N96 @ Slab Creek BL Site).

Changes to Non-Motorized Trails

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	8	22.2	22.2	22.2
No	13	36.1	36.1	58.3
No Opinion	15	41.7	41.7	100.0
Total	36	100.0	100.0	

Coded List of What Changes to Non-Motorized 1 (max 3)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Better trail/trailhead marking	1	2.8	12.5	12.5
	More hiking trails	1	2.8	12.5	25.0
	More trails	2	5.6	25.0	50.0
	Increase level of development	1	2.8	12.5	62.5
	Other	1	2.8	12.5	75.0
	No response	2	5.6	25.0	100.0
	Total	8	22.2	100.0	
Missing	System	28	77.8		
Total		36	100.0		

Cuff notes on "Other":

More disabled access trails (Forebay Road @ SFAR).

Phones at trailheads (Forebay Road @ SFAR).

Coded List of What Changes to Non-Motorized 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	1	2.8	100.0	100.0
Missing	System	35	97.2		
Total		36	100.0		

Recreation activities that conflicted with you

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	7	19.4	19.4	19.4
	No	25	69.4	69.4	88.9
	No Opinion	3	8.3	8.3	97.2
	No response	1	2.8	2.8	100.0
Total		36	100.0	100.0	

What recreation activities conflicted with you 1 (max 2)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Motor boating related	1	2.8	14.3	14.3
	Gunshots or fireworks - noisy, dangerous, made nervous	2	5.6	28.6	42.9
	Rowdy people - noisy, disruptive of peace	2	5.6	28.6	71.4
	Other	2	5.6	28.6	100.0
	Total	7	19.4	100.0	
Missing	System	29	80.6		
Total		36	100.0		

Cuff notes for "Other" recreation activities:

Broken bottles, trash (Forebay Road @ SFAR).

People picnicking on boat launch (FS Road 11N96 @ Slab Creek BL Site).

Drill down of "motor boating"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	wake	1	2.8	100.0	100.0
Missing	System	35	97.2		
Total		36	100.0		

What recreation activities conflicted with you 2

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	PWC - nosiy and disruptive	1	2.8	100.0	100.0
Missing	System	35	97.2		
Total		36	100.0		

Non-recreation activities that conflicted with you

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	4	11.1	11.4	11.4
	No	27	75.0	77.1	88.6
	No Opinion	3	8.3	8.6	97.1
	No response	1	2.8	2.9	100.0
	Total	35	97.2	100.0	
Missing	System	1	2.8		
Total		36	100.0		

List of non-recreation activities that conflicted with you

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	32	88.9	88.9	88.9
A lot of garbage in Slab Creek - could not fit it all in my boat.2.	1	2.8	2.8	91.7
Do not like clear cuts! Creates open areas that are unnatural. Not against logging in general.6.	1	2.8	2.8	94.4
Hydroelectric generation-the release of water from plant - see response to 7.c.2.	1	2.8	2.8	97.2
Kayaking-too much water out of power plant [@ upstream end of SCR].3.	1	2.8	2.8	100.0
Total	36	100.0	100.0	

Recreation activities causing harm to environment

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	11	30.6	30.6	30.6
No	23	63.9	63.9	94.4
No Opinion	2	5.6	5.6	100.0
Total	36	100.0	100.0	

List of what recreation activities 1 (max 2)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	25	69.4	69.4	69.4
Alcohol consumption & guns-lots of trouble makers.5.	1	2.8	2.8	72.2
Campers had fire in middle of road and extinguished improperly.3.	1	2.8	2.8	75.0
Large wakes from jet skier & large motors.5.	1	2.8	2.8	77.8
People going to the bathroom wherever they were standing.5.	1	2.8	2.8	80.6
People leaving their trash-broken glass, rusty cans, plastic etc. could be injurious to wildlife.2.	1	2.8	2.8	83.3
Senseless idiots with garbage - litter dumped.2.	1	2.8	2.8	86.1
Shooting guns into the water-one ricocheted off a rock-came about 15 feet from group of people.5.	1	2.8	2.8	88.9
Skeet Shooting - not bad.4.	1	2.8	2.8	91.7
Trash - environment.2.	1	2.8	2.8	94.4
Trash.2.	1	2.8	2.8	97.2
Unauthorized illegal campfire by homeless family.5.	1	2.8	2.8	100.0
Total	36	100.0	100.0	

List of what recreation activities 2

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	35	97.2	97.2	97.2
Unable to launch boat until road cleared, potential fire.3.	1	2.8	2.8	100.0
Total	36	100.0	100.0	

Non-recreation activities causing harm to environment

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	5	13.9	13.9	13.9
No	27	75.0	75.0	88.9
No Opinion	4	11.1	11.1	100.0
Total	36	100.0	100.0	

List of non-recreation activities causing harm to environment

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	31	86.1	86.1	86.1
Debris from construction in river-ruins the pristine nature of the area-could be a danger.2.	1	2.8	2.8	88.9
Hydroelectric generation & timber harvesting harms wildlife.2.	1	2.8	2.8	91.7
I worry about erosion from clear cuts - erosion.6.	1	2.8	2.8	94.4
Timber harvest - depleting lush lands.2.	1	2.8	2.8	97.2
Timber harvest on hill overlooking Slab Creek-effects beauty & creates run off.2.	1	2.8	2.8	100.0
Total	36	100.0	100.0	

Described how crowded you felt in this area

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all crowded	24	66.7	66.7	66.7
Slightly crowded	6	16.7	16.7	83.3
Moderately crowded	3	8.3	8.3	91.7
Extremely crowded	3	8.3	8.3	100.0
Total	36	100.0	100.0	

Did you bring watercraft?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	18	50.0	50.0	50.0
No	18	50.0	50.0	100.0
Total	36	100.0	100.0	

Which reservoir on the most?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Slab Creek	17	47.2	94.4	94.4
	Brush Creek	1	2.8	5.6	100.0
	Total	18	50.0	100.0	
Missing	System	18	50.0		
Total		36	100.0		

Describe how crowded (reservoir)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all crowded	15	41.7	83.3	83.3
	Slightly crowded	2	5.6	11.1	94.4
	Extremely crowded	1	2.8	5.6	100.0
	Total	18	50.0	100.0	
Missing	System	18	50.0		
Total		36	100.0		

Info on campsite availability

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	6	16.7	16.7	16.7
	inadequate	5	13.9	13.9	30.6
	never looked for it	23	63.9	63.9	94.4
	No response	2	5.6	5.6	100.0
Total		36	100.0	100.0	

Suggestions (campsite availability)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	1	2.8	20.0	20.0
	Provide more campgrounds	1	2.8	20.0	40.0
	No response	3	8.3	60.0	100.0
	Total	5	13.9	100.0	
Missing	System	31	86.1		
Total		36	100.0		

Info on campfire restrictions

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	12	33.3	33.3	33.3
inadequate	3	8.3	8.3	41.7
never looked for it	20	55.6	55.6	97.2
No response	1	2.8	2.8	100.0
Total	36	100.0	100.0	

Suggestions (campfire restrictions)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Other	1	2.8	33.3	33.3
No response	2	5.6	66.7	100.0
Total	3	8.3	100.0	
Missing System	33	91.7		
Total	36	100.0		

Info on reservoir levels

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	11	30.6	30.6	30.6
inadequate	4	11.1	11.1	41.7
never looked for it	21	58.3	58.3	100.0
Total	36	100.0	100.0	

Suggestions (reservoir levels)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Post at facilities	2	5.6	50.0	50.0
No response	2	5.6	50.0	100.0
Total	4	11.1	100.0	
Missing System	32	88.9		
Total	36	100.0		

Info on wilderness permits

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	6	16.7	16.7	16.7
inadequate	4	11.1	11.1	27.8
never looked for it	25	69.4	69.4	97.2
No response	1	2.8	2.8	100.0
Total	36	100.0	100.0	

Suggestions (wilderness permits)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	1	2.8	25.0	25.0
	No response	3	8.3	75.0	100.0
	Total	4	11.1	100.0	
Missing	System	32	88.9		
Total		36	100.0		

Info on trail locations

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	8	22.2	22.2	22.2
	inadequate	8	22.2	22.2	44.4
	never looked for it	19	52.8	52.8	97.2
	No response	1	2.8	2.8	100.0
Total		36	100.0	100.0	

Suggestions (trail locations)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve Internet/web	1	2.8	12.5	12.5
	Provide more trail signs	1	2.8	12.5	25.0
	Other	1	2.8	12.5	37.5
	No response	5	13.9	62.5	100.0
	Total	8	22.2	100.0	
Missing	System	28	77.8		
Total		36	100.0		

Info on stream flow rate &/or depths

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	9	25.0	25.0	25.0
	inadequate	3	8.3	8.3	33.3
	never looked for it	23	63.9	63.9	97.2
	No response	1	2.8	2.8	100.0
Total		36	100.0	100.0	

Suggestions (stream flow rate)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Other	1	2.8	33.3	33.3
	No response	2	5.6	66.7	100.0
	Total	3	8.3	100.0	
Missing	System	33	91.7		
Total		36	100.0		

Info on environmental or educational displays

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	6	16.7	16.7	16.7
	inadequate	5	13.9	13.9	30.6
	never looked for it	24	66.7	66.7	97.2
	No response	1	2.8	2.8	100.0
Total		36	100.0	100.0	

Suggestions (displays)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Provide more displays	1	2.8	20.0	20.0
	No response	4	11.1	80.0	100.0
	Total	5	13.9	100.0	
Missing	System	31	86.1		
Total		36	100.0		

Info on fish stocking

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	5	13.9	13.9	13.9
	inadequate	5	13.9	13.9	27.8
	never looked for it	25	69.4	69.4	97.2
	No response	1	2.8	2.8	100.0
Total		36	100.0	100.0	

Suggestions (fish stocking)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Post at facilities	1	2.8	20.0	20.0
	Other	1	2.8	20.0	40.0
	No response	3	8.3	60.0	100.0
	Total	5	13.9	100.0	
Missing	System	31	86.1		
Total		36	100.0		

List of places for similar recreational experiences

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	2.8	2.8	2.8
American River	1	2.8	2.8	5.6
Angles Camp	1	2.8	2.8	8.3
Caples & Silver Lakes	1	2.8	2.8	11.1
Crystal Basin	1	2.8	2.8	13.9
Crystal Basin Lakes	1	2.8	2.8	16.7
Desolation Wilderness	1	2.8	2.8	19.4
Folsom Lake	1	2.8	2.8	22.2
Forebay Road	1	2.8	2.8	25.0
Hidden Lake	1	2.8	2.8	27.8
Ice House Reservoir	3	8.3	8.3	36.1
Jenkinson Lake	5	13.9	13.9	50.0
Lake Natoma	1	2.8	2.8	52.8
Lake Tahoe	1	2.8	2.8	55.6
Loon Lake	1	2.8	2.8	58.3
None Other	1	2.8	2.8	61.1
Rubicon	1	2.8	2.8	63.9
Sly Park	4	11.1	11.1	75.0
Tahoe Area	1	2.8	2.8	77.8
Tahoe National Forest	1	2.8	2.8	80.6
Union Valley Reservoir	5	13.9	13.9	94.4
Upper American River	1	2.8	2.8	97.2
Yuba River	1	2.8	2.8	100.0
Total	36	100.0	100.0	

List of second place for similar recreational experiences

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	7	19.4	19.4	19.4
Brush Creek Reservoir	1	2.8	2.8	22.2
Dark Lake	1	2.8	2.8	25.0
Folsom Lake	2	5.6	5.6	30.6
Forrest Hill	1	2.8	2.8	33.3
Happy Valley	1	2.8	2.8	36.1
Hell Hole	1	2.8	2.8	38.9
Highway 88	1	2.8	2.8	41.7
Ice House Reservoir	5	13.9	13.9	55.6
Lake Natoma	2	5.6	5.6	61.1
Lake Tahoe	4	11.1	11.1	72.2
Loon Lake	1	2.8	2.8	75.0
Mt. Lassen National Park	1	2.8	2.8	77.8
Ponderosa	1	2.8	2.8	80.6
Rock Creek	1	2.8	2.8	83.3
Rubicon Reservoir	1	2.8	2.8	86.1
Rubicon Trail	1	2.8	2.8	88.9
Union Valley Reservoir	3	8.3	8.3	97.2
Wilderness Areas	1	2.8	2.8	100.0
Total	36	100.0	100.0	

Appendix C.5.2 Frequencies – Winter Windshield

This compilation presents the results of detailed surveys left on vehicles parked along the snowplow route in the Crystal Basin during the 2002-03 winter season. A total of 223 surveys were completed and returned.

The results are contained in frequency and percentage tables. The order of presentation follows the order that the questions are displayed in the survey instrument, contained in Appendix B.

Specific Location

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Pull-off at lower IH Road-1	1	.4	.4	.4
Granite S Rd @ IH Rd-5	5	2.2	2.2	2.7
Peavine R Rd @Bryant S Rd-7	2	.9	.9	3.6
West Point Boat Launch-11	20	9.0	9.0	12.6
Silver Creek CG Rd @ IH Rd-13	8	3.6	3.6	16.1
SFSC @ IH Rd-15	3	1.3	1.3	17.5
Big Hill Lookout Rd-17	4	1.8	1.8	19.3
Big Hill Lookout-19	1	.4	.4	19.7
Ice House Boat Launch-23	57	25.6	25.6	45.3
Crystal Basin Info Station-25	3	1.3	1.3	46.6
Peninsula Rd @ IH Rd-31	4	1.8	1.8	48.4
Big Silver Group CG @ IH Rd-33	2	.9	.9	49.3
Robbs Saddle-39	9	4.0	4.0	53.4
Robbs Hut Rd-43	19	8.5	8.5	61.9
Wentworth S Rd @ IH Rd-45	1	.4	.4	62.3
Gerle Creek Dam Rd-51	12	5.4	5.4	67.7
LLCG Rd @ IH Rd-55	18	8.1	8.1	75.8
Loon Lake Chalet-59	38	17.0	17.0	92.8
LLPH access Rd @ IH Rd-61	16	7.2	7.2	100.0
Total	223	100.0	100.0	

Note: the number following the location description above is the location code number. Other tables and footnotes in this document show responses verbatim, followed by the location code designating where that survey was administered.

Zip County (final)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid El Dorado County	107	48.0	48.0	48.0
Sacramento County	66	29.6	29.6	77.6
Placer County	10	4.5	4.5	82.1
Yolo County	10	4.5	4.5	86.5
Bay Area	22	9.9	9.9	96.4
Northern CA	1	.4	.4	96.9
Coast	1	.4	.4	97.3
Central Valley	3	1.3	1.3	98.7
Out of State	1	.4	.4	99.1
No response	2	.9	.9	100.0
Total	223	100.0	100.0	

Gender

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Male	152	68.2	68.2	68.2
Female	71	31.8	31.8	100.0
Total	223	100.0	100.0	

of People in Vehicle

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 0	1	.4	.4	.4
1	39	17.5	17.5	17.9
2	101	45.3	45.3	63.2
3	39	17.5	17.5	80.7
4	27	12.1	12.1	92.8
5	13	5.8	5.8	98.7
6	3	1.3	1.3	100.0
Total	223	100.0	100.0	

Traveling with other vehicles?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes (number provided)	65	29.1	29.1	29.1
	No (blank)	158	70.9	70.9	100.0
	Total	223	100.0	100.0	

of People in Group (multi-vehicle groups only)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2	1	.4	1.5	1.5
	4	16	7.2	24.6	26.2
	5	5	2.2	7.7	33.8
	6	11	4.9	16.9	50.8
	7	11	4.9	16.9	67.7
	8	2	.9	3.1	70.8
	9	2	.9	3.1	73.8
	10	5	2.2	7.7	81.5
	11-15	6	2.7	9.2	90.8
	16-20	6	2.7	9.2	100.0
	Total	65	29.1	100.0	
Missing	System	158	70.9		
Total		223	100.0		

of Years Visiting This Area During Winter

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	First visit	24	10.8	10.8	10.8
	1	16	7.2	7.2	17.9
	2	16	7.2	7.2	25.1
	3	18	8.1	8.1	33.2
	4	11	4.9	4.9	38.1
	5	14	6.3	6.3	44.4
	6	10	4.5	4.5	48.9
	7	4	1.8	1.8	50.7
	8	5	2.2	2.2	52.9
	9	3	1.3	1.3	54.3
	10	22	9.9	9.9	64.1
	11-15	20	9.0	9.0	73.1
	16-20	24	10.8	10.8	83.9
	21-30	26	11.7	11.7	95.5
	31-40	7	3.1	3.1	98.7
	41-50	3	1.3	1.3	100.0
	Total	223	100.0	100.0	

How Many Visits Last Winter

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	None	45	20.2	20.2	20.2
	1	23	10.3	10.3	30.5
	2	20	9.0	9.0	39.5
	3	20	9.0	9.0	48.4
	4	18	8.1	8.1	56.5
	5	18	8.1	8.1	64.6
	6	14	6.3	6.3	70.9
	7	5	2.2	2.2	73.1
	8	6	2.7	2.7	75.8
	9	3	1.3	1.3	77.1
	10	16	7.2	7.2	84.3
	12	7	3.1	3.1	87.4
	13-15	7	3.1	3.1	90.6
	16-20	8	3.6	3.6	94.2
	21 or more	10	4.5	4.5	98.7
	No Response	3	1.3	1.3	100.0
	Total	223	100.0	100.0	

Day or Overnight

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Day Trip	168	75.3	75.3	75.3
	Staying Overnight	55	24.7	24.7	100.0
	Total	223	100.0	100.0	

Hours of Day Trip

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	3 hours or less	23	10.3	13.7	13.7
	4 to 6 hours	98	43.9	58.3	72.0
	7 to 9 hours	37	16.6	22.0	94.0
	10 hours or more	8	3.6	4.8	98.8
	No response	2	.9	1.2	100.0
	Total	168	75.3	100.0	
Missing	System	55	24.7		
Total		223	100.0		

of Nights

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 night	19	8.5	34.5	34.5
	2 nights	27	12.1	49.1	83.6
	3 nights	6	2.7	10.9	94.5
	4 nights	2	.9	3.6	98.2
	No response	1	.4	1.8	100.0
	Total	55	24.7	100.0	
Missing	System	168	75.3		
Total		223	100.0		

Where Staying Overnight

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Loon Lake Reservoir Area	9	4.0	16.4	16.4
	Robbs Hut	12	5.4	21.8	38.2
	Van Vleck Bunkhouse	3	1.3	5.5	43.6
	Loon Lake Chalet	3	1.3	5.5	49.1
	Buck Island Reservoir Area	1	.4	1.8	50.9
	Spider Lake Area	4	1.8	7.3	58.2
	Recreational Residences	2	.9	3.6	61.8
	Millionaire Camp	1	.4	1.8	63.6
	Ice House Reservoir Area	6	2.7	10.9	74.5
	Other	9	4.0	16.4	90.9
	No Response	5	2.2	9.1	100.0
	Total	55	24.7	100.0	
Missing	System	168	75.3		
Total		223	100.0		

cuff notes for “other”

- Home
- Side of road in a camper-Jenkins Lake / any campground open
- Back Country with Boat
- Camping
- Live in Placerville
- Near the trailer dump station
- Up by a large hill
- Wentzel Camp

Cross-country skiing

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	72	32.3	100.0	100.0
Missing	System	151	67.7		
Total		223	100.0		

Snowshoeing

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	65	29.1	100.0	100.0
Missing	System	158	70.9		
Total		223	100.0		

Photography

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	89	39.9	100.0	100.0
Missing System	134	60.1		
Total	223	100.0		

Snow play

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	83	37.2	100.0	100.0
Missing System	140	62.8		
Total	223	100.0		

Camping

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	60	26.9	100.0	100.0
Missing System	163	73.1		
Total	223	100.0		

Snowmobiling

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	9	4.0	100.0	100.0
Missing System	214	96.0		
Total	223	100.0		

Fishing (lake or reservoir)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	81	36.3	100.0	100.0
Missing System	142	63.7		
Total	223	100.0		

Fishing (stream or river)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	10	4.5	100.0	100.0
Missing System	213	95.5		
Total	223	100.0		

Off-Highway Vehicle Use

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	30	13.5	100.0	100.0
Missing System	193	86.5		
Total	223	100.0		

Whitewater Boating

	Frequency	Percent
Missing System	223	100.0

Wildlife viewing

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	66	29.6	100.0	100.0
Missing System	157	70.4		
Total	223	100.0		

Picknicking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	71	31.8	100.0	100.0
Missing System	152	68.2		
Total	223	100.0		

Hiking/walking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	78	35.0	100.0	100.0
Missing System	145	65.0		
Total	223	100.0		

Other Activity

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	183	82.1	82.1	82.1
ATV w/snow tracks	1	.4	.4	82.5
Bicycling on & off road	1	.4	.4	83.0
Birdwatching	1	.4	.4	83.4
Boating	3	1.3	1.3	84.8
Canoeing	1	.4	.4	85.2
Deer Hunting	1	.4	.4	85.7
Dirt bike on Rubicon Trail in the summer.	1	.4	.4	86.1
Dog walking.	1	.4	.4	86.5
Downhill Skiing	1	.4	.4	87.0
Drinking Beer	1	.4	.4	87.4
Family pet play	1	.4	.4	87.9
Hunting	3	1.3	1.3	89.2
Hunting / Boating	1	.4	.4	89.7
Hunting / Riding				
Motorcycles / Backpacking	1	.4	.4	90.1
Hut stay / solitude	1	.4	.4	90.6
Kayaking	2	.9	.9	91.5
Painting / Reading	1	.4	.4	91.9
Reading & Praying	1	.4	.4	92.4
Relaxation	3	1.3	1.3	93.7
Relaxation in cabin	1	.4	.4	94.2
Rest/relaxation	1	.4	.4	94.6
Rock Crawlers (4x4's) / staying warm/ enjoying the scenery.	1	.4	.4	95.1
Scouting hunting areas	1	.4	.4	95.5
Scuba Dive	1	.4	.4	96.0
Serenity / views	1	.4	.4	96.4
Ski Hut overnights	1	.4	.4	96.9
Sledding & Tubing	1	.4	.4	97.3
Snow Boarding, Sledding	1	.4	.4	97.8
Snow cave digging	1	.4	.4	98.2
Snowboarding	2	.9	.9	99.1
Telemark Skiing	1	.4	.4	99.6
Viewing the waterfall	1	.4	.4	100.0
Total	223	100.0	100.0	

Most Important Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Cross-country skiing	55	24.7	24.7	24.7
	Snowshoeing	31	13.9	13.9	38.6
	Snow Play	18	8.1	8.1	46.6
	Camping	14	6.3	6.3	52.9
	Snowmobiling	5	2.2	2.2	55.2
	Fishing (Lake or Reservoir)	63	28.3	28.3	83.4
	OHV Use	14	6.3	6.3	89.7
	Picnicking	4	1.8	1.8	91.5
	Hiking/Walking	8	3.6	3.6	95.1
	Other	8	3.6	3.6	98.7
	No response	3	1.3	1.3	100.0
	Total	223	100.0	100.0	

2nd Most Important Activity

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Cross-country skiing	7	3.1	3.1	3.1
	Snowshoeing	19	8.5	8.5	11.7
	Photography	22	9.9	9.9	21.5
	Snow Play	26	11.7	11.7	33.2
	Camping	23	10.3	10.3	43.5
	Snowmobiling	1	.4	.4	43.9
	Fishing (Lake or Reservoir)	13	5.8	5.8	49.8
	Fishing (Stream or River)	4	1.8	1.8	51.6
	OHV Use	3	1.3	1.3	52.9
	Wildlife Viewing	17	7.6	7.6	60.5
	Picnicking	21	9.4	9.4	70.0
	Hiking/Walking	21	9.4	9.4	79.4
	Other	19	8.5	8.5	87.9
	No response	27	12.1	12.1	100.0
	Total	223	100.0	100.0	

3rd Most Important Activity

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Cross-country skiing	6	2.7	2.7	2.7
Snowshoeing	6	2.7	2.7	5.4
Photography	27	12.1	12.1	17.5
Snow Play	14	6.3	6.3	23.8
Camping	16	7.2	7.2	30.9
Snowmobiling	1	.4	.4	31.4
Fishing (Lake or Reservoir)	4	1.8	1.8	33.2
OHV Use	8	3.6	3.6	36.8
Wildlife Viewing	20	9.0	9.0	45.7
Picnicking	16	7.2	7.2	52.9
Hiking/Walking	21	9.4	9.4	62.3
Other	14	6.3	6.3	68.6
No response	70	31.4	31.4	100.0
Total	223	100.0	100.0	

How crowded you Felt for Most Important

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Not at all Crowded	197	88.3	88.3	88.3
Slightly Crowded	15	6.7	6.7	95.1
Moderately Crowded	6	2.7	2.7	97.8
Extremely Crowded	2	.9	.9	98.7
N/A	3	1.3	1.3	100.0
Total	223	100.0	100.0	

Are there activities you are unable to participate in?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	31	13.9	13.9	13.9
No	161	72.2	72.2	86.1
Don't Know	26	11.7	11.7	97.8
No response	5	2.2	2.2	100.0
Total	223	100.0	100.0	

Coded List of activities unable to participate

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Snowmobiling	5	2.2	16.1	16.1
	Camping in a campground (not open)	8	3.6	25.8	41.9
	Ice Skating	2	.9	6.5	48.4
	Cross Country Skiing	4	1.8	12.9	61.3
	Hut-to-hut cross country skiing	3	1.3	9.7	71.0
	Fishing at Union Valley Reservoir (ramp closed)	3	1.3	9.7	80.6
	Other	5	2.2	16.1	96.8
	No Response	1	.4	3.2	100.0
	Total	31	13.9	100.0	
Missing	System	192	86.1		
Total		223	100.0		

cuff notes for “other”

Cable Sledding - 5

Hiking - 23

We wanted to stay overnight in the Chalet - It was booked

Larger pullout areas for parking

Plow road to LLR Main Dam - 61

Cross-country skiing or snowshoeing on south side of UV Reservoir (too steep now) - 11

Changes to Loon Lake Chalet

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	27	12.1	12.1	12.1
	No	65	29.1	29.1	41.3
	Don't know	23	10.3	10.3	51.6
	I did not visit the Loon Lake Chalet	105	47.1	47.1	98.7
	No response	3	1.3	1.3	100.0
	Total	223	100.0	100.0	

Coded List of Changes to Loon Lake Chalet

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Flush Toilets	3	1.3	11.1	11.1
	Water / Sink in Bathrooms	3	1.3	11.1	22.2
	Indoor Bathrooms	1	.4	3.7	25.9
	Showers	2	.9	7.4	33.3
	Mirror	1	.4	3.7	37.0
	Info on renting / day use	2	.9	7.4	44.4
	Oven	1	.4	3.7	48.1
	TV / VCR	1	.4	3.7	51.9
	Hot Tub	1	.4	3.7	55.6
	Other	10	4.5	37.0	92.6
	Reduce ice at entrance / parking lot	2	.9	7.4	100.0
	Total	27	12.1	100.0	
Missing	System	196	87.9		
Total		223	100.0		

cuff notes for “other”

Less bears in campgrounds (summer) - 11

Public BBQ area - 23

Open it to snowmobiling - 17

Open to public on holidays - 43

Area not available for most of my use - 23

Access for disabled - 59

Open one day per week – 11

Limit commercial use – 61

One more bathroom - 59

Changes to Parking

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	40	17.9	17.9	17.9
	No	158	70.9	70.9	88.8
	Don't know	14	6.3	6.3	95.1
	No response	11	4.9	4.9	100.0
	Total	223	100.0	100.0	

Coded List of Changes to Parking

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid More / enlarg plowed parking areas-along snow plow route	22	9.9	55.0	55.0
More / enlarge plowed areas-at a campground	5	2.2	12.5	67.5
More / enlarge plowed parking areas-at Robbs Hut	2	.9	5.0	72.5
More / enlarge plowed parking areas-at Loon Lake Res.	2	.9	5.0	77.5
More / enlarge plowed parking areas-at Ice House Res.	4	1.8	10.0	87.5
Other	3	1.3	7.5	95.0
More/enlarge plowed parking area-at Gerle Creek Dam Rd.	1	.4	2.5	97.5
No Response	1	.4	2.5	100.0
Total	40	17.9	100.0	
Missing System	183	82.1		
Total	223	100.0		

cuff notes for "other"

Handicap boat spaces needed. - 23

Signs telling others not to block other vehicles in. - 55

Changes to the Access Road

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	45	20.2	20.2	20.2
No	153	68.6	68.6	88.8
Don't know	14	6.3	6.3	95.1
No response	11	4.9	4.9	100.0
Total	223	100.0	100.0	

Coded List of Changes to Access Road

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Expand roads plowed	2	.9	4.4	4.4
	Snow plow more frequently	4	1.8	8.9	13.3
	More road repairs	6	2.7	13.3	26.7
	Open a campground	6	2.7	13.3	40.0
	Open / plow Sunset Boat Launch	5	2.2	11.1	51.1
	Open more roads	4	1.8	8.9	60.0
	Open / plow Loon Lake Boat Launch	2	.9	4.4	64.4
	Better road signs	2	.9	4.4	68.9
	Reduce ice on roads	4	1.8	8.9	77.8
	More/enlarge plowed parking areas	4	1.8	8.9	86.7
	Other	5	2.2	11.1	97.8
	No Response	1	.4	2.2	100.0
	Total	45	20.2	100.0	
Missing	System	178	79.8		
Total		223	100.0		

Cuff notes for “other”

- Blocked to 4 wheelers. - 5
- Better access - 11
- Open restrooms at Cleveland Corral. - 17
- Need bike lanes - 23
- Close Cheese Camp Rd. after first snow (no OHVs) – 39

Changes to the Winter Sports Trails

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	37	16.6	16.6	16.6
	No	132	59.2	59.2	75.8
	Don't know	42	18.8	18.8	94.6
	No response	12	5.4	5.4	100.0
	Total	223	100.0	100.0	

Coded List of Changes to Winter Sports Trails

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Improve trail markers	8	3.6	21.6	21.6
	Improve trailhead signs	1	.4	2.7	24.3
	More trails	9	4.0	24.3	48.6
	Groomed trails	5	2.2	13.5	62.2
	Provide map of trails	3	1.3	8.1	70.3
	Limit OHVs access	2	.9	5.4	75.7
	Other	6	2.7	16.2	91.9
	More OHV opportunities	3	1.3	8.1	100.0
	Total	37	16.6	100.0	
Missing	System	186	83.4		
Total		223	100.0		

Cuff notes for “other”

- Trails to hill to telemark (telemark hill is not steep enough). - 5
- Signage to unplowed roads that would be good cross-county ski trails. - 15
- Add ski area – 19
- Van Vleck trail-Loon Lake-after campground, needs to be rerouted and improved through chaparral area.
- More warming huts – 55
- Bathrooms - 17

Changes to Winter Recreation in Crystal Basin

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	49	22.0	22.0	22.0
	No	126	56.5	56.5	78.5
	Don't know	34	15.2	15.2	93.7
	No response	14	6.3	6.3	100.0
	Total	223	100.0	100.0	

Coded List of Changes to Winter Recreation in CB

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More warming huts	6	2.7	12.2	12.2
	Open a campground	10	4.5	20.4	32.7
	Improvements for snowmobiling	1	.4	2.0	34.7
	Groomed trails	1	.4	2.0	36.7
	Expand roads plowed	1	.4	2.0	38.8
	Bathroom Improvements	3	1.3	6.1	44.9
	Trash bins	3	1.3	6.1	51.0
	More/enlarge plowed parking areas	2	.9	4.1	55.1
	More OHV opportunities	2	.9	4.1	59.2
	Less OHV opportunities	3	1.3	6.1	65.3
	Other	16	7.2	32.7	98.0
	Unreadable Response	1	.4	2.0	100.0
	Total	49	22.0	100.0	
Missing	System	174	78.0		
Total		223	100.0		

cuff notes for “other”

- Boat docks/launch ramps always open. – 13
- “Organize” parking for snow play areas. - 43
- Date maps and information so visitors can determine how current. - 43
- Keep floating in water year round – boat docks. - 23
- Stock the lake better - didn’t catch any fish. - 23
- Cheaper camping - 23
- Develop “marked” trails around Ice House Area & lower level areas. When the snow is deep & covers signs, it’s easy to get lost or disoriented when leaving the area after dark.
- Provide more snow!
- Safe, designated snow play areas – 43
- We like the limited snowmobiling – 61
- More open gates – 61
- Better boat ramp at Loon Lake – 61
- Not building more campgrounds – 61
- Maintain Robbs Hut and the Chalet as they are – 43
- No snowmobiles on Cheese Camp Rd. - 39

Recreation activities that conflicted with you

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	23	10.3	10.3	10.3
	No	198	88.8	88.8	99.1
	No response	2	.9	.9	100.0
	Total	223	100.0	100.0	

What recreation activities conflicted with you and where

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	OHV-ruts in trails-no specific area given	1	.4	4.3	4.3
	OHV-ruts in trails-Granite Springs Rd.	1	.4	4.3	8.7
	OHV-ruts in trails-Cheese Camp Rd.	2	.9	8.7	17.4
	OHV-ruts in trails-north shore of Loon Lake	2	.9	8.7	26.1
	Not enough parking	2	.9	8.7	34.8
	Snowmobiles-disruption of the peace	2	.9	8.7	43.5
	Timber harvesting-environmental impacts, unattractive	2	.9	8.7	52.2
	Gun shots-noisy, dangerous	3	1.3	13.0	65.2
	Other	8	3.6	34.8	100.0
	Total	23	10.3	100.0	
Missing	System	200	89.7		
	Total	223	100.0		

cuff notes for “other”

Fools parking on boat ramp playing in the snow – causes problems launching boats- 23

Very shallow at Ice House Reservoir.

Getting away from it all – fumes from combustible engines – 23

Renters at the Loon Lake Chalet – their personal items were still scattered about.

Limited camping areas for RV – plow larger areas - 23

Recreation activities causing harm to environment

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	42	18.8	18.8	18.8
	No	171	76.7	76.7	95.5
	Don't know	8	3.6	3.6	99.1
	No response	2	.9	.9	100.0
	Total	223	100.0	100.0	

What recreation activities and what harm was caused

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	OHV-degrades the forest, erosion, air pollution	15	6.7	35.7	35.7
	Snowmobiling-noisy, air pollution	6	2.7	14.3	50.0
	Logging-environmental impacts, unattractive	5	2.2	11.9	61.9
	Litter / human waste	7	3.1	16.7	78.6
	Other	5	2.2	11.9	90.5
	Vehicles parked below high-water mark at IHR	4	1.8	9.5	100.0
	Total	42	18.8	100.0	
	Missing System	181	81.2		
Total		223	100.0		

cuff notes for “other”

- Fishing - fishing should be closed during winter @ Ice House only - 23
- People camping in mobile homes with fires burning on parking lot surface causes damage to parking lot area – 23
- Combustible engines and trash – loss of solitude - 23
- Dogs off leashes – 61
- People tossing cigarettes out the window – 55

Info on Reservations/availability of Loon Lake Chalet

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	adequate	90	40.4	40.4	40.4
	inadequate	10	4.5	4.5	44.8
	never looked for information	121	54.3	54.3	99.1
	No response	2	.9	.9	100.0
	Total	223	100.0	100.0	

Suggestions (reservations Loon Lake Chalet)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	207	92.8	92.8	92.8
Are people allowed to come into the chalet restroom when your renting?	1	.4	.4	93.3
But you should expand the existing one @ make a new one on the other end of the Reservoir.	1	.4	.4	93.7
Great system, don't change it except to add new huts in other areas.	1	.4	.4	94.2
Had no idea Chalet was available.	1	.4	.4	94.6
Have had difficulties in finding an open weekend to rent the Chalet.	1	.4	.4	95.1
I really don't know how to get access-put up in outside by bathrooms or in ski place in Placerville	1	.4	.4	95.5
Less advertisement!	1	.4	.4	96.0
Mailers	1	.4	.4	96.4
More Chalets ~ by the time I checked every weekend was full.	1	.4	.4	96.9
No Comment	3	1.3	1.3	98.2
Place ads where they can be seen.	1	.4	.4	98.7
Pollock Pines would be a good place for brochures about each lake.	1	.4	.4	99.1
Provide literature at gates to snow camping.	1	.4	.4	99.6
Provided by USFS in Camino	1	.4	.4	100.0
Total	223	100.0	100.0	

Info on Trail locations

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	130	58.3	58.3	58.3
inadequate	24	10.8	10.8	69.1
never looked for information	63	28.3	28.3	97.3
No response	6	2.7	2.7	100.0
Total	223	100.0	100.0	

Suggestions (trail locations)

- Advertising about events at Chalet such as EDWSP Open House.
- Better Area Maps
- Better maps to show trails made available on Web.
- Better markings and more specificity on types of trails.
- Could not locate the campsite that is West of the Chalet.
- Didn't see signs to Van Vleck Cabin or Robbs Resort!
- Difficult to find trailheads.
- Good info. at Camino Forest Service, hard to see sign for Zephyr Trail.
- Had to search for winter trail info.
- Have host at Cleveland Corral year round.
- Loon Lake cross country ski markers.
- Map with gate closures marked for winter.
- More detailed info. better markings.
- More marked ski trails
- More signs-trail markers would be nice.
- More Signs
- More xc trail mapping on Ice House Road
- No comment
- Not enough trails.
- Provided by USFS in Camino
- Some markers & signs are vandalized/hard to read.
- Trail location signs needed.
- Trailhead signs (only saw 1)
- USFS cross-country skiing map is good but not current.
- We see a lot of road turn-offs but don't know where they go.
- Website listing - map-under-glass maybe at Cleveland Fire Information turnout.
- When snow is deep & covers signs, it's easy to get lost or disoriented after dark.

Info on Environmental/educational displays

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	103	46.2	46.2	46.2
inadequate	16	7.2	7.2	53.4
never looked for information	97	43.5	43.5	96.9
No response	7	3.1	3.1	100.0
Total	223	100.0	100.0	

Suggestions (environmental/educational displays)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	206	92.4	92.4	92.4
Didn't see any.	1	.4	.4	92.8
Gates to FS Info. Area @ lower part of road should be left open in winter.	1	.4	.4	93.3
I would imagine its hard to keep a sign up?	1	.4	.4	93.7
More Officers	1	.4	.4	94.2
More posters of tree types & area wildlife in cabins would be nice.	1	.4	.4	94.6
More signs stating "Haul it in"/"Haul it out"/"Don't Litter" ~ haul or bury human waste.	1	.4	.4	95.1
Need to be displayed better.	1	.4	.4	95.5
No Comment	5	2.2	2.2	97.8
No Response	1	.4	.4	98.2
Not a priority-I visit area to play.	1	.4	.4	98.7
Provided by USFS in Camino	1	.4	.4	99.1
Wildlife viewing display-hands-on objects for kids on nature.	1	.4	.4	99.6
Winter Brochure	1	.4	.4	100.0
Total	223	100.0	100.0	

Info on Road Conditions

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	158	70.9	70.9	70.9
inadequate	18	8.1	8.1	78.9
never looked for information	41	18.4	18.4	97.3
No response	6	2.7	2.7	100.0
Total	223	100.0	100.0	

Suggestions (road conditions)

Access to Wentworth Springs Road.
 Clear clean roads.
 Close Cheese Camp Road after first snow to off-road vehicle activity.
 Dirt road to far end of Ice House Lake very deeply rutted in summer.
 Except Union Valley.
 Guard rails, snow removal, more open gates.
 Hard to find road information in winter!
 More parking off road in snow.
 More signs @ Ice House, Ranger Station, Chalet & near HWY 50.
 More turn-outs could be plowed for parking.
 Needs improvement in some areas.
 No comment (2)
 Nobody knows if you can launch or not at lakes.
 Notice close to 50 about icy roads.
 Phone # for Ice House Road Construction
 Please plow campground areas.
 Plow into Union Valley.
 Plow weekends as necessary; plow more parking areas.
 Plowed
 Post larger more visible signs as to snow related road closures.
 Provided by USFS in Camino
 Road is always plowed.
 Sand on icy areas.
 Too many gates on what little access roads there are.
 Wrights Lake road - ball joint destroyer.

Info on Other

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	14	6.3	6.3	6.3
inadequate	22	9.9	9.9	16.1
never looked for information	18	8.1	8.1	24.2
No response	169	75.8	75.8	100.0
Total	223	100.0	100.0	

Suggestions (other)

Campgrounds should be open if road is open.
 Car broken into at Loon Lake back country parking.
 Chalet Open House-I would like to have more open houses with information on snow activities.
 Crystal Basin information area could be open in winter as well as summer.
 Explanation of improvements as Bassi Creek.
 Extend boat ramps for better low water access during the winter.
 Keep motorized boats off Loon Lake.
 Leave bathrooms unlocked (important).
 Notice of which trails are snowmobile vs. skiing
 Often crowded during summer ~ additional reservoirs for water & recreation.
 Parking sign for campground exit that is plowed to gate-people always block you
 Post signs at beginning of Ice House Rd. - Snow or Ice on roads.
 Proper food storage directions to keep bears out.
 Put a "date" on all maps and info. sheets.
 Put in more roads around parameter lake water access.
 Road camping is not safe due to vehicle traffic and pedestrian traffic.
 Road signs larger, newer, more visible for major destinations & junctions.
 Robbs Hut.
 Safety-more Forest Service & Sheriff Patrols.
 Snow conditions-exactly what to expect trail-wise.
 Snow depth & elevation - website? Link to "ski conditions" search.
 The Rubicon should be open to all, not just a club.
 Toilets.
 Weather conditions-notes on the board were a week old.
 You did a great job of clearing the road - very nice.

Willing to be contacted for future studies

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	150	67.3	67.3	67.3
no	52	23.3	23.3	90.6
No response	21	9.4	9.4	100.0
Total	223	100.0	100.0	

Day of the Week

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Sunday	104	46.6	46.6	46.6
Tuesday	16	7.2	7.2	53.8
Wednesday	15	6.7	6.7	60.5
Friday	25	11.2	11.2	71.7
Saturday	63	28.3	28.3	100.0
Total	223	100.0	100.0	

Month of Interview

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	January	92	41.3	41.3	41.3
	February	49	22.0	22.0	63.2
	March	73	32.7	32.7	96.0
	December	9	4.0	4.0	100.0
	Total	223	100.0	100.0	

General Comments:

Fishing was my most important activity - It was very very cool!!
 Great job by SMUD in supplying great campground/Loon Lake/Desolation Crystal Range access.
 Great job on plowing the roadway!
 I 4-wheel all over the area from Hwy 50 to Georgetown.
 I am also looking to do some overnight packing in the future ~ Thank you.
 I am interested in fishing, have concerns about boating during the summer & fall-top end of Ice House.
 I don't mind being contacted but I doubt if I would be much help.
 I have used this area most of my life and appreciate the use of it. I always pack out extra trash to keep it clean.
 I hope someone responds to what I have said in this survey - ya don't get many opportunities to speak your mind, I thank you!
 I took this off of someone else's car, because I keep not getting the survey since I arrive at 2:30 – 3:00.
 I would like to visit Loon Lake Chalet & Van Vleck Cabin. I would love to see the lookout also available in winter for sleeping.
 Judging by the tracks in the snow it seems to me that everybody really respects the area, especially the Pirates of the Rubicon.
 My family & I appreciate the recreational activities provided by SMUD.
 My son-in-law recommended to go to your area for our boys. He was correct. It was a wonderful experience. Thanks
 Note: I filled out a smaller survey inside the chalet before I found this on my windshield.
 Of course! I love this area winter or summer.
 On our way out this day, we were also intercepted by the FS and completed their forest use survey.
 Thank you for caring.
 Thank you for taking time to ask!
 Thank you for your interest in those of us who enjoy & care about this beautiful, wonderful place!
 Thanks for plowing the roads. Use my \$5 for gas money for the snowplows.
 Thanks for the opportunity to give some input.
 This was my first winter trip, am planning on returning to check out all 3 lakes for hiking, etc.
 Trail arrows to Robbs Hut were GREAT!! Robbs Hut hike is better in winter.
 We always go to Crystal Basin & plan on more trips this year.
 We appreciate your efforts.
 We are starting to look for more environmentally friendly snow sports. Where else can we go within CB?
 We did not visit Loon Lake this visit but rent the Chalet annually ~ Loon Lake is great!
 We do not do any winter activities. This is our first trip to go fishing in the winter time. You folks do such a good job.
 We had a great time-we'll be back! We have fished Loon Lake in late summer for years-never in

winter.

We looked all over for winter snow camping ~ this was our first year due to lack of winter areas.
We were surveyed @ Gerle Creek summer 2002.

Whatever I can do to help.

With the opening of Van Vleck to x-country skiers, you have vastly improved our desire to
overnight.

Wrong time of year for city people to even try to fish, these reservoirs are pristine and I think
should stay that way.

Your welcome!!

Note: For results on “Other areas in Crystal Basin for winter activities” and “Areas beyond the
Crystal Basin for similar experiences” survey questions, SMUD will attempt to prepare an
electronic scatter mapping of areas identified.

Appendix C.6.2 Frequencies – Winter Chalet

This compilation presents the results of self-administered surveys focusing on the Loon Lake Chalet made available inside the Chalet during the 2002-03 winter season. A total of 51 surveys were completed.

The results are contained in frequency and percentage tables. The order of presentation follows the order that the questions are displayed in the survey instrument, contained in Appendix B.

Zip Recoded

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid El Dorado County	17	33.3	33.3	33.3
Sacramento County	15	29.4	29.4	62.7
Yolo County	1	2.0	2.0	64.7
Bay Area	14	27.5	27.5	92.2
Northern California	1	2.0	2.0	94.1
Coast	1	2.0	2.0	96.1
Central Valley	1	2.0	2.0	98.0
Out of State	1	2.0	2.0	100.0
Total	51	100.0	100.0	

Month of Interview

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid January	33	64.7	64.7	64.7
February	9	17.6	17.6	82.4
March	7	13.7	13.7	96.1
December	2	3.9	3.9	100.0
Total	51	100.0	100.0	

Day of week

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Sunday	19	37.3	37.3	37.3
	Monday	5	9.8	9.8	47.1
	Tuesday	6	11.8	11.8	58.8
	Wednesday	1	2.0	2.0	60.8
	Thursday	2	3.9	3.9	64.7
	Friday	5	9.8	9.8	74.5
	Saturday	12	23.5	23.5	98.0
	No response	1	2.0	2.0	100.0
	Total	51	100.0	100.0	

Gender

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	29	56.9	56.9	56.9
	Female	22	43.1	43.1	100.0
	Total	51	100.0	100.0	

Yrs Visiting Loon Lake Chalet

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	First Visit	14	27.5	27.5	27.5
	1	4	7.8	7.8	35.3
	2	7	13.7	13.7	49.0
	3	2	3.9	3.9	52.9
	4	4	7.8	7.8	60.8
	5	2	3.9	3.9	64.7
	6	2	3.9	3.9	68.6
	7	1	2.0	2.0	70.6
	8	3	5.9	5.9	76.5
	9	2	3.9	3.9	80.4
	11-15	8	15.7	15.7	96.1
	16 or more	2	3.9	3.9	100.0
	Total	51	100.0	100.0	

How Many Visits Last Winter

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	none	29	56.9	56.9	56.9
	1	12	23.5	23.5	80.4
	2	4	7.8	7.8	88.2
	3	2	3.9	3.9	92.2
	5	1	2.0	2.0	94.1
	6	1	2.0	2.0	96.1
	10	1	2.0	2.0	98.0
	16 or more	1	2.0	2.0	100.0
	Total	51	100.0	100.0	

Day or Overnight

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Day Trip	18	35.3	35.3	35.3
	Staying Overnight	33	64.7	64.7	100.0
	Total	51	100.0	100.0	

Hours of Day Trip

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	1	2.0	5.6	5.6
	3	2	3.9	11.1	16.7
	4	3	5.9	16.7	33.3
	5	4	7.8	22.2	55.6
	6	3	5.9	16.7	72.2
	8	3	5.9	16.7	88.9
	No response	2	3.9	11.1	100.0
	Total	18	35.3	100.0	
Missing	System	33	64.7		
	Total	51	100.0		

of Nights

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 night	9	17.6	27.3	27.3
	2 nights	13	25.5	39.4	66.7
	3 nights	6	11.8	18.2	84.8
	4 nights	2	3.9	6.1	90.9
	7 nights	1	2.0	3.0	93.9
	No response	2	3.9	6.1	100.0
	Total	33	64.7	100.0	
Missing	System	18	35.3		
Total		51	100.0		

Where Staying Overnight "Chalet or Other"

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Inside the Chalet	22	43.1	66.7	66.7
	Other	9	17.6	27.3	93.9
	No Response	2	3.9	6.1	100.0
	Total	33	64.7	100.0	
Missing	System	18	35.3		
Total		51	100.0		

List Of Other Overnight Locations

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Loon Lake Reservoir Area	1	2.0	11.1	11.1
	Hut-to-Hut (e.g., Robbs, Van Vleck, Chalet)	1	2.0	11.1	22.2
	Location not given - snow camping	7	13.7	77.8	100.0
	Total	9	17.6	100.0	
Missing	System	42	82.4		
Total		51	100.0		

Changes to Loon Lake Chalet

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	34	66.7	66.7	66.7
	No	11	21.6	21.6	88.2
	Don't know	5	9.8	9.8	98.0
	No response	1	2.0	2.0	100.0
	Total	51	100.0	100.0	

What Changes to Loon Lake Chalet (1, max 3)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Cleaner Bathrooms	1	2.0	2.9	2.9
	Flush Toilets	2	3.9	5.9	8.8
	Indoor Bathrooms	1	2.0	2.9	11.8
	Showers	2	3.9	5.9	17.6
	Mirror	1	2.0	2.9	20.6
	Ceiling Fans	2	3.9	5.9	26.5
	Oven	2	3.9	5.9	32.4
	Telephone/Pay Phone	3	5.9	8.8	41.2
	Electricity/Outlets in Loft	2	3.9	5.9	47.1
	Radio	2	3.9	5.9	52.9
	TV / VCR	1	2.0	2.9	55.9
	Hot Tub	2	3.9	5.9	61.8
	Other	13	25.5	38.2	100.0
	Total	34	66.7	100.0	
Missing	System	17	33.3		
Total		51	100.0		

What Changes to Loon Lake Chalet (2, max 3)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Showers	3	5.9	30.0	30.0
	Oven	2	3.9	20.0	50.0
	TV / VCR	1	2.0	10.0	60.0
	Other	4	7.8	40.0	100.0
	Total	10	19.6	100.0	
Missing	System	41	80.4		
Total		51	100.0		

What Changes to Loon Lake Chalet (3, max 3)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Radio	1	2.0	25.0	25.0
	Other	3	5.9	75.0	100.0
	Total	4	7.8	100.0	
Missing	System	47	92.2		
Total		51	100.0		

Info on Reservations/availability of LL Chalet

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid adequate	36	70.6	70.6	70.6
inadequate	10	19.6	19.6	90.2
never looked for information	5	9.8	9.8	100.0
Total	51	100.0	100.0	

Suggestions (reservations Loon Lake Chalet)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Website Improvements	1	2.0	10.0	10.0
Simplify Reservation Process	4	7.8	40.0	50.0
More Advertisement	2	3.9	20.0	70.0
Improve Road Signs	1	2.0	10.0	80.0
Other	2	3.9	20.0	100.0
Total	10	19.6	100.0	
Missing System	41	80.4		
Total	51	100.0		

Note: For results on “Areas beyond the Crystal Basin for similar experiences” survey question, SMUD will attempt to prepare an electronic scatter mapping of areas identified.

Areas Beyond the Crystal Basin (1, max 3)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	6	11.8	11.8	11.8
Bear Valley	2	3.9	3.9	15.7
Bradley Hut	1	2.0	2.0	17.6
Carson Pass	4	7.8	7.8	25.5
Dodge Ridge	1	2.0	2.0	27.5
Don't go anywhere	1	2.0	2.0	29.4
Donner Summit	2	3.9	3.9	33.3
Echo Lake	1	2.0	2.0	35.3
Echo Pass	1	2.0	2.0	37.3
Echo Summit	4	7.8	7.8	45.1
First Winter Experience	1	2.0	2.0	47.1
Hope Valley	1	2.0	2.0	49.0
Hume Lake	2	3.9	3.9	52.9
Hwy Sno-Parks	1	2.0	2.0	54.9
Kirkwood	1	2.0	2.0	56.9
Lake Tahoe	4	7.8	7.8	64.7
Mt. Shasta	1	2.0	2.0	66.7
N/A	3	5.9	5.9	72.5
None	1	2.0	2.0	74.5
Northstar	1	2.0	2.0	76.5
Only here	1	2.0	2.0	78.4
Own Ranch	1	2.0	2.0	80.4
Royal Gorge	1	2.0	2.0	82.4
Salt Springs Reservoir	1	2.0	2.0	84.3
Sequoia National Park	1	2.0	2.0	86.3
Soda Springs	1	2.0	2.0	88.2
Son goes to Yosemite	1	2.0	2.0	90.2
Tahoe National Forest	1	2.0	2.0	92.2
Tahoma	1	2.0	2.0	94.1
Too new to area	1	2.0	2.0	96.1
Truckee	1	2.0	2.0	98.0
We haven't	1	2.0	2.0	100.0
Total	51	100.0	100.0	

Areas Beyond the Crystal Basin (2, max 3)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	25	49.0	49.0	49.0
Carson Pass	3	5.9	5.9	54.9
Clair Tappan	2	3.9	3.9	58.8
Donner Pass	1	2.0	2.0	60.8
Echo Lakes	1	2.0	2.0	62.7
Echo Summit	3	5.9	5.9	68.6
Echo Summit Snow Park	1	2.0	2.0	70.6
Hope to do more soon	1	2.0	2.0	72.5
Hope Valley	2	3.9	3.9	76.5
Incline Village	1	2.0	2.0	78.4
Lake Tahoe	3	5.9	5.9	84.3
Oltu Meadows Reservoir	1	2.0	2.0	86.3
Ostrander Hut	1	2.0	2.0	88.2
Scout Peak	1	2.0	2.0	90.2
Sly Park	1	2.0	2.0	92.2
Soda Springs	1	2.0	2.0	94.1
Yosemite	3	5.9	5.9	100.0
Total	51	100.0	100.0	

Areas Beyond the Crystal Basin (3, max 3)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	36	70.6	70.6	70.6
Carson Pass	3	5.9	5.9	76.5
Donner Pass	1	2.0	2.0	78.4
Echo Summit	1	2.0	2.0	80.4
Hutchinson	1	2.0	2.0	82.4
Hutchinson Lodges	1	2.0	2.0	84.3
Kirkwood	1	2.0	2.0	86.3
Mt. Lassen	1	2.0	2.0	88.2
Red's Lake Area	1	2.0	2.0	90.2
Reno	1	2.0	2.0	92.2
Royal Gorge	2	3.9	3.9	96.1
Steephollow	1	2.0	2.0	98.0
Yosemite	1	2.0	2.0	100.0
Total	51	100.0	100.0	

Willing to be contacted for future studies

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid yes	28	54.9	54.9	54.9
no	17	33.3	33.3	88.2
No response	6	11.8	11.8	100.0
Total	51	100.0	100.0	

C.7.2 Creel Frequencies – Qualitative Data - Spring and Fall 2004

Season					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Spring	186	91.2	91.2	91.2
	Fall	18	8.8	8.8	100.0
	Total	204	100.0	100.0	

Reservoir					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House	87	42.6	42.6	42.6
	Union Valley	71	34.8	34.8	77.5
	Loon Lake	46	22.5	22.5	100.0
	Total	204	100.0	100.0	

Specific Ramp area					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House BL	87	42.6	42.6	42.6
	Sunset BL	31	15.2	15.2	57.8
	West Point BL	40	19.6	19.6	77.5
	Loon Lake BL	46	22.5	22.5	100.0
	Total	204	100.0	100.0	

Angler Type					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Boat	125	61.3	61.3	61.3
	Shore	76	37.3	37.3	98.5
	No response	3	1.5	1.5	100.0
	Total	204	100.0	100.0	

		Date			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	03/28/04	11	5.4	5.4	5.4
	04/03/04	9	4.4	4.4	9.8
	04/04/04	13	6.4	6.4	16.2
	04/10/04	10	4.9	4.9	21.1
	04/24/04	8	3.9	3.9	25.0
	04/25/04	7	3.4	3.4	28.4
	05/02/04	6	2.9	2.9	31.4
	05/03/04	3	1.5	1.5	32.8
	05/04/04	2	1.0	1.0	33.8
	05/06/04	4	2.0	2.0	35.8
	05/08/04	5	2.5	2.5	38.2
	05/09/04	9	4.4	4.4	42.6
	05/10/04	4	2.0	2.0	44.6
	05/14/04	4	2.0	2.0	46.6
	05/15/04	8	3.9	3.9	50.5
	05/17/04	3	1.5	1.5	52.0
	05/18/04	4	2.0	2.0	53.9
	05/21/04	5	2.5	2.5	56.4
	05/30/04	14	6.9	6.9	63.2
	06/01/04	6	2.9	2.9	66.2
	06/04/04	6	2.9	2.9	69.1
	06/05/04	8	3.9	3.9	73.0
	06/10/04	6	2.9	2.9	76.0
	06/12/04	10	4.9	4.9	80.9
	06/13/04	6	2.9	2.9	83.8
	06/14/04	4	2.0	2.0	85.8
	06/20/04	6	2.9	2.9	88.7
	06/29/04	3	1.5	1.5	90.2
	06/30/04	2	1.0	1.0	91.2
	09/25/04	3	1.5	1.5	92.6
	09/26/04	4	2.0	2.0	94.6
	10/09/04	3	1.5	1.5	96.1
10/10/04	2	1.0	1.0	97.1	
10/23/04	3	1.5	1.5	98.5	
10/24/04	2	1.0	1.0	99.5	
10/30/04	1	.5	.5	100.0	
Total		204	100.0	100.0	

Day of the Week					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Sunday	79	38.7	38.7	38.7
	Monday	14	6.9	6.9	45.6
	Tuesday	15	7.4	7.4	52.9
	Wednesday	2	1.0	1.0	53.9
	Thursday	10	4.9	4.9	58.8
	Friday	15	7.4	7.4	66.2
	Saturday	69	33.8	33.8	100.0
	Total	204	100.0	100.0	

Gender					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	179	87.7	87.7	87.7
	Female	18	8.8	8.8	96.6
	No response	7	3.4	3.4	100.0
	Total	204	100.0	100.0	

Satisfied with Fishing Experience today?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	174	85.3	85.3	85.3
	no	27	13.2	13.2	98.5
	No Opinion	1	.5	.5	99.0
	No response	2	1.0	1.0	100.0
	Total	204	100.0	100.0	

If no, why?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		177	86.8	86.8	86.8
	Because I didn't catch anything.	1	.5	.5	87.3
	But more fish are needed.	1	.5	.5	87.7
	Did not catch enough fish.	1	.5	.5	88.2
	Didn't catch any fish.	1	.5	.5	88.7
	Enjoyed the facilities; fishing not so good.	1	.5	.5	89.2
	Have not caught anything yet.	1	.5	.5	89.7
	I'm not catching anything.	1	.5	.5	90.2

I caught no fish.	3	1.5	1.5	91.7
I didn't catch any fish.	1	.5	.5	92.2
I haven't caught any fish yet.	1	.5	.5	92.6
I haven't had a single hit.	1	.5	.5	93.1
I wish the fish were bigger and more of them.	1	.5	.5	93.6
It was okay, but they shouldn't allow jet skiers in the lake.	1	.5	.5	94.1
More and bigger fish.	1	.5	.5	94.6
No fish.	1	.5	.5	95.1
Not enough water.	1	.5	.5	95.6
Not yet.	1	.5	.5	96.1
Not yet. Being here is good; catching is a bonus.	1	.5	.5	96.6
The water is too high and I'm not catching any fish.	1	.5	.5	97.1
There are no fish.	1	.5	.5	97.5
There is no fish.	1	.5	.5	98.0
There needs to be more and bigger fish.	1	.5	.5	98.5
Water temperature too cold for fishing right now.	1	.5	.5	99.0
We were counting on a little better weather.	1	.5	.5	99.5
Working with kids.	1	.5	.5	100.0
Total	204	100.0	100.0	

Are improvements needed to make access to shorelines easier?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	29	14.2	14.2	14.2
	No	172	84.3	84.3	98.5
	No Opinion	1	.5	.5	99.0
	No response	2	1.0	1.0	100.0
	Total	204	100.0	100.0	

Are improvements needed to make access to shorelines safer?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	13	6.4	6.4	6.4
	No	189	92.6	92.6	99.0
	No response	2	1.0	1.0	100.0
	Total	204	100.0	100.0	

Are improvements needed to make access to shorelines more enjoyable?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	26	12.7	12.7	12.7
	No	176	86.3	86.3	99.0
	No response	2	1.0	1.0	100.0
	Total	204	100.0	100.0	

Are improvements needed to make access to shorelines easier, safer, OR more enjoyable?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	At least one yes in 12a,b,c	54	26.5	26.5	26.5
	No	148	72.5	72.5	99.0
	No response	2	1.0	1.0	100.0
	Total	204	100.0	100.0	

Coded list of changes to shorelines (1 of Max 4)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More docks	1	.5	3.2	3.2
	Make improvements for seniors or disabled	2	1.0	6.5	9.7
	Keep water levels up	1	.5	3.2	12.9
	More sand/Less rocks	1	.5	3.2	16.1
	Pave trail to shoreline	1	.5	3.2	19.4
	More fish	1	.5	3.2	22.6
	Greater road access	3	1.5	9.7	32.3
	More boat ramps	1	.5	3.2	35.5
	Put dock in water sooner	7	3.4	22.6	58.1
	More trails	1	.5	3.2	61.3
	Enlarge/Modify boat ramp	3	1.5	9.7	71.0
	Trail from campground to shore	1	.5	3.2	74.2
	Improve roads	1	.5	3.2	77.4
	Don't allow parking by boat launch.	1	.5	3.2	80.6
	Cleaner bathrooms	1	.5	3.2	83.9
	More access to shoreline	3	1.5	9.7	93.5
	Improve access to lake from parking lot	1	.5	3.2	96.8
	Rail on floating dock	1	.5	3.2	100.0
Total		31	15.2	100.0	

Missing System	173	84.8		
Total	204	100.0		

Coded list of changes to shorelines (2 of Max 4)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Make improvements for seniors or disabled	3	1.5	17.6	17.6
	More fish	1	.5	5.9	23.5
	Put dock in water sooner	1	.5	5.9	29.4
	Better regulate speeds on access roads	1	.5	5.9	35.3
	Put no parking signs by the dirt area around boat launch	1	.5	5.9	41.2
	More trails	1	.5	5.9	47.1
	Widen the ramp	1	.5	5.9	52.9
	Put up no shooting signs	1	.5	5.9	58.8
	Inprove roads.	1	.5	5.9	64.7
	Control number of people	1	.5	5.9	70.6
	More access to shoreline	1	.5	5.9	76.5
	5 mph boat speed limit near ramp	1	.5	5.9	82.4
	Mark the rocks	1	.5	5.9	88.2
	Handicap parking on dock is hard when water is low.	1	.5	5.9	94.1
	No response	1	.5	5.9	100.0
Total	17	8.3	100.0		
Missing System	187	91.7			
Total	204	100.0			

Coded list of changes to shorelines (3 of Max 4)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More sand/Less rocks	2	1.0	8.0	8.0
	More picnic or day-use areas	1	.5	4.0	12.0
	More fish	6	2.9	24.0	36.0
	Closer parking	1	.5	4.0	40.0
	More trails	2	1.0	8.0	48.0
	Put in a snack bar	2	1.0	8.0	56.0
	Bigger fish	2	1.0	8.0	64.0
	Put up no shooting signs	1	.5	4.0	68.0
	Don't allow jet skiers on lake.	1	.5	4.0	72.0
	Put in more trash cans.	1	.5	4.0	76.0

	Erect 'pick up your trash' signs.	1	.5	4.0	80.0
	Improve the bathrooms	1	.5	4.0	84.0
	Control number of people	1	.5	4.0	88.0
	Provide law enforcement	1	.5	4.0	92.0
	Build showers	1	.5	4.0	96.0
	Clean up the area more.	1	.5	4.0	100.0
	Total	25	12.3	100.0	
Missing	System	179	87.7		
Total		204	100.0		

Did water level allow you to participate in activities?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	194	95.1	95.1	95.1
	No	5	2.5	2.5	97.5
	No Opinion	1	.5	.5	98.0
	No response	4	2.0	2.0	100.0
	Total	204	100.0	100.0	

To what degree did water level impact?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Minimal	2	1.0	40.0	40.0
	Moderate	2	1.0	40.0	80.0
	Significant	1	.5	20.0	100.0
	Total	5	2.5	100.0	
Missing	System	199	97.5		
Total		204	100.0		

What impacts and how did it affect your trip?					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		199	97.5	97.5	97.5
	I just like it when there is more water.	1	.5	.5	98.0
	Reservoir is too high and fishing just not that great when reservoir is full.	1	.5	.5	98.5
	Water too high which makes it difficult to catch fish.	1	.5	.5	99.0
	Water was too high; not able to access normal fishing area.	1	.5	.5	99.5
	Water was too high; not able to access normal fishing site.	1	.5	.5	100.0

Total	204	100.0	100.0
--------------	-----	-------	-------

		Zip by County			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	El Dorado County	98	48.0	48.0	48.0
	Sacramento County	71	34.8	34.8	82.8
	Placer County	10	4.9	4.9	87.7
	Yolo County	3	1.5	1.5	89.2
	Bay Area	11	5.4	5.4	94.6
	Northern California	4	2.0	2.0	96.6
	Central Valley	4	2.0	2.0	98.5
	Out of State	1	.5	.5	99.0
	No response	2	1.0	1.0	100.0
	Total	204	100.0	100.0	

C.7.3 Creel crosstab by reservoir

Season * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Season	Spring	82	63	41	186
	Fall	5	8	5	18
Total		87	71	46	204

Specific Ramp area * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Specific Ramp area	Ice House BL	87			87
	Sunset BL		31		31
	West Point BL		40		40
	Loon Lake BL			46	46
Total		87	71	46	204

Angler Type * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Angler Type	Boat	44	51	30	125
	Shore	43	20	13	76
	No response			3	3
Total		87	71	46	204

Date * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Date	03/28/04	9	2		11
	04/03/04	5	4		9
	04/04/04	8	5		13

04/10/04	5	5		10
04/24/04	4	4		8
04/25/04	4	3		7
05/02/04	4		2	6
05/03/04		2	1	3
05/04/04	2			2
05/06/04		3	1	4
05/08/04		3	2	5
05/09/04	8		1	9
05/10/04	2	2		4
05/14/04	4			4
05/15/04	5		3	8
05/17/04		2	1	3
05/18/04	3		1	4
05/21/04	3		2	5
05/30/04			14	14
06/01/04	3	3		6
06/04/04	3	3		6
06/05/04		3	5	8
06/10/04		3	3	6
06/12/04	5	5		10
06/13/04	3	3		6
06/14/04		2	2	4
06/20/04		4	2	6
06/29/04	1	2		3
06/30/04	1		1	2
09/25/04		3		3
09/26/04			4	4
10/09/04	2		1	3
10/10/04		2		2
10/23/04	2	1		3
10/24/04		2		2
10/30/04	1			1
Total	87	71	46	204

Day of the Week * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Day of the Week	Sunday	36	21	22	79
	Monday	2	8	4	14
	Tuesday	9	5	1	15
	Wednesday	1		1	2
	Thursday		6	4	10
	Friday	10	3	2	15
	Saturday	29	28	12	69
Total		87	71	46	204

Gender * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Gender	Male	75	65	39	179
	Female	11	5	2	18
	No response	1	1	5	7
Total		87	71	46	204

Interviewer Initials * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Interviewer Initials	John Billet	81	59	24	164
	Justin Klaurens	6	9	19	34
	Matthew Paquette		3	3	6
Total		87	71	46	204

Satisfied with Fishing Experience today? * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Satisfied with Fishing Experience today?	yes	74	62	38	174
	no	12	9	6	27
	No Opinion	1			1
	No response			2	2
Total		87	71	46	204

If no, why? * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
If no, why?		75	63	39	177
	Because I didn't catch anything.	1			1
	But more fish are needed.			1	1
	Did not catch enough fish.	1			1
	Didn't catch any fish.	1			1
	Enjoyed the facilities; fishing not so good.			1	1
	Have not caught anything yet.			1	1
	I caught no fish.	3			3
	I didn't catch any fish.		1		1
	I haven't caught any fish yet.	1			1
	I haven't had a single hit.	1			1
	I wish the fish were bigger and more of them.	1			1
	I'm not catching anything.		1		1
	It was okay, but they shouldn't allow jet skiers in the lake.		1		1
	More and bigger fish.		1		1
	No fish.			1	1
	Not enough water.		1		1
	Not yet.			1	1
	Not yet. Being here is good; catching is a bonus.			1	1
	The water is too high and I'm not catching any fish.		1		1
There are no fish.		1		1	

	There is no fish.	1			1
	There needs to be more and bigger fish.	1			1
	Water temperature too cold for fishing right now.	1			1
	We were counting on a little better weather.		1		1
	Working with kids.			1	1
Total		87	71	46	204

Are improvements needed to make access to shorelines easier? * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Are improvements needed to make access to shorelines easier?	Yes	22	3	4	29
	No	65	67	40	172
	No Opinion		1		1
	No response			2	2
Total		87	71	46	204

Are improvements needed to make access to shorelines safer? * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Are improvements needed to make access to shorelines safer?	Yes	3	5	5	13
	No	84	66	39	189
	No response			2	2
Total		87	71	46	204

Are improvements needed to make access to shorelines more enjoyable? * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Are improvements needed to make access to shorelines more enjoyable?	Yes	12	6	8	26
	No	75	65	36	176
	No response			2	2
Total		87	71	46	204

Are improvements needed to make access to shorelines easier, safer, OR more enjoyable? *					
Reservoir Crosstabulation					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Are improvements needed to make access to shorelines easier, safer, OR more enjoyable?	At least one yes in 12a,b,c	30	12	12	54
	No	57	59	32	148
	No response			2	2
Total		87	71	46	204

Coded list of changes to shorelines (1 of Max 4) * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Coded list of changes to shorelines (1 of Max 4)	More docks			1	1
	Make improvements for seniors or disabled	2			2
	Keep water levels up	1			1
	More sand/Less rocks			1	1
	Pave trail to shoreline	1			1
	More fish	1			1
	Greater road access	3			3
	More boat ramps	1			1
	Put dock in water sooner	7			7
	More trails	1			1
	Enlarge/Modify boat ramp	1	2		3
	Trail from campground to shore		1		1
	Improve roads	1			1
	Don't allow parking by boat launch.	1			1
	Cleaner bathrooms	1			1
	More access to shoreline	1		2	3
	Improve access to lake from parking lot	1			1
Rail on floating dock	1			1	
Total		24	3	4	31

Coded list of changes to shorelines (2 of Max 4) * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Coded list of changes to shorelines (2 of Max 4)	Make improvements for seniors or disabled			3	3
	More fish	1			1
	Put dock in water sooner	1			1
	Better regulate speeds on access roads	1			1
	Put no parking signs by the dirt area around boat launch	1			1
	More trails		1		1
	Widen the ramp		1		1
	Put up no shooting signs		1		1
	Improve roads.			1	1
	Control number of people			1	1
	More access to shoreline	1			1
	5 mph boat speed limit near ramp			1	1
	Mark the rocks		1		1
	Handicap parking on dock is hard when water is low.		1		1
No response		1		1	
Total		5	6	6	17

Coded list of changes to shorelines (3 of Max 4) * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Coded list of changes to shorelines (3 of Max 4)	More sand/Less rocks		1	1	2
	More picnic or day-use areas		1		1
	More fish	3	1	2	6
	Closer parking	1			1
	More trails	1	1		2
	Put in a snack bar	1		1	2
	Bigger fish	1	1		2
	Put up no shooting signs		1		1

	Don't allow jet skiers on lake.	1			1
	Put in more trash cans.	1			1
	Erect 'pick up your trash' signs.	1			1
	Improve the bathrooms			1	1
	Control number of people			1	1
	Provide law enforcement			1	1
	Build showers			1	1
	Clean up the area more.		1		1
Total		10	7	8	25

Did water level allow you to participate in activities? * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Did water level allow you to participate in activities?	Yes	85	71	38	194
	No	1		4	5
	No Opinion	1			1
	No response			4	4
Total		87	71	46	204

To what degree did water level impact? * Reservoir Crosstabulation				
Count				
		Reservoir		Total
		Ice House	Loon Lake	
To what degree did water level impact?	Minimal	1	1	2
	Moderate		2	2
	Significant		1	1
Total		1	4	5

What impacts and how did it affect your trip? * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
What impacts and how		86	71	42	199

did it affect your trip?	I just like it when there is more water.	1			1
	Reservoir is too high and fishing just not that great when reservoir is full.			1	1
	Water too high which makes it difficult to catch fish.			1	1
	Water was too high; not able to access normal fishing area.			1	1
	Water was too high; not able to access normal fishing site.			1	1
Total		87	71	46	204

Zip by County * Reservoir Crosstabulation					
Count					
		Reservoir			Total
		Ice House	Union Valley	Loon Lake	
Zip by County	El Dorado County	42	41	15	98
	Sacramento County	31	21	19	71
	Placer County	2	4	4	10
	Yolo County	2		1	3
	Bay Area	7	2	2	11
	Northern California	3		1	4
	Central Valley		3	1	4
	Out of State			1	1
	No response			2	2
Total		87	71	46	204

General Information

	Name	City/Zip	Gender	Experience yrs.	Fishing Days per year	Species Preference	Tackle Preference	Season Preference	Day Preference	Time Preference	Typical Group Size	Important stream Attributes
1	Bob Macy	Placerville, CA 955667	Male	30	6-10	Trout	Fly	May-July Sept Flow Dependent	None	10am-4pm	1-2	Fishing Success River Aesthetics Access
2	Dr. Michael Matus	Pollock Pine, 95726	Male	35	11-15	Trout	Fly	May-Oct	Weekends Mon,Thurs	Weekends All Day Mon,Thurs Evenings	1-2	Fishing Success River Aesthetics
3	Monte Hendricks	Pollock Pines, 95726	Male	30	20+	Trout	Fly	April-Nov	Weekends		1-2	River Aesthetics Wild Trout
4	John Murphy	Edorado Hills 95762	Male	40	20+	Trout	Fly, Bait	July- Oct	Mid-Week	None	1-2	Fishing Success River Aesthetics Solitude
5	Chris Schnaidt	Cameron Park, CA 95628	Male	38	20+	Trout	Spin	April-Nov	Mid-Week	Evenings Some	1-2	Fishing Success River Aesthetics Access
6	Bill Felts	Fair Oaks, CA 95628	Male	10	6-10	Trout	Fly	May- Sept	Weekends	None	1-2	River Aesthetics Access Stable Flows
7	Bob Oswald	Camino CA95709	Male	45	20+	Trout	Fly	April-Nov	Thurs-Fri	None	1-2	Fishing Success River Aesthetics Access
8	Rich Trimble	Sacramento, CA 95815	Male	40	16-20	Trout	Fly	May-Oct	Mid-Week	None	3-5	Fishing Success River Aesthetics Access
9	Chris Shutes	Berkley, CA 94703	Male	47	16-20	Trout	Fly	June- Oct	Mid-Week	None	1-2 or 3-5	Fishing Success River Aesthetics Access

Rubicon River from Rubicon Reservoir Dam to Hell Hole Reservoir

Name	No. of Times Fished this Reach	Target Fish Species	Typical Months to Fish the Reach	Typical Days of Week to Fish the Reach	Parking Location	Access Improvements Needed?	Quality of Fishing Relative to Other Cent. Sierran Streams	Fishing Pressure Relative to Other Cent. Sierran Streams	Identified Impacts of Flows Encountered in Past on Angling Exp.	Would Flow Information on Internet be Beneficial?
Michael Matus	3	Rainbow	August	Weekend	Loon Lake	None	Execent	Low	none	No Opinion
Bob Macy	2 or 3	Trout	July- Aug	Mid-week Mid-day	Loon Lake VanVleck Trial	None		Low	Low flows mid summer	Yes
Monte Hendricks	10 to 12	Trout Browns Rainbows	June-Oct	Weekend	Hell Hole Dam McKinstry Lake Wentworth Springs Loon Lake	None	Execent	low	Flows Seem lower More algae	Yes

Gerle Creek from Loon Lake Dam to Gerle Creek Reservoir

Name	No. of Times Fished this Reach	Target Fish Species	Typical Months to Fish the Reach	Typical Days of Week to Fish the Reach	Parking Location	Access Improvements Needed?	Quality of Fishing Relative to Other Cent. Sierran Streams	Fishing Pressure Relative to Other Cent. Sierran Streams	Identified Impacts of Flows Encountered in Past on Angling Exp.	Would Flow Information on Internet be Beneficial?
Chris Schnaidt	5	Rainbow, Brook	July- Aug	Mid-week	Below Loon Lake Dam	none	Fair	Low	Vegetation Incroachment	yes
John Murphy	2	Brown	April, Oct	Mid-week	Gerle creek CG Wentworth Springs Road Bridge	None	Aesthetics good Fishing Fair	Moderate	Early Season High Flows Dificult fishing	yes

South Fork Rubicon River from Robbs Forebay Dam to confluence with Rubicon River.

Name	No. of Times Fished this Reach	Target Fish Species	Typical Months to Fish the Reach	Typical Days of Week to Fish the Reach	Parking Location	Access Improvements Needed?	Quality of Fishing Relative to Other Cent. Sierran Streams	Fishing Pressure Relative to Other Cent. Sierran Streams	Identified Impacts of Flows Encountered in Past on Angling Exp.	Would Flow Information on Internet be Beneficial?
Michael Matus	6	Rainbows, Browns	Aug- Sept	Weekend All Day	Loon Lake road	None	Excellent	Moderate	none	No Opinion
Bob Oswald	3 or 4	Trout	May- June	Mid-week	Robbs Peak Res. South Fork CG	None	Below average	High		yes

South Fork Silver Creek from Ice House Dam to Junction Reservoir

Name	No. of Times Fished this Reach	Target Fish Species	Typical Months to Fish the Reach	Typical Days of Week to Fish the Reach	Parking Location	Access Improvements Needed?	Quality of Fishing Relative to Other Cent. Sierran Streams	Fishing Pressure Relative to Other Cent. Sierran Streams	Identified Impacts of Flows Encountered in Past on Angling Exp.	Would Flow Information on Internet be Beneficial?
Chris Schnaidt	2	Rainbow	July- Aug	Mid-week	Below Icehouse Dam	Vegetation Incroachment	Fair	High	None	yes
Michael Matus	12	Rainbows, Browns	July- Sept	Weekends Mon, Thurs	Icehouse Road	None	poor	High	None	No Opinion
Bob Oswald	2 or 3	Trout	April-June	Mid-week Afternoons	Icehouse Road, Bridge at Junction	None	Aesthetics good Fishing Poor	Moderate	High in early season To low late seson	yes
Bill Felts	2	Rainbow	July - Aug	Sat 12-3pm	Can't remember	Better pathways More parking	Better than most. Good water quality and access	Low	Stable, easy to fish	yes
John Murphy	4 or 5	Rainbows, Browns	Aug-Oct	Mid-week	SPI Road Silver Creek CG	None	Fair	Low	None	yes

Silver Creek from Junction Dam to Camino Reservoir

Name	No. of Times Fished this Reach	Target Fish Species	Typical Months to Fish the Reach	Typical Days of Week to Fish the Reach	Parking Location	Access Improvements Needed?	Quality of Fishing Relative to Other Cent. Sierran Streams	Fishing Pressure Relative to Other Cent. Sierran Streams	Identified Impacts of Flows Encountered in Past on Angling Exp.	Would Flow Information on Internet be Beneficial?
Michael Matus	3	Rainbow, Brown	Aug- Sept	Weekend	Camino Res	none	Fair	Moderate	None	No Opinion
Rich Trimble	3	Rainbow	July	Tues- Thurs	Union Valley	none		Low		No Opinion
John Murphy	1	None	April		Junction Res	none	Poor time of year	Low	Low flows	No Opinion
Bob Macy	3	Brook Trout	May-Sept	Mid-week	Junction Res	Path would be nice	Difficult to access	Low	None	yes
Monte Hendricks	1	Trout	July	Saturday	Jaybird Road	No Opinion	Fair	Low	No Opinion	yes

Silver Creek from Camino Dam to confluence with South Fork American River

Name	No. of Times Fished this Reach	Target Fish Species	Typical Months to Fish the Reach	Typical Days of Week to Fish the Reach	Parking Location	Access Improvements Needed?	Quality of Fishing Relative to Other Cent. Sierran Streams	Fishing Pressure Relative to Other Cent. Sierran Streams	Identified Impacts of Flows Encountered in Past on Angling Exp.	Would Flow Information on Internet be Beneficial?
Michael Matus	12	Rainbows, Browns	July- Sept	Weekend All Day	Access road to Camino PH	None	Excellent in the past. Poor lately	Moderate	none	No Opinion
Bob Oswald	3 or 4	Trout	April- June	Mid-week All day	Jaybird PH	None	Good	Low	none	yes
Monte Hendricks	1	Rainbows, Browns	August	Saturday	Slab Creek Res	No opinion	Fair	Low	No Opinion	yes

South Fork American River from Camino Powerhouse to Slab Creek Reservoir

Name	No. of Times Fished this Reach	Target Fish Species	Typical Months to Fish the Reach	Typical Days of Week to Fish the Reach	Parking Location	Access Improvements Needed?	Quality of Fishing Relative to Other Cent. Sierran Streams	Fishing Pressure Relative to Other Cent. Sierran Streams	Identified Impacts of Flows Encountered in Past on Angling Exp.	Would Flow Information on Internet be Beneficial?
Michael Matus	10	Rainbows, Browns	Aug-Oct	Weekend	Access road to Camino PH	None	Good to Very Good	Low	None	No Opinion

South Fork Silver Creek from Ice House Dam to Junction Reservoir

Name	No. of Times Fished this Reach	Target Fish Species	Typical Months to Fish the Reach	Typical Days of Week to Fish the Reach	Parking Location	Access Improvements Needed?	Quality of Fishing Relative to Other Cent. Sierran Streams	Fishing Pressure Relative to Other Cent. Sierran Streams	Identified Impacts of Flows Encountered in Past on Angling Exp.	Would Flow Information on Internet be Beneficial?
Bob Oswald	3 or 4	Trout	April-June	Mid-week Mid-day	Slab Creek Dam	None	Low	Low	Yes	Yes
Bob Macy	2	Trout	May- sept	Mid-week Mid-day	Slab Creek Dam	None	Low		Yes, Flows too low	Yes

APPENDIX D

CALCULATIONS FOR ESTIMATES OF DISPERSED USE NEAR THE UARP

Appendix D. Calculations for Estimates of Dispersed Use Near the UARP

Spring and Summer - April 1 through September 30, 2002

56 Weekend and Holiday Days
127 Weekdays

Fall - October 1 through November 30, 2002

20 Weekend and Holiday Days
41 Weekdays

Winter - December 1, 2002, through March 31, 2003

38 Weekend and Holiday Days
83 Weekdays

365 Total Days

Weekend=Saturday, Sunday, and select weekdays adjacent to holidays
Weekday=Monday through Friday (non-holidays)

- 3.35 Average (mean) No. in Group - Spring, Summer and Fall (Day Use)
- 2.47 Average (mean) No. in Vehicle - Winter (Day Use)
- 7.20 Average (mean) No. of Hours - Spring, Summer and Fall (Day Use) for RVD
- 5.54 Average (mean) No. of Hours - Winter (Day Use) for RVD

- 7.52 Average (mean) No. in Group - Spring, Summer and Fall (Overnight)
- 2.47 Average (mean) No. in Vehicle - Winter (Overnight)
- 3.56 Average (mean) No. of Nights - Spring, Summer and Fall (Overnight) for RVD
- 1.83 Average (mean) No. of Nights - Winter (Overnight) for RVD

Notes and assumptions:

1. The averages shown above are derived from: Dispersed data set and Windshield Crystal Basin data set (both collected from July 4th through Labor Day, 2002); and the Windshield Winter data set (collected from December 15, 2002, through March 2003).
2. The "number of groups" data presented in the following calculations were obtained from the log sheets completed during the following sampling periods: Dispersed and Dispersed Appraisals (July 4th through Labor Day, 2002), and supplemental Dispersed Appraisals (Memorial Day through July 3, 2003).
3. The "number of vehicles" data presented in the following calculations were obtained from the log sheets completed during the Windshield Winter sampling period (December 15, 2002, through March 2003).
4. The log sheets described in note 2 also provided "activities observed," which were used to differentiate between day use and overnight use.
5. For the Canyonlands only, the average (mean) number in group is 2.7 for day use and 4.3 for overnight use, these averages are derived from

the Canyonlands Windshield data set and associated log sheets.

6. Fall use is estimated to be half of the use/day for the Spring & Summer.
7. Winter use for Canyonlands is estimated to be half of the use/day for the Spring and Summer.
8. For Union Valley, Loon Lake, Ice House, Gerle Creek and Junction Reservoirs, we did not subtract those visitors recreating in a dispersed area who were also camping in a UARP-related campground.
9. For Union Valley, Loon Lake and Ice House Reservoirs, we did not subtract those visitors recreating in a dispersed area who parked at a UARP-related boat launch facility.
10. Day use totals include a multiplier of 1.3 to account for day use visitors who were not present during the one-time-per-day count.
11. Recreation Day is defined as a visit by a person during any portion of a 24-hour period.

Total Use Estimates for Dispersed Recreation near the UARP (Recreation Days)

Total		Day Use	Overnight
2,122	Junction Reservoir - Spring, Summer, Fall & Winter	1,204	918
2,329	Ice House Reservoir - Spring, Summer and Fall	2,329	0
4,986	Union Valley Reservoir - Spring, Summer and Fall	2,760	2,226
2,793	Gerle Creek Reservoir - Spring, Summer and Fall	377	2,416
16,865	Loon Lake Reservoir - Spring, Summer and Fall	1,648	15,217
14,311	Crystal Basin - Winter	11,403	2,908
7,271	Canyonlands - Spring, Summer, Fall and Winter	6,036	1,234
8,894	Appraisal Areas (upper Jones Fork Silver Creek, lower Jones Fork Silver Creek, & Big Silver Creek)	0	8,894
8,640	Appraisal Areas (Spider Lake)	0	8,640

68,211 Total Number of Recreation Days

UARP License Application

25,758 42,453

Visitor Use and Impact Technical Report

03/14/2005

Page D2

Junction Reservoir Dispersed Use (Spring, Summer, Fall & Winter)

Weekend Use

Weekend Day Use No. of Groups	Weekend Overnight No. of Groups
7/6 Sat 2	7/6 Sat 1
8/3 Sat 2	8/3 Sat 0
8/11 Sun 2	8/11 Sun 0
8/31 Sat 1	8/31 Sat 1
<u> </u> 1.75 day use weekend groups/day	<u> </u> 0.5 overnight weekend groups/day

98.0 Weekend Day Use No. of Groups - Spring and Summer (56 days x 1.75)
 426.8 Number of Weekend Day Use Visitors - Spring and Summer (98 x 3.35 x 1.3)

28.0 Weekend Overnight No. of Groups - Spring and Summer (56 days x 0.5)
 210.6 Number of Weekend Overnight Visitors - Spring and Summer (28 x 7.52)

53.3 Weekend Day Use No. of Groups - Fall & Winter (58 days x 1.75 / 2)
 231.9 Number of Weekend Day Use Visitors - Fall & Winter (53.3 x 3.35 x 1.3)

29.5 Weekend Overnight No. of Groups - Fall & Winter (58 days x 0.5 / 2)
 221.8 Number of Weekend Overnight Visitors - Fall & Winter (29.5 x 7.52)

1,091.1 Number of Weekend Visitors - Spring, Summer, Fall & Winter

Weekday Use

Weekday Day Use No. of Groups	Weekday Overnight No. of Groups
7/16 Tues 0	7/16 Tues 0
8/19 Mon 1	8/19 Mon 0
<u> </u> 0.5 day use weekday groups/day	<u> </u> 0 overnight weekday groups/day 0.14 zero override=ratio of weekend day use:overnight use

63.5 Weekday Day Use No. of Groups - Spring and Summer
 276.5 Number of Weekday Day Use Visitors - Spring and Summer

17.8 Weekday Overnight No. of Groups - Spring and Summer
 133.7 Number of Weekday Overnight Visitors - Spring and Summer

61.8 Weekday Day Use No. of Groups - Fall and Winter
 268.9 Number of Weekday Day Use Visitors - Fall and Winter

46.8 Weekday Overnight No. of Groups - Fall and Winter
 352.0 Number of Weekday Overnight Visitors - Fall and Winter

1,031.2 Number of Weekday Visitors - Spring, Summer, Fall & Winter

2,122.3 Number of Recreation Days - Junction Reservoir - Spring, Summer, Fall & Winter

Ice House Reservoir Dispersed Use (Spring, Summer and Fall)

(91% of total groups observed occurred along dirt road, northeast side)

Weekend Use

Weekend Day	Use No. of Groups	Weekend Overnight	No. of Groups
7/6 Sat	5	7/6 Sat	0
8/3 Sat	6	8/3 Sat	0
8/11 Sun	5	8/11 Sun	0
8/31 Sat	3	8/31 Sat	0
	<u>4.75</u> day use weekend		<u>0</u> overnight weekend
	groups/day		groups/day

- 266.0 Weekend Day Use No. of Groups - Spring and Summer
- 1,158.4 Number of Weekend Day Use Visitors - Spring and Summer
- Weekend Overnight No. of Groups - Spring and Summer
- Number of Weekend Overnight Visitors - Spring and Summer

- 47.5 Weekend Day Use No. of Groups - Fall
- 206.9 Number of Weekend Day Use Visitors - Fall

- Weekend Overnight No. of Groups - Fall
- Number of Weekend Overnight Visitors - Fall

1,365.3 Number of Weekend Visitors - Spring, Summer and Fall

Weekday Use

Weekday	Day Use No. of Groups	Weekday Overnight	No. of Groups
7/16 Tues	1	7/16 Tues	0
8/19 Mon	2	8/19 Mon	0
	<u>1.5</u> day use weekday		<u>0</u> overnight weekday
	groups/day		groups/day

- 190.5 Weekday Day Use No. of Groups - Spring and Summer
- 829.6 Number of Weekday Day Use Visitors - Spring and Summer

- 0.0 Weekday Overnight No. of Groups - Spring and Summer
- 0.0 Number of Weekday Overnight Visitors - Spring and Summer

- 30.8 Weekday Day Use No. of Groups - Fall
- 133.9 Number of Weekday Day Use Visitors - Fall

- 0.0 Weekday Overnight No. of Groups - Fall
- 0.0 Number of Weekday Overnight Visitors - Fall

963.5 Number of Weekday Visitors - Spring, Summer and Fall

2,328.8 Number of Recreation Days - Ice House Reservoir - Spring, Summer and Fall

Union Valley Reservoir Dispersed Use (Spring, Summer and Fall)

(49% of total groups observed occurred along northwest shore, WPCG to CC)
 (23% of total groups observed occurred between the WP boat launches)

Weekend Use

Weekend Day Use No. of Groups	Weekend Overnight No. of Groups
7/6 Sat 7	7/6 Sat 2
8/3 Sat 7	8/3 Sat 2
8/11 Sun 4	8/11 Sun 3
8/31 Sat 7	8/31 Sat 2
<u>6.25</u> day use weekend groups/day	<u>2.25</u> overnight weekend groups/day

- 350.0 Weekend Day Use No. of Groups - Spring and Summer
- 1,524.3 Number of Weekend Day Use Visitors - Spring and Summer

- 126.0 Weekend Overnight No. of Groups - Spring and Summer
- 947.5 Number of Weekend Overnight Visitors - Spring and Summer

- 62.5 Weekend Day Use No. of Groups - Fall
- 272.2 Number of Weekend Day Use Visitors - Fall

- 22.5 Weekend Overnight No. of Groups - Fall
- 169.2 Number of Weekend Overnight Visitors - Fall

- 2,913.2 Number of Weekend Visitors - Spring, Summer and Fall**

Weekday Use

Weekday Day Use No. of Groups	Weekday Overnight No. of Groups
7/16 Tues 3	7/16 Tues 2
8/19 Mon 0	8/19 Mon 0
<u>1.5</u> day use weekday groups/day	<u>1</u> overnight weekday groups/day

- 190.5 Weekday Day Use No. of Groups - Spring and Summer
- 829.6 Number of Weekday Day Use Visitors - Spring and Summer

- 127.0 Weekday Overnight No. of Groups - Spring and Summer
- 955.0 Number of Weekday Overnight Visitors - Spring and Summer

- 30.8 Weekday Day Use No. of Groups - Fall
- 133.9 Number of Weekday Day Use Visitors - Fall

- 20.5 Weekday Overnight No. of Groups - Fall
- 154.2 Number of Weekday Overnight Visitors - Fall

- 2,072.7 Number of Weekday Visitors - Spring, Summer and Fall**

4,985.9 Number of Recreation Days - Union Valley Reservoir - Spring, Summer and Fall

Gerle Creek Reservoir Dispersed Use (Spring, Summer and Fall)

(75% of total groups observed occurred adjacent to or near Airport Flat CG)

Weekend Use

Weekend Day Use No. of Groups		Weekend Overnight No. of Groups	
7/6 Sat	1	7/6 Sat	4
8/3 Sat	2	8/3 Sat	2
8/11 Sun	0	8/11 Sun	4
8/31 Sat	1	8/31 Sat	5
<hr/> <hr/>		<hr/> <hr/>	
1 day use weekend groups/day		3.75 overnight weekend groups/day	

56.0 Weekend Day Use No. of Groups - Spring and Summer
 243.9 Number of Weekend Day Use Visitors - Spring and Summer

210.0 Weekend Overnight No. of Groups - Spring and Summer
 1,579.2 Number of Weekend Overnight Visitors - Spring and Summer

10.0 Weekend Day Use No. of Groups - Fall
 43.6 Number of Weekend Day Use Visitors - Fall

37.5 Weekend Overnight No. of Groups - Fall
 282.0 Number of Weekend Overnight Visitors - Fall

2,148.6 Number of Weekend Visitors - Spring, Summer and Fall

Weekday Use

Weekday Day Use No. of Groups		Weekday Overnight No. of Groups	
7/16 Tues	0	7/16 Tues	1
8/19 Mon	0	8/19 Mon	0
<hr/> <hr/>		<hr/> <hr/>	
0 day use weekday groups/day		0.5 overnight weekday groups/day	

0.14 zero override=ratio of weekend overnight use:day use

17.8 Weekday Day Use No. of Groups - Spring and Summer
 77.4 Number of Weekday Day Use Visitors - Spring and Summer

63.5 Weekday Overnight No. of Groups - Spring and Summer
 477.5 Number of Weekday Overnight Visitors - Spring and Summer

2.9 Weekday Day Use No. of Groups - Fall
 12.5 Number of Weekday Day Use Visitors - Fall

10.3 Weekday Overnight No. of Groups - Fall
 77.1 Number of Weekday Overnight Visitors - Fall

644.5 Number of Weekday Visitors - Spring, Summer and Fall

2,793.2 Number of Recreation Days - Gerle Creek Reservoir - Spring, Summer and Fall

Loon Lake Reservoir Dispersed Use (Spring, Summer and Fall)

(70% of total groups observed occurred between the two dams)

Weekend Use

Weekend Day Use No. of Groups		Weekend Overnight No. of Groups	
7/6 Sat	5	7/6 Sat	20
8/3 Sat	2	8/3 Sat	21
8/11 Sun	6	8/11 Sun	14
8/31 Sat	1	8/31 Sat	14
<u>3.5</u> day use weekend groups/day		<u>17.25</u> overnight weekend groups/day	

196.0 Weekend Day Use No. of Groups - Spring and Summer
 853.6 Number of Weekend Day Use Visitors - Spring and Summer

966.0 Weekend Overnight No. of Groups - Spring and Summer
 7,264.3 Number of Weekend Overnight Visitors - Spring and Summer

35.0 Weekend Day Use No. of Groups - Fall
 152.4 Number of Weekend Day Use Visitors - Fall

172.5 Weekend Overnight No. of Groups - Fall
 1,297.2 Number of Weekend Overnight Visitors - Fall

9,567.5 Number of Weekend Visitors - Spring, Summer and Fall

Weekday Use

Weekday Day Use No. of Groups		Weekday Overnight No. of Groups	
7/16 Tues	0	7/16 Tues	8
8/19 Mon	2	8/19 Mon	4
<u>1</u> day use weekday groups/day		<u>6</u> overnight weekday groups/day	

127.0 Weekday Day Use No. of Groups - Spring and Summer
 553.1 Number of Weekday Day Use Visitors - Spring and Summer

762.0 Weekday Overnight No. of Groups - Spring and Summer
 5,730.2 Number of Weekday Overnight Visitors - Spring and Summer

20.5 Weekday Day Use No. of Groups - Fall
 89.3 Number of Weekday Day Use Visitors - Fall

123.0 Weekday Overnight No. of Groups - Fall
 925.0 Number of Weekday Overnight Visitors - Fall

7,297.6 Number of Weekday Visitors - Spring, Summer and Fall

16,865.1 Number of Recreation Days - Loon Lake Reservoir - Spring, Summer and Fall

Crystal Basin Winter Use (2002-2003)

Weekend Use

Weekend Day Use No. of Vehicles		Weekend Overnight No. of Vehicles	
12/25 W	26	12/25 W	9
1/5 Sun	71	1/5 Sun	24
1/25 Sat	75	1/25 Sat	25
2/8 Sat	59	2/8 Sat	20
2/23 Sun	67	2/23 Sun	23
3/2 Sun	64	3/2 Sun	21
3/8 Sat	67	3/8 Sat	22
3/30 Sun	60	3/30 Sun	20
<u>61.125</u> day use weekend vehicles/day		<u>20.5</u> overnight weekend vehicles/day	

2,322.8 Weekend Day Use No. of Vehicles - Winter
 7,458.4 Number of Weekend Day Use Visitors - Winter

779.0 Weekend Overnight No. of Vehicles - Winter
 1,924.1 Number of Weekend Overnight Visitors - Winter

9,382.5 Number of Weekend Visitors - Winter

Weekday Use

Weekday Day Use No. of Vehicles		Weekday Overnight No. of Vehicles	
1/3 Fri	41	1/3 Fri	14
1/7 Tues	16	1/7 Tues	5
1/9 Thurs	8	1/9 Thurs	2
1/15 Wed	16	1/15 Wed	5
1/17 Fri	16	1/17 Fri	5
1/28 Tues	21	1/28 Tues	7
2/11 Tues	11	2/11 Tues	3
2/18 Tues	11	2/18 Tues	4
3/11 Tues	8	3/11 Tues	3
3/26 Wed	0	3/26 Wed	0
<u>14.8</u> day use weekday vehicles/day		<u>4.8</u> overnight weekday vehicles/day	

1,228.4 Weekday Day Use No. of Vehicles - Winter
 3,944.4 Number of Weekday Day Use Visitors - Winter

398.4 Weekday Overnight No. of Vehicles - Winter
 984.0 Number of Weekday Overnight Visitors - Winter

4,928.4 Number of Weekday Visitors - Winter

14,310.9 Number of Recreation Days - Crystal Basin Winter (December through March)

Canyonlands Dispersed Use

Weekend Use

Weekend Day Use No. of Groups	Weekend Overnight No. of Groups
7/7 Sun 20	7/7 Sun 0
7/13 Sat 11	7/13 Sat 1
7/28 Sun 19	7/28 Sun 4
9/2 Mon 16	9/2 Mon 4
<u>16.5</u> day use weekend groups/day	<u>2.25</u> overnight weekend groups/day

924.0 Weekend Day Use No. of Groups - Spring and Summer
 3,243.2 Number of Weekend Day Use Visitors - Spring and Summer

126.0 Weekend Overnight No. of Groups - Spring and Summer
 541.8 Number of Weekend Overnight Visitors - Spring and Summer

333.5 Weekend Day Use No. of Groups - Fall and Winter
 1,170.6 Number of Weekend Day Use Visitors - Fall and Winter

62.8 Weekend Overnight No. of Groups - Fall and Winter
 269.8 Number of Weekend Overnight Visitors - Fall and Winter

5,225.5 Number of Weekend Visitors

Weekday Use

Weekday Day Use No. of Groups	Weekday Overnight No. of Groups
8/9 Fri 3	8/9 Fri 0
8/23 Fri 2	8/23 Fri 0
<u>2.5</u> day use weekday groups/day	<u>0</u> overnight weekday groups/day
	0.34 zero override=ratio of weekend day use:overnight use

317.5 Weekday Day Use No. of Groups - Spring and Summer
 1,114.4 Number of Weekday Day Use Visitors - Spring and Summer

43.2 Weekday Overnight No. of Groups - Spring and Summer
 185.7 Number of Weekday Overnight Visitors - Spring and Summer

144.8 Weekday Day Use No. of Groups - Fall and Winter
 508.1 Number of Weekday Day Use Visitors - Fall and Winter

55.1 Weekday Overnight No. of Groups - Fall and Winter
 237.0 Number of Weekday Overnight Visitors - Fall and Winter

2,045.1 Number of Weekday Visitors

7,270.6 Number of Recreation Days - Canyonlands

Appraisal Areas (upper JFSC, lower JFSC & BSC) Spring, Summer & Fall

(52% of total groups observed occurred at upper Jones Fork Silver Creek)

(24% of total groups observed occurred at lower Jones Fork Silver Creek)

(24% of total groups observed occurred at Big Silver Creek)

5/25 through 6/29 data collected in 2003

7/6 through 8/31 data collected in 2002

Weekend Use

Weekend Day Use No. of Groups	Weekend Overnight No. of Groups
5/25 Sun 0	5/25 Sun 26
5/31 Sat 0	5/31 Sat 3
6/7 Sat 0	6/7 Sun 8
6/21 Sat 0	6/21 Sat 16
6/29 Sat 0	6/29 Sat 16
7/6 Sat 0	7/6 Sat 17
8/3 Sat 0	8/3 Sat 8
8/11 Sun 0	8/11 Sun 6
8/31 Sat 0	8/31 Sat 4
<u>0</u> day use weekend groups/day	<u>11.56</u> overnight weekend groups/day

- Weekend Day Use No. of Groups - Spring and Summer
- Number of Weekend Day Use Visitors - Spring and Summer

647.1 Weekend Overnight No. of Groups - Spring and Summer
 4,866.3 Number of Weekend Overnight Visitors - Spring and Summer

- Weekend Day Use No. of Groups - Fall
- Number of Weekend Day Use Visitors - Fall

115.6 Weekend Overnight No. of Groups - Fall
 869.0 Number of Weekend Overnight Visitors - Fall

5,735.3 Number of Weekend Visitors - Spring, Summer and Fall

Weekday Use

Weekday Day Use No. of Groups	Weekday Overnight No. of Groups
5/29 Thur 0	5/29 Thur 2
6/5 Thur 0	6/5 Thur 3
6/12 Thur 0	6/12 Thur 1
6/24 Tues 0	6/24 Tues 5
7/16 Tues 0	7/16 Tues 0
8/19 Mon 0	8/19 Mon 4
<u>0</u> day use weekday groups/day	<u>2.50</u> overnight weekday groups/day

0.0 Weekday Day Use No. of Groups - Spring and Summer
 0.0 Number of Weekday Day Use Visitors - Spring and Summer

317.5 Weekday Overnight No. of Groups - Spring and Summer
 2,387.6 Number of Weekday Overnight Visitors - Spring and Summer

0.0 Weekday Day Use No. of Groups - Fall
 0.0 Number of Weekday Day Use Visitors - Fall

102.5 Weekday Overnight No. of Groups - Fall
 770.8 Number of Weekday Overnight Visitors - Fall

3,158.4 Number of Weekday Visitors - Spring, Summer and Fall

**8,893.7 Number of Recreation Days - Appraisal Areas (upper JFSC, lower JFSC & BSC)
 Spring Summer and Fall**

Appraisal Areas (Spider Lake) Spring, Summer & Fall

7/6 through 8/31 data collected in 2002

Weekend Use

Weekend Day Use No. of Groups		Weekend Overnight No. of Groups	
7/6 Sat	0	7/6 Sat	11
8/3 Sat	0	8/3 Sat	6
8/11 Sun	0	8/11 Sun	6
8/31 Sat	0	8/31 Sat	11
	0		8.50
	day use weekend groups/day		overnight weekend groups/day

- Weekend Day Use No. of Groups - Spring and Summer
- Number of Weekend Day Use Visitors - Spring and Summer

476.0 Weekend Overnight No. of Groups - Spring and Summer
 3,579.5 Number of Weekend Overnight Visitors - Spring and Summer

- Weekend Day Use No. of Groups - Fall
- Number of Weekend Day Use Visitors - Fall

85.0 Weekend Overnight No. of Groups - Fall
 639.2 Number of Weekend Overnight Visitors - Fall

4,218.7 Number of Weekend Visitors - Spring, Summer and Fall

Weekday Use

Weekday Day Use No. of Groups		Weekday Overnight No. of Groups	
7/16 Tues	0	7/16 Tues	3
8/19 Mon	0	8/19 Mon	4
	0		3.50
	day use weekday		overnight weekday

groups/day

groups/day

0.0 Weekday Day Use No. of Groups - Spring and Summer

0.0 Number of Weekday Day Use Visitors - Spring and Summer

444.5 Weekday Overnight No. of Groups - Spring and Summer

3,342.6 Number of Weekday Overnight Visitors - Spring and Summer

0.0 Weekday Day Use No. of Groups - Fall

0.0 Number of Weekday Day Use Visitors - Fall

143.5 Weekday Overnight No. of Groups - Fall

1,079.1 Number of Weekday Overnight Visitors - Fall

4,421.8 Number of Weekday Visitors - Spring, Summer and Fall

**8,640.5 Number of Recreation Days - Appraisal Areas (Spider Lake)
Spring, Summer and Fall**

APPENDIX E

INTERVIEWER ANECDOTAL NOTES

APPENDIX E - INTERVIEWER ANECDOTAL NOTES

DATE	LOCATION	COMMENTS
July 4, 2002	Ice House Reservoir area	From Ice House Road up stream to Ice House Dam along back road, only saw two small camps (1 with 1 Tent, 1 with 1 Tent and 1 car) both about half way up.
July 4, 2002	Loon Lake Reservoir area	Upper end near tunnel discharge, cove to North had 1 group of overnight dispersed camping.
July 4, 2002	Tells Creek & Ice House Road	Just downstream of Ice House Road - at least 1 group overnight dispersed. Have not seen camping there before.
July 4, 2002	Ice House Picnic Area	I had 2 people ask me if it was OK if they parked on the sides of the paved road (parking lot was full).
July 4, 2002	Ice House Picnic Area	One interviewee expressed concern that there wasn't running water in the Ice House Picnic Area but I noticed water spigots around (they look new) however, I did not see any signs directing recreationers to water. (Ice House Picnic Area water spigots not functional)
July 5, 2002	Junction Reservoir	Found boat launch site at Junction Reservoir in use.
July 5, 2002	Camino Cove Campground	Two groups in front campsites very upset about OHV's, motorcycles & ATV's, up and down the lane stirring up dust and making too much noise.
July 6, 2002	Spider Lake	Respondents said Jeepers are out of control not courteous, fireworks and firearms discharged, loud music (could hear from across the lake). Trail improvement on main trail! CHP chopper present with loudspeakers.
July 6, 2002	Spider Lake	Saw about 8 fire pits along the west side ~ lots of brush. It was the 50th Anniversary of the Jeep Jamboree ~ several hundred 4x4's.
July 6, 2002	Ice House Reservoir area	Saw a couple of off-road trails & vehicles between Strawberry Campground and South Fork Silver Creek. Some guy getting wasted ~ cars just cruising around.
July 6, 2002	South Fork Silver Creek at upper end of Ice House Reservoir	Saw Rangers & Sheriff's all around - looks like some kind of bust. A lot of hidden spots on shoreline ~ a big group on other side of water.
July 6, 2002	Loon Lake Campground	Darrel, campground host, informs me at Loon Lake Boat Launch of a bear problem (mother and 2 cubs at least), last few nights has ripped into 15 vehicles! Coffee cup!
July 7, 2002	Slab Creek Reservoir	In front of boat launch area at upper end of Slab Creek Reservoir - a couple piles of trash
July 7, 2002	road down to Slab Creek Dam	Five kids on OHV's along FS11N96
July 9, 2002	Loon Lake Boat Launch / Picnic Area	Three or four groups mentioned low water levels last year (one said Union Valley was low, Loon Lake was ok.
July 9, 2002	Lone Rock Campground	Saw a big brown bear on bike trail to Lone Rock.
July 11, 2002	Loon Lake Boat Launch	The campground host said 22 windows broken by bears.

APPENDIX E - INTERVIEWER ANECDOTAL NOTES

DATE	LOCATION	COMMENTS
July 16, 2002	Ice House Boat Launch	First interviewee was the "governor" of Ice House Campground. Been coming since 1960. Petitioned to have some first-come-first-serve spaces when Ice House first went to reservations system. Interesting discussion about elderly coming up here (traveling more now) ~ wants us to think about "us old folks" and how we use the recreation area.
July 16, 2002	Airport Flat Campground	Trash dumpster turned over - likely bear.
July 20, 2002	West Point Boat Launch	Dispersed camping all around the main boat launch and parking area; RV's, tents, pop-ups.
July 20, 2002	Loon Lake Boat Launch	Campground host information: 33 car windows broken into; a boater was out on the lake about 10:00 PM, speeding excessively-hit a rock, boat sank; Sheriff/Forest Service here-spray painted mother bear and 2 cubs, didn't get the "big bear".
July 21, 2002	Angel Creek Picnic Area	Car came by (towing a trailer with dirt bikes) dumped garbage and left. A jeep came in, turned around and left; just checking out the place, I guess.
July 21, 2002	Loon Lake Boat Launch	Visitors who camped at North shore Campground went to Loon Lake Boat Launch to get water and was told by campground host "can't do that". The visitors think they should be able to get water here.
July 21, 2002	West Point Boat Launch	Lots of people in the area. 3 campsites in parking lot, numerous people camped along the shore on both sides of ramp.
July 23, 2002	Loon Lake Boat Launch	Parking lot around half full. 5 RV's - Some kind of kids camp going on.
July 23, 2002	Ice House Picnic Area	Broken beer bottles (huge safety hazard!) amongst rocks near the shore (by the parking lot). Saw a snake! Unidentifiable at Ice House Picnic Area. Tons of baby frogs at Ice House Picnic Area - they are all over the beach - they could very easily be trampled on by picnickers.
July 28, 2002	West Point Boat Launch	Group camped elsewhere ~ mentioned they did not like EID or what was happening with Sly Park. They were happy to hear SMUD was not involved with Sly Park. Trash bin is overflowing. 3 people flipped over a PWC and it was upside-down for some time.
July 28, 2002	Angel Creek	A forest ranger in a brand new Dodge pickup got broad sided and flipped into a ditch by a Ford pickup just South of Angel Creek.
July 28, 2002	Ice House Resort	No one at Ice House Resort, didn't pass any vehicles coming up Ice House Road (except for one Forest Service Fire Truck); road was set with orange cones for about 1/4 mile before Cleveland Station and 1/4 mile past (don't know why); Dept of Corrections Fire Camp set up at the entrance to the Basin.

APPENDIX E - INTERVIEWER ANECDOTAL NOTES

DATE	LOCATION	COMMENTS
July 30, 2002	Gerle Creek Campground	Drove through -- two dumpsters turned over with trash scattered -- bear likely. Saw 3 Forest Service staff walking along access road to Gerle Creek Campground -- they were doing Goshawk studies.
July 30, 2002	Loon Lake Boat Launch	Call me strange but the whole parking lot area smelled like trash!
August 2, 2002	upper Jones Fork Silver Creek area	Man very upset with Forest Service closure of OHV trails "Restoration Project" at Bassi Falls.
August 3, 2002	lower Jones Fork Silver Creek area	One large group of about 20 -- 20-year olds -- Forest Ranger told them last night they could not camp here!
August 3, 2002	Spider Lake	Almost got shot - bullet landed within a foot or so of my leg. The guy who almost shot me was at the north end of lake; said he didn't see me.
August 3, 2002	Loon Lake Boat Launch & Campground	42 car windows broken into. Forest Service delivered bear boxes to Loon & Gerle on Tuesday (will take 3 weeks before the bears figure out they can't break in). Can hear gunshots off to the West. West side of parking lot smells. Forest Service coming out tonight to address bears again.
August 5, 2002	Ice House Picnic Area	No cars in the parking area. 3 kids on mountain bikes came through.
August 17, 2002	Loon Lake Campground	In RV camping area, two people were loudly yelling at each other - another camper walked over and was trying to referee.
August 25, 2002	North Shore Campground	Campers visited by bear last night. Paw prints on vehicle window. Nearby dispersed campers also visited by bears.
August 25, 2002	Loon Lake Campground	Camper suggested posting a sign warning trailers (or requiring 4WD past North Shore) they got stuck and had to be towed.
August 29, 2002	Loon Lake Group	A CDFG fish stocking truck pulled in and released rainbow trout from the boat ramp. The CDFG driver said they have extra fish so they are stocking Loon Lake, Ice House and Union Valley more frequently.
August 29, 2002	Loon Lake Group	Visitor saw 2 men loading pine cones into trailer near Robbs Hut. Is this legal? Visitor complained that they can't reasonably obtain a campsite via the reservation system at Wrights Lake because too popular.
August 31, 2002	Jaybird Canyon Road & South Fork Silver Creek	Interviewed Spencer Parker's wife. Spencer was present and offered his assistance as needed towards the relicensing studies. Spencer hikes extensively in the Crystal Basin and focuses on wildlife resources.
August 31, 2002	Wench Creek Group and Yellow Jacket Campground	Several guests complained about the water system for the toilets. At about 9 PM the water system is shut down due to lack of water. Also happened last year.
August 31, 2002	Yellow Jacket Campground	Saw 3 vehicles parked below high water line -- later in the afternoon the campground host informed visitor they shouldn't park there and they moved.

APPENDIX E - INTERVIEWER ANECDOTAL NOTES

DATE	LOCATION	COMMENTS
September 2, 200	West of Yellow Jacket Campground Turnoff	Noticed a new sign on 12N50, sign said "OHV Use Limited To Designated Routes Only".
September 16, 200	Rubicon Reservoir and Spider Lake areas	At night we could hear the jeepers across the lake at the stream inlet - they were playing rock and roll tunes from the 70's till about 10 PM, but then were quiet. The jeepers and dispersed campers on the backside (north) of the peninsula had fires - I counted four (my understanding is that only stoves are allowed at this time). We met three groups on the Rubicon Trail that day. One couple was day hiking to about the Pleasant Campground and back, they had driven up from Sacramento that morning and these early birds were headed back to their car at 9:30 AM! Another group of three, backpacked Friday night into Spider Lake. They complained about jeepers being really loud across the lake. The last group was two women and a dog. The dog owner complained rather bitterly about the trail - said "its the worst", she would never go on it again, couldn't believe the Forest Service had said this was o.k. for her dog. She was referring to the granite rock, which is very hard on dogs pads. They had backpacked into Rockbound Lake.

APPENDIX F

ANALYSIS OF ANGLER SATISFACTION

Appendix F. Analysis of Angler Satisfaction

The results of the analysis of angler satisfaction are presented primarily in crosstabulation format between (1) the survey questions listed below and (2) respondents who (a) participated in or plan to participate in fishing, (b) said fishing was their most important activity, and (c) said fishing was their most important activity and was surveyed at a boat launch facility.

1. Did the quality of the fishing attract you to..., Yes or No?
2. Please rate the quality of your fishing experience at..., Poor, Fair, Good or Excellent.
3. Are improvements needed to make access to the shorelines of the reservoirs easier, safer, or more enjoyable?
4. Are improvements needed to make access to rivers or streams easier, safer, or more enjoyable?
5. Did the water level of this reservoir (*or closest reservoir*) allow you to participate in the recreational activities you had planned?
6. To what extent did the water level of this reservoir (*or closest reservoir*) negatively affect the quality of the experience you had planned?
7. Did the amount of flow in the streams allow you to participate in the activities you had planned?
8. To what extent did the amount of flow in the streams negatively affect the quality of the experience you had planned?
9. Adequacy of access to information about (1) fish stocking, (2) stream flow rates and/or depths, and (3) reservoir levels.

Also, to further assess satisfaction of anglers who fish the streams below Project dams, crosstabulations are presented for survey questions 4, 7 and 8 (above) with respondents who said river/stream fishing was their 1st, 2nd or 3rd most important activity.

The results are presented in outline format, corresponding to the survey questions, 1 through 9, listed above. Item 10 presents the results of the additional analysis of stream anglers. Results may be presented for the following data sets:

Developed: detailed surveys conducted at developed recreation facilities – campgrounds, boat launches and picnic facilities – located on or near the shorelines of the four primary Project reservoirs. N=698. All data results are WEIGHTED except for the following two survey

questions: (1) “did the quality of fishing attract you to..., Yes or No” and (2) please rate the quality of your fishing experience at..., Poor, Fair, Good or Excellent.”

Dispersed: detailed surveys conducted at undeveloped areas around the four primary Project reservoirs, generally within one-quarter mile from the Project reservoir shoreline. N=68.

Dispersed Windshield– Crystal Basin: detailed surveys left on visitor’s vehicles parked at the wilderness trailhead at Loon Lake Reservoir and on visitor’s vehicles parked at dispersed areas adjacent to Project waters in the Crystal Basin where the visitor was not present. N=33.

Dispersed Windshield – Canyonlands: detailed surveys left on visitor’s vehicles parked at undeveloped recreation areas in the lower portion area of the Project from Camino Reservoir to White Rock Powerhouse. This area includes Slab Creek Reservoir and Brush Creek Reservoir. N=36.

1. Did the quality of the fishing attract you to... Yes or No?

1.1 Developed Data Set

1.1.a Crosstabulated with respondents who identified fishing as an activity they participated in or plan to participate in.

Reservoir or Stream	Did the quality of the fishing attract you to... Yes or No?				Total
	YES		NO		
Ice House Reservoir	48	48%	52	52%	100
Union Valley Reservoir	51	46%	61	54%	112
Gerle Creek Reservoir	25	45%	31	55%	56
Loon Lake Reservoir	75	63%	45	37%	120
Gerle Creek below Loon Lake Dam	4	44%	5	56%	9
SF Rubicon River below Robbs Forebay	0	-	1	100%	1
Other Project Reservoir or Stream	1	50%	1	50%	2
Other Non-Project Reservoir or Stream ¹	4	57%	3	43%	7
Total	208	51%	199	49%	407

¹ For example: Wrights Lake, Big Silver Creek, and Shadow Lake.

1.1.b Crosstabulated with respondents who said fishing was their most important activity.

Reservoir or Stream	Did the quality of the fishing attract you to... Yes or No?				Total
	YES		NO		
Ice House Reservoir	33	60%	22	40%	55
Union Valley Reservoir	32	59%	22	41%	54
Gerle Creek Reservoir	12	46%	14	54%	26
Loon Lake Reservoir	50	68%	23	32%	73
Gerle Creek below Loon Lake Dam	1	50%	1	50%	2
SF Rubicon River below Robbs Forebay	0	-	1	100%	1
Other Non-Project Reservoir or Stream	3	100%	0	-	3
Total	131	61%	83	39%	214

1.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

Reservoir or Stream	Did the quality of the fishing attract you to... Yes or No?				Total
	YES		NO		
Ice House Reservoir	18	60%	12	40%	30
Union Valley Reservoir	20	69%	9	31%	29
Loon Lake Reservoir	39	72%	15	28%	54
Gerle Creek Reservoir	1	100%	0	-	1
Total	78	68%	36	32%	114

1.2 Dispersed Data Set

1.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Reservoir or Stream	Did the quality of the fishing attract you to... Yes or No?				Total
	YES		NO		
Ice House Reservoir	6	86%	1	14%	7
Union Valley Reservoir	10	63%	6	37%	16
Loon Lake Reservoir	9	47%	10	53%	19
Gerle Creek Reservoir	1	50%	1	50%	2
Gerle Creek below Loon Lake Dam	1	50%	1	50%	2
Other Non-Project Reservoir or Stream	1	100%	0	-	1
Other Project Reservoir or Stream	2	100%	0	-	2
Total	30	61%	19	39%	49

1.2.b Crosstabulated with respondents who said fishing was their most important activity.

Reservoir or Stream	Did the quality of the fishing attract you to... Yes or No?				Total
	YES		NO		
Ice House Reservoir	6	100%	0	-	6
Union Valley Reservoir	7	64%	4	36%	11
Loon Lake Reservoir	3	75%	1	25%	4
Other Project Reservoir or Stream	1	100%	0	-	1
Total	17	77%	5	23%	22

2. Please rate the quality of your fishing experience at (*record general area and circle response*): Poor, Fair, Good, or Excellent.

2.1 Developed Data Set

2.1.a Crosstabulated with respondents who identified fishing as an activity they participated in or plan to participate in.

Reservoir or Stream	Please rate the quality of your fishing experience at...				Total	Mean ¹
	Poor	Fair	Good	Excellent		
Ice House Reservoir	25/27%	28/31%	27/29%	12/13%	92	2.28
Union Valley Reservoir	27/29%	36/39%	16/17%	14/15%	93	2.18
Gerle Creek Reservoir	13/36%	10/28%	6/17%	7/19%	36	2.19
Loon Lake Reservoir	17/18%	34/36%	30/31%	14/15%	95	2.43
Gerle Creek below Loon Dam	2/40%		1/20%	2/40%	5	2.60
SF Rubicon River below Robbs Forebay	1/100%				1	1.00
Other Project Res. or Stream	1/50%			1/50%	2	2.50
Other Non-Project Reservoir or Stream		3/60%	1/20%	1/20%	5	2.60
Total	86/26%	111/34%	81/25%	51/15%	329	2.29

¹ Poor = 1, Fair = 2, Good = 3, and Excellent = 4.

2.1.b Crosstabulated with respondents who said fishing was their most important activity.

Reservoir or Stream	Please rate the quality of your fishing experience at...				Total	Mean
	Poor	Fair	Good	Excellent		
Ice House Reservoir	9/16%	16/29%	22/39%	9/16%	56	2.55
Union Valley Reservoir	10/22%	16/36%	12/26%	7/16%	45	2.36
Gerle Creek Reservoir	5/29%	8/47%	2/12%	2/12%	17	2.06
Loon Lake Reservoir	9/14%	24/39%	21/34%	8/13%	62	2.45
Gerle Creek below Loon Dam			1/50%	1/50%	2	3.50
SF Rubicon River below Robbs Forebay	1/100%				1	1.00
Other Non-Project Reservoir or Stream		1/50%	1/50%		2	2.50
Total	34/18%	65/35%	59/32%	27/15%	185	2.43

2.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

Reservoir or Stream	Please rate the quality of your fishing experience at...				Total	Mean
	Poor	Fair	Good	Excellent		
Ice House Reservoir	4/13%	9/28%	12/37%	7/22%	32	2.69
Union Valley Reservoir	4/15%	9/35%	7/27%	6/23%	26	2.58
Gerle Creek Reservoir	1/100%				1	1.00
Loon Lake Reservoir	9/18%	16/33%	19/39%	5/10%	49	2.41
Total	18/17%	34/31%	38/35%	18/17%	108	2.52

2.2 Dispersed Data Set

2.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Reservoir or Stream	Please rate the quality of your fishing experience at...				Total	Mean
	Poor	Fair	Good	Excellent		
Ice House Reservoir	1/14%	1/14%	3/43%	2/29%	7	2.86
Union Valley Reservoir	4/29%	1/7%	4/29%	5/35%	14	2.71
Gerle Creek Reservoir		1/50%	1/50%		2	2.50
Loon Lake Reservoir		2/22%	5/56%	2/22%	9	3.00
Gerle Creek below Loon Dam		1/50%	1/50%		2	2.50
Other Project Res. or Stream		1/50%	1/50%		2	2.50
Other Non-Project Reservoir or Stream			1/100%		1	3.00
Total	5/14%	7/19%	16/43%	9/24%	37	2.78

2.2.b Crosstabulated with respondents who said fishing was their most important activity.

Reservoir or Stream	Please rate the quality of your fishing experience at...				Total	Mean
	Poor	Fair	Good	Excellent		
Ice House Reservoir	1/17%		3/50%	2/33%	6	3.00
Union Valley Reservoir	3/27%	1/9%	3/27%	4/37%	11	2.73
Loon Lake Reservoir		1/34%	1/33%	1/33%	3	3.00
Other Project Res. or Stream		1/50%	1/50%		2	2.50
Other Non-Project Reservoir or Stream			1/100%		1	3.00
Total	4/18%	3/13%	9/39%	7/30%	23	2.83

2.3 Dispersed Windshield – Canyonlands Data Set

2.3.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Reservoir or Stream	Please rate the quality of your fishing experience at...				Total	Mean
	Poor	Fair	Good	Excellent		
Ice House Reservoir		1/33%	2/67%		3	2.67
Union Valley Reservoir		1/33%	2/67%		3	2.67
Slab Creek Reservoir	1/8%	7/59%	4/33%		12	2.25
SFAR above SCR	2/50%		2/50%		4	2.00
SFAR below SCR		1/100%			1	2.00
SFAR @ Mosquito Road		1/100%			1	2.00
Brush Creek Reservoir	1/100%				1	1.00
Other Project Res. or Stream	1/100%				1	1.00
Other Non-Project Reservoir or Stream		1/20%	4/80%		5	2.80
Total	5/16%	12/39%	14/45%	0	31	2.29

2.3.b Crosstabulated with respondents who said fishing was their most important activity.

Reservoir or Stream	Please rate the quality of your fishing experience at...				Total	Mean
	Poor	Fair	Good	Excellent		
Ice House Reservoir		1/33%	2/67%		3	2.67
Union Valley Reservoir		1/33%	2/67%		3	2.67
Slab Creek Reservoir	1/11%	5/56%	3/33%		9	2.22
SFAR above SCR	1/50%		1/50%		2	2.00
Other Non-Project Reservoir or Stream			2/100%		2	3.00
Total	2/11%	7/37%	10/52%	0	19	2.42

3. Are improvements needed to make access to the shorelines of the reservoirs easier, safer, or more enjoyable? Results presented for (1) easier, (2) safer and (3) more enjoyable.

3.1 Easier

3.1.1 Developed Data Set

3.1.1.a Crosstabulated with respondents who identified fishing as an activity they participated in or plan to participate in.

**Are improvements needed to make access to shorelines easier? * Type of Fishing
 Crosstabulation**

Count		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Are improvements needed to make access to shorelines easier?	Yes	56	1	7	64
	No	270	6	38	314
	No Opinion	24		2	26
Total		350	7	47	404

3.1.1.b Crosstabulated with respondents who said fishing was their most important activity.

**Are improvements needed to make access to shorelines easier? * Most Important Activity
 Crosstabulation**

Count		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	Non-Fishing Activities	
Are improvements needed to make access to shorelines easier?	Yes	32		65	97
	No	160	2	388	550
	No Opinion	15		36	51
	No response			1	1
Total		207	2	490	699

3.1.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

**Facility * Are improvements needed to make access to shorelines easier?
 Crosstabulation**

Count

		Are improvements needed to make access to shorelines easier?			Total
		Yes	No	No Opinion	
Facility	Ice House Boat Launch	6	23	1	30
	West Point Boat Launch	9	15		24
	Sunset Boat Launch		15	2	17
	Loon Lake Boat Launch	4	43	5	52
Total		19	96	8	123

3.1.2 Dispersed Data Set

3.1.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

**Are improvements needed to make access to shorelines easier? * Type of Fishing Activity
 Crosstabulation**

Count

		Type of Fishing Activity			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Are improvements needed to make access to shorelines easier?	Yes	9	1		10
	No	30		5	35
	No Opinion		1		1
Total		39	2	5	46

3.1.2.b Crosstabulated with respondents who said fishing was their most important activity.

Are improvements needed to make access to shorelines easier? * Most Important Activity Crosstabulation

Count		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Are improvements needed to make access to shorelines easier?	Yes	7		8	15
	No	14	1	32	47
	No Opinion			6	6
Total		21	1	46	68

3.1.3 Dispersed Windshield – Canyonlands Data Set

3.1.3.a Crosstabulated with respondents who identified fishing as an activity they participated in. (Similar question presented.)

Any change or improvements in this area? (max 3) * Type of Fishing Crosstabulation

Count		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Any change or improvements in this area? (max 3)	Yes	6	7	2	15
	No	2		1	3
	Don't Know		2	1	3
Total		8	9	4	21

List of Changes 1 * Type of Fishing Crosstabulation

Count		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
List of Changes 1	Bathrooms & trash cans.2.	2	1	2	5
	Better parking-area.3.		1		1
	Build trails to swimming areas at Mosquito Bridge.6.	1			1
	Cleaner.2.		1		1
	Easier access-not able to launch a boat with a trailer.5.	1			1
	Eliminate dams on the river.2.		1		1
	Less broken glass and trash.2.		1		1
	Less pollution.2.		1		1
	More clearly marked OHV trails.3.		1		1
	Port-a-potty at Slab BL and at upper end.5.	1			1
	Restrict size of motors, speed limits enforcement.5.	1			1
	Stock the reservoirs and streams w/more fish.2.			1	1
	Stock with trout.5.	1			1
	Trash cans; FS needs to patrol.2.			1	1
	Trash picked up.4.		1		1
	Under age drinking-people with guns shooting.5.	1			1
Total		8	9	4	21

3.1.3.b Crosstabulated with respondents who said fishing was their most important activity. (Similar question presented.)

**Any change or improvements in this area? (max 3) * Most Important Activity
 Crosstabulation**

Count		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Any change or improvements in this area? (max 3)	Yes	5	3	14	22
	No	3		8	11
	Don't Know		2	1	3
Total		8	5	23	36

3.2 Safer

3.2.1 Developed Data Set

3.2.1.a Crosstabulated with respondents who identified fishing as an activity they participated in.

**Are improvements needed to make access to shorelines safer? * Type of Fishing
 Crosstabulation**

Count		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Are improvements needed to make access to shorelines safer?	Yes	24	1	4	29
	No	299	6	39	344
	No Opinion	25		3	28
	No response	2			2
Total		350	7	46	403

3.2.1.b Crosstabulated with respondents who said fishing was their most important activity.

**Are improvements needed to make access to shorelines safer? * Most Important Activity
 Crosstabulation**

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	Non-Fishing Activities	
Are improvements needed to make access to shorelines safer?	Yes	16		34	50
	No	173	2	420	595
	No Opinion	18		33	51
	No response			3	3
Total		207	2	490	699

3.2.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

**Facility * Are improvements needed to make access to shorelines safer?
 Crosstabulation**

Count

		Are improvements needed to make access to shorelines safer?			Total
		Yes	No	No Opinion	
Facility	Ice House Boat Launch	3	26	1	30
	West Point Boat Launch	5	19		24
	Sunset Boat Launch		14	3	17
	Loon Lake Boat Launch	6	42	4	52
Total		14	101	8	123

3.2.2 Dispersed Data Set

3.2.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Are improvements needed to make access to shorelines safer? * Type of Fishing Activity Crosstabulation

Count

		Type of Fishing Activity			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Are improvements needed to make access to shorelines safer?	Yes	3			3
	No	36		5	41
	No Opinion		2		2
Total		39	2	5	46

3.2.2.b Crosstabulated with respondents who said fishing was their most important activity.

Are improvements needed to make access to shorelines safer? * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Are improvements needed to make access to shorelines safer?	Yes	1	1	2	4
	No	20		37	57
	No Opinion			7	7
Total		21	1	46	68

3.3 More Enjoyable

3.3.1 Developed Data Set

3.3.1.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Are improvements needed to make access to shorelines more enjoyable? * Type of Fishing Crosstabulation

Count

		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Are improvements needed to make access to shorelines more enjoyable?	Yes	33	1	4	38
	No	296	6	40	342
	No Opinion	20		3	23
	No response	1			1
Total		350	7	47	404

3.3.1.b Crosstabulated with respondents who said fishing was their most important activity.

Are improvements needed to make access to shorelines more enjoyable? * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	Non-Fishing Activities	
Are improvements needed to make access to shorelines more enjoyable?	Yes	21		48	69
	No	172	2	402	576
	No Opinion	14		35	49
	No response			4	4
Total		207	2	489	698

3.3.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

**Facility * Are improvements needed to make access to shorelines more enjoyable?
 Crosstabulation**

Count

		Are improvements needed to make access to shorelines more enjoyable?			Total
		Yes	No	No Opinion	
Facility	Ice House Boat Launch	6	23	1	30
	West Point Boat Launch	2	22		24
	Sunset Boat Launch		15	2	17
	Loon Lake Boat Launch	3	47	2	52
Total		11	107	5	123

3.3.2 Dispersed Data Set

3.3.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Are improvements needed to make access to shorelines more enjoyable? * Type of Fishing Activity Crosstabulation

Count

		Type of Fishing Activity			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Are improvements needed to make access to shorelines more enjoyable?	Yes	8			8
	No	30		5	35
	No Opinion	1	2		3
Total		39	2	5	46

3.3.2.b Crosstabulated with respondents who said fishing was their most important activity.

Are improvements needed to make access to shorelines more enjoyable? * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Are improvements needed to make access to shorelines more enjoyable?	Yes	6	1	5	12
	No	15		33	48
	No Opinion			8	8
Total		21	1	46	68

4. Are improvements needed to make access to river or streams easier, safer, or more enjoyable?
 Results presented for (1) easier, (2) safer and (3) more enjoyable.

4.1 Easier

4.1.1 Developed Data Set

4.1.1.a Crosstabulated with respondents who identified fishing as an activity they participated in or plan to participate in.

Are improvements needed to make access to rivers or streams easier? * Type of Fishing Crosstabulation

Count		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Are improvements needed to make access to rivers or streams easier?	Yes	9	1	3	13
	No	189	7	37	233
	No Opinion	152		6	158
Total		350	8	46	404

4.1.1.b Crosstabulated with respondents who said fishing was their most important activity.

Are improvements needed to make access to rivers or streams easier? * Most Important Activity Crosstabulation

Count		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	Non-Fishing Activities	
Are improvements needed to make access to rivers or streams easier?	Yes	8		19	27
	No	112	1	299	412
	No Opinion	86		171	257
Total		206	1	489	696

4.1.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

**Facility * Are improvements needed to make access to rivers or streams easier?
 Crosstabulation**

Count

		Are improvements needed to make access to rivers or streams easier?			Total
		Yes	No	No Opinion	
Facility	Ice House Boat Launch	3	10	17	30
	West Point Boat Launch		19	5	24
	Sunset Boat Launch		10	7	17
	Loon Lake Boat Launch	2	30	20	52
Total		5	69	49	123

4.1.2 Dispersed Data Set

4.1.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

**Are improvements needed to make access to rivers or streams easier? * Type of Fishing
 Activity Crosstabulation**

Count

		Type of Fishing Activity			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Are improvements needed to make access to rivers or streams easier?	Yes	1	1		2
	No	32	1	5	38
	No Opinion	6			6
Total		39	2	5	46

4.1.2.b Crosstabulated with respondents who said fishing was their most important activity.

Are improvements needed to make access to rivers or streams easier? * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Are improvements needed to make access to rivers or streams easier?	Yes	1		4	5
	No	16		36	52
	No Opinion	4	1	6	11
Total		21	1	46	68

4.2 Safer

4.2.1 Developed Data Set

4.2.1.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Are improvements needed to make access to rivers or streams safer? * Type of Fishing Crosstabulation

Count

		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Are improvements needed to make access to rivers or streams safer?	Yes	5	1	3	9
	No	194	6	38	238
	No Opinion	150	1	5	156
Total		349	8	46	403

4.2.1.b Crosstabulated with respondents who said fishing was their most important activity.

Are improvements needed to make access to rivers or streams safer? * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	Non-Fishing Activities	
Are improvements needed to make access to rivers or streams safer?	Yes	7		9	16
	No	115	2	307	424
	No Opinion	85		175	260
Total		207	2	491	700

4.2.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

Facility * Are improvements needed to make access to rivers or streams safer? Crosstabulation

Count

		Are improvements needed to make access to rivers or streams safer?			Total
		Yes	No	No Opinion	
Facility	Ice House Boat Launch	3	10	17	30
	West Point Boat Launch		19	5	24
	Sunset Boat Launch		10	7	17
	Loon Lake Boat Launch	1	31	20	52
Total		4	70	49	123

4.2.2 Dispersed Data Set

4.2.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Are improvements needed to make access to rivers or streams safer? * Type of Fishing Activity Crosstabulation

Count

		Type of Fishing Activity			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Are improvements needed to make access to rivers or streams safer?	Yes	1			1
	No	33	1	5	39
	No Opinion	5	1		6
Total		39	2	5	46

4.2.2.b Crosstabulated with respondents who said fishing was their most important activity.

Are improvements needed to make access to rivers or streams safer? * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Are improvements needed to make access to rivers or streams safer?	Yes	1			1
	No	17		39	56
	No Opinion	3	1	7	11
Total		21	1	46	68

4.3 More Enjoyable

4.3.1 Developed Data Set

4.3.1.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Are improvements needed to make access to rivers or streams more enjoyable? * Type of Fishing Crosstabulation

Count

		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Are improvements needed to make access to rivers or streams more enjoyable?	Yes	10		2	12
	No	191	7	38	236
	No Opinion	149	1	6	156
Total		350	8	46	404

4.3.1.b Crosstabulated with respondents who said fishing was their most important activity.

Are improvements needed to make access to rivers or streams more enjoyable? * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	Non-Fishing Activities	
Are improvements needed to make access to rivers or streams more enjoyable?	Yes	5		17	22
	No	117	2	298	417
	No Opinion	84		175	259
Total		206	2	490	698

4.3.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

Facility * Are improvements needed to make access to rivers or streams more enjoyable? Crosstabulation

Count

		Are improvements needed to make access to rivers or streams more enjoyable?			Total
		Yes	No	No Opinion	
Facility	Ice House Boat Launch	2	11	17	30
	West Point Boat Launch		19	5	24
	Sunset Boat Launch		10	7	17
	Loon Lake Boat Launch	2	32	18	52
Total		4	72	47	123

4.3.2 Dispersed Data Set

4.3.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Are improvements needed to make access to rivers or streams more enjoyable? * Type of Fishing Activity Crosstabulation

Count

		Type of Fishing Activity			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Are improvements needed to make access to rivers or streams more enjoyable?	Yes	2	1		3
	No	30	1	5	36
	No Opinion	7			7
Total		39	2	5	46

4.3.2.b Crosstabulated with respondents who said fishing was their most important activity.

Are improvements needed to make access to rivers or streams more enjoyable? * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Are improvements needed to make access to rivers or streams more enjoyable?	Yes	2		1	3
	No	15		38	53
	No Opinion	4	1	7	12
Total		21	1	46	68

5. Did the water level of this reservoir (*or closest reservoir*) allow you to participate in the recreational activities you had planned?

5.1 Developed Data Set

5.1.a Crosstabulated with respondents who identified fishing as an activity they participated in or plan to participate in.

Crosstab

Count

		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Did water level allow you to participate in activities?	Yes	333	6	43	382
	No	7		2	9
	No Opinion	9	1	1	11
Total		349	7	46	402

5.1.b Crosstabulated with respondents who said fishing was their most important activity.

Did water level allow you to participate in activities? * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	Non-Fishing Activities	
Did water level allow you to participate in activities?	Yes	195	2	448	645
	No	6		12	18
	No Opinion	6		29	35
Total		207	2	489	698

5.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

Facility * Did water level allow you to participate in activities? Crosstabulation

Count

		Did water level allow you to participate in activities?			Total
		Yes	No	No Opinion	
Facility	Ice House Boat Launch	30			30
	West Point Boat Launch	21	2	2	25
	Sunset Boat Launch	17			17
	Loon Lake Boat Launch	50	2		52
Total		118	4	2	124

5.2 Dispersed Data Set

5.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Did reservoir water level allow you to participate in activities? * Type of Fishing Activity Crosstabulation

Count

		Type of Fishing Activity			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Did reservoir water level allow you to participate in activities?	Yes	38	1	5	44
	No Opinion	1	1		2
Total		39	2	5	46

5.2.b Crosstabulated with respondents who said fishing was their most important activity.

Did reservoir water level allow you to participate in activities? * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Did reservoir water level allow you to participate in activities?	Yes	20	1	42	63
	No Opinion	1		4	5
Total		21	1	46	68

5.3 Dispersed Windshield – Canyonlands Data Set

5.3.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Did reservoir level allow you to participate in activities planned? * Type of Fishing Crosstabulation

Count

		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Did reservoir level allow you to participate in activities planned?	Yes	7	6	2	15
	No	1	1		2
	No response			1	1
Total		8	7	3	18

5.3.b Crosstabulated with respondents who said fishing was their most important activity.

Did reservoir level allow you to participate in activities planned? * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Did reservoir level allow you to participate in activities planned?	Yes	7	2	16	25
	No	1	1	1	3
	No Opinion			1	1
	No response			1	1
Total		8	3	19	30

6. To what extent did the water level of this reservoir (*or closest reservoir*) negatively affect the quality of the experience you had planned?

6.1 Developed Data Set

6.1.a Crosstabulated with respondents who identified fishing as an activity they participated in or plan to participate in.

Crosstab

Count

		Type of Fishing		Total
		Reservoir	Both Reservoir & River/Stream	
To what degree did water level impact?	Minimal	6	1	7
	Moderate	2	1	3
Total		8	2	10

6.1.b Crosstabulated with respondents who said fishing was their most important activity.

**To what degree did water level impact? * Most Important Activity
 Crosstabulation**

Count

		Most Important Activity		Total
		Reservoir Fishing	Non-Fishing Activities	
To what degree did water level impact?	Minimal	5	3	8
	Moderate	1	4	5
	No response		4	4
Total		6	11	17

6.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

**Facility * To what degree did water level impact?
 Crosstabulation**

Count

		To what degree did water level impact?	
		Minimal	Total
Facility	West Point Boat Launch	2	2
	Loon Lake Boat Launch	2	2
Total		4	4

6.2 Dispersed Data Set

6.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

To what extent did reservoir water level negatively affect the quality of experience? * Type of Fishing Activity Crosstabulation

Count

		Type of Fishing Activity			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
To what extent did reservoir water level negatively affect the quality of experience?	None	36	1	4	41
	Minimal	1			1
	Moderate	1			1
	Significant			1	1
	No Opinion	1	1		2
Total		39	2	5	46

6.2.b Crosstabulated with respondents who said fishing was their most important activity.

To what extent did reservoir water level negatively affect the quality of experience? * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
To what extent did reservoir water level negatively affect the quality of experience?	None	20	1	37	58
	Minimal			2	2
	Moderate			2	2
	Significant			1	1
	No Opinion	1		4	5
Total		21	1	46	68

6.3 Dispersed Windshield – Canyonlands Data Set

6.3.a Crosstabulated with respondents who identified fishing as an activity they participated in.

If no, to what extent did water level negatively affect quality of experience? * Type of Fishing Crosstabulation

Count

		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
If no, to what extent did water level negatively affect quality of experience?	Minimal	3	3		6
	Moderate	1			1
	Significant	1			1
	No response			1	1
Total		5	3	1	9

6.3.b Crosstabulated with respondents who said fishing was their most important activity.

If no, to what extent did water level negatively affect quality of experience? * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
If no, to what extent did water level negatively affect quality of experience?	Minimal	3	1	2	6
	Moderate	1		1	2
	Significant	1		1	2
	No response			1	1
Total		5	1	5	11

7. Did the amount of flow in the streams allow you to participate in the recreational activities you had planned?

7.1 Developed Data Set

7.1.a Crosstabulated with respondents who identified fishing as an activity they participated in or plan to participate in.

Crosstab

Count

		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Did flow in streams allow participation	Yes	143	5	36	184
	No	16	2	1	19
	No Opinion	191	1	9	201
Total		350	8	46	404

7.1.b Crosstabulated with respondents who said fishing was their most important activity.

Did flow in streams allow participation * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	Non-Fishing Activities	
Did flow in streams allow participation	Yes	88	1	231	320
	No	11		26	37
	No Opinion	107		232	339
Total		206	1	489	696

7.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

Facility * Did flow in streams allow participation Crosstabulation

Count

		Did flow in streams allow participation			Total
		Yes	No	No Opinion	
Facility	Ice House Boat Launch	12		18	30
	West Point Boat Launch	9		15	24
	Sunset Boat Launch	5	2	10	17
	Loon Lake Boat Launch	22	2	28	52
Total		48	4	71	123

7.2 Dispersed Data Set

7.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Did amount of flow in streams allow participation in activities planned? * Type of Fishing Activity Crosstabulation

Count

		Type of Fishing Activity			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Did amount of flow in streams allow participation in activities planned?	Yes	10	2	5	17
	No	4			4
	No Opinion	25			25
Total		39	2	5	46

7.2.b Crosstabulated with respondents who said fishing was their most important activity.

Did amount of flow in streams allow participation in activities planned? * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Did amount of flow in streams allow participation in activities planned?	Yes	6		23	29
	No	2		4	6
	No Opinion	13	1	19	33
Total		21	1	46	68

7.3 Dispersed Windshield – Canyonlands Data Set

7.3.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Did amount of flow in stream allow participation in activities planned? * Type of Fishing Crosstabulation

Count

		Type of Fishing		Total
		River/Stream	Both Reservoir & River/Stream	
Did amount of flow in stream allow participation in activities planned?	Yes	3	1	4
	No	1		1
Total		4	1	5

7.3.b Crosstabulated with respondents who said fishing was their most important activity.

Did amount of flow in stream allow participation in activities planned? * Most Important Activity Crosstabulation

Count

		Most Important Activity		Total
		River/Stream Fishing	All Other Activities	
Did amount of flow in stream allow participation in activities planned?	Yes	1	10	11
	No	1	1	2
	No response		1	1
Total		2	12	14

8. To what extent did the amount of flow in the streams negatively affect the quality of the experience you had planned?

8.1 Developed Data Set

8.1.a Crosstabulated with respondents who identified fishing as an activity they participated in or plan to participate in.

Crosstab

Count		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Degree negatively impact type of experience	Minimal	1	1		2
	Moderate	3	1	1	5
	Significant	1			1
	No response	11			11
Total		16	2	1	19

8.1.b Crosstabulated with respondents who said fishing was their most important activity.

Degree negatively impact type of experience * Most Important Activity Crosstabulation

Count		Most Important Activity		Total
		Reservoir Fishing	Non-Fishing Activities	
Degree negatively impact type of experience	Minimal	1	6	7
	Moderate	1	7	8
	Significant	1		1
	No response	8	14	22
Total		11	27	38

8.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

Facility * Degree negatively impact type of experience Crosstabulation

Count

		Degree negatively impact type of experience		Total
		Minimal	No response	
Facility	Sunset Boat Launch		2	2
	Loon Lake Boat Launch	1	1	2
Total		1	3	4

8.2 Dispersed Data Set

8.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

If no, to what degree did amount of flow negatively impact type of experience planned? * Type of Fishing Activity Crosstabulation

Count

	None	Type of Fishing Activity	Total
		Reservoir	
If no, to what degree did amount of flow negatively impact type of experience planned?		2	2
Total		2	2

8.2.b Crosstabulated with respondents who said fishing was their most important activity.

If no, to what degree did amount of flow negatively impact type of experience planned? * Most Important Activity Crosstabulation

Count

		Most Important Activity		Total
		Reservoir Fishing	All Other Activities	
If no, to what degree did amount of flow negatively impact type of experience planned?	None	1	1	2
	Moderate		1	1
Total		1	2	3

8.3 Dispersed Windshield – Canyonlands Data Set

8.3.a Crosstabulated with respondents who identified fishing as an activity they participated in.

If no, to what extent did amount of flow negatively affect quality of experience? * Type of Fishing Crosstabulation

Count

		Type of Fishing	
		River/Stream	Total
If no, to what extent did amount of flow negatively affect quality of experience?	Moderate	1	1
Total		1	1

8.3.b Crosstabulated with respondents who said fishing was their most important activity.

If no, to what extent did amount of flow negatively affect quality of experience? * Most Important Activity Crosstabulation

Count

		Most Important Activity		Total
		River/Stream Fishing	All Other Activities	
If no, to what extent did amount of flow negatively affect quality of experience?	Minimal		1	1
	Moderate	1		1
	Significant		1	1
	No response		1	1
Total		1	3	4

9. Please tell me about access to information by responding “adequate,” “inadequate” or “never looked for information”? If “inadequate,” please describe any suggestions for improvement. Results presented for (1) fish stocking, (2) stream flow rates and/or depths and (3) reservoir levels.

9.1 Information Regarding Fish Stocking

9.1.1 Developed Data Set

9.1.1.a Crosstabulated with respondents who identified fishing as an activity they participated in or plan to participate in.

Info on fish stocking * Type of Fishing Crosstabulation

Count		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Info on fish stocking	adequate	105	3	14	122
	inadequate	57	1	11	69
	never looked for it	177	4	22	203
	No response	10			10
Total		349	8	47	404

Suggestions (fish stocking) * Type of Fishing Crosstabulation

Count		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Suggestions (fish stocking)	Improve Internet/web	5		1	6
	Post at facilities	16		3	19
	Post in newspaper	3			3
	Other	7			7
	No response	26	1	6	33
Total		57	1	10	68

9.1.1.b Crosstabulated with respondents who said fishing was their most important activity.

Info on fish stocking * Most Important Activity Crosstabulation

Count		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	Non-Fishing Activities	
Info on fish stocking	adequate	74		100	174
	inadequate	39		40	79
	never looked for it	85	1	348	434
	No response	9		2	11
Total		207	1	490	698

Suggestions (fish stocking) * Most Important Activity Crosstabulation

Count		Most Important Activity		Total
		Reservoir Fishing	Non-Fishing Activities	
Suggestions (fish stocking)	Improve Internet/web	2	4	6
	Post at facilities	12	10	22
	Post in newspaper	1	2	3
	Other	3	5	8
	No response	20	19	39
Total		38	40	78

9.1.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

Facility * Info on fish stocking Crosstabulation

Count		Info on fish stocking				Total
		adequate	inadequate	never looked for it	No response	
Facility	Ice House Boat Launch	16	4	9	1	30
	West Point Boat Launch	9		9	7	25
	Sunset Boat Launch	7	3	7		17
	Loon Lake Boat Launch	18	16	18		52
Total		50	23	43	8	124

9.1.2 Dispersed Data Set

9.1.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Info on fish stocking * Type of Fishing Activity Crosstabulation

Count		Type of Fishing Activity			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Info on fish stocking	adequate	13		3	16
	inadequate	5	1		6
	never looked for it	20	1	2	23
	No response	1			1
Total		39	2	5	46

Suggestions (fish stocking) * Type of Fishing Activity Crosstabulation

Count		Type of Fishing Activity		Total
		Reservoir	River/Stream	
Suggestions (fish stocking)	Improve Internet/web	1		1
	Post at facilities		1	1
	Post in newspaper	3		3
	No response	1		1
Total		5	1	6

9.1.2.b Crosstabulated with respondents who said fishing was their most important activity.

Info on fish stocking * Most Important Activity Crosstabulation

Count		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Info on fish stocking	adequate	10		6	16
	inadequate	3		3	6
	never looked for it	7	1	37	45
	No response	1			1
Total		21	1	46	68

Suggestions (fish stocking) * Most Important Activity Crosstabulation

Count

		Most Important Activity		Total
		Reservoir Fishing	All Other Activities	
Suggestions (fish stocking)	Improve Internet/web	1		1
	Post at facilities		1	1
	Post in newspaper	2	1	3
	No response		1	1
Total		3	3	6

9.1.3 Dispersed Windshield – Canyonlands Data Set

9.1.3.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Info on fish stocking * Type of Fishing Crosstabulation

Count

		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Info on fish stocking	adequate	2		1	3
	inadequate	1	1	1	3
	never looked for it	4	8	2	14
	No response	1			1
Total		8	9	4	21

Suggestions (fish stocking) * Type of Fishing Crosstabulation

Count

		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Suggestions (fish stocking)	Other		1		1
	No response	1		1	2
Total		1	1	1	3

9.1.3.b Crosstabulated with respondents who said fishing was their most important activity.

Info on fish stocking * Most Important Activity Crosstabulation

Count		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Info on fish stocking	adequate	3		2	5
	inadequate	1		4	5
	never looked for it	3	5	17	25
	No response	1			1
Total		8	5	23	36

Suggestions (fish stocking) * Most Important Activity Crosstabulation

Count		Most Important Activity		Total
		Reservoir Fishing	All Other Activities	
Suggestions (fish stocking)	Post at facilities		1	1
	Other		1	1
	No response	1	2	3
Total		1	4	5

9.2 Information Regarding Stream Flow Rates and/or Depths

9.2.1 Developed Data Set

9.2.1.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Info on stream flow rate &/or depths * Type of Fishing Crosstabulation

Count		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Info on stream flow rate &/or depths	adequate	77		15	92
	inadequate	28	2	11	41
	never looked for it	233	5	20	258
	No response	11	1		12
Total		349	8	46	403

Suggestions (stream flow rate) * Type of Fishing Crosstabulation

Count		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Suggestions (stream flow rate)	Improve Internet/web	2		1	3
	Post at facilities	2		1	3
	Post in newspaper	2			2
	Other	2			2
	No response	20	2	8	30
Total		28	2	10	40

9.2.1.b Crosstabulated with respondents who said fishing was their most important activity.

Info on stream flow rate &/or depths * Most Important Activity Crosstabulation

Count		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	Non-Fishing Activities	
Info on stream flow rate &/or depths	adequate	50		106	156
	inadequate	18		46	64
	never looked for it	131	1	333	465
	No response	8		6	14
Total		207	1	491	699

Suggestions (stream flow rate) * Most Important Activity Crosstabulation

Count		Most Important Activity		Total
		Reservoir Fishing	Non-Fishing Activities	
Suggestions (stream flow rate)	Improve Internet/web	1	6	7
	Post at facilities	2	2	4
	Post in newspaper	2		2
	Other	2		2
	No response	10	38	48
Total		17	46	63

9.2.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

Facility * Info on stream flow rate &/or depths Crosstabulation

Count		Info on stream flow rate &/or depths				Total
		adequate	inadequate	never looked for it	No response	
Facility	Ice House Boat Launch	5	2	22	1	30
	West Point Boat Launch	9	2	9	5	25
	Sunset Boat Launch	5	2	10		17
	Loon Lake Boat Launch	14	4	34		52
Total		33	10	75	6	124

9.2.2 Dispersed Data Set

9.2.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Info on stream flow rate &/or depths * Type of Fishing Activity Crosstabulation

Count		Type of Fishing Activity			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Info on stream flow rate &/or depths	adequate	9	1	4	14
	inadequate	3			3
	never looked for it	26	1	1	28
	No response	1			1
Total		39	2	5	46

Suggestions (stream flow rate) * Type of Fishing Activity Crosstabulation

Count		Type of Fishing Activity	Total
		Reservoir	
Suggestions (stream flow rate)	Improve Internet/web	1	1
	Post in newspaper	2	2
Total		3	3

9.2.2.b Crosstabulated with respondents who said fishing was their most important activity.

Info on stream flow rate &/or depths * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Info on stream flow rate &/or depths	adequate	6		11	17
	inadequate	3			3
	never looked for it	11	1	35	47
	No response	1			1
Total		21	1	46	68

Suggestions (stream flow rate) * Most Important Activity Crosstabulation

Count

		Most Important Activity	Total
		Reservoir Fishing	
Suggestions (stream flow rate)	Improve Internet/web	1	1
	Post in newspaper	2	2
Total		3	3

9.2.3 Dispersed Windshield – Canyonlands Data Set

9.2.3.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Info on stream flow rate &/or depths * Type of Fishing Crosstabulation

Count

		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Info on stream flow rate &/or depths	adequate	1	2	1	4
	inadequate	1		1	2
	never looked for it	5	7	2	14
	No response	1			1
Total		8	9	4	21

Suggestions (stream flow rate) * Type of Fishing Crosstabulation

Count

		Type of Fishing		Total
		Reservoir	Both Reservoir & River/Stream	
Suggestions (stream flow rate)	No response	1	1	2
Total		1	1	2

9.2.3.b Crosstabulated with respondents who said fishing was their most important activity.

Info on stream flow rate &/or depths * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Info on stream flow rate &/or depths	adequate	2	1	6	9
	inadequate	1		2	3
	never looked for it	4	4	15	23
	No response	1			1
Total		8	5	23	36

Suggestions (stream flow rate) * Most Important Activity Crosstabulation

Count

		Most Important Activity		Total
		Reservoir Fishing	All Other Activities	
Suggestions (stream flow rate)	Other		1	1
	No response	1	1	2
Total		1	2	3

9.3 Information Regarding Reservoir Levels

9.3.1 Developed Data Set

9.3.1.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Info on reservoir levels * Type of Fishing Crosstabulation

Count		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Info on reservoir levels	adequate	171	1	23	195
	inadequate	37		8	45
	never looked for it	134	7	15	156
	No response	8			8
Total		350	8	46	404

Suggestions (reservoir levels) * Type of Fishing Crosstabulation

Count		Type of Fishing		Total
		Reservoir	Both Reservoir & River/Stream	
Suggestions (reservoir levels)	Improve Internet/web	11	2	13
	Post at facilities	6		6
	Post in newspaper	2		2
	Other	3		3
	No response	15	6	21
Total		37	8	45

9.3.1.b Crosstabulated with respondents who said fishing was their most important activity.

Info on reservoir levels * Most Important Activity Crosstabulation

Count		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	Non-Fishing Activities	
Info on reservoir levels	adequate	103		219	322
	inadequate	21		55	76
	never looked for it	75	1	213	289
	No response	7		2	9
Total		206	1	489	696

Suggestions (reservoir levels) * Most Important Activity Crosstabulation

Count		Most Important Activity		Total
		Reservoir Fishing	Non-Fishing Activities	
Suggestions (reservoir levels)	Improve Internet/web	6	18	24
	Post at facilities	3	6	9
	Post in newspaper	2	1	3
	Other		5	5
	No response	10	25	35
Total		21	55	76

9.3.1.c Crosstabulated with respondents who said reservoir fishing was their most important activity AND who was surveyed at a boat launch facility.

Facility * Info on reservoir levels Crosstabulation

Count		Info on reservoir levels				Total
		adequate	inadequate	never looked for it	No response	
Facility	Ice House Boat Launch	18	1	10	1	30
	West Point Boat Launch	7	3	9	5	24
	Sunset Boat Launch	10	2	5		17
	Loon Lake Boat Launch	26	4	22		52
Total		61	10	46	6	123

9.3.2 Dispersed Data Set

9.3.2.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Info on reservoir levels * Type of Fishing Activity Crosstabulation

Count		Type of Fishing Activity			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Info on reservoir levels	adequate	20	1	4	25
	inadequate	5			5
	never looked for it	13	1	1	15
	No response	1			1
Total		39	2	5	46

Suggestions (reservoir levels) * Type of Fishing Activity Crosstabulation

Count		Type of Fishing Activity	Total
		Reservoir	
Suggestions (reservoir levels)	Improve Internet/web	3	3
	Post in newspaper	1	1
	No response	1	1
Total		5	5

9.3.2.b Crosstabulated with respondents who said fishing was their most important activity.

Info on reservoir levels * Most Important Activity Crosstabulation

Count		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Info on reservoir levels	adequate	12		19	31
	inadequate	3	1	1	5
	never looked for it	5		26	31
	No response	1			1
Total		21	1	46	68

Suggestions (reservoir levels) * Most Important Activity Crosstabulation

Count

		Most Important Activity			Total
		Reservoir Fishing	River/Stream Fishing	All Other Activities	
Suggestions (reservoir levels)	Improve Internet/web	2	1		3
	Post in newspaper	1			1
	No response			1	1
Total		3	1	1	5

9.3.3 Dispersed Windshield – Canyonlands Data Set

9.3.3.a Crosstabulated with respondents who identified fishing as an activity they participated in.

Info on reservoir levels * Type of Fishing Crosstabulation

Count

		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Info on reservoir levels	adequate	5	1	1	7
	inadequate	1	1	1	3
	never looked for it	2	7	2	11
Total		8	9	4	21

Suggestions (reservoir levels) * Type of Fishing Crosstabulation

Count

		Type of Fishing			Total
		Reservoir	River/Stream	Both Reservoir & River/Stream	
Suggestions (reservoir levels)	Post at facilities	1	1		2
	No response			1	1
Total		1	1	1	3

9.3.3.b Crosstabulated with respondents who said fishing was their most important activity.

Info on reservoir levels * Most Important Activity Crosstabulation

Count

	Most Important Activity			Total
	Reservoir Fishing	River/Stream Fishing	All Other Activities	
Info on reservoir levels adequate	5		6	11
inadequate	1		3	4
never looked for it	2	5	14	21
Total	8	5	23	36

Suggestions (reservoir levels) * Most Important Activity Crosstabulation

Count

	Most Important Activity		Total
	Reservoir Fishing	All Other Activities	
Suggestions (reservoir levels) Post at facilities	1	1	2
No response		2	2
Total	1	3	4

10. Focused results for only those respondents that listed “River/Stream Fishing” as 1st, 2nd or 3rd most important activity.

10.1. Are improvements needed to make access to rivers or streams easier, safer, or more enjoyable?

Easier?

Data Set	Improvements needed to make access to rivers or streams easier?						Total
	YES		NO		No Opinion		
Developed (n=698)	3	11%	22	82%	2	7%	27
Dispersed (n=68)	1	25%	2	50%	1	25%	4
Windshield CB (n=33)	0	0%	6	100%	0	0%	6
Canyonlands (n=36)	-	-	-	-	-	-	-
Total	4		30		3		37

Dataset	ID #	Date of Survey	Survey Location	If yes, what?
Developed	71	7/9	Azalea Cove/Lone Rock CG	Improve road and trail access to river or stream
Developed	101	7/9	Gerle Creek CG	Remove some of the brush along the river or stream
Developed	415	8/10	Ice House CG	Improve road and trail access to river or stream
Dispersed	34	7/7	Wentworth Springs Rd & Gerle Creek SE Quarter.	Improve road and trail access to river or stream.

Safer?

Data Set	Improvements needed to make access to rivers or streams safer?						Total
	YES		NO		No Opinion		
Developed	2	7%	24	89%	1	4%	27
Dispersed	0	0%	2	50%	2	50%	4
Windshield CB	0	0%	6	100%	0	0%	6
Canyonlands	-	-	-	-	-	-	-
Total	2		32		3		37

Dataset	ID #	Date of Survey	Survey Location	If yes, what?
Developed	9	7/17	Ice House BL	No Response
Developed	295	8/11	Loon Lake Equestrian CG	Better Parking

More Enjoyable?

Data Set	Improvements needed to make access to rivers or streams more enjoyable?						Total
	YES		NO		No Opinion		
Developed	2	7%	23	86%	2	7%	27
Dispersed	1	25%	2	50%	1	25%	4
Windshield CB	1	17%	5	83%	0	0%	6
Canyonlands	-	-	-	-	-	-	-
Total	4		30		3		37

Dataset	ID #	Date of Survey	Survey Location	If yes, what?
Developed	9	7/17	Ice House BL	No response
Developed	365	8/30	Northwind CG	Improve road and trail access to river or stream
Dispersed	34	7/7	Wentworth Springs Rd & Gerle Creek SE Quarter.	Improve road and trail access to river or stream.
Windshield CB	32	8/3	Wentworth Springs Rd & Gerle Creek SE Quarter.	Other

10.2.1. Did the amount of flow in the streams allow you to participate in the activities you had planned?

Data Set	Did flow in streams allow participation?						Total
	YES		NO		No Opinion		
Developed	22	81%	4	15%	1	4%	27
Dispersed	3	75%	0	0%	1	25%	4
Windshield CB	2	33%	4	67%	0	0%	6
Canyonlands	4	80%	1	20%	0	0%	5
Total	31		9		2		42

Dataset	ID #	Date of Survey	Survey Location
Developed	101	7/9	Gerle Creek CG
Developed	295	8/11	Loon Lake Equestrian CG
Developed	365	8/30	Northwind CG
Developed	415	8/10	Ice House CG
Windshield CB	25	8/19	South Fork Silver Creek above Ice House Rd
Windshield CB	26	8/19	South Fork Silver Creek above Ice House Rd
Windshield CB	31	8/3	South Fork Silver Creek above Ice House Rd
Windshield CB	32	8/3	Wentworth Springs Rd. & Gerle Creek-SE Quarter.
Canyonlands	27	7/28	Forebay Road @ SFAR.

10.2.2 To what degree did the amount of flow in the streams negatively impact your ability to have the type of experience you had planned? (Not asked in windshield survey instruments.)

Data Set	What degree did flow negatively impact type of experience?										Total
	None		Minimal		Moderate		Significant		No Opinion		
Developed	0	0%	2	50%	2	50%	0	0%	0	0%	4
Dispersed	0	0%	0	0%	0	0%	0	0%	0	0%	0
Windshield CB	-	-	-	-	-	-	-	-	-	-	-
Canyonlands	-	-	-	-	-	-	-	-	-	-	-
Total	0		2		2		0		0		4

10.2.3 (If minimal, moderate or significant) On what segments of streams, what impacts and how did it affect your trip?

Dataset	ID #	Date of Survey	Survey Location	Stream, impact and how affected trip?
Developed	101	7/9	Gerle Creek CG	GC below LLD – pools not deep enough for fish increase flow slightly
Developed	295	8/11	Loon Lake Equestrian CG	Silver Creek, Gerle Creek – Water was a little low-made it difficult to fish.
Developed	365	8/30	Northwind CG	Jones Fork Silver Creek – level too low, lots of debris, remove trees and logs, couldn't fish
Developed	415	8/10	Ice House CG	Section coming from Ice House up to Wench Creek – wasn't able to swim & fish – water too low

10.3.1 To what extent did the amount of flow in the streams negatively affect the quality of the experience you had planned?

Data Set	Extent negatively affecting quality of experience										Total
	None		Minimal		Moderate		Significant		No Opinion		
Developed	20	74%	2	7%	4	15%	0	0%	1	4%	27
Dispersed	3	75%	0	0%	0	0%	0	0%	1	25%	4
Windshield CB	0	0%	1	25%	2	50%	1	25%	0	0%	4
Canyonlands	0	0%	0	0%	1	100%	0	0%	0	0%	1
Total	23		3		7		1		2		36

10.3.2 (If minimal, moderate or significant) How did it affect the quality of your experience?

Dataset	ID #	Date of Survey	Survey Location	How?
Developed	101	7/9	Gerle Creek CG	Not many fish present – they need deeper pools.
Developed	295	8/11	Loon Lake Equestrian CG	Poor fishing experience because water level was low.
Developed	365	8/30	Northwind CG	Couldn't fish – planned activity.
Developed	415	8/10	Ice House CG	I couldn't swim.
Developed	457	8/4	Airport Flat CG	Little more water.
Developed	516	8/2	Gerle Creek CG	Fishing holes are not as deep – hard on fish.
Windshield CB	25	8/19	South Fork Silver Creek above Ice House Res.	Low flow leads to deterioration of trout habitat.
Windshield CB	26	8/19	South Fork Silver Creek above Ice House Res.	We didn't get to slide down the rocks.
Windshield CB	31	8/3	South Fork Silver Creek above Ice House Res.	Not enough water.
Windshield CB	32	8/3	Wentworth Springs Rd & Gerle Creek - SE Quarter.	Fishing wasn't as good as when the water was higher.
Canyonlands	27	7/28	Forebay Road @ SFAR.	Near gate to Camino PH – water started rising- not able to walk the shoreline- had to climb out.

APPENDIX G

APPRAISAL SURVEYS AND HYPOTHETICAL QUESTION

- G Methods and Results
- G.1 Appraisal Unregulated Streams 2002 – Instrument
- G.2 Appraisal Unregulated Streams 2003 – Instrument
- G.3 Appraisal Spider – Instrument
- G.4 Frequencies - Dispersed Appraisals – Unregulated Streams
- G.5 Frequencies - Dispersed Appraisals – Spider Lake
- G.6 Dispersed Appraisals Unregulated Streams – SPSS Data (Raw Data Provided on CD by Request)
- G.7 Dispersed Appraisals Spider Lake – SPSS Data (Raw Data Provided on CD by Request)

Appendix G. Appraisal Surveys and Hypothetical Question

Background

In addition to the surveys conducted at Project recreation facilities and dispersed areas near the Project reservoirs during the summer of 2002, the Licensee conducted abbreviated surveys in dispersed areas generally beyond one-quarter mile from the shoreline of a primary Project reservoir – referred to as dispersed appraisal surveys – during the summer of 2002 and the summer of 2003. The primary purpose of the dispersed appraisal surveys was to assess the relationship between the visitor and the Project. The dispersed appraisals are classified in the following two groupings:

Dispersed Appraisals – Unregulated Streams: abbreviated surveys conducted at undeveloped campsites along the upper Jones Fork Silver Creek, the lower Jones Fork Silver Creek and Big Silver Creek, primarily to assess the visitor’s association to the Project. These sites are generally beyond one-quarter mile from the nearest Project reservoir shoreline where there is a possible or probable relationship between the visitor and the Project. The survey sites were identified during the May 16, 2002, survey design meeting held at the Eldorado National Forest’s (ENF) Pacific Ranger District office.

Dispersed Appraisals – Spider Lake: abbreviated surveys conducted along the shoreline of Spider Lake, a non-Project, natural lake, primarily to assess the visitor’s association to the Project.

The Licensee also asked a hypothetical survey question in all 2002 and 2003 summer survey efforts to help understand the relationship between the visitor and the Project. After asking the respondent several questions – including whether they intended to camp where they are presently camping, the recreational activities they are participating in, and how important various settings, facilities and services were in their decision to visit the Crystal Basin – the following hypothetical question was asked: *“how likely or unlikely would you be to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist?”*

This appendix presents the results of the appraisal surveys and the hypothetical survey question. The following attachments to this appendix contain the survey instruments and the survey results in SPSS format and frequency tables for the dispersed appraisals:

1. Survey Instrument – Unregulated Streams 2002
2. Survey Instrument – Unregulated Streams 2003
3. Survey Instrument – Spider Lake
4. Survey Results – Frequency Tables for Unregulated Streams
5. Survey Results – Frequency Tables for Spider Lake
6. SPSS Survey Data – Unregulated Streams
7. SPSS Survey Data – Spider Lake

Methodology

The Licensee used several survey instruments during the 2002 summer survey period: one for developed sites (campgrounds, day use areas and boat launches); one for identified dispersed use areas near the reservoirs (day use and overnight); and two windshield (mail-in) versions specific to either Crystal Basin or Canyonlands locations.

In addition, in areas where there was not a clear understanding of the recreational use as it relates to the Project, the Licensee conducted appraisal surveys to assess the visitor’s relationship to the Project. These appraisals were conducted at ENF-identified areas along the upper Jones Fork Silver Creek, the lower Jones Fork Silver Creek, Big Silver Creek and Spider Lake. The basis for assessing the relationship to the Project included the users’ destination, primary activities, route of travel (for Spider Lake only) and the importance of several settings, facilities and services in deciding to visit the Crystal Basin. The appraisals differ from the other questionnaires primarily in that the respondents were asked fewer questions.

The 2002 summer sampling period was from the 4th of July weekend through Labor Day weekend. At dispersed appraisal areas, sampling occurred on two holiday weekend days (one from the July 4th weekend and one from the Labor Day weekend), two non-holiday weekend days, and two non-holiday weekdays (randomly selected), for a total of 6 days during the 61-day sample period. Because the population size was unknown, professional judgment was used to determine the number and type of sample days. Surveys (face-to-face interviews and windshield) at “day-use” dispersed areas were conducted between 10:00 am and 5:00 pm. Face-to-face interviews at “overnight” dispersed areas were conducted in either the morning or the evening. An *n* of 0 was used at all dispersed appraisal areas except in the following case: for the northern half of Spider Lake, if a large number of groups occupied the area an *n* of 3 was used.

Table 1 shows the number of surveys completed at dispersed appraisal areas during the 2002 summer survey period.

Table G1. Schedule table for completed dispersed appraisals during the 2002 summer survey period.

	7/6	7/16	8/3	8/11	8/19	8/31	Total
	Sat.	Tues.	Sat.	Sun.	Mon.	Sat.	
upper Jones Fork Silver Creek area	5	0	4	2	2	2	15
lower Jones Fork Silver Creek area	1	0	1	0	0	4	6
Big Silver Creek area	3	0	1	4	0	0	8
Spider Lake area	9	2	4	5	4	8	32
Total	18	2	10	11	6	14	61

During the first half of the 2003 summer (May 24 through July 2), the Licensee conducted appraisal surveys along the unregulated streams, supplementing the appraisal surveys conducted in the same areas during the second half of the 2002 summer (July 4 through September 2), using the same instrument and methodology described above. The primary purpose of this survey

effort was to increase the sample size of the “dispersed appraisals – unregulated streams” area. Table 2 shows the number of surveys completed at dispersed appraisal areas during the 2003 summer survey period.

Table G2. Schedule table for completed dispersed appraisals during the 2003 summer survey period.

	5/25	5/29	5/31	6/5	6/7	6/12	6/21	6/24	6/29	
	Sun.	Thurs.	Sat.	Thurs.	Sat.	Thurs.	Sat.	Tues.	Sun.	Total
upper Jones Fork Silver Creek area	11	1	0	1	0	1	6	1	4	25
lower Jones Fork Silver Creek area	6	0	1	0	2	0	5	0	3	17
Big Silver Creek area	3	0	1	0	3	0	3	0	1	11
Total	20	1	2	1	5	1	14	1	8	53

The 2003 supplemental surveys concluded with three new post interview questions that were added to document respondent comprehensibility of the hypothetical survey question: “*How likely or unlikely would you be to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist?*” After the preface “*Earlier I asked you how likely or unlikely..., and you answered ...*,” the following three questions were asked: (1) why did you answer the question as...? (2) did you think the question was difficult to understand? (if yes, what specifically about the question made it difficult to understand?) and (3) did you think the question was difficult to answer? (if yes, what specifically about the question made it difficult to answer?).

The results presented in this appendix for “dispersed appraisal surveys conducted along unregulated streams” contain data from both the 2002 and 2003 survey efforts.

Results

The UARP’s four primary recreation reservoirs – Ice House, Union Valley, Gerle Creek and Loon Lake – provide significant recreational opportunities for visitors to the ENF’s 85,000-acre Crystal Basin Recreation Area (Crystal Basin). Nearly all the lands surrounding the UARP reservoirs within the FERC Project Boundary are federal lands managed by the Forest Service and are available to the public for recreational purposes.

Through agreements between SMUD and the ENF, subsequently approved by the Federal Energy Regulatory Commission, SMUD constructed campgrounds, boat launches and picnic facilities around the UARP’s primary reservoirs. These facilities are owned and operated by the ENF and are located on federal lands. SMUD contributes funds annually to the ENF for facility administration, operation and maintenance.

One of the ENF’s goals in the relicensing of the UARP is to assess the level of project-induced recreation. Issue Question 20 asks: “*What is the level of Project-induced recreation (e.g., what would the recreational opportunities be today if the Project were not built)?*” Several survey questions were asked of visitors to help answer this question, including:

- Is your visit to (state reservoir name, location, or campground):
 - the primary destination of your trip?
 - a side trip while camped at another location in the Crystal Basin?
 - or a stop on route to another destination? If so, where?

- If you are staying overnight in the Crystal Basin, are you:
 - camping at a campground in the Crystal Basin? (record campground name)
 - camping in an undeveloped campsite? (describe location)
 - or staying in a resort or private cabin or residence? (record resort or describe location)

- If you are staying overnight at this location, did you plan to stay here or did you intend to stay at a developed campground? (Question for only those overnight visitors who were not surveyed at a developed facility.)
 - Intended to stay here
 - Intended to stay at a developed campground (specify which one)
 - Not staying at an undeveloped campsite

- Did you arrive here in a vehicle? If yes, did you cross Loon Lake Dam or arrive by another route (specify)? (Question for only Spider Lake visitors.)

- From the activities listed on this card, please select the recreational activities you have participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping.
 - Activities listed on card: backpacking, hunting, sail boating, bicycling, off-highway vehicle use, swimming, canoeing/kayaking, picnicking, visiting cultural/historic sites, fishing (lake or reservoir), photography, wildlife viewing, fishing (stream or river), power boating, hiking/walking, PWC use (jet ski), and other (specify).

- What are your three most important recreational activities from this list?
 - Activities listed on card: backpacking, hunting, sail boating, bicycling, off-highway vehicle use, swimming, canoeing/kayaking, picnicking, visiting cultural/historic sites, fishing (lake or reservoir), photography, wildlife viewing, fishing (stream or river), power boating, hiking/walking, PWC use (jet ski), and other (specify).

- From the settings listed on this card, please rate how important these settings are in your decision to visit the Crystal Basin. (Scale: not at all important somewhat important, moderately important, extremely important.)
 - Setting rated: mountain/forested area, natural lakes and ponds, reservoirs, and rivers/streams.

- From the facilities and services listed on the card, please rate how important these facilities and services are in your decision to visit the Crystal Basin. (Scale: not at all important somewhat important, moderately important, extremely important.)
 - Facilities and services rated: boat launch ramps, developed campgrounds, developed swimming/beach areas, non-motorized trails, OHV trails, picnic facilities, two-lane paved road access.
- What other areas have you visited or plan to visit during your stay at the Crystal Basin, and what is the primary activity you did or will do there?
- How likely or unlikely would you be to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist? (Scale: very unlikely, unlikely, likely, very likely.)
- Earlier I asked you how likely or unlikely... and you answered ... why did you answer the question as...? Did you think the question was difficult to understand? If yes, what specifically about the question made it difficult to understand? Did you think the question was difficult to answer? If yes, what specifically about the question made it difficult to answer? (Question for only those visitor to unregulated streams during 2003.)

Frequency tables contained in attachments, organized by survey area, show the results to the survey questions listed above. The following tables compare various results from each survey area.

Table 3 shows the percent of visitors surveyed that identified the survey location as their primary destination vs. a side trip or a stop on route to another destination. Spider Lake is located adjacent to the Rubicon OHV Trail and the Rubicon Hiking Trail; this proximity likely explains why 31 percent of the respondents surveyed at Spider Lake considered their stay there a stop on route to another destination. Essentially all respondents surveyed along unregulated streams identified the survey location as their primary destination.

Type of Visit	Survey Area ¹	
	Dispersed – Unregulated Streams	Dispersed – Spider Lake
Primary destination of trip	99 %	59 %
A side trip while camped at another location in the Crystal Basin	0 %	10 %
A stop on route to another destination	0 %	31 %
Total	100 % ²	100 %

¹ Sample size: Dispersed – Unregulated Streams, n=81; Dispersed – Spider Lake, n=32.

² No response: 1 %.

Most overnight visitors surveyed in dispersed settings stated they were camping in an undeveloped campsite. And most overnight visitors surveyed in dispersed settings stated they intended to camp in an undeveloped area, versus staying in a developed campground (Table 4).

Type of Camping Planned	Survey Area ¹	
	Dispersed - Unregulated Streams	Dispersed – Spider Lake
Intended to camp in an undeveloped area	96 %	100 %
Intended to camp at a developed campground	4 %	0 %
Total	100 %	100 %

¹ Sample size: Dispersed – Unregulated Streams, n=81; Dispersed – Spider Lake, n=30.

Tables 5 and 6 provide an indication of where else visitors to the dispersed appraisal areas go to recreate in the Crystal Basin during a single visit. For Table 5, the results can be read as follows: of the 82 visitors surveyed in dispersed areas along the unregulated streams, 23, or 28 percent, stayed at the current location during the visit. Of the 59 surveyed visitors who visited other areas, 27, representing 33 percent of the 82 surveyed visitors, visited another area at Ice House Reservoir; 19, representing 23 percent of the 82 surveyed visitors, visited another area at Union Valley Reservoir; etc. Each respondent could have identified up to five other areas.

	Count	Percent of Cases
Stayed at current location	23	28.0
Visited other areas	59	72.0
Other Areas Visited		
Ice House Reservoir	27	32.9
Union Valley Reservoir	19	23.2
Other	17	20.1
Loon Lake Reservoir	12	14.6
Wrights Lake	9	11.0
Bassi Falls	9	11.0
Ice House Resort	4	4.9
Other non-Project streams	3	3.7
Rubicon OHV Trail / Wentworth Springs Road	3	3.7
Gerle Creek below Loon Lake Dam	2	2.4
South Fork Silver Creek below Ice House Dam	1	1.2
Bunker Hill Lookout	1	1.2
McKinstry Lake	1	1.2
Robbs Hut	1	1.2

¹ Sample size: n=82.

² Includes the survey site and the visitor’s campground, if applicable.

	Count	Percent of Cases
Stayed at current location	1	3.1
Visited other areas	31	96.9
Other Areas Visited		
Rubicon OHV Trail / Wentworth Springs Road	24	75.0
Buck Island Reservoir	15	46.9
Loon Lake Reservoir	10	31.3
Rubicon Hiking Trail	4	12.5
Spider Lake	3	9.4
Wrights Lake	2	6.3
Ice House Reservoir	2	6.3
Rockbound Lake	2	6.3
Rubicon Reservoir	2	6.3
Gerle Creek below Loon Lake Dam	1	3.1
Other	1	3.1

¹ Sample size: n=32.

² Includes the survey site and the visitor’s campground, if applicable.

Table 7 shows the average (mean) ratings of importance of various settings in the visitor’s decision to come to the Crystal Basin, organized by survey area. Similarly, Table 8 shows the average (mean) ratings of importance of various facilities and services in the visitor’s decision to come to the Crystal Basin, by survey area.

Setting	Survey Area²	
	Dispersed – Unregulated Streams	Dispersed – Spider Lake
Mountain / Forested Area	3.86	3.69
Natural Lakes & Ponds	3.59	3.75
Reservoirs	3.25	3.16
Rivers / Streams	3.86	3.25

¹ Scale: 1=not at all important, 2=somewhat important, 3=moderately important, and 4=extremely important.

² Sample size: Dispersed – Unregulated Streams, n=82; Dispersed – Spider Lake, n=32.

Facility or Service	Survey Area²	
	Dispersed – Unregulated Streams	Dispersed – Spider Lake
Boat Launch Ramps	2.03	1.34
Developed Campgrounds	1.97	1.53
Developed Swimming/ Beach Areas	2.34	1.78
Non-Motorized Trails	2.87	2.34
OHV Trails	3.09	3.59
Picnic Facilities	2.24	1.50
Two-Lane Paved Road Access	2.42	2.19

¹ Scale: 1=not at all important, 2=somewhat important, 3=moderately important, and 4=extremely important.

² Sample size: Dispersed – Unregulated Streams, n=82; Dispersed – Spider Lake, n=32.

The average (mean) ratings of visitor's likelihood to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist, was 2.92 for the Unregulated Streams; 3.19 for Spider Lake; 3.28 for Dispersed Wilderness Trailhead (n=21); 2.31 for Dispersed (n=67); and 2.22 for Developed (n=686); based on a four point scale where: 1=Very Unlikely, 2=Unlikely, 3=Likely, and 4=Very Likely.

To document respondent comprehensibility of the hypothetical survey question "*How likely or unlikely would you be to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist?*," the 2003 surveys conducted in dispersed appraisal areas along unregulated streams concluded with three new post interview questions. After the preface "earlier I asked you how likely or unlikely..., and you answered ...," the following three questions were asked: (1) why did you answer the question as...?, (2) did you think the question was difficult to understand? (if yes, what specifically about the question made it difficult to understand?), and (3) did you think the question was difficult to answer? (if yes, what specifically about the question made it difficult to answer?). Attachment 2 shows the survey instrument with the post interview questions.

Tables 9 through 15 show the results of the 2003 post interview questions conducted in disperse appraisal areas along unregulated streams, including the verbatim responses to open ended questions. A total of 53 surveys were conducted. In response to the question "*Did you think the question was difficult to understand?*," five (9.4 percent), answered "yes," and 48 (90.6 percent) answered "no." And in response to the question "*Did you think the question was difficult to answer?*," six (11.3 percent) answered "yes," and 47 (88.7 percent), answered "no."

Table G9. How likely or unlikely to come to CB

	Frequency	Percent	Cumulative Percent
Very unlikely	5	9.4	9.4
Unlikely	5	9.4	18.9
Likely	21	39.6	58.5
Very likely	21	39.6	98.1
Don't know	1	1.9	100.0
Total	53	100.0	

Table G10. Did you think the question was difficult to UNDERSTAND?

	Frequency	Percent	Valid Percent	Cumulative Percent
Yes	5	9.4	9.4	9.4
No	48	90.6	90.6	100.0
Total	53	100.0	100.0	

Table G11. What specifically about the question made it difficult to UNDERSTAND?

Because I don't have a good English.				
Didn't know what the forest was like before the dams were built.				
Don't understand the significance of the dams or why they were built				
The question is worded poorly.				
The way it is worded, it's confusing.				

Table G12. Did you think the question was difficult to ANSWER?

	Frequency	Percent	Valid Percent	Cumulative Percent
Yes	6	11.3	11.3	11.3
No	47	88.7	88.7	100.0
Total	53	100.0	100.0	

Table G13. What specifically about the question made it difficult to ANSWER?

Because I don't understand the hydro project.				
Don't have an understanding of the purpose of the dams.				
Don't know if building the dams was good for the wildlife & same as previous answer.				
No way if I could predict what it would be like if the reservoirs did not exist.				
Question was worded poorly.				
We don't know too much about the dams and reservoirs here.				

Table G14. Earlier I asked you... and you said... why did you say...

L= LIKLEY (21)				
Because I'm mostly interested in OHV trails and the streams.				
Because of the streams around here, we can still use the stream areas for recreation.				
Because of the view and original camping.				
Because the streams and mountains are still here, we like the undeveloped nature.				
I like the wildlife, I tend to stay away from the reservoirs, I like it more isolate.				
I like to be out in nature; trees and streams.				
I like to camp along the streams - we also like to do the Rubicon OHV Trail. We rarely camp at the lakes, but I do like them.				
I like to camp up here by the stream.				

Table G14. Earlier I asked you... and you said... why did you say...			
If not here, not as many people would be coming up here, not as many campgrounds and roads.			
Mostly I don't plan to use the reservoirs, mostly I plan to camp and do some hiking.			
The forests are important. I like the outdoors, period.			
The paved roads provide better access to OHV areas. More privacy out here, closer to nature.			
The reservoirs don't really matter - I'd still come here.			
The streams, rivers, ponds and trees would still be here.			
There is still clean air, nice scenery, friendly people and nice environment.			
This is the closest National Forest to us and we don't have to pay-free camping.			
We'd come up here for the forest, we like it here.			
We always come here regardless of the reservoirs.			
We like the little streams & stuff. The lakes are not essential-some moving water is essential.			
We like these undeveloped campgrounds and the rivers more than we like the reservoirs and campgrounds. We like to get away from people.			
We like to disperse camp - we like the streams, we don't like all the regulations at campgrounds.			
UNLIKELY (5)			
Don't understand the significance of the dams or why they were built.			
We come to this area (Lower JFSC) because its nice and if this area doesn't change it doesn't really matter.			
We like to go explore new places & like to canoe in reservoirs.			
We use the reservoir for fishing.			
Would have never heard of the Crystal Basin.			
VERY LIKELY (21)			
Because I have been doing this for years ~ I enjoy the area.			
Because I like the wilderness camping. I like to stay away from other people.			
Because I love the outdoors and I like to get away from all the people - we prefer to camp out in the woods.			
Because my father likes Big Silver Creek and he likes to hunt here.			
Doesn't matter if the dams were here or not, we would come here to camp none the less.			
Doesn't really matter, I'd come anyway.			
I enjoy camping and watching wildlife.			
I like the area that is more natural.			
I like the woods and because there are not people around to bother you.			
I like to ride my quad and there are still OHV trails w/o the reservoirs.			
I would be out here anyway because of the streams.			
OHVing on the Rubicon. Being able to do what you want while being safe.			
One of our main activities is 4-wheeling and we like to camp out away from it all - campgrounds are too crowded.			
The nature is still going to be here. I don't do a lot of fishing or swimming.			
The outdoors, rivers and OHV trails are still here to do.			

Table G14. Earlier I asked you... and you said... why did you say...			
These streams would still be here – that's what I come for.			
We've been coming here since we were kids-a family tradition that has been going on since the 1940's before the hydro project.			
We don't use the reservoirs that much, we like the open forest area and less people. We have no boats.			
We don't use the reservoirs, we like the streams.			
We go to the streams.			
We like things natural as God made them. We don't go to the reservoirs.			
VU = VERY UNLIKELY (5)			
Because there would be a lot less places to camp - it would be over crowded.			
Because there wouldn't be as many places to camp, not as many recreational things to do.			
I need the water, I'm a water person.			
Without the reservoirs the lake boating & fishing opportunities would not exist. Swimming is enhanced because its warmer than streams.			
Without those reservoirs we wouldn't have the road access.			
DON'T' KNOW (1)			
No way if I could predict what it would be like if the reservoirs did not exist.			

Table G15. Survey Location			
	Frequency	Percent	Cumulative Percent
upper JFSC - areas 1&2	6	11.3	11.3
upper JFSC – area 3	3	5.7	17.0
upper JFSC – area 4	2	3.8	20.8
upper JFSC - areas 5&6	12	22.6	43.4
upper JFSC - areas 7,8 & 9	2	3.8	47.2
lower JFSC – area 1	3	5.7	52.8
lower JFSC – area 2	7	13.2	66.0
lower JFSC – area 3	1	1.9	67.9
lower JFSC – area 4	3	5.7	73.6
lower JFSC – area 5	3	5.7	79.2
Big Silver Creek - primary area	11	20.8	100.0
Total	53	100.0	

JFSC = Jones Fork Silver Creek

Most Important Recreational Activities and Likelihood of Returning to Crystal Basin

The 2002 and 2003 summer surveys conducted asked visitors to indicate what they considered to be their 1st, 2nd, and 3rd most important recreational activities from a provided list. Additionally, the visitors were also asked to indicate how likely they would be to come to the Crystal Basin if the man-made reservoirs did not exist. The data from these questions was analyzed to explore if there was a relationship between the respondents’ most important recreational activities and respondents’ stated likelihood of returning to the Crystal Basin.

To facilitate analysis of the most important recreational activities data, the list of potential important recreational activities was classified into two categories, (1) land-based activities and (2) water-based activities. Land-based classified activities included: backpacking, bicycling, hiking/walking, hunting, off-highway vehicle (OHV) use, picnicking, photography, visiting cultural/historic sites, and wildlife viewing. Water-based classified activities included: canoeing/kayaking, fishing (lake or reservoir), fishing (stream or river), power boating, personal watercraft (PWC) use, sail boating, and swimming.

Using the classifications of land-based and water-based activities outlined above, the most important recreational activities data provided by respondents was used to create a three category nominal variable. If a respondent indicated only land-based activities as his/her three most important activities, the category of “Land” was assigned. However, if a respondent cited only water-based activities as his/her three most important recreational activities, the category of “Water” was applied. Finally, if a respondent listed both land and water-based activities as his/her three most important recreational activities, then the label of “Mixed” was used.

Table 16 explores the relationship between most important recreational activities and the likelihood of coming to the Crystal Basin using data from the surveys conducted at the developed facilities located around the four primary Project reservoirs. Chi square ($p = .013$) and Cramer’s V analysis ($V = .113$) suggests there could be a weak relationship between the variables. Two-thirds (66%) of “Water” recreational activity respondents indicated they would be *unlikely* to come to the Crystal Basin if the man-made reservoirs did not exist. Conversely, about half (53%) of the “Land” recreational activity respondents indicated they would be *likely* to come to the Crystal Basin if the reservoirs did not exist.

Table G16. Relationship between recreational activities and visitation to the Crystal Basin from the 2002 visitor surveys conducted at developed facilities.			
Most Important Activities	How Likely or Unlikely to Come to Crystal Basin?		Total
	Unlikely	Likely	
Land	38	43	81
% of Land	47%	53%	
Mixed	278	172	450
% of Mixed	62%	48%	
Water	95	48	143
% of Water	66%	33%	
Total	411	263	674
% of Total	61%	39%	

Similar analysis was attempted using data obtained in dispersed areas, however the analysis was inconclusive due to the relatively small numbers of cases per survey area.

DISPERSED APPRAISAL

Location (*Circle one*): ¹Millionaire Camp ²Jones Wreckum ³Frisco Ford

Specific Location (*Do not survey on privately owned land.*):

Township/Range/Section: _____

Day of the week (*Circle one*): ¹Su ²Mon ³Tues ⁴Wed ⁵Thu ⁶Fri ⁷Sat

Date: _____ Weather (*Circle one*): ¹Clear ²Cloudy ³Rainy

Gender (*Record by observation*): ¹MALE or ²FEMALE (*Please circle*) Interviewer initials: _____

Interview Start Time: _____ ¹AM ²PM (*Please circle*)

INTRODUCTION

Hello, my name is _____ and I am conducting interviews today with visitors to the Crystal Basin on behalf of the Sacramento Municipal Utility District in cooperation with the Eldorado National Forest. The information will be used as part of relicensing SMUD's hydropower project, the Upper American River Project.* I'd like to ask you some questions about your visit. Your participation is voluntary and your responses will be kept confidential. The survey will take approximately 5 minutes of your time. Do you have time today to participate? (*Check one*)

*If asked, let respondent know that SMUD owns and operates a series of hydroelectric power plants in the Crystal Basin.

¹YES (*go to question 1*) ²NO

If no or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

SCREENING

1. **Have you been asked to participate in a similar survey this year?** (*Check one*)

²NO (*go to question 2*) ¹YES

If yes or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

2. **Are you at least 18 years old?** (*Check one*)

¹YES (*go to question 3*) ²NO

If no or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

ACTIVITY INFORMATION

3. Is your visit to this location: (Check one)

- ¹the primary destination of your trip?
- ²a side trip while camped at another location in the Crystal Basin?
- ³a stop on route to another destination? If so, where? _____
(Record response)

4. Is this visit a day trip from outside of the Crystal Basin or are you staying overnight in the Crystal Basin during your visit? (Check one)

- ¹Day trip from outside the Crystal Basin
How many hours are you staying? _____ (Record response and go to question 5)
- ²Staying overnight
How many nights are you staying? _____ (Record response and continue to 4a)

a. If you are staying overnight, are you: (Check one)

- ¹Camping at a campground in the Crystal Basin?

(Record campground name)

- ²Camping in an undeveloped campsite?

(Describe location)

- ³Staying in a resort or private cabin or residence?

(Record name of resort or describe location of cabin or residence)

b. If you are staying overnight at this location, did you plan to stay here or did you intend to stay at a developed campground?

- ¹INTENDED TO STAY THERE
 - ²INTENDED TO STAY AT A DEVELOPED CAMPGROUND
 - ³NOT STAYING AT AN UNDEVELOPED CAMPSITE
- Which one?
(Specify) _____

5. (Hand the respondent a card with one of 3 versions of this list.) **From the activities listed on this card, please select the recreational activities you have participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping?** (Check all that apply.)

- | | | |
|--|--|--|
| <input type="checkbox"/> BACKPACKING (1) | <input type="checkbox"/> HUNTING (7) | <input type="checkbox"/> SAIL BOATING (13) |
| <input type="checkbox"/> BICYCLING (2) | <input type="checkbox"/> OFF-HIGHWAY VEHICLE (OHV) USE (8) | <input type="checkbox"/> SWIMMING (14) |
| <input type="checkbox"/> CANOEING/KAYAKING (3) | <input type="checkbox"/> PICNICKING (9) | <input type="checkbox"/> VISITING CULTURAL/HISTORIC SITES (15) |
| <input type="checkbox"/> FISHING (LAKE OR RESERVOIR) (4) | <input type="checkbox"/> PHOTOGRAPHY (10) | <input type="checkbox"/> WILDLIFE VIEWING (16) |
| <input type="checkbox"/> FISHING (STREAM OR RIVER) (5) | <input type="checkbox"/> POWER BOATING (11) | <input type="checkbox"/> OTHER (17):
(Specify)_____ |
| <input type="checkbox"/> HIKING/WALKING (6) | <input type="checkbox"/> PWC USE (JET SKI) (12) | |

6. **What are your three most important recreational activities from this list?** (If respondent selects less than three in question 5, then just rank the one or two activities selected. Record response using numbers above.)

- A. Most important activity. _____
- B. 2nd most important activity. _____
- C. 3rd most important activity. _____

7. (Hand the respondent a card with one of 3 versions of this list.) From the settings listed on this card, please rate how important these settings are in your decision to visit the Crystal Basin? (Circle response. Confirm setting before recording response.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
A. MOUNTAIN/FORESTED AREA	1	2	3	4
B. NATURAL LAKES & PONDS	1	2	3	4
C. RESERVOIRS	1	2	3	4
D. RIVERS/STREAMS	1	2	3	4

8. (Have the respondent turn to the backside of the card.) From the facilities and services listed on the card, please rate how important these facilities and services are in your decision to visit the Crystal Basin? (Circle response. Confirm facility or service before recording response.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
A. BOAT LAUNCH RAMPS	1	2	3	4
B. DEVELOPED CAMPGROUNDS	1	2	3	4
C. DEVELOPED SWIMMING/BEACH AREAS	1	2	3	4
D. NON-MOTORIZED TRAILS	1	2	3	4
E. OHV TRAILS	1	2	3	4
F. PICNIC FACILITIES	1	2	3	4
G. TWO-LANE PAVED ROAD ACCESS	1	2	3	4

9. How likely or unlikely would you be to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist? (Check one)

- ¹VERY UNLIKELY
 ²UNLIKELY
 ³LIKELY
 ⁴VERY LIKELY
 ⁵DON'T KNOW

10. (Open the Crystal Basin Recreation Area map, hand it to respondent, show them where they are, and ask: **What other areas have you visited or plan to visit during your stay at the Crystal Basin, and what is the primary activity you did or will do there?** (Circle 'V' for 'have visited' and 'P' for 'plan to visit'. If area is not listed, record up to three responses at the end of the General Area column. Record the primary activity using the numbers from the code list. Tell respondent they can keep the map as a thank you.)

Check here if respondent plans to stay only at current locations on this visit. ^{AA}

Visited	Planned	General Area	Specific Location	Primary Activity	Primary Activity Code List
V	P	A. Ice House Reservoir			(1) Backpacking (2) Bicycling (3) Canoeing/Kayaking (4) Fishing (Lake or Reservoir) (5) Fishing (Stream or River) (6) Hiking/Walking (7) Hunting (8) OHV Use (9) Picnicking (10) Photography (11) Power Boating (12) PWC Use (Jet Ski) (13) Sail Boating (14) Swimming (15) Visiting Cultural/Historic Sites (16) Wildlife Viewing (17) Other _____ <i>(Specify)</i>
V	P	B. Union Valley Reservoir			
V	P	C. Gerle Creek Reservoir			
V	P	D. Loon Lake Reservoir			
V	P	E. Wrights Lake			
V	P	F. Rubicon Jeep Trail / Wentworth Springs Road			
V	P	G. Gerle Creek below Loon Lake Dam			
V	P				
V	P				
V	P				

Thank you for taking the time to talk with me today and enjoy the rest of your visit.

Interview Stop Time: _____ AM PM (Please circle)

CHECKLIST TO BE COMPLETED BY INTERVIEWER

- Check to see if you recorded your interview stop time?
- Check to make sure you have completed all questions on the top section of the survey form.
- Review survey form to make sure all questions have answers or non-responses recorded properly and completely.
- Prep for next survey.

DISPERSED APPRAISAL

Location (*Circle one*): ¹Millionaire Camp ²Jones Wreckum ³Frisco Ford

Specific Location (*Do not survey on privately owned land.*):

Township/Range/Section: _____

Day of the week (*Circle one*): ¹Su ²Mon ³Tues ⁴Wed ⁵Thu ⁶Fri ⁷Sat

Date: _____ Weather (*Circle one*): ¹Clear ²Cloudy ³Rainy

Gender (*Record by observation*): ¹MALE or ²FEMALE (*Please circle*) Interviewer initials: _____

Interview Start Time: _____ ¹AM ²PM (*Please circle*)

INTRODUCTION

Hello, my name is _____ and I am conducting interviews today with visitors to the Crystal Basin on behalf of the Sacramento Municipal Utility District in cooperation with the Eldorado National Forest. The information will be used as part of relicensing SMUD's hydropower project, the Upper American River Project.* I'd like to ask you some questions about your visit. Your participation is voluntary and your responses will be kept confidential. The survey will take approximately 5 minutes of your time. Do you have time today to participate? (*Check one*)

*If asked, let respondent know that SMUD owns and operates a series of hydroelectric power plants in the Crystal Basin.

¹YES (*go to question 1*) ²NO

If no or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

SCREENING

1. Have you been asked to participate in a similar survey this year? (*Check one*)

²NO (*go to question 2*) ¹YES

If yes or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

2. Are you at least 18 years old? (*Check one*)

¹YES (*go to question 3*) ²NO

If no or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

ACTIVITY INFORMATION

3. Is your visit to this location: (Check one)

- ¹the primary destination of your trip?
- ²a side trip while camped at another location in the Crystal Basin?
- ³a stop on route to another destination? If so, where? _____
(Record response)

4. Is this visit a day trip from outside of the Crystal Basin or are you staying overnight in the Crystal Basin during your visit? (Check one)

- ¹Day trip from outside the Crystal Basin
How many hours are you staying? _____ (Record response and go to question 5)
- ²Staying overnight
How many nights are you staying? _____ (Record response and continue to 4a)

a. If you are staying overnight, are you: (Check one)

¹Camping at a campground in the Crystal Basin?

(Record campground name)

²Camping in an undeveloped campsite?

(Describe location)

³Staying in a resort or private cabin or residence?

(Record name of resort or describe location of cabin or residence)

b. If you are staying overnight at this location, did you plan to stay here or did you intend to stay at a developed campground?

- ¹INTENDED TO STAY THERE ²INTENDED TO STAY AT A DEVELOPED CAMPGROUND ³NOT STAYING AT AN UNDEVELOPED CAMPSITE
- Which one?**
(Specify) _____

5. (Hand the respondent a card with one of 3 versions of this list.) **From the activities listed on this card, please select the recreational activities you have participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping?** (Check all that apply.)

- | | | |
|--|--|--|
| <input type="checkbox"/> BACKPACKING (1) | <input type="checkbox"/> HUNTING (7) | <input type="checkbox"/> SAIL BOATING (13) |
| <input type="checkbox"/> BICYCLING (2) | <input type="checkbox"/> OFF-HIGHWAY VEHICLE (OHV) USE (8) | <input type="checkbox"/> SWIMMING (14) |
| <input type="checkbox"/> CANOEING/KAYAKING (3) | <input type="checkbox"/> PICNICKING (9) | <input type="checkbox"/> VISITING CULTURAL/HISTORIC SITES (15) |
| <input type="checkbox"/> FISHING (LAKE OR RESERVOIR) (4) | <input type="checkbox"/> PHOTOGRAPHY (10) | <input type="checkbox"/> WILDLIFE VIEWING (16) |
| <input type="checkbox"/> FISHING (STREAM OR RIVER) (5) | <input type="checkbox"/> POWER BOATING (11) | <input type="checkbox"/> OTHER (17):
(Specify)_____ |
| <input type="checkbox"/> HIKING/WALKING (6) | <input type="checkbox"/> PWC USE (JET SKI) (12) | |

6. **What are your three most important recreational activities from this list?** (If respondent selects less than three in question 5, then just rank the one or two activities selected. Record response using numbers above.)

- A. Most important activity. _____
- B. 2nd most important activity. _____
- C. 3rd most important activity. _____

7. (Hand the respondent a card with one of 3 versions of this list.) From the settings listed on this card, please rate how important these settings are in your decision to visit the Crystal Basin? (Circle response. Confirm setting before recording response.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
A. MOUNTAIN/FORESTED AREA	1	2	3	4
B. NATURAL LAKES & PONDS	1	2	3	4
C. RESERVOIRS	1	2	3	4
D. RIVERS/STREAMS	1	2	3	4

8. (Have the respondent turn to the backside of the card.) From the facilities and services listed on the card, please rate how important these facilities and services are in your decision to visit the Crystal Basin? (Circle response. Confirm facility or service before recording response.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
A. BOAT LAUNCH RAMPS	1	2	3	4
B. DEVELOPED CAMPGROUNDS	1	2	3	4
C. DEVELOPED SWIMMING/BEACH AREAS	1	2	3	4
D. NON-MOTORIZED TRAILS	1	2	3	4
E. OHV TRAILS	1	2	3	4
F. PICNIC FACILITIES	1	2	3	4
G. TWO-LANE PAVED ROAD ACCESS	1	2	3	4

9. How likely or unlikely would you be to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist? (Check one)

- ¹VERY UNLIKELY
 ²UNLIKELY
 ³LIKELY
 ⁴VERY LIKELY
 ⁵DON'T KNOW

10. (Open the Crystal Basin Recreation Area map, hand it to respondent, show them where they are, and ask: **What other areas have you visited or plan to visit during your stay at the Crystal Basin, and what is the primary activity you did or will do there?** (Circle 'V' for 'have visited' and 'P' for 'plan to visit'. If area is not listed, record up to three responses at the end of the General Area column. Record the primary activity using the numbers from the code list. Tell respondent they can keep the map as a thank you.)

Check here if respondent plans to stay only at current locations on this visit. ^{AA}

Visited	Planned	General Area	Specific Location	Primary Activity	Primary Activity Code List
V	P	A. Ice House Reservoir			(1) Backpacking (2) Bicycling (3) Canoeing/Kayaking (4) Fishing (Lake or Reservoir) (5) Fishing (Stream or River) (6) Hiking/Walking (7) Hunting (8) OHV Use (9) Picnicking (10) Photography (11) Power Boating (12) PWC Use (Jet Ski) (13) Sail Boating (14) Swimming (15) Visiting Cultural/Historic Sites (16) Wildlife Viewing (17) Other _____ <i>(Specify)</i>
V	P	B. Union Valley Reservoir			
V	P	C. Gerle Creek Reservoir			
V	P	D. Loon Lake Reservoir			
V	P	E. Wrights Lake			
V	P	F. Rubicon Jeep Trail / Wentworth Springs Road			
V	P	G. Gerle Creek below Loon Lake Dam			
V	P				
V	P				
V	P				

Thank you for taking the time to talk with me today and enjoy the rest of your visit.

Interview Stop Time: _____ AM PM (Please circle)

CHECKLIST TO BE COMPLETED BY INTERVIEWER

- Check to see if you recorded your interview stop time?
- Check to make sure you have completed all questions on the top section of the survey form.
- Review survey form to make sure all questions have answers or non-responses recorded properly and completely.
- Prep for next survey.

Post Interview Questions:

Interviewer: After completing the entire interview, ask these additional questions to the respondent.

For question #9, I asked you: “How likely or unlikely would you be to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist?”, and you answered _____ (Interviewer: remind respondent of answer).

1. Why did you answer the question as _____? (Interviewer: remind respondent of answer).

2. Did you think the question was difficult to understand?

¹ YES ² NO (*skip to Q3*) (*Check one*)

2a. What specifically about the question made it difficult to understand?

3. Did you think the question was difficult to answer?

¹ YES ² NO (*END*) (*Check one*)

3a. What specifically about the question made it difficult to answer?

**DISPERSED APPRAISAL
Spider Lake**

Specific Location (*Do not survey on privately owned land.*):

Landmarks (i.e. south shore, north shore): _____

Day of the week (*Circle one*): ¹Su ²Mon ³Tues ⁴Wed ⁵Thu ⁶Fri ⁷Sat

Date: _____ Weather (*Circle one*): ¹Clear ²Cloudy ³Rainy

Gender (*Record by observation*): ¹MALE or ²FEMALE (*Please circle*) Interviewer initials: _____

Interview Start Time: _____ ¹AM ²PM (*Please circle*)

INTRODUCTION

Hello, my name is _____ and I am conducting interviews today with visitors to the Crystal Basin on behalf of the Sacramento Municipal Utility District in cooperation with the Eldorado National Forest. The information will be used as part of relicensing SMUD's hydropower project, the Upper American River Project.* I'd like to ask you some questions about your visit. Your participation is voluntary and your responses will be kept confidential. The survey will take approximately 5 minutes of your time. Do you have time today to participate? (*Check one*)

*If asked, let respondent know that SMUD owns and operates a series of hydroelectric power plants in the Crystal Basin.

¹YES (*go to question 1*) ²NO

If no or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

SCREENING

1. Have you been asked to participate in a similar survey this year? (*Check one*)

²NO (*go to question 2*) ¹YES

If yes or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

2. Are you at least 18 years old? (*Check one*)

¹YES (*go to question 3*) ²NO

If no or refuse to answer, thank respondent for their time, terminate interview and complete the top portion of the interview form.

ACTIVITY INFORMATION

3. Is your visit to Spider Lake: (Check one)

- ¹the primary destination of your trip?
- ²a side trip while camped at another location in the Crystal Basin?
- ³a stop on route to another destination? If so, where? _____
(Record response)

4. Is this visit a day trip from outside of the Crystal Basin or are you staying overnight in the Crystal Basin during your visit? (Check one)

- ¹Day trip from outside the Crystal Basin
How many hours are you staying? _____ (Record response and go to question 5)
- ²Staying overnight
How many nights are you staying? _____ (Record response and continue to 4a)

a. If you are staying overnight, are you: (Check one)

¹Camping at a campground in the Crystal Basin?

(Record campground name)

²Camping in an undeveloped campsite?

(Describe location)

³Staying in a resort or private cabin or residence?

(Record name of resort or describe location of cabin or residence)

b. If you are staying overnight at this location, did you plan to stay here or did you intend to stay at a developed campground?

- ¹INTENDED TO STAY THERE
 - ²INTENDED TO STAY AT A DEVELOPED CAMPGROUND
 - ³NOT STAYING AT AN UNDEVELOPED CAMPSITE
- Which one?**
(Specify) _____

5. Did you arrive here in a vehicle?

- ¹ YES ² NO (Check one)

a. If yes, did you:

- Cross Loon Lake Dam
- Arrive by Another Route (Specify) _____

6. (Hand the respondent a card with one of 3 versions of this list.) From the activities listed on this card, please select the recreational activities you have participated in or plan to participate in during this visit to the Crystal Basin, excluding relaxing and camping? (Check all that apply.)

- | | | |
|--|--|--|
| <input type="checkbox"/> BACKPACKING (1) | <input type="checkbox"/> HUNTING (7) | <input type="checkbox"/> SAIL BOATING (13) |
| <input type="checkbox"/> BICYCLING (2) | <input type="checkbox"/> OFF-HIGHWAY VEHICLE (OHV) USE (8) | <input type="checkbox"/> SWIMMING (14) |
| <input type="checkbox"/> CANOEING/KAYAKING (3) | <input type="checkbox"/> PICNICKING (9) | <input type="checkbox"/> VISITING CULTURAL/HISTORIC SITES (15) |
| <input type="checkbox"/> FISHING (LAKE OR RESERVOIR) (4) | <input type="checkbox"/> PHOTOGRAPHY (10) | <input type="checkbox"/> WILDLIFE VIEWING (16) |
| <input type="checkbox"/> FISHING (STREAM OR RIVER) (5) | <input type="checkbox"/> POWER BOATING (11) | <input type="checkbox"/> OTHER (17):
(Specify) _____ |
| <input type="checkbox"/> HIKING/WALKING (6) | <input type="checkbox"/> PWC USE (JET SKI) (12) | |

7. What are your three most important recreational activities from this list? (If respondent selects less than three in question 6, then just rank the one or two activities selected. Record response using numbers above.)

- A. Most important activity. _____
- B. 2nd most important activity. _____
- C. 3rd most important activity. _____

8. (Hand the respondent a card with one of 3 versions of this list.) From the settings listed on this card, please rate how important these settings are in your decision to visit the Crystal Basin? (Circle response. Confirm setting before recording response.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
A. MOUNTAIN/FORESTED AREA	1	2	3	4
B. NATURAL LAKES & PONDS	1	2	3	4
C. RESERVOIRS	1	2	3	4
D. RIVERS/STREAMS	1	2	3	4

9. (Have the respondent turn to the backside of the card.) From the facilities and services listed on the card, please rate how important these facilities and services are in your decision to visit the Crystal Basin? (Circle response. Confirm facility or service before recording response.)

	NOT AT ALL IMPORTANT	SOMEWHAT IMPORTANT	MODERATELY IMPORTANT	EXTREMELY IMPORTANT
A. BOAT LAUNCH RAMPS	1	2	3	4
B. DEVELOPED CAMPGROUNDS	1	2	3	4
C. DEVELOPED SWIMMING/BEACH AREAS	1	2	3	4
D. NON-MOTORIZED TRAILS	1	2	3	4
E. OHV TRAILS	1	2	3	4
F. PICNIC FACILITIES	1	2	3	4
G. TWO-LANE PAVED ROAD ACCESS	1	2	3	4

10. How likely or unlikely would you be to come to the Crystal Basin if the dams had not been built and man-made reservoirs such as Ice House, Gerle Creek and Union Valley did not exist? (Check one)

- ¹VERY UNLIKELY
 ²UNLIKELY
 ³LIKELY
 ⁴VERY LIKELY
 ⁵DON'T KNOW

11. (Open the Crystal Basin Recreation Area map, hand it to respondent, show them where they are, and ask: **What other areas have you visited or plan to visit during your stay at the Crystal Basin, and what is the primary activity you did or will do there?** (Circle 'V' for 'have visited' and 'P' for 'plan to visit'. If area is not listed, record up to three responses at the end of the General Area column. Record the primary activity using the numbers from the code list. Tell respondent they can keep the map as a thank you.)

Check here if respondent plans to stay only at current locations on this visit. ^{AA}

Visited	Planned	General Area	Specific Location	Primary Activity	Primary Activity Code List
V	P	A. Ice House Reservoir			(1) Backpacking (2) Bicycling (3) Canoeing/Kayaking (4) Fishing (Lake or Reservoir) (5) Fishing (Stream or River) (6) Hiking/Walking (7) Hunting (8) OHV Use (9) Picnicking (10) Photography (11) Power Boating (12) PWC Use (Jet Ski) (13) Sail Boating (14) Swimming (15) Visiting Cultural/Historic Sites (16) Wildlife Viewing (17) Other _____ <i>(Specify)</i>
V	P	B. Union Valley Reservoir			
V	P	C. Gerle Creek Reservoir			
V	P	D. Loon Lake Reservoir			
V	P	E. Wrights Lake			
V	P	F. Rubicon Jeep Trail / Wentworth Springs Road			
V	P	G. Gerle Creek below Loon Lake Dam			
V	P				
V	P				
V	P				

Thank you for taking the time to talk with me today and enjoy the rest of your visit.

Interview Stop Time: _____ AM PM (Please circle)

CHECKLIST TO BE COMPLETED BY INTERVIEWER

- Check to see if you recorded your interview stop time?
- Check to make sure you have completed all questions on the top section of the survey form.
- Review survey form to make sure all questions have answers or non-responses recorded properly and completely.
- Prep for next survey.

Appendix G-4 Frequencies – Dispersed Appraisals – Unregulated Streams

This compilation presents the results of 82 abbreviated surveys conducted at dispersed campsites along the upper Jones Fork Silver Creek, the lower Jones Fork Silver Creek and Big Silver Creek, primarily to assess the visitor’s association to the Project.

The results are contained in frequency and percentage tables. The order of presentation follows the order that the questions are displayed in the survey instrument.

		Location			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	upper JFSC - areas 1&2	11	13.4	13.4	13.4
	upper JFSC - area 3	5	6.1	6.1	19.5
	upper JFSC - area 4	2	2.4	2.4	22.0
	upper JFSC - areas 5&6	20	24.4	24.4	46.3
	upper JFSC - areas 7,8 & 9	2	2.4	2.4	48.8
	lower JFSC - area 1	6	7.3	7.3	56.1
	lower JFSC - area 2	8	9.8	9.8	65.9
	lower JFSC - area 3	1	1.2	1.2	67.1
	lower JFSC - area 4	4	4.9	4.9	72.0
	lower JFSC - area 5	4	4.9	4.9	76.8
	Big Silver Creek - primary area	18	22.0	22.0	98.8
	Big Silver Creek - secondary area	1	1.2	1.2	100.0
Total		82	100.0	100.0	

		Day of the Week			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Sunday	35	42.7	42.7	42.7
	Monday	2	2.4	2.4	45.1
	Tuesday	1	1.2	1.2	46.3
	Thursday	3	3.7	3.7	50.0
	Saturday	41	50.0	50.0	100.0
	Total	82	100.0	100.0	

Month of Interview					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	May	23	28.0	28.0	28.0
	June	30	36.6	36.6	64.6
	July	9	11.0	11.0	75.6
	August	20	24.4	24.4	100.0
	Total	82	100.0	100.0	

Gender					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	59	72.0	72.0	72.0
	Female	22	26.8	26.8	98.8
	No response	1	1.2	1.2	100.0
	Total	82	100.0	100.0	

Is Your Visit to this Location					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	the primary destination of your trip	81	98.8	98.8	98.8
	No response	1	1.2	1.2	100.0
	Total	82	100.0	100.0	

Other Destination			
		Frequency	Percent
Missing	System	82	100.0

Day or Overnight					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Staying Overnight	82	100.0	100.0	100.0

Hours of Day Trip			
		Frequency	Percent
Missing	System	82	100.0

# of Nights					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 night	11	13.4	13.4	13.4
	2 nights	35	42.7	42.7	56.1
	3 nights	18	22.0	22.0	78.0
	4 nights	11	13.4	13.4	91.5
	5 nights	2	2.4	2.4	93.9
	6 nights	1	1.2	1.2	95.1
	7 nights	1	1.2	1.2	96.3
	8 to 14 nights	2	2.4	2.4	98.8
	No response	1	1.2	1.2	100.0
	Total	82	100.0	100.0	

Type of Camping					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Undeveloped Campsite	82	100.0	100.0	100.0

Undeveloped Campsite					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	upper JFSC - areas 1 & 2	11	13.4	13.4	13.4
	upper JFSC - area 3	5	6.1	6.1	19.5
	upper JFSC - area 4	2	2.4	2.4	22.0
	upper JFSC - areas 5 & 6	20	24.4	24.4	46.3
	upper JFSC - areas 7, 8 & 9	2	2.4	2.4	48.8
	lower JFSC - area 1	6	7.3	7.3	56.1
	lower JFSC - area 2	8	9.8	9.8	65.9
	lower JFSC - area 3	1	1.2	1.2	67.1
	lower JFSC - area 4	4	4.9	4.9	72.0
	lower JFSC - area 5	4	4.9	4.9	76.8
	Big Silver Creek - primary area	18	22.0	22.0	98.8
	Big Silver Creek - secondary area	1	1.2	1.2	100.0
Total		82	100.0	100.0	

Intent of Camping					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Intended to stay here	78	95.1	95.1	95.1
	Intended to stay at a developed campground	3	3.7	3.7	98.8
	No Response	1	1.2	1.2	100.0
	Total	82	100.0	100.0	

Backpacking					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	7	8.5	21.2	21.2
	no	26	31.7	78.8	100.0
	Total	33	40.2	100.0	
Missing	System	49	59.8		
Total		82	100.0		

Bicycling					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	6	7.3	18.8	18.8
	no	26	31.7	81.3	100.0
	Total	32	39.0	100.0	
Missing	System	50	61.0		
Total		82	100.0		

Canoeing/Kayaking					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	3	3.7	9.4	9.4
	no	29	35.4	90.6	100.0
	Total	32	39.0	100.0	
Missing	System	50	61.0		
Total		82	100.0		

Fishing (Lake or Reservoir)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	23	28.0	54.8	54.8
	no	19	23.2	45.2	100.0
	Total	42	51.2	100.0	
Missing	System	40	48.8		
Total		82	100.0		

Fishing (Stream or River)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	48	58.5	81.4	81.4
	no	11	13.4	18.6	100.0
	Total	59	72.0	100.0	
Missing	System	23	28.0		
Total		82	100.0		

Hiking/Walking					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	73	89.0	94.8	94.8
	no	4	4.9	5.2	100.0
	Total	77	93.9	100.0	
Missing	System	5	6.1		
Total		82	100.0		

Hunting					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	1	1.2	3.3	3.3
	no	29	35.4	96.7	100.0
	Total	30	36.6	100.0	
Missing	System	52	63.4		
Total		82	100.0		

OHV Use					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	27	32.9	51.9	51.9
	no	25	30.5	48.1	100.0
	Total	52	63.4	100.0	
Missing	System	30	36.6		
Total		82	100.0		

Picnicking					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	40	48.8	75.5	75.5
	no	13	15.9	24.5	100.0
	Total	53	64.6	100.0	
Missing	System	29	35.4		
Total		82	100.0		

Photography					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	33	40.2	62.3	62.3
	no	20	24.4	37.7	100.0
	Total	53	64.6	100.0	
Missing	System	29	35.4		
Total		82	100.0		

Power Boating					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	5	6.1	16.7	16.7
	no	25	30.5	83.3	100.0
	Total	30	36.6	100.0	
Missing	System	52	63.4		
Total		82	100.0		

PWC Use					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	3	3.7	10.3	10.3
	no	26	31.7	89.7	100.0
	Total	29	35.4	100.0	
Missing	System	53	64.6		
Total		82	100.0		

Sail Boating					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	no	29	35.4	100.0	100.0
Missing	System	53	64.6		
Total		82	100.0		

Swimming					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	45	54.9	80.4	80.4
	no	11	13.4	19.6	100.0
	Total	56	68.3	100.0	
Missing	System	26	31.7		
Total		82	100.0		

Visiting Cultural/Historic Sites					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	2	2.4	6.5	6.5
	no	29	35.4	93.5	100.0
	Total	31	37.8	100.0	
Missing	System	51	62.2		
Total		82	100.0		

Wildlife Viewing					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	45	54.9	75.0	75.0
	no	15	18.3	25.0	100.0
	Total	60	73.2	100.0	
Missing	System	22	26.8		
Total		82	100.0		

Other					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		70	85.4	85.4	85.4
	Enjoy peace & quiet.	1	1.2	1.2	86.6
	Geo Caching	1	1.2	1.2	87.8
	Getting out of Sacramento	1	1.2	1.2	89.0
	Gold Panning	1	1.2	1.2	90.2
	Just relaxing & camping	1	1.2	1.2	91.5
	Relaxing	1	1.2	1.2	92.7
	Target Shooting	6	7.3	7.3	100.0
	Total	82	100.0	100.0	

Most Important Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bicycling	2	2.4	2.4	2.4
	Canoeing/Kayaking	1	1.2	1.2	3.7
	Fishing (Lake or Reservoir)	7	8.5	8.5	12.2
	Fishing (Stream or River)	7	8.5	8.5	20.7
	Hiking/Walking	29	35.4	35.4	56.1
	OHV Use	14	17.1	17.1	73.2
	Picnicking	2	2.4	2.4	75.6
	Power Boating	2	2.4	2.4	78.0
	PWC Use (Jet Ski)	1	1.2	1.2	79.3
	Swimming	4	4.9	4.9	84.1
	Wildlife Viewing	8	9.8	9.8	93.9
	Other	5	6.1	6.1	100.0
	Total	82	100.0	100.0	

2nd Most Important Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Fishing (Lake or Reservoir)	8	9.8	9.8	9.8
	Fishing (Stream or River)	11	13.4	13.4	23.2
	Hiking/Walking	20	24.4	24.4	47.6
	OHV Use	7	8.5	8.5	56.1
	Picnicking	5	6.1	6.1	62.2
	Photography	4	4.9	4.9	67.1
	PWC Use (Jet Ski)	1	1.2	1.2	68.3
	Swimming	10	12.2	12.2	80.5
	Wildlife Viewing	6	7.3	7.3	87.8
	Other	2	2.4	2.4	90.2
	No response	8	9.8	9.8	100.0
	Total	82	100.0	100.0	

3rd Most Important Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Bicycling	1	1.2	1.2	1.2
	Canoeing/Kayaking	2	2.4	2.4	3.7
	Fishing (Lake or Reservoir)	2	2.4	2.4	6.1
	Fishing (Stream or River)	5	6.1	6.1	12.2
	Hiking/Walking	8	9.8	9.8	22.0
	OHV Use	2	2.4	2.4	24.4
	Picnicking	14	17.1	17.1	41.5
	Photography	6	7.3	7.3	48.8
	Power Boating	2	2.4	2.4	51.2
	Swimming	14	17.1	17.1	68.3
	Wildlife Viewing	8	9.8	9.8	78.0
	Other	3	3.7	3.7	81.7
	No response	15	18.3	18.3	100.0
	Total	82	100.0	100.0	

Mountain/Forested area					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	1	1.2	1.2	1.2
	Somewhat important	2	2.4	2.4	3.7
	Moderately important	8	9.8	9.8	13.4
	Extremely important	71	86.6	86.6	100.0
	Total	82	100.0	100.0	

Natural Lakes & Ponds					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	3	3.7	3.7	3.7
	Somewhat important	4	4.9	4.9	8.5
	Moderately important	17	20.7	20.7	29.3
	Extremely important	58	70.7	70.7	100.0
	Total	82	100.0	100.0	

Reservoirs					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	4	4.9	4.9	4.9
	Somewhat important	13	15.9	15.9	20.7
	Moderately important	23	28.0	28.0	48.8
	Extremely important	42	51.2	51.2	100.0
	Total	82	100.0	100.0	

Rivers/Streams					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Somewhat important	2	2.4	2.4	2.4
	Moderately important	8	9.8	9.8	12.2
	Extremely important	72	87.8	87.8	100.0
	Total	82	100.0	100.0	

Boat Launch Ramps					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	36	43.9	43.9	43.9
	Somewhat important	22	26.8	26.8	70.7
	Moderately important	12	14.6	14.6	85.4
	Extremely important	12	14.6	14.6	100.0
	Total	82	100.0	100.0	

Developed Campgrounds					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	39	47.6	47.6	47.6
	Somewhat important	21	25.6	25.6	73.2
	Moderately important	7	8.5	8.5	81.7
	Extremely important	15	18.3	18.3	100.0
	Total	82	100.0	100.0	

Developed Swimming/Beach Areas					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	26	31.7	31.7	31.7
	Somewhat important	18	22.0	22.0	53.7
	Moderately important	22	26.8	26.8	80.5
	Extremely important	16	19.5	19.5	100.0
	Total	82	100.0	100.0	

Non-motorized Trails					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	14	17.1	17.1	17.1
	Somewhat important	14	17.1	17.1	34.1
	Moderately important	24	29.3	29.3	63.4
	Extremely important	30	36.6	36.6	100.0
	Total	82	100.0	100.0	

OHV Trails					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	15	18.3	18.3	18.3
	Somewhat important	6	7.3	7.3	25.6
	Moderately important	19	23.2	23.2	48.8
	Extremely important	42	51.2	51.2	100.0
	Total	82	100.0	100.0	

Picnic Facilities					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	27	32.9	32.9	32.9
	Somewhat important	20	24.4	24.4	57.3
	Moderately important	21	25.6	25.6	82.9
	Extremely important	14	17.1	17.1	100.0
	Total	82	100.0	100.0	

Two-Laned Paved Road Access					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	21	25.6	25.6	25.6
	Somewhat important	25	30.5	30.5	56.1
	Moderately important	19	23.2	23.2	79.3
	Extremely important	17	20.7	20.7	100.0
	Total	82	100.0	100.0	

How likely or unlikely to come to CB					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very unlikely	10	12.2	12.5	12.5
	Unlikely	12	14.6	15.0	27.5
	Likely	31	37.8	38.8	66.3
	Very likely	26	31.7	32.5	98.8
	Don't know	1	1.2	1.3	100.0
	Total	80	97.6	100.0	
Missing	System	2	2.4		
Total		82	100.0		

Other areas visited during stay 1 (max 5)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Stay at current location	23	28.0	28.0	28.0
	Ice House Reservoir	27	32.9	32.9	61.0
	Union Valley Reservoir	12	14.6	14.6	75.6
	Loon Lake Reservoir	7	8.5	8.5	84.1
	Wright's Lake	2	2.4	2.4	86.6
	South Fork Silver Creek below Ice House Dam	1	1.2	1.2	87.8
	Bassi Falls	4	4.9	4.9	92.7
	Robbs Hut	1	1.2	1.2	93.9
	Other	5	6.1	6.1	100.0
	Total	82	100.0	100.0	

Primary Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Canoeing/Kayaking	1	1.2	1.7	1.7
	Fishing (Lake or Reservoir)	16	19.5	27.1	28.8
	Hiking/Walking	6	7.3	10.2	39.0
	OHV Use	3	3.7	5.1	44.1
	Picnicking	1	1.2	1.7	45.8
	Power Boating	1	1.2	1.7	47.5
	PWC Use (Jet Ski)	2	2.4	3.4	50.8
	Swimming	14	17.1	23.7	74.6
	Wildlife Viewing	1	1.2	1.7	76.3
	Other	13	15.9	22.0	98.3
	No response	1	1.2	1.7	100.0
	Total	59	72.0	100.0	
Missing	System	23	28.0		
Total		82	100.0		

Primary Activity (other)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		68	82.9	82.9	82.9
	Get Water	1	1.2	1.2	84.1
	Looking for campsite-all full.	1	1.2	1.2	85.4
	Looking for new place to camp.	1	1.2	1.2	86.6
	Looking for place to camp.	1	1.2	1.2	87.8
	Near to Strawberry Point	1	1.2	1.2	89.0
	Observation	8	9.8	9.8	98.8
	Wanted to camp but "closed off".	1	1.2	1.2	100.0
	Total	82	100.0	100.0	

Other areas visited during stay 2					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Union Valley Reservoir	7	8.5	20.0	20.0
	Loon Lake Reservoir	5	6.1	14.3	34.3
	Wright's Lake	5	6.1	14.3	48.6
	Rubicon Jeep Trail/Wentworth Springs Rd.	2	2.4	5.7	54.3
	Gerle Creek below Loon Lake Dam	1	1.2	2.9	57.1
	Other non-Project streams	1	1.2	2.9	60.0
	Bunker Hill Lookout	1	1.2	2.9	62.9
	McKinstry Lake	1	1.2	2.9	65.7
	Ice House Resort	1	1.2	2.9	68.6
	Bassi Falls	4	4.9	11.4	80.0
	Other	7	8.5	20.0	100.0
Total	35	42.7	100.0		
Missing	System	47	57.3		
Total		82	100.0		

Primary Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Canoeing/Kayaking	1	1.2	2.9	2.9
	Fishing (Lake or Reservoir)	5	6.1	14.3	17.1
	Hiking/Walking	6	7.3	17.1	34.3
	OHV Use	4	4.9	11.4	45.7
	Picnicking	1	1.2	2.9	48.6
	Swimming	4	4.9	11.4	60.0
	Wildlife Viewing	1	1.2	2.9	62.9
	Other	13	15.9	37.1	100.0
	Total	35	42.7	100.0	
Missing	System	47	57.3		
Total		82	100.0		

Primary Activity (other)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		68	82.9	82.9	82.9
	Camping	2	2.4	2.4	85.4
	Did Not State	1	1.2	1.2	86.6
	Looking for friends.	1	1.2	1.2	87.8
	Observation	7	8.5	8.5	96.3
	Other dirt roads in vicinity.	1	1.2	1.2	97.6
	Supplies	1	1.2	1.2	98.8
	Various OHV Trails in CB	1	1.2	1.2	100.0
	Total	82	100.0	100.0	

Other areas visited during stay 3					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Gerle Creek Reservoir	1	1.2	6.3	6.3
	Wright's Lake	2	2.4	12.5	18.8
	Rubicon Jeep Trail/Wentworth Springs Rd.	1	1.2	6.3	25.0
	Gerle Creek below Loon Lake Dam	1	1.2	6.3	31.3
	Other non-Project streams	2	2.4	12.5	43.8
	Robbs Resort	4	4.9	25.0	68.8
	Ice House Resort	1	1.2	6.3	75.0
	Other	4	4.9	25.0	100.0
	Total	16	19.5	100.0	
Missing	System	66	80.5		
Total		82	100.0		

Primary Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Fishing (Lake or Reservoir)	1	1.2	6.3	6.3
	Fishing (Stream or River)	2	2.4	12.5	18.8
	OHV Use	1	1.2	6.3	25.0
	Picnicking	2	2.4	12.5	37.5
	Swimming	1	1.2	6.3	43.8
	Wildlife Viewing	1	1.2	6.3	50.0
	Other	8	9.8	50.0	100.0
	Total	16	19.5	100.0	
Missing	System	66	80.5		
Total		82	100.0		

Primary Activity (other)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		74	90.2	90.2	90.2
	Dinner	2	2.4	2.4	92.7
	Fix flat tire (Vehicle).	1	1.2	1.2	93.9
	Geo caching	1	1.2	1.2	95.1
	Observation	2	2.4	2.4	97.6
	Observing-Trails/Rds in area.	1	1.2	1.2	98.8
	Showers	1	1.2	1.2	100.0
	Total	82	100.0	100.0	

Other areas visited during stay 4					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Ice House Resort	2	2.4	50.0	50.0
	Bassi Falls	1	1.2	25.0	75.0
	Other	1	1.2	25.0	100.0
	Total	4	4.9	100.0	
Missing	System	78	95.1		
Total		82	100.0		

Primary Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	1.2	25.0	25.0
	OHV Use	1	1.2	25.0	50.0
	Other	2	2.4	50.0	100.0
	Total	4	4.9	100.0	
Missing	System	78	95.1		
Total		82	100.0		

Primary Activity (other)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		79	96.3	96.3	96.3
	OHV trails in upper JFSC area	1	1.2	1.2	97.6
	Supplies	2	2.4	2.4	100.0
	Total	82	100.0	100.0	

Appendix G.5 Frequencies – Dispersed Appraisals – Spider Lake

This compilation presents the results of 32 abbreviated surveys conducted at Spider Lake, a non-Project, natural lake, primarily to assess the visitor’s association to the Project.

The results are contained in frequency and percentage tables. The order of presentation follows the order that the questions are displayed in the survey instrument.

Location					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Spider Lake - north shore	25	78.1	78.1	78.1
	Spider Lake - south shore	3	9.4	9.4	87.5
	Spider Lake - east shore	1	3.1	3.1	90.6
	Spider Lake - west shore	3	9.4	9.4	100.0
	Total	32	100.0	100.0	

Day of the Week					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Sunday	5	15.6	15.6	15.6
	Monday	4	12.5	12.5	28.1
	Tuesday	2	6.3	6.3	34.4
	Saturday	21	65.6	65.6	100.0
	Total	32	100.0	100.0	

Month of Interview					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	July	11	34.4	34.4	34.4
	August	21	65.6	65.6	100.0
	Total	32	100.0	100.0	

Gender					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	20	62.5	62.5	62.5
	Female	12	37.5	37.5	100.0
	Total	32	100.0	100.0	

Is Your Visit to this Location					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	the primary destination of your trip	19	59.4	59.4	59.4
	a side trip while camped at another location in the Crystal	3	9.4	9.4	68.8
	a stop on route to another destination	10	31.3	31.3	100.0
	Total	32	100.0	100.0	

Other Destination					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Lake Tahoe	6	18.8	60.0	60.0
	Rubicon Jeep Trail/Wentworth Springs Rd.	1	3.1	10.0	70.0
	Buck Island	2	6.3	20.0	90.0
	Rubicon Reservoir	1	3.1	10.0	100.0
	Total	10	31.3	100.0	
Missing	System	22	68.8		
Total		32	100.0		

Day or Overnight					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Day Trip	2	6.3	6.3	6.3
	Staying Overnight	30	93.8	93.8	100.0
	Total	32	100.0	100.0	

Hours of Day Trip					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	3 hours or less	1	3.1	50.0	50.0
	7 to 9 hours	1	3.1	50.0	100.0
	Total	2	6.3	100.0	
Missing	System	30	93.8		
Total		32	100.0		

# of Nights					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 night	2	6.3	6.7	6.7
	2 nights	10	31.3	33.3	40.0
	3 nights	13	40.6	43.3	83.3
	4 nights	3	9.4	10.0	93.3
	5 nights	1	3.1	3.3	96.7
	No response	1	3.1	3.3	100.0
	Total	30	93.8	100.0	
Missing	System	2	6.3		
Total		32	100.0		

Type of Camping					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Undeveloped Campsite	30	93.8	100.0	100.0
Missing	System	2	6.3		
Total		32	100.0		

Undeveloped Campsite					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Spider Lake - north shore	24	75.0	80.0	80.0
	Spider Lake - south shore	2	6.3	6.7	86.7
	Spider Lake - east shore	1	3.1	3.3	90.0
	Spider Lake - west shore	3	9.4	10.0	100.0
	Total	30	93.8	100.0	
Missing	System	2	6.3		
Total		32	100.0		

Intent of Camping					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Intended to stay here	30	93.8	100.0	100.0
Missing	System	2	6.3		
Total		32	100.0		

Did you arrive here in a vehicle (Spider Lake only)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	26	81.3	81.3	81.3
	no	6	18.8	18.8	100.0
	Total	32	100.0	100.0	

If yes, what route did you take (Spider Lake only)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Cross Loon Lake Dam	19	59.4	73.1	73.1
	Arrive by another route	5	15.6	19.2	92.3
	No response	2	6.3	7.7	100.0
	Total	26	81.3	100.0	
Missing	System	6	18.8		
Total		32	100.0		

Specific route					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Wentworth Springs Road	2	6.3	40.0	40.0
	Tahoe	1	3.1	20.0	60.0
	Cadillac Hill	1	3.1	20.0	80.0
	Other	1	3.1	20.0	100.0
	Total	5	15.6	100.0	
Missing	System	27	84.4		
Total		32	100.0		

Backpacking					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	10	31.3	31.3	31.3
	no	22	68.8	68.8	100.0
	Total	32	100.0	100.0	

Bicycling					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	2	6.3	6.3	6.3
	no	30	93.8	93.8	100.0
	Total	32	100.0	100.0	

Canoeing/Kayaking					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	5	15.6	15.6	15.6
	no	27	84.4	84.4	100.0
	Total	32	100.0	100.0	

Fishing (Lake or Reservoir)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	14	43.8	43.8	43.8
	no	18	56.3	56.3	100.0
	Total	32	100.0	100.0	

Fishing (Stream or River)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	2	6.3	6.3	6.3
	no	30	93.8	93.8	100.0
	Total	32	100.0	100.0	

Hiking/Walking					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	21	65.6	65.6	65.6
	no	11	34.4	34.4	100.0
	Total	32	100.0	100.0	

Hunting					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	1	3.1	3.1	3.1
	no	31	96.9	96.9	100.0
	Total	32	100.0	100.0	

OHV Use					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	24	75.0	75.0	75.0
	no	8	25.0	25.0	100.0
	Total	32	100.0	100.0	

Picnicking					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	11	34.4	34.4	34.4
	no	21	65.6	65.6	100.0
	Total	32	100.0	100.0	

Photography					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	13	40.6	40.6	40.6
	no	19	59.4	59.4	100.0
	Total	32	100.0	100.0	

Power Boating					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	no	32	100.0	100.0	100.0

PWC Use					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	no	32	100.0	100.0	100.0

Sail Boating					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	no	32	100.0	100.0	100.0

Swimming					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	25	78.1	78.1	78.1
	no	7	21.9	21.9	100.0
	Total	32	100.0	100.0	

Visiting Cultural/Historic Sites					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	4	12.5	12.5	12.5
	no	28	87.5	87.5	100.0
	Total	32	100.0	100.0	

Wildlife Viewing					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	yes	15	46.9	46.9	46.9
	no	17	53.1	53.1	100.0
	Total	32	100.0	100.0	

Other					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		29	90.6	90.6	90.6
	No response	1	3.1	3.1	93.8
	Party	1	3.1	3.1	96.9
	Viewing	1	3.1	3.1	100.0
	Total	32	100.0	100.0	

Most Important Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	5	15.6	16.1	16.1
	Hiking/Walking	1	3.1	3.2	19.4
	Hunting	1	3.1	3.2	22.6
	OHV Use	23	71.9	74.2	96.8
	Swimming	1	3.1	3.2	100.0
	Total	31	96.9	100.0	
Missing	System	1	3.1		
Total		32	100.0		

2nd Most Important Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	2	6.3	6.3	6.3
	Canoeing/Kayaking	1	3.1	3.1	9.4
	Fishing (Lake or Reservoir)	6	18.8	18.8	28.1
	Hiking/Walking	9	28.1	28.1	56.3
	OHV Use	1	3.1	3.1	59.4
	Swimming	9	28.1	28.1	87.5
	Wildlife Viewing	1	3.1	3.1	90.6
	Other	1	3.1	3.1	93.8
	No response	2	6.3	6.3	100.0
	Total	32	100.0	100.0	

3rd Most Important Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Canoeing/Kayaking	1	3.1	3.1	3.1
	Fishing (Lake or Reservoir)	2	6.3	6.3	9.4
	Fishing (Stream or River)	1	3.1	3.1	12.5
	Hiking/Walking	5	15.6	15.6	28.1
	Picnicking	2	6.3	6.3	34.4
	Photography	4	12.5	12.5	46.9
	Swimming	8	25.0	25.0	71.9
	Visiting Cultural/Historic Sites	1	3.1	3.1	75.0
	Wildlife Viewing	2	6.3	6.3	81.3
	Other	1	3.1	3.1	84.4
	No response	5	15.6	15.6	100.0
	Total	32	100.0	100.0	

Mountain/Forested area					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	1	3.1	3.1	3.1
	Somewhat important	2	6.3	6.3	9.4
	Moderately important	3	9.4	9.4	18.8
	Extremely important	26	81.3	81.3	100.0
	Total	32	100.0	100.0	

Natural Lakes & Ponds					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	1	3.1	3.1	3.1
	Somewhat important	1	3.1	3.1	6.3
	Moderately important	3	9.4	9.4	15.6
	Extremely important	27	84.4	84.4	100.0
	Total	32	100.0	100.0	

Reservoirs					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	4	12.5	12.5	12.5
	Somewhat important	5	15.6	15.6	28.1
	Moderately important	5	15.6	15.6	43.8
	Extremely important	18	56.3	56.3	100.0
	Total	32	100.0	100.0	

Rivers/Streams					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	3	9.4	9.4	9.4
	Somewhat important	6	18.8	18.8	28.1
	Moderately important	3	9.4	9.4	37.5
	Extremely important	20	62.5	62.5	100.0
	Total	32	100.0	100.0	

Boat Launch Ramps					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	24	75.0	75.0	75.0
	Somewhat important	6	18.8	18.8	93.8
	Moderately important	1	3.1	3.1	96.9
	Extremely important	1	3.1	3.1	100.0
	Total	32	100.0	100.0	

Developed Campgrounds					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	22	68.8	68.8	68.8
	Somewhat important	5	15.6	15.6	84.4
	Moderately important	3	9.4	9.4	93.8
	Extremely important	2	6.3	6.3	100.0
	Total	32	100.0	100.0	

Developed Swimming/Beach Areas					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	20	62.5	62.5	62.5
	Somewhat important	4	12.5	12.5	75.0
	Moderately important	3	9.4	9.4	84.4
	Extremely important	5	15.6	15.6	100.0
	Total	32	100.0	100.0	

Non-motorized Trails					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	12	37.5	37.5	37.5
	Somewhat important	5	15.6	15.6	53.1
	Moderately important	7	21.9	21.9	75.0
	Extremely important	8	25.0	25.0	100.0
	Total	32	100.0	100.0	

OHV Trails					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	4	12.5	12.5	12.5
	Moderately important	1	3.1	3.1	15.6
	Extremely important	27	84.4	84.4	100.0
	Total	32	100.0	100.0	

Picnic Facilities					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	19	59.4	59.4	59.4
	Somewhat important	10	31.3	31.3	90.6
	Moderately important	3	9.4	9.4	100.0
	Total	32	100.0	100.0	

Two-Laned Paved Road Access					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not at all important	16	50.0	50.0	50.0
	Somewhat important	2	6.3	6.3	56.3
	Moderately important	6	18.8	18.8	75.0
	Extremely important	8	25.0	25.0	100.0
	Total	32	100.0	100.0	

How likely or unlikely to come to CB					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Very unlikely	3	9.4	9.4	9.4
	Unlikely	4	12.5	12.5	21.9
	Likely	9	28.1	28.1	50.0
	Very likely	16	50.0	50.0	100.0
	Total	32	100.0	100.0	

Other areas visited during stay 1 (max 5)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Stay at current location	1	3.1	3.1	3.1
	Ice House Reservoir	2	6.3	6.3	9.4
	Loon Lake Reservoir	10	31.3	31.3	40.6
	Wright's Lake	1	3.1	3.1	43.8
	Rubicon Jeep Trail/Wentworth Springs Rd.	16	50.0	50.0	93.8
	Buck Island Reservoir	2	6.3	6.3	100.0
	Total	32	100.0	100.0	

Primary Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	2	6.3	6.5	6.5
	Fishing (Stream or River)	1	3.1	3.2	9.7
	Hiking/Walking	4	12.5	12.9	22.6
	OHV Use	18	56.3	58.1	80.6
	Swimming	1	3.1	3.2	83.9
	Other	5	15.6	16.1	100.0
	Total	31	96.9	100.0	
Missing	System	1	3.1		
Total		32	100.0		

Primary Activity (other)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		27	84.4	84.4	84.4
	Camping	3	9.4	9.4	93.8
	Drive Through	1	3.1	3.1	96.9
	Sightseeing	1	3.1	3.1	100.0
	Total	32	100.0	100.0	

Other areas visited during stay 2					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Wright's Lake	1	3.1	4.3	4.3
	Rubicon Jeep Trail/Wentworth Springs Rd.	8	25.0	34.8	39.1
	Gerle Creek below Loon Lake Dam	1	3.1	4.3	43.5
	Spider Lake	1	3.1	4.3	47.8
	Buck Island Reservoir	6	18.8	26.1	73.9
	Rubicon Reservoir	1	3.1	4.3	78.3
	Rubicon Hiking Trail	3	9.4	13.0	91.3
	Rockbound Lake	1	3.1	4.3	95.7
	Other	1	3.1	4.3	100.0
	Total	23	71.9	100.0	
Missing	System	9	28.1		
Total		32	100.0		

Primary Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	3	9.4	13.0	13.0
	Hiking/Walking	2	6.3	8.7	21.7
	OHV Use	13	40.6	56.5	78.3
	Picnicking	2	6.3	8.7	87.0
	Swimming	1	3.1	4.3	91.3
	Other	2	6.3	8.7	100.0
	Total	23	71.9	100.0	
Missing	System	9	28.1		
Total		32	100.0		

Primary Activity (other)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		30	93.8	93.8	93.8
	Camping	2	6.3	6.3	100.0
	Total	32	100.0	100.0	

Other areas visited during stay 3					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Spider Lake	1	3.1	11.1	11.1
	Buck Island Reservoir	6	18.8	66.7	77.8
	Rubicon Reservoir	1	3.1	11.1	88.9
	Rubicon Hiking Trail	1	3.1	11.1	100.0
	Total	9	28.1	100.0	
Missing	System	23	71.9		
Total		32	100.0		

Primary Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Backpacking	1	3.1	11.1	11.1
	OHV Use	4	12.5	44.4	55.6
	Picnicking	2	6.3	22.2	77.8
	Swimming	2	6.3	22.2	100.0
	Total	9	28.1	100.0	
Missing	System	23	71.9		
Total		32	100.0		

Primary Activity (other)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		32	100.0	100.0	100.0

Other areas visited during stay 4					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Spider Lake	1	3.1	33.3	33.3
	Buck Island Reservoir	1	3.1	33.3	66.7
	Rockbound Lake	1	3.1	33.3	100.0
	Total	3	9.4	100.0	
Missing	System	29	90.6		
Total		32	100.0		

Primary Activity					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Hiking/Walking	1	3.1	33.3	33.3
	OHV Use	2	6.3	66.7	100.0
	Total	3	9.4	100.0	
Missing	System	29	90.6		
Total		32	100.0		

Primary Activity (other)					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid		32	100.0	100.0	100.0

APPENDIX H

WINTER HUT USE DATA (ENF DATA)

Table H-1. Loon Lake Chalet Summary of Use			
Total Actual Recreation Days: 2003-January 01, 2004		January 01,	
		2781	
Total Actual Recreation Days: 02, 2004-September 2004		January	
		891	
Averages for Total Seasons Represented 2003-04	Average # Persons	# Days	RD
Winter Summary Average	25	59	1475
Spring/Summer Average	32	47	1504
Fall Average	34	13	442
Total Annual Recreation Days Estimated Average			3421

Table H-2. Van Vlecks Bunkhouse Summary of Use			
Total Actual Recreation Days: 2003-January 01, 2004		January 01,	
		685	
Total Actual Recreation Days: 02, 2004-September 2004		January	
		583	
Averages for Total Seasons Represented 2003-04	Average # Persons	# Days	RD
Winter Summary Average	10	10	100
Spring/Summer Average	14	43	602
Fall Average	12	10	120
Total Annual Recreation Days Estimated Average			822

NOTE: For all Huts data, annual season splits were based on the following seasons:
 Spring and Summer - April 1 through September 30, 2002
 Fall - October 1 through November 30, 2002
 Winter - December 1, 2002, through March 31, 2003

Table H-3. Robbs Hut Summary of Use			
Total Actual Recreation Days: 2003-January 01, 2004		January 01,	
		891	
Total Actual Recreation Days: 02, 2004-September 2004		January	
		650	
Averages for Total Seasons Represented 2003-04	Average # Persons	# Days	RD
Winter Summary Average	9	40	360
Spring/Summer Average	9	47	423
Fall Average	8	18	144
Total Annual Recreation Days Estimated Average			927

APPENDIX I

CAMPGROUND OCCUPANCY DATA (ENF DATA)

Summarized RIM Data for UARP Concessionaire Facilities

		Ice House CG			Ice House DU		Ice House Boat Launch						Fashoda CG			Fashoda DU	
		# People	# Sites	Turn-away Days	# People	# Sites	Day Use			Overnight Camping			# People	# Sites	Turn-away Days	# People	# Sites
							# Vehicles	Group Size (3.5 people per vehicle)	# People	# People	# Sites	Turn-away Days					
1999	May	1768	506	0	648	124	552	3.5	1932	16	8	3	285	58		10	2
	June	5089	1348	0	1438	233	1871	3.5	6549				594	140		76	28
	July	4020	1789	1	1600	260	1950	3.5	6825			6	1836	396		490	82
	August	6559	1749	0			1312	3.5	4592	65	33	10	1153	257		445	82
	September	3811	1156	0				3.5	0				181	45		0	0
	October							3.5	0				0	0		0	0
	Sub-Total		21247	6548	1	3686	617	5685	3.5	19898	81	41	19	4049	896	0	1021
2000	May	1473	309	0	238	37	129	3.5	452	10		0	364	82	2	96	16
	June	7425	1740	10	835	212	526	3.5	1841	30		0	803	184	0	438	64
	July	9079	1966	28			1631	3.5	5709	46		0	1375	292	5	337	87
	August	6763	1498	3	456	82	541	3.5	1894	46	21	0	1022	274	3	305	82
	September	3195	763	0	14	6	167	3.5	585	168			0	0	0	0	0
	October							3.5	0								
	Sub-Total		27935	6276	41	1543	337	2994	3.5	10479	300	21	0	3564	832	10	1176
2001	May	1473	309					3.5	0				368	82			
	June	5921	1422					3.5	0				803	184			
	July	8025	1776					3.5	0				1369	292			
	August	6750	1500					3.5	0				1069	276			
	September	3323	820					3.5	0				0	0			
	October							3.5	0								
	Sub-Total		25492	5827	0	0	0	0	3.5	0	0	0	0	3609	834	0	0
2002	May	2846	693	0	291		267	3.5	935	16	12	0	199	37	0	30	22
	June	4878	1241	1	1187	158	404	3.5	1414	150	12	0	388	95	0	317	85
	July	7447	1658	8	1163	168	848	3.5	2968	238	46	0	801	173	1	821	103
	August	8020	1693	4	1215	203	965	3.5	3378	199	57	0	0	0	0	523	93
	September	2909	891	0	343	81	674	3.5	2359	324	21	0	0	0	0	0	0
	October							3.5	0								
	Sub-Total		26100	6176	13	4199	610	3158	3.5	11053	927	148	0	1388	305	1	1691

Summarized RIM Data for UARP Concessionaire Facilities

		Sunset CG			Sunset Boat Launch						Wench Creek CG			Wench Creek Group 1		
		# People	# Sites	Turn-away Days	Day Use			Overnight Camping			# People	# Sites	Turn-away Days	# People	# Days	Turn-away Days
					# Vehicles	Group Size (3.5 people per vehicle)	# People	# People	# Sites	Turn-away Days						
1999	May	826	193			3.5	0				1380	327	1	30	1	0
	June	3561	893		407	3.5	1425				2070	481	0	580	14	0
	July	10124	2129		1085	3.5	3798				6889	1479	10	1200	24	0
	August	8908	1827		715	3.5	2503				5250	1202	0	991	26	0
	September	3133	736		310	3.5	1085				1033	234	0	460	11	0
	October					3.5	0									
	Sub-Total	26552	5778	0	2517	3.5	8810	0	0	0	16622	3723	11	3261	76	0
2000	May	1352	421	0		3.5	0	24	4	0	1793	362	0			
	June	5553	1358	3		3.5	0				2816	689	0	529	12	0
	July	11074	2332	0	681	3.5	2384	125	44	0	6159	1383	3	796	21	0
	August	9211	1991	15	268	3.5	938	57	60	0	4195	1012	1	1025	16	0
	September	2128	574	0	101	3.5	354				180	41	0	250	7	0
	October					3.5	0									
	Sub-Total	29318	6676	18	1050	3.5	3675	206	108	0	15143	3487	4	2600	56	0
2001	May	1977	424			3.5	0									
	June	5671	1309			3.5	0									
	July	11074	2332			3.5	0									
	August	9126	1994			3.5	0									
	September	2114	578			3.5	0									
	October					3.5	0									
	Sub-Total	29962	6637	0	0	3.5	0	0	0	0	0	0	0	0	0	0
2002	May	1467	384	0	135	3.5	473	0	0	0	531	165	0	190	4	0
	June	4741	1088	0	1155	3.5	4043	14	5	0	992	260	0	479	14	0
	July	9794	2196	8	364	3.5	1274	694	32	0	5526	1223	2	817	57	0
	August	9479	2146	7	530	3.5	1855	1503	34	0	5215	1195	4	635	19	0
	September	1890	520	0	419	3.5	1467	47	11	0	1236	293	0	260	11	0
	October					3.5	0									
	Sub-Total	27371	6334	15	2603	3.5	9111	2258	82	0	13500	3136	6	2381	105	0

Summarized RIM Data for UARP Concessionaire Facilities

		Wench Creek Group 2			Wolf Creek CG			Yellow Jacket CG			Yellow Jacket Boat Launch			Gerle Creek CG		
		# People	# Days	Turn-away Days	# People	# Sites	Turn-away Days	# People	# Sites	Turn-away Days	Day Use			# People	# Sites	Turn-away Days
											# Vehicles	Group Size (3.5 people per vehicle)	# People			
1999	May	200	4	4	715	169	0	782	189	2	82	3.5	287	532	127	0
	June	640	16	0	1139	231	0	1027	268	0	191	3.5	669	1356	374	0
	July	724	19	7	3242	662	9	3391	725	9	574	3.5	2009	3703	845	8
	August	1070	22	0	2286	494	4	2398	539	6	318	3.5	1113	3366	774	4
	September				528	101	0	1268	323	3	91	3.5	319	1220	308	1
	October											3.5	0			
	Sub-Total	2634	61	11	7910	1657	13	8866	2044	20	1256	3.5	4396	10177	2428	13
2000	May				337	141	0	619	125	1	56	3.5	196	571	147	1
	June	290	7	0	830	235	0	1362	298	0	304	3.5	1064	1446	402	0
	July	695	16	0	1882	418	8	3083	671	10	610	3.5	2135	3447	788	8
	August	700	12	0	855	268	1	1910	445	0	118	3.5	413	3293	747	8
	September	500	10	0	72	20	0	854	215	0	20	3.5	70			
	October											3.5	0			
	Sub-Total	2185	45	0	3976	1082	9	7828	1754	11	1108	3.5	3878	8757	2084	17
2001	May											3.5	0	577	149	
	June											3.5	0	1449	396	
	July											3.5	0	3441	790	
	August											3.5	0	3300	746	
	September											3.5	0	0	0	
	October											3.5	0			
	Sub-Total	0	0	0	0	0	0	0	0	0	0	3.5	0	8767	2081	0
2002	May	105	3	0	127	34	0	481	98	0	55	3.5	193	699	184	1
	June	532	9	0	1010	207	0	964	242	0	151	3.5	529	1755	472	2
	July	524	49	0	1959	439	6	2514	564	3	472	3.5	1652	3486	772	7
	August	645	15	0	1968	457	4	2048	454	0	475	3.5	1663	3871	839	8
	September	197	8	0	312	87	0	183	34	0	0	3.5	0	614	181	0
	October											3.5	0			
	Sub-Total	2003	84	0	5376	1224	10	6190	1392	3	1153	3.5	4036	10425	2448	18

Summarized RIM Data for UARP Concessionaire Facilities

		Gerle Creek DU		Loon Lake CG			Loon Lake Equestrian Family CG			Loon Lake Equestrian Group CG			Loon Lake Group #1 CG			
		# People	# Sites	# People	# Sites	Turn-away Days	# People	# Sites	Turn-away Days	# People	# Days	Turn-away Days	# People	# Days	Turn-away Days	
1999	May	148	8										25	4	4	
	June	612	29	482	157	0	69	15	0				765	20	20	
	July	983	57	3233	927	11	265	53	2	266	15	15	600	13	13	
	August	1052	43	2328	779	2	291	81	0	280	13	13	150	3	0	
	September	349	34	1621	460	0	100	19	0	125	5	0				
	October															
	Sub-Total	3144	171	0	7664	2323	13	725	168	2	671	33	28	1540	40	37
2000	May	187	12	574	135	1	69	16	3				156	5	0	
	June	643	26	1307	383	2				110	5	0	682	19	0	
	July	1238	45	3824	926	0				415	20	0	222	9	0	
	August	1001	39	2812	721	0				278	12	0				
	September			3754	921	0										
	October															
	Sub-Total	3069	122	0	12271	3086	3	69	16	3	803	37	0	1060	33	0
2001	May			574	135		69	16								
	June			1261	364		90	28								
	July			3824	926		332	80								
	August			3589	828		0	0								
	September			0	0		0	0								
	October															
	Sub-Total	0	0	0	9248	2253	0	491	124	0	0	0	0	0	0	
2002	May	421	21	0	0	0	0	0	0	0	0	0	0	0	0	
	June	703	8	2015	498	0	173	53	0	60	8	0	400	9	0	
	July	1490	55	3081	793	8	413	125	0	91	13	0	145	16	0	
	August	1637	52	4445	986	7	480	120	0	135	17	0	494	15	0	
	September	972	39	1093	391	0	98	24	0	85	8	0	320	6	0	
	October															
	Sub-Total	5223	175	0	10634	2668	15	1164	322	0	371	46	0	1359	46	0

Summarized RIM Data for UARP Concessionaire Facilities

		Loon Lake Group #2 CG			Loon Lake DU		Loon Lake Boat Launch						Loon Wilderness Trailhead		
		# People	# Days	Turn-away Days	# People	# Sites	Day Use			Overnight Camping			# Vehicles	Group Size (3.5 people per vehicle)	# People
							# Vehicles	Group Size (3.5 people per vehicle)	# People	# People	# Sites	Turn-away Days			
1999	May							3.5						3.5	0
	June				16	11	206	3.5	721	178	87	0	250	3.5	875
	July	223	10	7	314	53	434	3.5	1519	372	183	1	699	3.5	2447
	August	250	9	9	445	114	447	3.5	1565	301	125	0	515	3.5	1803
	September	110	5	5	159	36		3.5	0	92	46	0	282	3.5	987
	October							3.5	0					3.5	0
	Sub-Total	583	24	21	934	214	1087	3.5	3805	943	441	1	1746	3.5	6111
2000	May				256	26	120	3.5	420	55	17	0	157	3.5	550
	June	107	5	0	449	100	656	3.5	2296	201	112	0	448	3.5	1568
	July	295	15	0	425		722	3.5	2527	419		0	446	3.5	1561
	August	186	9	0	360		523	3.5	1831	310			353	3.5	1236
	September							3.5	0					3.5	0
	October							3.5	0					3.5	0
	Sub-Total	588	29	0	1490	126	2021	3.5	7074	985	129	0	1404	3.5	4914
2001	May							3.5	0					3.5	0
	June							3.5	0					3.5	0
	July							3.5	0					3.5	0
	August							3.5	0					3.5	0
	September							3.5	0					3.5	0
	October							3.5	0					3.5	0
	Sub-Total	0	0	0	0	0	0	3.5	0	0	0	0	0	3.5	0
2002	May	0	0	0	0	0	0	3.5	0	0	0	0		3.5	0
	June	207	9	0	222	74	221	3.5	774	158	61	0	255	3.5	893
	July	232	11	0	265	78	111	3.5	389	413	113	0	186	3.5	651
	August	200	10	0	399	86	436	3.5	1526	380	162	0	288	3.5	1008
	September	65	3	0	202	62	289	3.5	1012	176	87	0	133	3.5	466
	October							3.5	0					3.5	0
	Sub-Total	704	33	0	1088	300	1057	3.5	3700	1127	423	0	862	3.5	3017

Summarized RIM Data for UARP Concessionaire Facilities

GRAND TOTALS									
Day Use Totals				Campground Totals			Total Visitors		
Boat Launch Day Use		Picnic Areas/Trailheads		Overnight Camping			(DU + Overnight)		
# Vehicles	# People	# People	# Sites	# People	# Sites	Turn-away Days	# People		
1999	May	634	2219	806	134	6534	1582	10	9559
	June	2675	8820	3017	301	16810	4028	4	28647
	July	4043	13004	5834	452	40253	9276	106	59090
	August	2792	8509	3745	239	36096	7943	61	48349
	September	401	1496	1495	70	13832	3452	9	16823
	October	0	0	0	0	0	0	0	0
	Sub-Total	10545	34046	14896	1196	113525	26281	190	162467
2000	May	305	703	1327	91	7241	1759	8	9270
	June	1486	3106	3933	402	22965	5435	15	30004
	July	3644	10646	3561	132	43396	8911	62	57603
	August	1450	3555	3358	203	32885	7095	31	39797
	September	288	1008	14	6	11101	2551	0	12123
	October	0	0	0	0	0	0	0	0
	Sub-Total	7173	19017	12192	834	117588	25751	116	148797
2001	May	0	0	0	0	5038	1115	0	5038
	June	0	0	0	0	15195	3703	0	15195
	July	0	0	0	0	28065	6196	0	28065
	August	0	0	0	0	23834	5344	0	23834
	September	0	0	0	0	5437	1398	0	5437
	October	0	0	0	0	0	0	0	0
	Sub-Total	0	0	0	0	77569	17756	0	77569
2002	May	457	1600	742	43	6661	1614	1	9003
	June	1931	6143	3322	325	18916	4283	3	28381
	July	1795	6307	4390	404	38175	8280	43	48872
	August	2406	7275	4782	434	39717	8219	34	51774
	September	1382	4002	1983	182	9809	2576	0	15793
	October	0	0	0	0	0	0	0	0
	Sub-Total	7971	25326	15218	1388	113278	24972	81	153822

Summarized RIM Data for UARP Fee Demo Facilities

	Northwind CG			Strawberry Point CG			Big Silver Group CG			Jones Fork CG			Northshore CG			Red Fir CG			GRAND TOTALS				
	# People	# Sites	Turn-away Days	# People	# Sites	Turn-away Days	# People	# Sites	Turn-away Days	# People	# Sites	Turn-away Days	# People	# Sites	Turn-away Days	# People	# Sites	Turn-away Days	# People	# Sites	Turn-away Days		
1999	May	195	42	3	260	85	4		216	67	2	103	39	0				774	233	9			
	June	438	166	2	377	140	3		424	142	3	353	162	2				1592	610	10			
	July	848	226	13	735	239	5		788	210	9	627	213	1				2998	888	28			
	August	675	206	8	749	203	11		698	184	6	548	165	0				2670	758	25			
	September	634	189	9	486	171	7		503	173	4	126	33	0				1749	566	20			
	October																		0	0	0		
Sub-Total	2790	829	35	2607	838	30	0	0	0	2629	776	24	1757	612	3	0	0	0	9783	3055	92		
2000	May	146	54	5	202	53	4	14	2	0	201	49	3	96	29	0	0	0	0	0			
	June	564	193	8	539	149	4	180	11	0	692	181	7	294	119	1	80	4	0	2349	657	20	
	July	802	216	13	893	225	12	399	15	0	732	201	9	506	184	0	82	9	0	3414	850	34	
	August	692	195	11	783	224	7	288	16	0	772	218	13	574	206	4	351	16	0	3460	875	35	
	September	419	127	0	242	97	0	0	0	0	299	94	2	219	88	0	0	0	0	0	1179	406	2
	October																				0	0	0
Sub-Total	2623	785	37	2659	748	27	881	44	0	2696	743	34	1689	626	5	513	29	0	11061	2975	103		
2001	May																			0	0	0	
	June																			0	0	0	
	July																			0	0	0	
	August																			0	0	0	
	September																			0	0	0	
	October																			0	0	0	
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2002	May	0	0		0	0					0	0		0	0					0	0	0	
	June	433	114		583	135					458	126		397	116					1871	491	0	
	July	823	236		869	200					662	179		620	209					2974	824	0	
	August	626	181		749	206					842	206		625	188					2842	781	0	
	September	337	114		265	96					214	77		381	133					1197	420	0	
	October																			0	0	0	
Sub-Total	2219	645	0	2466	637	0	0	0	0	2176	588	0	2023	646	0	0	0	0	8884	2516	0		

Summarized RIM Data for UARP Free Facilities

	Pleasant CG			Angel Creek Picnic		TOTALS							
	# People	# Sites	Turn-away Days	# People	# Sites	Boat Lanch Day Use		Picnic Areas		Overnight Camping			DU + Overnight
						# Vehicles	# People	# People	# Sites	# People	# Sites	Turn-away Days	# People
1999	May			38	4	32	112	38	4	484	68	2	522
	June			242	45	211	739	242	45	495	144	5	737
	July			232	66	389	1362	232	66	1406	321	13	1638
	August			266	68	327	1145	266	68	1162	356	8	1428
	September			76	23	244	854	76	23	1151	218	2	1227
	October					0	0	0	0	0	0	0	0
Sub-Total	0	0	0	854	206	1203	4211	854	206	4698	1107	30	5552
2000	May			12	2	81	284	12	2	678	157	2	690
	June			40	9	220	770	40	9	2614	580	16	2654
	July			152	18	249	872	152	18	4158	996	28	4310
	August			76	11	115	403	76	11	2962	712	12	3038
	September			15	1	43	151	15	1	1034	323	3	1049
	October					0	0	0	0	0	0	0	0
Sub-Total	0	0	0	295	41	708	2478	295	41	11446	2768	61	11741
2001	May					0	0	0	0	0	0	0	0
	June					0	0	0	0	0	0	0	0
	July					0	0	0	0	0	0	0	0
	August					0	0	0	0	0	0	0	0
	September					0	0	0	0	0	0	0	0
	October					0	0	0	0	0	0	0	0
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	May					0	0	0	0	0	0	0	0
	June					0	0	0	0	0	0	0	0
	July					0	0	0	0	0	0	0	0
	August					0	0	0	0	0	0	0	0
	September					0	0	0	0	0	0	0	0
	October					0	0	0	0	0	0	0	0
Sub-Total	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 4.1-6. UARP recreation facility use estimates in recreation days May-Sept. (1999 – 2002).						
	Type¹	1999	2000	2001	2002	Average
CAMPGROUNDS²						
Ice House	C	21328	28235	25492	27027	26,918
Northwind	FD	2790	2623		2674	2,696
Strawberry Point	FD	2607	2659		3201	2,822
Total for Ice House Reservoir						32,436
Azalea Cove	F	n/a	109		1690	900
Big Silver Group	FD	n/a	881		1375	1,128
Camino Cove	F	n/a	6961		8704	7,833
Fashoda	C	4049	3564	3609	n/a	3,741
Jones Fork	FD	2629	2696		2694	2,673
Lone Rock	F	n/a	123		775	449
Sunset	C	26552	29524	29962	29629	28,917
Wench Creek Family	C	16622	15143		13500	15,088
Wench Creek Group 1 & 2	C	5895	4785		5425	5,368
Westpoint	F	1989	2051		2272	2,104
Wolf Creek	C	7910	3976		6849	6,245
Yellow Jacket	C	8866	7828		6190	7,628
Total for Union Valley Reservoir						82,074
Loon Lake Family	C	8607	13256	9248	11761	10,718
Loon Lake Equestrian Family	C	725	69	491	2515	1,244
Loon Lake Group 1 & 2	C	2123	1648		5015	2,929
Loon Lake Equestrian Group	C	671	803		680	718
Northshore	FD	1757	1689		2731	2,059
Pleasant	F					500 ⁴
Red Fir Group	FD		513		1385	949
Loon Lake Chalet	FFS				3000	3,000
Total for Loon Lake Reservoir						0
Airport Flat	F	2709	2202			2,456
Gerle Creek	C	10177	8757	8767	11057	9,690
Total for Gerle Creek Reservoir						12,146
TOTAL CAMPGROUND USE ESTIMATE						126,656

Table 4.1-6. UARP recreation facility use estimates in recreation days May-Sept. (1999 – 2002).

BOAT LAUNCHES³	Type	1999	2000	2001	2002	Average	Estimated Range*	
Ice House (I)	C	19898	10479		<i>12458</i>	14,278	14,278	21,417
Yellow Jacket (U)	C	4396	3878		4036	4,103	4,103	6,155
Sunset (U)	C	8810	3675		<i>11712</i>	10,261	10,261	15,392
Westpoint (U)	F	4211	2478		<i>4938</i>	3,876	3,876	5,814
Loon Lake (L)	C	3805	7074		<i>8176</i>	8,176	8,176	12,264
TOTAL BOAT LAUNCH USE ESTIMATE						40,694	40,694	61,041
PICNIC AREAS/TRAILHEADS	Type	1999	2000	2001	2002	Average	Estimated Range*	
Fashoda (U)	C	1021	1176		1691	1,296	1,296	1,944
Ice House (I)	C	3686	1543		4875	4,875	4,875	7,313
Angel Creek (G)	F	854	295		n/a	575	575	862
Gerle Creek (G)	C	3144	3069		5223	4,184	4,184	6,275
Loon Lake Picnic (L)	C	934	1490		<i>1450</i>	1,291	1,291	1,937
Loon Lake Wilderness Trailhead ³ (L)	--	6111	4914		3017	4,681	4,681	7,021
TOTAL PICNIC USE ESTIMATE						16,902	16,902	25,353
Source: Forest Service use data sheets unless otherwise noted.								
¹ C=Concessionaire; FD=Fee Demo; FFS=Fee to FS; F=Free								
² Includes use counts for boat launch site camping.								
³ Boat launch day use AND Loon Lake Wilderness Trailhead use were recorded in vehicles Thus, these estimates incorporate a persons-per-vehicle multiplier of 3.5 (as provided by the Forest Service) to convert to Recreation Days.								
⁴ This use number uses professional judgment because no use data was provided for any of the 4 years.								
Blank/empty cells indicate the Forest Service did not provide any data for the facility for the entire year.								
An bold non-total number indicates the Forest Service provided only partial data for the facility for the year.								
A non-total italicized number indicates this use estimate was obtained from the estimates used for the FERC Form 80 for 2002, developed by Mr. Bob Logan; these estimates are used (1) where the Forest Service did not provide any data for the facility, or (2) when the Form 80 estimate is substantially greater than the estimate derived from the Forest Service data sheets.								
n/a = Facility was not yet constructed and/or open for use that year.								
Average column does not include partial data years unless that use estimate represents the largest use estimate of the set.								
[†] Recreation Day is defined as a visit by a person during any portion of a 24-hour period.								
*Estimated ranges were calculated by utilizing a 1.0-1.5 index multiplied by the average for boat launches and picnic sites.								

Table 4.1-6. UARP recreation facility use estimates in recreation days May-Sept. (1999 – 2002).									
Developed Campground Visitor Use: October 1 1995-Memorial Day 1996; Labor Day 1996-Sept 30 1996 (Est. 270 Days)	# Visitors	Site Occupied Auto	Site Occupied Trailer	Site Occupied Tent	Total Occupancy	Total # Days Counts Missed	Estimated Occupancy Rate	Avg Visitor Per Day	Estimated Visitor Per Season
Airport Flat	0	0	0	0	0	0	0.0%	0.00	0
Fashoda Tent Campground	368	0	0	99	99	0	37.0%	1.36	368
Gerle Creek Campground	1188	76	72	177	325	0	20.0%	4.40	1,188
Icehouse Campground	4687	411	435	658	1504	90	35.0%	26.04	7,031
Jones Fork Campground	400	62	7	91	160	32	47.0%	1.68	454
Loon Lake Campground	751	40	54	172	266	15	23.0%	2.95	795
Loon Lake Equestrian Family Campground	0	0	0	0	0	0	0.0%	0.00	0
Northshore R.V.	398	62	23	59	144	82	27.0%	2.12	572
Northwind Campground	381	91	60	101	252	32	70.0%	1.60	432
Pleasant Campground	na	na	na	na	na	na	na	0.00	0
Silver Creek Campground	316	0	0	39	39	106	16.0%	1.93	520
South Fork Campground	132	9	16	27	52	122	14.0%	0.89	241
Strawberry Campground	562	115	39	78	232	81	66.0%	2.97	803
Sunset Campground	3938	153	294	560	1007	0	23.0%	14.59	3,938
Wench Creek Campground	1294	44	69	208	321	0	29.0%	4.79	1,294
Wentworth Springs Campground	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.00	0
Wolf Creek Campground	0	0	0	0	0	0	0.0%	0.00	0
Wrights Lake Campground	1552	56	121	302	479	82	32.0%	8.26	2,229
Wrights Equestrian Campground	36	1	17	0	18	82	7.0%	0.19	52
Yellow Jacket Campground	929	54	18	148	220	0	18.0%	3.44	929
Total Estimated Visitor Use per Shoulder Season 1995-1996								20,845	

Table 4.1-6. UARP recreation facility use estimates in recreation days May-Sept. (1999 – 2002).									
October 1 1996-Memorial Day 1997; Labor Day 1997-Sept 30 1997	# Visitors	Site Occupied Auto	Site Occupied Trailer	Site Occupied Tent	Total Occupancy	Total # Days Counts Missed	Estimated Occupancy Rate	Avg Visitor Per Day	Estimated Visitor Per Season
Airport Flat	858	93	31	100	224	117	37.0%	5.61	1,514
Fashoda Tent Campground	158	0	0	35	35	0	17.0%	0.59	158
Gerle Creek Campground	1488	34	81	279	394	15	32.0%	5.84	1,576
Icehouse Campground	5588	353	431	772	1556	116	36.0%	36.29	9,797
Jones Fork Campground	745	78	26	125	229	46	62.0%	3.33	898
Loon Lake Campground	1573	35	93	301	429	15	23.0%	6.17	1,666
Loon Lake Equestrian Family Campground	36	0	0	9	9	0	14.0%	0.13	36
Northshore R.V.	606	100	68	84	252	99	36.0%	3.54	957
Northwind Campground	381	91	60	101	252	46	66.0%	1.70	459
Pleasant Campground	na	na	na	na	na	na	na	na	0
Silver Creek Campground	378	0	0	53	53	132	21.0%	2.74	740
South Fork Campground	365	6	24	62	92	103	26.0%	2.19	590
Strawberry Campground	1035	110	26	188	324	81	61.0%	5.48	1,479
Sunset Campground	4629	250	269	661	1180	0	21.0%	17.14	4,629
Wench Creek Campground	1760	52	101	238	391	0	22.0%	6.52	1,760
Wentworth Springs Campground	na	na	na	na	na	na	na	na	0
Wolf Creek Campground	164	4	18	16	38	0	3.0%	0.61	164
Wrights Lake Campground	0	0	0	0	0	39	17.0%	0.00	0
Wrights Equestrian Campground	0	0	0	0	0	39	17.0%	0.00	0
Yellow Jacket Campground	780	15	22	174	211	0	23.0%	2.89	780
Total Estimated Visitor Use per Shoulder Season 1996-1997								27,202	
Average Shoulder Season Estimate Total								24,023	
UARP DEVELOPED FACILITY TOTAL (Recreation Days)								208,275	237,073
Rubicon Trail Estimated Range								45,000	65,000
Huts Estimate									
Information and Education Estimates									

UARP RIM Data Summary

TABLE 1.
Total Annual Use at Concessionaire Facilities based on FS RIM data, 1999 - 2002.

FACILITY		1999	2000	2001	2002	Total Average Estimate	
Overnight Use (Persons)	CAMPGROUND						
	Ice House	21247	27935	25492	26100	25,194	
	Sunset		29318	29962	27371	28,884	
	Fashoda		3564	3609	1388	2,854	
	Wench Creek	16622	15143		13500	15,088	
	Yellow Jacket	8866	7828		6190	7,628	
	Wolf Creek	7910	3976		5376	5,754	
	Gerle	10177	8757	8767	10425	9,532	
	Loon Family	7664	12271	9248	10634	9,954	
	Loon Equestrian	725	69		1164	490	
	*Minimal data for 2000						
	GROUP						
	Wench 1	3261	2600		2381	2,747	
	Wench 2	2634	2185		2003	2,274	
	Loon 1	1540	1060		1359	1,320	
	Loon 2	583	588		704	625	
	Loon Equestrian	671	803		371	615	
	BOAT LAUNCH						
Ice House-min data for 1999	81	300		927	436		
Sunset-min data for 2000		206		2258	1,232		
Loon	943	985		1127	1,018		
Total Overnight Use	82924	117588	77078	113278			
FACILITY							
Day Use (persons)	PICNIC/DAY USE						
	Ice House	3686	1543		4199		
	Fashoda		1176		1691		
	Gerle	3144	3069		5223		
	Loon	934	1490		1088		
	Total Day Use	7764	7278	0	12201		
FACILITY							
Day Use (vehicles)	DAY USE AREAS						
	Ice House Boat Launch	19898	10479		11053		
	Sunset Boat Launch		3675		9111		
	Yellow Jckt Boat Launch	4396	3878		4036		
	Loon Lake Boat Launch	3805	7074		3700		
	Loon Wilderness Trlhd	6111	4914		3017		
	Total Vehicle Use	34210	30020	0	30917		

UARP RIM Data Summary

TABLE 2.
Total Annual Use for Free Facilities based on FS RIM data, 1999 - 2002.

FACILITY		1999	2000	2001	2002
Overnight Use (persons)	CAMPGROUND				
	Azalea Cove		109		
	Westpoint		1251		
	Camino Cove		6961		
	Lone Rock		123		
	Airport Flat	2709	2202		
	Pleasant				
	Angel Creek	854	295		
	BOAT LAUNCH				
	Westpoint	1989	800		
	Total Overnight Use	5552	11741	0	0

FACILITY		1999	2000	2001	2002
Day Use (vehicles)	DAY USE AREAS				
	Westpoint Boat Launch	4211	2478		
	Total Vehicle Use	4211	2478	0	0

TABLE 3.
Total Annual Use for Fee Demo Facilities based on FS RIM data, 1999 - 2002.

FACILITY		1999	2000	2001	2002
Overnight Use (persons)	CAMPGROUND				
	Northwind	2790	2623		2219
	Strawberry Point	2607	2659		2466
	Jones Fork	2629	2696		2176
	Northshore	1757	1689		2023
	Red Fir		513		
	GROUP				
	Big Silver		881		
	Total Overnight Use	9783	11061	0	8884

UARP RIM Data Summary

Table 4.
Total Annual Use by UARP Facility Type based on FS RIM data, 1999 - 2002.

		FACILITY	1999	2000	2001	2002
		Overnight Camping (People Days)	CAMPGROUND		86557	129982
GROUP CG			8689	8117	0	6818
BOAT LAUNCH			3013	2291	0	4312
Total Overnight Use			98259	140390	77078	122162

		FACILITY	1999	2000	2001	2002
		Day Use (People Days)	TOTAL DAY USE		7764	7278

		FACILITY	1999	2000	2001	2002
		TOTAL VEHICLE DAY USE	36199	30820	0	30917

Table 5.
Total Annual Use for the UARP based on FS RIM data, 1999 - 2002.

	1999	2000	2001	2002
TOTAL USE	142,222	178,488	77,078	165,280

APPENDIX J

SHOULDER SEASON USE DATA AT DEVELOPED FACILITIES (ENF DATA)

Table J1-1. ENF Shoulder Season Use Estimates for Developed Campgrounds 1996-1997									
Developed Campground Visitor Use: October 1 1995-Memorial Day 1996; Labor Day 1996-Sept 30 1996 (Est. 270 Days)	# Visitors	Site Occupied- Auto	Site Occupied- Trailer	Site Occupied- Tent	Total Occupancy	Total # Days Counts Missed	Estimated Occupancy Rate	Average Recreation Day	Estimated Visitor Per Season
Airport Flat	0	0	0	0	0	0	0.0%	0.00	0
Fashoda Tent Campground	368	0	0	99	99	0	37.0%	1.36	368
Gerle Creek Campground	1188	76	72	177	325	0	20.0%	4.40	1,188
Icehouse Campground	4687	411	435	658	1504	90	35.0%	26.04	7,031
Jones Fork Campground	400	62	7	91	160	32	47.0%	1.68	454
Loon Lake Campground	751	40	54	172	266	15	23.0%	2.95	795
Loon Lake Equestrian Family Campground	0	0	0	0	0	0	0.0%	0.00	0
Northshore R.V.	398	62	23	59	144	82	27.0%	2.12	572
Northwind Campground	381	91	60	101	252	32	70.0%	1.60	432
Pleasant Campground	na	na	na	na	na	na	na	0.00	0
Silver Creek Campground	316	0	0	39	39	106	16.0%	1.93	520
South Fork Campground	132	9	16	27	52	122	14.0%	0.89	241
Strawberry Campground	562	115	39	78	232	81	66.0%	2.97	803
Sunset Campground	3938	153	294	560	1007	0	23.0%	14.59	3,938
Wench Creek Campground	1294	44	69	208	321	0	29.0%	4.79	1,294
Wentworth Springs Campground	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.00	0
Wolf Creek Campground	0	0	0	0	0	0	0.0%	0.00	0
Wrights Lake Campground	1552	56	121	302	479	82	32.0%	8.26	2,229
Wrights Equestrian Campground	36	1	17	0	18	82	7.0%	0.19	52
Yellow Jacket Campground	929	54	18	148	220	0	18.0%	3.44	929
Total Estimated Visitor Use per Shoulder Season 1995-1996								20,845	

Table J1-1. ENF Shoulder Season Use Estimates for Developed Campgrounds 1996-1997									
October 1 1996-Memorial Day 1997; Labor Day 1997-Sept 30 1997	# Visitors	Site Occupied- Auto	Site Occupied- Trailer	Site Occupied- Tent	Total Occupancy	Total # Days Counts Missed	Estimated Occupancy Rate	Average Recreation Day	Estimated Visitor Per Season
Airport Flat	858	93	31	100	224	117	37.0%	5.61	1,514
Fashoda Tent Campground	158	0	0	35	35	0	17.0%	0.59	158
Gerle Creek Campground	1488	34	81	279	394	15	32.0%	5.84	1,576
Icehouse Campground	5588	353	431	772	1556	116	36.0%	36.29	9,797
Jones Fork Campground	745	78	26	125	229	46	62.0%	3.33	898
Loon Lake Campground	1573	35	93	301	429	15	23.0%	6.17	1,666
Loon Lake Equestrian Family Campground	36	0	0	9	9	0	14.0%	0.13	36
Northshore R.V.	606	100	68	84	252	99	36.0%	3.54	957
Northwind Campground	381	91	60	101	252	46	66.0%	1.70	459
Pleasant Campground	na	na	na	na	na	na	na	na	0
Silver Creek Campground	378	0	0	53	53	132	21.0%	2.74	740
South Fork Campground	365	6	24	62	92	103	26.0%	2.19	590
Strawberry Campground	1035	110	26	188	324	81	61.0%	5.48	1,479
Sunset Campground	4629	250	269	661	1180	0	21.0%	17.14	4,629
Wench Creek Campground	1760	52	101	238	391	0	22.0%	6.52	1,760
Wentworth Springs Campground	na	na	na	na	na	na	na	na	0
Wolf Creek Campground	164	4	18	16	38	0	3.0%	0.61	164
Wrights Lake Campground	0	0	0	0	0	39	17.0%	0.00	0
Wrights Equestrian Campground	0	0	0	0	0	39	17.0%	0.00	0
Yellow Jacket Campground	780	15	22	174	211	0	23.0%	2.89	780
Total 1996-97							27,202		