

**Placer County Water Agency  
Middle Fork American River Project  
(FERC No. 2079)**

***FINAL***

**REC 2 – RECREATION VISITOR SURVEYS  
TECHNICAL STUDY REPORT**



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## 1.0 INTRODUCTION

This report describes recreation visitor surveys and reservoir angler surveys conducted by the Placer County Water Agency (PCWA) in association with the REC 2 – Recreation Visitor Surveys Technical Study Plan (REC 2 – TSP). The REC 2 – TSP is included in Supporting Document (SD) H of the Pre-Application Document (PAD) for the Middle Fork American River Project (MFP or Project) (PCWA 2007).

The REC 2 – Recreation Visitor Surveys Technical Study Report (TSR) describes: (1) the methods and protocols used to conduct the general visitor and reservoir angler surveys; (2) the overall results of these surveys, including general background and demographic information about the survey respondents; (3) general results that relate to camping at developed sites, day use at developed sites, and day use or camping in undeveloped areas; and (4) the results of angler surveys conducted at French Meadows and Hell Hole Reservoirs. Detailed results pertaining to specific topics or issues will be documented in other recreation-related TSRs, as follows:

- Survey results that pertain to specific developed recreation facilities and/or facility amenities will be documented in the REC 1 – Recreation Use and Facilities Assessment TSR (PCWA 2009a). This report will be distributed to the Recreation Technical Working Group (TWG) in the fall of 2009.
- Survey results that specifically pertain to reservoir recreation will be documented in the REC 3 – Reservoir Recreation Opportunities TSR (PCWA 2009b). This report will be distributed to the Recreation TWG in the fall of 2009.
- Survey results that specifically pertain to stream-based recreation were documented in the REC 4 – Stream-based Recreation Opportunities TSR (PCWA 2009). This report was distributed to the Recreation TWG for review and comment on July 23, 2009.

## 2.0 STUDY OBJECTIVES

The REC 2 – TSP included two primary study objectives, as follows:

- Conduct a General Visitor Survey.
  - Collect recreation visitor survey data to describe current recreation activities and characteristics of users at developed Project recreation facilities, at specific dispersed concentration use areas and at five locations within the Auburn State Recreation Area (ASRA).
  - Collect recreation user survey data to evaluate use patterns, visitor preferences and demand for opportunities, and new or improved developed recreation facilities.
- Conduct an angler survey at French Meadows and Hell Hole reservoirs.

Figure REC 2-1 shows the REC 2 – TSP study objectives and the study elements and activities that relate to each of the study objectives. It also shows how information

developed through the general visitor surveys and the reservoir angler surveys has been or will be documented.

### **3.0 STUDY IMPLEMENTATION**

The general visitor surveys and the reservoir angler surveys were conducted in 2008, starting on Memorial Day weekend and ending on Labor Day weekend. Specific study elements that have been completed, deviations from the REC 2 – TSP, outstanding study elements, and any proposed modifications to the REC 2 – TSP are discussed in the following subsections.

#### **3.1 STUDY ELEMENTS COMPLETED**

The two study elements identified in the REC 2 – Recreation Visitor Surveys TSP (PCWA 2007) have been completed, as summarized in the following.

##### Conduct General Visitor Surveys

Recreation visitor surveys were conducted in 2008, between Memorial Day Weekend and Labor Day weekend. The TSP indicated that, if warranted, the survey duration might be extended to address specific informational needs related to shoulder season activities, for example hunting. However, the survey duration was not extended because PCWA and the USDA-FS agreed to address shoulder season issues outside of the survey process. This approach was discussed and approved by the Recreation TWG during meetings held on July 21 and September 22, 2008.

The recreation visitor surveys were conducted at all of the Project recreation facilities, at select dispersed concentrated use areas (DCUAs) identified by the stakeholders, and at five sites located along the peaking reach, within ASRA. The survey instruments (forms) and administration protocols were developed in consultation with the Recreation TWG during a series of meeting eight meetings conducted between October 1, 2007 and April 8, 2008, and through follow-up discussions and e-mail correspondence which continued through survey implementation. The methods for developing the survey forms and administration protocols are described in detail in this report, along with the survey results.

##### Conduct Reservoir Angler Surveys at French Meadows and Hell Hole Reservoirs

Reservoir angler surveys were conducted at French Meadows and Hell Hole Reservoirs as a component of the General Visitor Surveys. Specifically, Section A-7 (Fishing) of the General Visitor Survey form was used to collect information about fishing at French Meadows and Hell Hole Reservoirs. Section A-7 of the survey instrument was developed in consultation with the California Department of Fish and Game (CDFG), the USDA-FS, and interested recreation TWG participants, and focused on documenting angler effort, success, preferences, and satisfaction. As with the General Visitor Survey, this survey was conducted between Memorial Day and Labor Day. The

methods for developing the angler survey form (Section A-7) and the survey administration protocols are described in detail in this report, along with the survey results.

### **3.2 DEVIATIONS FROM THE REC 2 – TSP**

The REC 2 – Recreation Visitor Surveys were conducted as outlined in the REC 2 – TSP with one minor deviation, as follows:

- The REC 2 – TSP indicated that a “separate” angler survey would be conducted at French Meadows and Hell Hole reservoirs. However, the angler survey was not conducted as a separate study. Instead, it was conducted as a component of the general visitor survey. This approach was discussed with, and approved by, the Recreation Technical Working Group (TWG) during meetings conducted on October 1–2 and December 10, 2007, respectively.

### **3.3 OUTSTANDING STUDY ELEMENTS**

There are no outstanding study elements.

### **3.4 PROPOSED MODIFICATIONS TO THE REC 2 – TSP**

There are no proposed modifications to the REC 2 – TSP.

## **4.0 EXTENT OF STUDY AREA**

The recreation visitor surveys were conducted at existing developed Project recreation facilities and at select DCUAs identified in Table REC 2-1. In addition, recreation visitor surveys were conducted at five specific sites located within ASRA (Table REC 2-1). The DCUAs to be surveyed were selected in consultation with the Recreation TWG, based on the results of vehicle counts conducted by PCWA in 2007 in association with the REC 1 – Recreation Use and Facilities TSP (PCWA 2007).

## **5.0 STUDY APPROACH**

The general visitor surveys were designed to collect information about a broad range of recreation activities and potential issues that were identified by the stakeholders and included in the REC 2 – TSP (Table REC 2-2). In order to adequately address the range of potential issues and information needs identified by the stakeholders, the general visitor survey was separated into two distinct survey efforts, one utilizing a survey instrument (form) referred to as Form A and another utilizing a survey instrument referred to as Form B.

- Form A was the primary survey instrument and was designed to collect a range of demographic and recreation activity-specific information. A blank copy of Form A is included in Appendix A for reference.



- Form B was designed to collect information about visitation patterns, spending, travel destinations and routes, and dispersion patterns. A blank copy of Form B is included in Appendix B for reference.

The reservoir angler survey was conducted using a specific section of Form A - Section A-7 Fishing (Appendix A). The reservoir angler survey focused on developing information about fishing at French Meadows Reservoir and Hell Hole Reservoir. However, Section A-7 also allowed for survey respondents to provide feed back about river/stream fishing.

The general visitor and reservoir angler survey instruments (forms), survey schedule, and administration protocols were developed in consultation with the Recreation TWG during a series of eight meetings conducted between October 1, 2007 and April 8, 2008, and through follow-up discussions and e-mail correspondence which continued through survey implementation. The following subsections describe the specific methods used to develop, administer, process, and analyze the general visitor and reservoir angler surveys. The forms, schedules, administration protocols, and analytical procedures differed for each survey effort. Accordingly, the discussion is organized by the following sub-sections:

- General Visitor Survey - Form A;
- General Visitor Survey - Form B; and
- Reservoir Angler Survey.

### **5.1 GENERAL VISITOR SURVEY – FORM A**

Form A was the primary survey instrument used for the general visitor surveys. The overall structure of Form A and the specific questions included on Form A were developed in consultation with the Recreation TWG. Form A included a Background Information section (A-1) and six additional sections, as follows:

- (1) Background Information (Section A-1);
- (2) Camping at Developed Sites (Section A-2);
- (3) Day Use at Developed Sites (Section A-3);
- (4) Day Use or Camping in Undeveloped Areas (Section A-4);
- (5) Day Use along a Stream/River (Section A-5);
- (6) Reservoir Recreation (Section A-6); and
- (7) Fishing (Section A-7).

The Background Information Section (A-1) included questions that were designed to obtain information about the reasons people choose to visit the study area, the importance of specific facilities and/or amenities, visitation patterns, and basic demographics. Sections A-2 through A-7 included a range of questions that focus on collecting information pertaining to specific activities and/or recreation areas.

## **Survey Pre-test**

A draft version of Form A was pre-tested to ensure that the questions were understandable and that the survey could be administered in a reasonable amount of time (e.g. under 10-minutes). The pre-test was conducted at Ruck-a-Chucky on Sunday March 9, 2008 from 1:00–5:00 PM.

A total of 15 visitors were contacted. Of these, eight people (53%) agreed to participate in the survey. People who did not complete surveys included mobile trail users (for example, distance runners and equestrian users) and people who just arrived. All respondents were asked to complete the Background Section (A-1) and Section A-5 – Day use Along a Stream/River. In addition, two respondents completed Section A-2 – Camping at Developed Sites.

All of the respondents were able to complete the survey in less than 10 minutes. In addition, the responses indicated that the survey instructions and questions were easy to understand, with a few minor exceptions. The exceptions involved questions about the presence of law enforcement personnel.

Form A was refined based on the pre-test results and redistributed to the Recreation TWG by e-mail on March 19, 2008 for review and approval. The Recreation TWG approved the revisions during a meeting held on March 26, 2008.

### **5.1.1 Survey Schedule**

The schedule for the Form A surveys was developed in consultation with the Recreation TWG. In general, the survey schedule was structured using a stratified random sampling approach that was based on vehicle count data collected as part of the REC 1 – Recreation Use and Facilities Assessment TSP (PCWA 2007) and USDA-FS campground occupancy data, as explained in the following.

### **Vehicle Counts**

PCWA conducted vehicle counts in association with the REC 1 – Recreation Use and Facilities TSP (PCWA 2007). The methods used to conduct the vehicle counts and the results of this effort will be described in detail in the REC 1 – Recreation Use and Facilities TSR (2009a). A brief overview of the vehicle counts is provided in the following, focusing on information that is pertinent to the general visitor surveys.

The vehicle counts were conducted for one year, beginning in May 2007 and ending in May 2008. The level of effort varied by season, with the highest level of effort occurring during the summer recreation season (Memorial Day through Labor Day). The vehicle counts were conducted at developed Project day use areas, DCUAs identified by the stakeholders, at the primary turnouts in the vicinity of Ralston Afterbay, Hell Hole Reservoir, French Meadows Reservoir, and Duncan Creek Diversion and at the developed Project campgrounds in the Hell Hole Area. Vehicle counts were not conducted at the developed Project campgrounds in the French Meadows Reservoir area because the concessionaire that operates and maintains the family and group

campgrounds, and day use areas, keeps use data that is made available to the USDA-FS per terms of the special use permit. The use data for these campgrounds was made available to PCWA for the purposes of this study.

The raw vehicle count data for the summer period (Memorial Day – Labor Day, 2007) was tabulated and then used to estimate average daily vehicle counts for each site. The raw data and summary data (average daily vehicle counts) were distributed to the stakeholders for review on January 15, 2008 and are included in Appendix C for reference. The average daily vehicle count data was used to determine where and how often recreation visitor surveys should be conducted to achieve statistically representative survey data, as explained in the following.

The average daily vehicle count data was first adjusted by a turnover factor based on observed or estimated turnover rates, ranging as follows:

- 1 = no or low turnover;
- 2 = moderate turnover; and
- 4 = high turnover.

Different turnover rates were applied depending upon the type of site, in accordance with the following general criteria:

- Campgrounds – no turnover;
- Developed day use areas – varies by site, from no turnover to 4 times a day; and
- Dispersed concentrated use areas – varies by site, from no turnover to 4 times a day.

The turnover rates that were applied to each specific site are summarized on Table REC 2-3.

The adjusted vehicle count data was used along with campground use data provided by the USDA-FS to determine the recreation visitor survey protocols, including:

- Survey sample size (number of surveys to be conducted at each site or group of sites);
- Survey locations;
- Sampling effort/frequency; and
- Sampling schedule.

Each of these protocol elements is described further in the following subsections.

## Survey Sample Size

The adjusted vehicle count data was multiplied by 2.8 people per vehicle to estimate total recreation use and recreation use at each individual site. The use levels (survey population) were then used to calculate the number of surveys to be completed at each site or group of sites to achieve statistically representative results. The sample size was selected to achieve a sampling error of 10%.

## Survey Locations

The estimated use levels were used to organize the survey locations according to three categories, as follows:

- Individual sites – statistical surveys: Use at these sites was determined to be high enough to support a statistically representative survey effort.
- Grouped sites – statistical surveys: When combined, use at groups of individual sites was determined to be high enough to support a statistically representative survey effort.
- Grouped sites – qualitative surveys: When combined, use at groups of individual sites was determined to be high enough to support only a qualitative sampling effort.

## Sampling Effort/Frequency

The sampling effort required at each site on holidays, weekend days, and weekdays is summarized on Table REC 2-4, organized by the three categories defined above. Sites that did not fit into one of these categories were not surveyed because surveys were deemed not feasible or practical due to very low use levels.

The number of survey days (sampling frequency) required at each site was determined based on:

- Survey sampling targets;
- Average number of daily users on holidays, weekdays, and weekend days;
- Interception rate of 75% of potential users; and
- Participation rate of 33%.

The sampling frequency is summarized on Table REC 2-4, organized by survey location. The survey locations and identification numbers are shown on Map REC 2-1 and Map REC 2-2. The boundaries of each survey area are shown on Map REC 2-3 (12 sheets).

## Sampling Schedule

A detailed sampling schedule was developed for review and approval by the Recreation TWG. The sampling schedule was organized by month and showed every day that the recreation technicians were to visit individual sites or groups of sites. The sampling days were selected using a stratified random sampling approach. The sampling schedule was first stratified by type of site, and then by month based on use distribution, using the following criteria:

- Individual sites and grouped sites identified for statistical surveys were scheduled to be sampled on weekdays, weekends, and holidays.
- Individual sites and grouped sites identified for qualitative surveys were scheduled to be sampled on weekends and holidays.
- Surveys were not scheduled on Fridays to provide an open day for QA/QC and data management activities and to allow for adjustments to the sampling schedule, if needed.

In a few cases, it was necessary to reschedule sampling dates to accommodate logistical issues. Specifically, the random selection of sampling days sometimes resulted in a situation where the survey technicians could not visit all of the sites and still adhere to the sampling protocols. In these cases, sampling days were rescheduled so that all of the sites could be sampled the appropriate number of times. Any rescheduled days were reassigned to similar day-types. For example, sampling days that were originally scheduled to occur on a weekday were rescheduled to another weekday. Similarly, sampling days that were originally scheduled to occur on weekends were rescheduled to weekends.

Each survey day included two 4-hour sample blocks. Sample blocks were defined as follows:

- AM Block: 8 AM–12 PM;
- PM Block: 1–5 PM; and
- Evening Block: 4–8 PM.

To intercept the most number of recreation visitors, surveys were scheduled to be conducted during specific time blocks at each site. The time blocks differed depending on the type of site, as summarized below.

### Campgrounds

- Surveys were scheduled to be conducted during AM blocks (8–12) or evening blocks (4–8) only.

### All Other Individual Sites

- Surveys were scheduled to be conducted during AM blocks (8 - 12) or PM blocks (1–5).

### Grouped Sites

- Surveys were scheduled to be conducted during AM blocks (8–12) or PM blocks (1–5).
- Starting points within each group of sites were randomly selected.
- Recreation technicians were instructed to rove through groups of sites over a 4-hour period.

### Sites in ASRA

- Surveys were scheduled to be conducted during AM blocks (8–12) or PM blocks (1–5).

The resulting survey schedules for the months of May, June, July, August, and September are shown on Table REC 2-5. This table shows the original schedule that was approved by the Recreation TWG. However, during the survey period, a few adjustments to the survey schedule were made based on field observations and to accommodate unforeseen circumstances that emerged during implementation of the surveys. These schedule adjustments are described in the following subsection.

### **Schedule Adjustments**

Table REC 2-6 presents the original survey schedule, along with any adjustments that were made during the survey period, coded as follows:

- Originally scheduled survey days are shown in blue;
- Survey days that were cancelled or rescheduled are identified with an X; and
- Survey days that were added after the original survey schedule was developed are shown in orange.

The following describes the schedule adjustments that occurred during the survey period, and the rationale for the adjustments. As agreed to with the Recreation TWG, PCWA conveyed any schedule adjustments to the Recreation TWG via e-mail as the survey effort proceeded. Substantive changes, for example, those involving changes to survey protocols were not made without the approval of the Recreation TWG.

### Improve Sampling Efficiency and Increase the Number of Completed Surveys

The original survey schedule was based on a survey protocol that required the field technician to remain at a designated site for a period of four hours before proceeding to the next designated survey site. However, recreation use at some of the campgrounds

and day use areas in the Hell Hole and French Meadows Reservoir areas was so low that all potential survey respondents were interviewed within the first hour of arriving on site, resulting in a lot of “down time” for the field technician and very few completed surveys. Therefore, to improve sampling efficiencies, and to increase the number of completed surveys, PCWA proposed to utilize the excess time to rove to nearby sites. Specifically, PCWA proposed that the survey protocol be adjusted to allow the recreation technicians to proceed to nearby campgrounds and day use areas once the field technician had completed surveying all of the visitors at the assigned area, with the following caveats:

- The field technician could only rove to sites within a designated area, for example either the Hell Hole Reservoir area or the French Meadows Reservoir area; and
- The field technician could only rove to similar types of sites, for example campgrounds or day use facilities.

The proposed schedule adjustment was sent to the Recreation TWG by e-mail on June 30, 2008 with comments due by July 7, 2008. No comments were received so the protocol adjustment was deemed approved. The protocol adjustment went into effect starting July 12, 2008.

After implementing this adjustment, PCWA proposed a second adjustment to further improve sampling efficiency and to increase the number of surveys completed. Specifically, PCWA proposed that the survey protocol be adjusted to allow the recreation technicians to travel between nearby areas, regardless of type of facility. For example, the field technician could rove between day use areas and campgrounds. This change was discussed and approved by the Recreation TWG on July 21, 2008 and went into effect on July 26, 2008. This change meant that day users could be interviewed between 4:00 PM and 8:00 PM (Evening Block) and visitors at campgrounds could be interviewed between 1:00 PM and 5:00 PM (PM Block).

### Unforeseen Circumstances

Some schedule changes occurred due to unforeseen circumstances, including: road closures, wildfires, equipment or vehicle malfunctions, and staff illness. Table REC 2-7 summarizes the specific adjustments that were made to accommodate these issues. With the exception of changes due to wildfires, all missed survey days were rescheduled to ensure that the appropriate number of surveys could be obtained. Most of the survey days that were cancelled due to wildfires were recovered later in the summer consistent with the schedule changes described above. These changes were documented in an e-mail sent to the Recreation TWG on June 30, 2008.

### Schedule Balancing

Based on a random selection process, Ahart Campground was originally scheduled to be surveyed on eight consecutive days. Many of the users at Ahart Campground stay for multiple days, meaning that the field technician would encounter the same users over and over. Accordingly, to increase the odds of encountering new users, PCWA

adjusted the survey schedule to spread out the survey days at Ahart Campground. This schedule adjustment was documented in an e-mail sent to the Recreation TWG on June 30, 2008.

### Mammoth Bar

Mammoth Bar is a multi-use OHV area located in ASRA. The area is open to OHV use on Sundays, Mondays, and Thursdays. OHV use is prohibited on Saturdays, Tuesdays, Wednesdays, and Fridays. Based on a random selection process, Mammoth Bar was originally scheduled to be surveyed on days when OHV use is allowed. During these days, very few, if any, stream-based recreation users were encountered. To increase the opportunity of encountering more stream-based users, PCWA proposed to conduct surveys at Mammoth Bar only on those days when OHV use is prohibited. This schedule adjustment was documented in an e-mail sent to the Recreation TWG on June 30, 2008 and discussed with the Recreation TWG during a meeting held on July 21, 2008.

### Group Campgrounds

Sampling dates were originally established at the reservable group campgrounds (Coyote, Gates, Middle Meadows) using a random sampling approach. However, at the request of the USDA-FS, PCWA agreed to contact the USDA-FS before each sampling event to ensure that the sites would be occupied when the surveys were conducted. This consultation process resulted in several rescheduled survey days. Ultimately, the group campgrounds were surveyed more frequently than originally scheduled due to the protocol changes described above.

## **5.1.2 Survey Administration Protocols**

The protocols for administering the Form A general visitor surveys were developed in consultation with the Recreation TWG and included both general protocols and site-specific protocols, as described in the following.

### **General Protocols**

The Form A surveys were administered by a crew of at least five recreation technicians who rotated through the various sites based on the pre-established survey schedule. Initially, each field technician was assigned to one or two 4-hour blocks in specific locations. However, over the course of the summer, the sampling schedule was adjusted to accommodate for field conditions, and to increase the opportunity to complete more surveys, as explained above. Each field technician was instructed to survey as many recreation visitors as possible during the 4-hour block. The target respondent was an adult (18 years and older), but recreation technicians were instructed not to ask visitors their age for reasons of confidentiality.

Recreation technicians wore standardized T-shirts and sweatshirts along with a hat clearly identifying them as being associated with PCWA (Appendix D). After introducing themselves, the recreation technicians would describe the purpose of the survey and



then would ask the potential respondent whether they were interested in participating in the survey. If the potential respondent declined, the field technician moved on to the next visitor or group of visitors. If the potential respondent had already filled out a survey on the current trip, they were not asked to fill it out again. When groups were encountered, the recreation technicians were instructed to survey all adults in the group, provided they were willing to participate.

All visitors who agreed to participate in the survey were first asked to identify the activities they engaged in during their visit. The field technician then utilized this information to determine which sections of Form A should be completed by the respondent. All respondents were asked to complete the Background Information Section (A-1). In addition, each respondent was asked to complete at least two other sections, depending upon their primary recreation activities. Respondents who identified multiple activities were instructed to choose the two activities they considered most relevant to their current trip. However, respondents were not dissuaded from completing more than two sections.

The survey was self administered, although recreation technicians remained nearby to answer questions, if requested. In some cases, the field technician encountered visitors who were willing to participate in the survey but were unable to fill out the survey themselves (e.g. they were rigging a boat or didn't have their glasses). In these cases the field technician interviewed the respondent and completed the form. In general, the survey took between 10 and 15 minutes to fill out depending upon the number of sections that the respondent completed.

Respondents who were interested in obtaining additional information about the MFP, the survey effort, or survey results were provided with a basic information page and an information card containing a link to the MFP relicensing web site (Appendix D).

### **Site-Specific Protocols**

The following site-specific protocols were established in consultation with the Recreation TWG and were followed by the recreation technicians.

#### Project Recreation Facilities

- All respondents were asked to complete Section A-1 (Background Information).
- With the exception of campgrounds, each respondent was asked to complete two additional relevant sections based upon the primary activities they identified.
- Visitors intercepted at campgrounds were asked to complete all relevant sections.
- Visitors that indicated that they had just arrived were asked to complete Section A-1 (Background Information) only.

### Sites Located in ASRA

- Surveys targeted stream-based recreation users (e.g., swimmers, boaters, and anglers).
- People participating in other recreation activities, such as mountain biking, running and horseback riding, were not asked to participate in the surveys, unless they were idle.
- All respondents were asked to complete Sections A-1 (Background Information) and Section A-5 (Day Use along a Stream/River).
- All respondents were asked to complete Section A-7 (Fishing), if applicable.
- Respondents encountered at Ruck-a-Chucky were also asked to complete Section A-2 (Camping at Developed Sites) or Section A-3 (Day Use at Developed Sites), as applicable.

#### **5.1.3 Survey Log**

A survey log was developed in consultation with the Recreation TWG, and was designed to be completed by the recreation technician. The purpose of the survey log was to document site and weather conditions on the day of the surveys, and to collect other pertinent information that could be used to help interpret the survey results, if needed.

A draft version of the survey log was pre-tested in conjunction with Form A. In general, the survey log was found to be functional with a couple of minor exceptions. The revised survey log was distributed to the Recreation TWG for review and approval. The Recreation TWG approved the revisions during a meeting held on March 26, 3008. The final survey log is included in Appendix E.

#### **5.1.4 Data Management and Analysis**

All completed survey forms and survey logs were organized and filed for future reference. Copies of the completed forms are available at PCWA's headquarters in Auburn for review by the public or stakeholders.

All data documented on each section of Form A was coded and then entered into SPSS, a database and statistical analysis package. All data entry was conducted by trained data entry personnel. After entering the data, a random sample of 10% of the forms was checked for data entry errors and to verify that it was properly entered. Any data entry errors that were identified through this process were corrected. In addition, any entries that appeared to be questionable or erroneous were double-checked against the original survey forms and logs for accuracy.

#### **Participation Rates**

Survey participation was assessed by comparing the number of people intercepted at each site against the number of people who actually participated in the survey at each

site. Consistent with the survey protocols, a survey participant was defined as any person who completed the General Background Section (1-A) of Form A.

### **Survey Confidence Levels**

The survey protocols, including the number of surveys to be completed at each location, were designed to achieve a 95% confidence level, with a +/- 10% margin of error. The actual number of completed surveys was used to determine survey confidence levels that were actually achieved in each location. Specifically, confidence levels were calculated using use data provided by the Forest Service and vehicle count data developed in 2007, adjusted based on the turnover rates determined through the 2008 visitor surveys. As explained further in Section 6.1 a 95% confidence level was not achieved at all sites, primarily because the recreation use levels used to design the survey protocols were over-estimated.

### **Analysis of Survey Responses**

All survey data was organized into six geographic areas for analysis and reporting purposes. The specific sites included in each area are identified on Table REC 2-8.

After organizing the data into these geographic areas, the data for each section of Form A was analyzed separately using data base queries, and by cross tabulating various data fields, depending upon the particular question or issue. The resulting output was tabulated and reported by region and then by survey section. With a few exceptions, all responses were accepted and included in the analysis. The exceptions and/or anomalies are discussed in Appendix F, by survey question.

## **5.2 GENERAL VISITOR SURVEY – FORM B**

Form B was designed to collect information about visitation patterns, spending, travel destinations, travel routes, and dispersion patterns (Appendix B). Form B asked respondents to identify: where they came from, the number of years they have been visiting the study area, how often they visit the study area, their primary recreation activities, and the amount of money they spent or expected to spend in three gateway communities (Auburn, Foresthill, and Georgetown). Form B respondents were also asked to identify their travel destinations and routes, and to identify other areas visited during their trip. The recreation technician utilized a reference map to help respondents identify their travel routes, when necessary.

### **5.2.1 Survey Schedule**

The Form B surveys were conducted at Project recreation facilities and at the Duncan Creek DCUAs. With the concurrence of the Recreation TWG, they were not conducted at any of the other DCUAs.

The survey goal was to collect a total of 100 completed surveys. The target of 100 surveys was established to provide a statistically representative sample of the entire survey population as estimated through PCWA's vehicle counts conducted in 2007.

The Form B surveys were scheduled around the randomly selected Form A schedule. Specifically, the Form B surveys were conducted on weekdays and weekends when one or more recreation technicians was available to conduct the surveys (e.g. they were not already assigned to conduct Form A surveys). On Form B survey days, the field technician(s) was assigned to rove through the developed Project recreation facilities, and the DCUAs in the Duncan Creek area, over a 4–8 hour period. Start times varied randomly, ranging from a 9:00 A.M. start to a 1:00 P.M. start. The Form B survey days are shown on Table REC 2-9.

### **Survey Administration Protocols**

To administer the Form B surveys, the field technician would start at one of the recreation facilities in either the Ralston Afterbay area (Indian Bar Rafter Access or Ralston Picnic Area) or at the Hell Hole Boat Ramp. The starting point was randomly selected. The field technician would then follow a standardized route that would allow full coverage of the survey sites.

After introducing themselves, the recreation technicians would describe the purpose of the survey and then would ask the potential respondent whether they were interested in participating in the survey.

The Form B survey questions focused on travel and dispersion patterns. Therefore, if a group of visitors was encountered only one representative person from the group was asked to complete a survey, unless members of the group traveled separately. The Form B surveys were completed using an interview format. Specifically, the field technician interviewed the visitor and completed the survey form. The Form B surveys were completed in 5–10 minutes.

The field technician remained at each site long enough to survey all individuals or representatives from each group. Due to low recreation use levels, the recreation technicians often interviewed all willing participants present in a short amount of time. In addition, sometimes no people were present when the field technician arrived on site. In these cases, the field technician remained on site for up to 30 minutes, with the intention of interviewing new arrivals. If no visitors arrived, the field technician continued on to the next site, until they reached either Ralston Afterbay or Hell Hole Boat Ramp, depending upon the starting point.

As with the Form A surveys, respondents who were interested in obtaining information about the survey results or additional information about the MFP were provided with an information page and card containing a link to the MFP relicensing web site (Appendix D).

### **Data Management and Analysis**

All completed survey forms and associated maps were organized and filed for future reference. Copies are available at PCWA's headquarters in Auburn for review by the public or stakeholders.

All data documented on Form B was coded and entered into SPSS by trained data entry personnel. The Form B maps were used to help interpret the information on the forms. After entering the data, a random sample of 10% of the forms was checked for data entry errors and to verify that it was properly entered. Any data entry errors that were identified through this process were corrected. In addition, any entries that appeared to be questionable or erroneous were double-checked against the original survey form and survey logs for accuracy.

Once the data was entered and checked for errors, the dataset was analyzed in SPSS using data base queries, and by cross tabulating various data fields, depending upon the particular question or issue. The resulting output was then summarized by the following four areas:

- Hell Hole Reservoir Area;
- French Meadows Reservoir Area;
- Duncan Creek Diversion Area; and
- Ralston Afterbay Area.

Form B surveys were not conducted in the Long Canyon Area because nobody was present at the Middle Meadows Campground on any of the days when the Form B surveys were conducted.

### **5.3 RESERVOIR ANGLER SURVEY**

Angler surveys were conducted at French Meadows and Hell Hole Reservoirs, as a component of the General Visitor Surveys – Form A. Specifically, any person who was intercepted at Hell Hole and/or French Meadows reservoirs and identified fishing as their primary activity was asked to complete Section A-7 of Form A. Section A-7 includes questions that pertain specifically to fishing and focuses on documenting angler effort, success, preferences, and satisfaction.

The questions included on Section A-7 of the survey instrument were developed in consultation with the Recreation TWG. Representatives of the California Department of Fish and Game (CDFG) were not present at many of the Recreation TWG meetings. Therefore, PCWA sent copies of Form A, including Section A-7, to CDFG for review and comment by e-mails dated January 15, 2008 and March 4, 2008. CDFG did not provide any specific comments regarding the reservoir angler surveys.

#### **5.3.1 Survey Schedule**

The Reservoir Angler Survey was conducted as a component of the General Visitor Survey – Form A. Therefore, the Reservoir Angler Surveys were conducted on the same days and times as the Form A surveys described above.

### **5.3.2 Survey Administration Protocols**

The Reservoir Angler Surveys were conducted using the same administration protocols as the Form A surveys described above.

### **5.3.3 Data Management and Analysis**

All data documented on Form A-7 was coded and entered into SPSS as part of the Form A data entry process. The survey results that specifically pertain to Hell Hole Reservoir, French Meadows Reservoir, and Ralston Afterbay were then queried and tabulated by frequency and percentage, according to the following topics:

- Fishing Effort;
- Fishing Location;
- Fishing Gear;
- Fish Species Caught, Kept, and Released;
- Fishing Experience; and
- Overall Satisfaction.

Although it was not specifically required in the REC 2 –TSP, the survey responses were used to determine catch per unit effort. Specifically, each survey form was reviewed to determine: (1) the total number of fish caught by each respondent; and (2) the total number of hours each respondent spent fishing. The results were then totaled and divided by the number of survey respondents who provided valid responses to determine the average number of fish caught per hour, and the standard deviation. Forms that did not contain valid information about both time spent fishing and number of fish caught were excluded from the analysis.

## **6.0 STUDY RESULTS**

The following describes the results of the visitor surveys. The results are organized by survey effort, as follows:

- General Visitor Survey – Form A;
- General Visitor Survey – Form B; and
- Reservoir Angler Survey.

### **6.1 GENERAL VISITOR SURVEY – FORM A**

A total of 1,790 people were intercepted as part of the Form A survey effort. Of these, 218 people had previously completed a survey form resulting in 1,572 potential survey participants. A total of 968 people participated in the survey, resulting in an overall participation rate of 62% (Table REC 2-10). Survey participation was better than expected and exceeded the participation rate of 33% that was used to design the

survey schedule and protocols. In general, people who did not participate in the survey stated:

- They were not interested in participating;
- They had already completed a survey at another location during their current trip; or
- They had already completed a survey on a previous trip.
- Participation rates by survey location are summarized on Table REC 2-10. As indicated, participation rates varied by location, as follows:
- Individual Sites – Statistical Surveys: Participation rates ranged from 50% at Mammoth Bar, Ahart Campground, and French Meadows Picnic Area and Boat Ramp to 72% at Coyote and Gates Group Campgrounds.
- Grouped Sites – Statistical Surveys: Participation rates ranged from 62% at the Confluence and Quarry Trail Parking Areas to 66% at the Hell Hole Boat Ramp and associated parking areas.
- Grouped Sites – Qualitative Surveys: Participation rates ranged from 42% in the Duncan Creek Area to 83 % at Hell Hole Campground.

The survey protocols, including the number of surveys to be completed at each location, were designed to achieve a 95% confidence level, with a +/- 10% margin of error. As indicated on Table REC 2-10, a 95% confidence level was not achieved at all sites. This is primarily because the recreation use numbers used to calculate the survey populations and to develop the survey effort were over-estimated.

The survey logs and responses were evaluated to assess the reasons for the over-estimation of use, with the following conclusions:

- The survey population did not turnover as often as expected, particularly at campgrounds. To determine the sampling effort, campgrounds were originally assigned a turnover factor of 1, meaning visitors stay an average of one night. However, the survey results indicate that overnight visitors stay an average of 3.1 nights per trip on an overall basis. Therefore, the number of unique visitors encountered at campgrounds was lower than expected.
- The use estimates assumed that day use and overnight visitors were entirely separate populations. However, information developed through the surveys indicates that most people who visit the MFP vicinity use both the campgrounds and the day use areas on the same trip. Therefore, there were fewer people to survey because the same visitors were sometimes intercepted in both the day use areas and campgrounds.
- The use estimates assumed that people visit the MFP vicinity once per season. However, information developed through the Form B surveys indicates that many people visit the MFP vicinity as many as 20 times per season. Therefore, there

were fewer people to survey because the same visitors were sometimes encountered on different trips.

- The use estimates treated all visitors the same, regardless of age. Based on the survey protocol, children were not asked to participate in the survey. The exclusion of minors reduced the survey population.

Additional information about recreation use at the campgrounds, day use areas, and dispersed concentrated use areas in the vicinity of the MFP will be provided in the REC 1 – Recreation Use and Facilities TSR, which will be distributed in the fall of 2009.

The results of the Form A general visitor surveys are described in detail in the following subsections. The discussion is organized by geographic area and then by survey section.

### **6.1.1 Hell Hole Reservoir Area**

The Hell Hole Reservoir Area includes the following developed Project recreation facilities and DCUAs identified by the stakeholders:

#### Campgrounds

- Big Meadows Campground
- Hell Hole Campground
- Upper Hell Hole Campground

#### Day Use Areas

- Hell Hole Boat Ramp and Associated Parking Areas
- Hell Hole Vista

#### DCUAs

- Area on west side of Hell Hole Reservoir, between dam and Hell Hole Boat Ramp
- Grey Horse Area

A combined total of 255 people intercepted in the Hell Hole Reservoir area participated in the general visitor survey. The survey responses collected at all of the Hell Hole Reservoir area sites were combined for analysis purposes. The results are summarized below by survey section.

### **Section A-1. Background Information**

A total of 255 people intercepted in the Hell Hole Reservoir area completed all or part of Section A-1. The aggregated responses are tabulated on Table REC 2-11 and are summarized below.



### Recreation Activities

Survey participants were asked to identify the activities they engaged in during their visit. Multiple responses were accepted. All 255 people intercepted in the Hell Hole area answered this question with the following responses:

- Camping at a developed site – 65.1% (166 people);
- Fishing – 49.4% (126 people);
- Reservoir recreation – 32.9% (84 people);
- Day use or camping in undeveloped areas – 11.4% (29 people);
- Day use along a stream/river – 5.1% (13 people); and
- Day use at a developed site – 4.7% (12 people).

### Vehicle Type

Survey participants were asked to identify the type of vehicle they used to drive to the area. A total of 247 people answered this question, with the following responses:

- Car/Truck/SUV – 89.9% (222 people);
- Camper/RV – 7.3% (18 people);
- Other (“car pool, jeep, van”) – 1.6% (4 people); and
- Motorcycle – 1.2% (3 people).

### Number of People in Vehicle

Survey participants were asked how many people were in their vehicle. A total of 250 people answered this question.

- The average number of people per vehicle was 2.7, with a standard deviation of 1.7.

### Group Age Categories

Survey participants were asked how many people in their group were under 18 or over 18. A total of 250 people provided sufficient information to analyze.

- 80.6% of the people in the group were 18 or over and 19.4% were under 18.

### Group Vehicles

Survey participants were asked to identify how many and what types of vehicles and trailers their group brought. A total of 242 people provided sufficient information to analyze.

- 90.1% of the respondents (218 people) said that their group brought a car/pickup/SUV, followed by boat trailer (34.3%), towed/trailer vehicle (9.1%), motor home/RV (5.4%), travel trailer (3.0%), OHV (2.5%), and motorcycle (1.2%). Other responses included utility trailer (0.8%) and horse trailer (0.4%).

### Residence/Area of Origin

Survey participants were asked to identify their place of residence by zip code. A total of 244 people answered this question. The zip code results were converted to counties to determine area of origin. The majority of respondents (66.1%) reside in the following three counties. All other responses were  $\leq 5.7\%$  and are tabulated on Table REC 2-11.

- Placer County – 23.8%
- Sacramento County – 23.4%
- El Dorado County – 18.9%

### Respondent's Age

Survey participants were asked the year they were born. A total of 237 people answered this question with the following result.

- Average age – 43.4 with a standard deviation of 13.4 years.

### Ethnicity

Survey respondents were asked to identify the cultural or ethnic group they most closely identify with. A total of 250 people answered this question.

- The majority (92.8%) of respondents are White/Caucasian.
- Other responses included: Hispanic or Latino (2.8%), other/multiracial (2.4%), American Indian or Native Alaskan (0.8%), Native Hawaiian or Pacific Islander (0.4%), and black/African American (0.4%), and Asian (0.4%).

### Primary Language

Survey participants were asked to identify their primary spoken language. A total of 213 people answered this question.

- The majority of respondents (99.5%) primarily speak English.
- Other responses included: Russian (0.5%)

### Reasons for Visiting the Area

Survey participants were asked to identify the main reason they chose to visit the area. Eighty respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. After excluding invalid responses, a total of 175 responses were analyzed, with the following results.

- The most frequent response was “scenic quality of the area” (26.3%).
- Other responses included, in order of response rate: “lack of crowding” (17.7%), “recreation activities/opportunities in the area” (17.1%), “close to home” (14.9%), and “access to lake/reservoir” (10.3%), “access to river/stream”(2.9%), and “cost of facility access fee” (1.1%).

Survey participants were also asked to specify any number of secondary reasons for visiting the area. Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%. A total of 178 people properly answered this question.

- The most frequent response was “lack of crowding” (42.1%).
- Other responses included, in order of frequency: “access to lake/reservoir” (34.8%), “scenic quality of the area” (34.3%), “recreational activities/opportunities in the area” (26.4%), “close to home” (24.7%), “cost of facility access fee” (16.3%), “access to river/stream” (13.5%), and “presence of on-site manager/host” (0.6%).

### Importance of Facilities and Amenities

Survey participants were asked to rate the importance of various facilities and amenities when choosing the area to recreate. The rating scale included four options: very important, important, somewhat important, and not important. All of the responses are tabulated in table REC 2-11, for reference, and summarized below.

- 53.3% (128 of 240 people) said developed campsites are very important (22.1%) or important (31.2%). Fifty-nine people (24.6%) said that developed campsites are not important.
- 35.1% (79 of 225 people) said developed picnic areas are very important (13.3%) or important (21.8%). Eighty-four people (37.3%) said that developed picnic areas are not important.
- 33.3% (78 of 234 people) said flush restrooms are very important (15.4%) or important (17.9%). Eighty-nine people (38.0%) said that flush restrooms are not important.
- 59.2% (139 of 235 people) said drinking water is very important (31.1%) or important (28.1%). Fifty-seven (24.3%) said that drinking water is not important.
- The majority of people (65.6%) said that a RV dump station is not important. Thirty-three people (14.8%) said an RV dump station is very important (5.4%) or important (9.4%).
- 68.0% (162 of 238 people) said boat launch ramps are very important (48.3%) or important (19.7%). Fifty people (21.0%) said that boat launch ramps are not important.
- Almost half of the respondents (45.2%) said that river put-in/take-outs are not important. Seventy-one people (33.8%) said river put-in/take-outs are very important (15.2%) or important (18.6%).
- 60.1% (140 of 233 people) said hiking trails are very important (24.9%) or important (35.2%). Forty-five people (19.3%) said that hiking trails are not important.
- The majority of people (51.8%) said that OHV trails are not important. A total of 32.9% (73 of 222 people) said OHV trails are very important (16.7%) or important (16.2%).

- The majority of people (51.8%) said that mountain bike trails are not important. A total of 23.4% (52 of 222 people) said mountain bike trails are very important (8.1%) or important (15.3%).
- 60.7% (142 of 234 people) said fishing access trails are very important (33.8%) or important (26.9%). Sixty people (25.6%) said that fishing access trails are not important.
- The majority of people (66.2%) said that equestrian trails are not important. A total of 16.9% (37 of 219 people) said equestrian trails are very important (5.5%) or important (11.4%).
- Nearly half of the respondents (49.1%) said that interpretative/educational exhibits/information is not important. A total of 25.0% (53 of 212 people) said interpretative/educational exhibits/information is very important (9.4%) or important (15.6%).

### Primary and Secondary Activities

Survey participants were asked to identify the activities they engaged in, or expected to engage in, during their trip. They were instructed to check one main activity and one or more secondary activities. The primary and secondary activities identified by the survey respondents are identified on Table REC 2-11, and summarized below.

- A total of 152 people identified one main activity. The most frequent response was “reservoir fishing” (39.5%), followed by “camping in developed site” (28.3%).
- A total of 152 people identified one or more secondary activities. The most frequent response was “relaxing” (36.8%), followed by “hiking/walking” (34.2%), “viewing wildlife, scenery photography” (28.3%), “reservoir swimming/water-play/sun bathing” (27.6%), and “reservoir fishing” (27.0%).

### Information Resources

Survey participants were asked to rate the availability and adequacy of various information resources. The rating scale included four options: acceptable, somewhat acceptable, not acceptable, and not applicable. All of the responses are tabulated in table REC 2-11, for reference, and summarized below.

- 35.5% (78 of 220 people) said interpretive/educational information is acceptable. Sixty three people (28.6%) said it is not applicable.
- 42.1% (96 of 228 people) said recreation visitor information is acceptable. Forty-one people (12.8%) said it is not applicable.
- 54.6% (119 of 218 people) said safety/warning information is acceptable. Twenty-eight people (12.8%) said it is not applicable.
- 42.7% (93 of 218 people) said reservoir water surface elevation information is acceptable. Forty people (18.3%) said it is not applicable.
- 34.1% (72 of 211 people) said river/stream flow information is acceptable. Fifty-five people (26.1%) said it is not applicable.

### Overall Recreation Experience

Survey respondents were asked to rate their overall recreation experience using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. A total of 95% (228 of 240 people) said they were either very satisfied (55.8%) or satisfied (39.2%) with their overall recreation experience. All of the survey responses are tabulated in table REC 2-11, for reference.

### Additional Recreation Facilities, Amenities or Opportunities

Survey respondents were asked if there are any additional recreation facilities, amenities, or opportunities that would improve their recreation experience. A total of 188 people answered this question. Most people (70.2%) said “no.”

People who said “yes” were asked to explain their answer. Restrooms and road/parking improvement were mentioned most frequently.

### **Section A-2 - Camping at Developed Sites**

The Hell Hole Reservoir area includes three developed campgrounds:

- Big Meadows Campground;
- Hell Hole Campground; and
- Upper Hell Hole Campground.

A total of 155 people indicated that they camped at one of the three campgrounds in the Hell Hole Reservoir area and completed Section A-2. The responses of these 155 people were analyzed together and are tabulated on Table REC 2-12 for reference. Responses related to each individual campground will be summarized, as appropriate, in the REC 1 – Recreation Use and Facilities TSR (PCWA 2009a).

### Length of Stay

Survey participants were asked to specify the number of nights they would camp during their visit. A total of 154 people answered this question, with the following results.

- The survey respondents camped an average of 2.5 nights, ranging from a minimum of one night to a maximum of 10 nights.

### Campground Availability

Survey participants were asked if they were able to camp at their first choice campground. A total of 153 people answered this question. Of these, 149 (97.4%) said they were able to camp at their first choice campground. Two people who were not able to camp at their first choice campground indicated that they “wanted to camp at Hell Hole Campground” and “wanted a double space.”

### Camping Method

Survey participants were asked to specify their camping method. A total of 153 people answered this question. Of these, the majority of people (82.4%) said they used tents. No other response exceeded 5.2% (Table REC 2-12).

### Campsite Factors

Survey respondents were asked to rate a variety of campground and campsite factors, using an acceptability scale. The rating scale included three options: acceptable, somewhat acceptable, and not acceptable. The majority of respondents rated all campsite factors “acceptable”, as summarized below. All of the responses are tabulated in table REC 2-12, for reference.

- 96.7% of the respondents (148 of 153 people) said that campsite availability was acceptable.
- 87.3% of the respondents (131 of 150 people) said that campsite condition was acceptable.
- 91.9% of the respondents (137 of 149 people) said that campsite cleanliness was acceptable.
- 80.7% of the respondents (109 of 135 people) said that campsite screening was acceptable.
- 88.4% of the respondents (130 of 147 people) said that campsite shading was acceptable.
- 58.2% of the respondents (85 of 146 people) said that restroom condition was acceptable.
- 65.3% of the respondents (96 of 147 people) said that restroom cleanliness was acceptable.
- 70.6% of the respondents (101 of 143 people) said that drinking water availability was acceptable.
- 82.3% of the respondents (121 of 147 people) said that trash disposal was acceptable.
- 89.9% of the respondents (134 of 149 people) said that parking availability was acceptable.
- 89.2% of the respondents (132 of 148 people) said that parking area condition was acceptable.
- 70.0% of the respondents (98 of 140 people) said that adequacy of food storage lockers was acceptable.
- 79.4% of the respondents (108 of 136 people) said that the condition of food storage lockers was acceptable.
- 77.7% of the respondents (108 of 139 people) said that parking spur size was acceptable.
- 56.9% of the respondents (82 of 144 people) said that the road condition in the campground was acceptable.
- 69.7% of the respondents (99 of 142 people) said that the adequacy of road size in the campground was acceptable.

- 80.0% of the respondents (116 of 145 people) said that the cost of the campground fee was acceptable.
- 65.4% of the respondents (85 of 130 people) said that the adequacy of law enforcement personnel was acceptable.

#### Adequacy of Campground for Physically Impaired Persons

Survey respondents were asked whether the campground services and facilities were adequate for physically impaired persons in their party. A total of 141 people answered this question.

- The majority of people (59.6%) said that this question was “not applicable” to their group.
- Forty-five people (31.9%) said “yes,” the campground services and facilities were adequate for physically impaired persons.
- Twelve people (8.5%) said “no.” Two of these people, both commenting on Upper Hell Hole Campground, explained their answer. One respondent said “the outhouse lid hinges are broken making it difficult to use properly.” The other person said “hike in only.”

#### Recreation Experience

Survey participants were asked whether their recreation experience was negatively affected by crowding or other activities taking place. People who answered “yes” were asked to explain their comment.

- 98.6% of the respondents (146 of 148 people) said that they were not affected by crowding.
- 98.5% of the respondents (130 of 132 people) said that they were not affected by other activities taking place.
- One person who said that their recreation experience was affected by other activities taking place explained their answer, as follows: “Illegal camping and campfires by others, no enforcement.”

#### Overall Recreation Experience

Survey participants were asked to rate their overall recreation experience, using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. A total of 150 people answered this question. Of these, 145 people (96.7%) said that they were either very satisfied (59.3%) or satisfied (37.3%) with their overall recreation experience. All of the survey responses are tabulated in table REC 2-12, for reference.

#### Section A-3 – Day Use at Developed Sites

The Hell Hole Reservoir area includes two developed day use areas:

- Hell Hole Boat Ramp and Associated Parking Areas; and
- Hell Hole Vista.

Hell Hole Vista was not included in the survey effort due to low use levels.

Three people identified the Hell Hole Boat Ramp as their primary day use site. These three people completed Section A-3 of the survey form. The results of these three surveys are tabulated on Table REC 2-13 and are summarized below. Nobody who participated in the General Visitor Survey indicated that they used the Hell Hole Vista. Therefore, the discussion below only pertains to the Hell Hole Boat Ramp and its associated parking areas.

#### Length of Stay

Survey participants were asked to specify the number of hours they would stay at their primary day use site. Three people answered this question. These three people indicated that they would stay at the day use site an average of 1.7 hours, ranging from a minimum of one hour to a maximum of 2 hours.

#### Day Use Site Availability

Survey participants were asked if they were able to use their first choice day use site. Three people answered this question. All three said “yes,” they were able to use their first choice day use site.

#### Day Use Site Factors

Survey respondents were asked to rate a variety of day use site factors, using an acceptability scale with the following three options: acceptable, somewhat acceptable, and not acceptable. Three people provided feedback regarding all of the factors, with the following results.

- All of the respondents (3 people) said that the following factors were acceptable: picnic site availability, picnic site condition, picnic site cleanliness, trash disposal, parking availability, and parking area condition.
- All of the respondents (3 people) said that the following factors were either acceptable (2 people) or somewhat acceptable (1 person): restroom condition, restroom cleanliness, drinking water availability, and adequacy of law enforcement personnel.
- Two of the respondents said that the drinking water was acceptable and one respondent said that it was not acceptable.

#### Adequacy of Campground for Physically Impaired Persons

Survey respondents were asked whether the day use site services and facilities were adequate for physically impaired persons in their party. Three people answered this question. All three said that the question was not applicable to their group.

#### Recreation Experience

Survey participants were asked whether their recreation experience was negatively affected by crowding or other activities taking place. Three people answered this question. None were adversely affected by either crowding or other activities taking place.



### Overall Recreation Experience

Survey participants were asked to rate their overall recreation experience, using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. Three people answered this question. All three of these people were either very satisfied or satisfied with their overall recreation experience.

### **Section A-4 – Day Use or Camping in Undeveloped Areas**

The stakeholders identified two DCUAs in the Hell Hole Reservoir area:

- Grey Horse Area; and
- Area on the west side of Hell Hole Reservoir, between the dam and Hell Hole Boat Ramp.

Both of these areas were included in the survey effort. A total of ten people who camped in the Grey Horse area completed Section A-4 of the survey instrument. In addition, four people who camped at the Hell Hole Boat Ramp General Parking area (located between the dam and Hell Hole Boat Ramp) completed Section A-4. Their responses are tabulated on Table REC 2-14 and are summarized below by area.

### ***Grey Horse Area***

#### Length of Stay

Survey participants were asked how long they would stay at the undeveloped area they identified. Ten people answered this question. These people indicated that they would stay in the Grey Horse area an average of 3.3 nights, ranging from two to seven nights.

#### Method of Camping

Survey participants who indicated they camped were asked about their method of camping. Ten people answered this question. All ten said they used tents.

#### Recreation Experience

Survey participants were asked whether their recreation experience was negatively affected by crowding. Ten people answered this question. None were adversely affected by crowding.

Survey respondents were also asked whether their recreation experience was negatively affected by other activities taking place. Nine people answered this question. Two of these people said yes and provided the following comments: “campers were shooting at Upper Hell Hole” and “fishing and swimming.”

### Overall Recreation Experience

Survey participants were asked to rate their overall recreation experience, using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. Nine people answered this question. All nine were very satisfied or satisfied with their overall recreation experience.

### ***Area on the west side of Hell Hole Reservoir, between the dam and Hell Hole Boat Ramp***

#### Length of Stay

Survey participants were asked how long they would stay at the undeveloped area they identified. Four people answered this question. These people indicated that they would stay in the area an average of 2.75 nights, ranging from two to five nights.

#### Method of Camping

Survey participants who indicated they camped were asked about their method of camping. Three people answered this question. One person said they used a tent. The other two said they used an RV less than 25 feet in length.

#### Recreation Experience

Survey participants were asked whether their recreation experience was negatively affected by crowding. Three people answered this question. None were adversely affected by crowding.

Survey respondents were also asked whether their recreation experience was negatively affected by other activities taking place. Four people answered this question. One person said yes but did not explain why.

#### Overall Recreation Experience

Survey participants were asked to rate their overall recreation experience, using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. Four people answered this question. All four were very satisfied or satisfied with their overall recreation experience.

### **Section A-5 – Day Use along a Stream/River**

A total of eight people intercepted at one of the sites in the Hell Hole Reservoir area completed Section A-5 – Day Use along a Stream/River. These eight people were encountered in the following locations:

- Big Meadows Campground (3);
- Hell Hole Boat Ramp and Associated Parking Areas (1); and
- Grey Horse Area/Upper Hell Hole Campground (4).

The three respondents encountered at Big Meadows Campground did not specify a location. Accordingly, these surveys were not analyzed. The remaining five either did not specify a location or indicated they recreated along the Rubicon River upstream of Hell Hole Reservoir. These surveys were not analyzed because: (1) they were not location-specific; (2) the responses do not pertain to the MFP; or (3) there were too few responses to analyze.

### **Section A-6 – Reservoir Recreation**

A total of 70 people intercepted at one of the sites located in the Hell Hole Reservoir Area indicated that they recreated at a reservoir and therefore completed Section A-6 of

the survey form. The results of these surveys will be discussed in detail in the REC 3 – Reservoir Recreation Opportunities TSR (PCWA 2009b).

### **Section A-7 – Fishing**

A total of 112 people intercepted at one of the sites located in the Hell Hole Reservoir completed Section A-7 of the survey form. The results of these surveys primarily pertain to reservoir fishing and are therefore discussed in Section 6.3 of this report, Reservoir Angler Surveys.

#### **6.1.2 French Meadows Reservoir Area**

The French Meadows Reservoir area includes the following developed Project recreation facilities and DCUAs identified by the stakeholders:

##### Campgrounds

- Ahart Campground
- French Meadows Campground
- Lewis Campground
- Poppy Campground

##### Group Campgrounds

- Coyote Group Campground
- Gates Group Campground

##### Day Use Areas

- French Meadows Picnic Area
- French Meadows Boat Ramp
- McGuire Picnic Area
- McGuire Boat Ramp (Including Poppy Trailhead Parking Area)

##### DCUAs

- Area near bridge over the Middle Fork American River, upstream of French Meadows Reservoir
- Area near French Meadows - Hell Hole Tunnel Gatehouse
- Area immediately downstream of French Meadows Dam (both sides of river)
- Area located immediately northwest of French Meadows Dam

A combined total of 316 people intercepted in the French Meadows Reservoir area participated in the general visitor survey. The survey responses collected at all of the French Meadows Reservoir area sites were aggregated for analysis purposes and the results are summarized below by survey section.

## **Section A-1. Background Information**

A total of 316 people intercepted in the French Meadows Reservoir area completed all or part of Section A-1. The aggregated responses are tabulated on Table REC 2-15 and summarized below.

### Recreation Activities

Survey participants were asked to identify the activities they engaged in during their visit. Multiple responses were accepted. All 316 people intercepted in the French Meadows Reservoir area answered this question, with the following results:

- Camping at a developed site – 82.9% (262 people);
- Reservoir recreation – 48.4% (153 people);
- Fishing – 36.7% (116 people);
- Day use along a stream/river – 7.9% (25 people);
- Day use at a developed site – 5.1% (16 people); and
- Day use or camping in undeveloped areas – 3.8% (12 people).

### Vehicle Type

Survey participants were asked to identify the type of vehicle they used to drive to the area. A total of 306 people answered this question, with the following results:

- Car/Truck/SUV – 87.3% (267 people);
- Camper/RV – 8.8% (27 people);
- Motorcycle – 1.6% (5 people); and
- Other (“bike,” “van”) – 1.6% (5 people).

Note that two respondents indicated they drove multiple vehicles, including: car/truck/SUV/motorcycle; and motor home/RV/motorcycle.

### Number of People in Vehicle

Survey participants were asked how many people were in their vehicle. A total of 305 people answered this question.

- The average number of people per vehicle was 2.8, with a standard deviation of 1.6.

### Group Age Categories

Survey participants were asked how many people in their group were under 18 or over 18. A total of 305 people provided sufficient information to analyze.

- 79.5% of the people in the group were 18 or over and 20.5% were under 18.

### Group Vehicles

Survey participants were asked to identify how many and what types of vehicles and trailers their group brought. A total of 306 people provided sufficient information to analyze.

- 88.9% of the respondents (272 people) said that their group brought a car/pickup/SUV, followed by boat trailer (16.7%), motor home/RV (14.4%), towed/trailer vehicle (7.5%), travel trailer (6.9%), motorcycle (4.9%), utility trailer (3.6%), and OHV (2.3%).
- The number of vehicles per group ranged from 1.1 utility trailers and boat trailers per group to 2.6 car/pickup/SUVs per group.

### Residence/Area of Origin

Survey participants were asked to identify their place of residence by zip code. A total of 299 people answered this question. The majority of respondents (68.2%) reside in the following three counties. All other responses were  $\leq 3\%$  and are summarized on Table REC 2-15.

- Placer County – 32.4%
- Sacramento County – 28.4%
- El Dorado County – 7.4%

### Respondent's Age

Survey participants were asked the year they were born. A total of 282 people answered this question. The responses to this question were used to determine the age of the survey participants with the following result:

- Average age – 42 with a standard deviation of 13.9 years.

### Ethnicity

Survey respondents were asked to identify the cultural or ethnic group they most closely identify with. A total of 300 people answered this question, with the following results.

- The majority (84.7%) of respondents are White/Caucasian.
- Other responses included: other/multiracial (4.7%), Hispanic or Latino (4.3%), Asian (3.0%), American Indian or Native Alaskan (1.7%), Native Hawaiian or Pacific Islander (1.0%), and black/African American (0.7%)

### Primary Language

Survey participants were asked to identify their primary spoken language. A total of 275 people answered this question with the following results.

- The majority of respondents (95.3%) primarily speak English.
- Other responses included: multiple languages (1.5%), Hmong (1.1%), Russian (1.1%), Spanish (0.7%), and German (0.4%).

### Reasons for Visiting the Area

Survey participants were asked to identify the main reason they chose to visit the area. A total of 124 respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. After excluding invalid responses, a total of 192 responses were analyzed, with the following results.

- The most frequent response was “scenic quality of the area” (30.2%).
- Other responses included, in order of response rate: “close to home” (16.7%), “lack of crowding” (14.6%), “access to lake/reservoir” (13.0%), “recreational activities/opportunities in the area” (10.9%), “access to river/stream” (4.2%), and “presence of on-site manager/host” (0.5%).

Survey participants were also asked to specify any number of secondary reasons for visiting the area. A total of 194 people properly answered this question. Multiple responses were accepted, therefore the sum of the percentages exceeds 100%.

- The most frequent response was “access to lake/reservoir” (36.6%).
- Other responses included, in order of frequency: “scenic quality of the area” (32.5%), “lack of crowding” (31.4%), “close to home” (21.1%), “recreational activities/opportunities in the area” (20.1%), “access to river/stream” (16.5%), “cost of facility access fee” (9.8%), and “presence of on-site manager/host” (4.1%).

### Importance of Facilities and Amenities

Survey participants were asked to rate the importance of various facilities and amenities when choosing the area to recreate. The rating scale included four options: very important, important, somewhat important, and not important. All of the responses are tabulated in table REC 2-15, for reference, and summarized below.

- 71.2% (210 of 295 people) said developed campsites are very important (41.4%) or important (29.8%). Twenty-five people (8.5%) said that developed campsites are not important.
- 55.4% (148 of 267 people) said developed picnic areas are very important (25.1%) or important (30.3%). Forty-nine people (18.4%) said that developed picnic areas are not important.
- 57.8% (167 of 289 people) said flush restrooms are very important (32.2%) or important (25.6%). Fifty people (17.3%) said that flush restrooms are not important.
- 74.8% (213 of 285 people) said drinking water is very important (48.8%) or important (26.0%). Twenty-two people (7.7%) said that drinking water is not important.
- The majority of people (63.4%) said that an RV dump station is not important. A total of 23.4% (62 of 265 people) said an RV dump station is very important (12.1%) or important (11.3%).

- 49.2% (136 of 276 people) said boat launch ramps are very important (27.5%) or important (21.7%). A total of 106 people (38.4%) said that boat launch ramps are not important.
- Almost half of the respondents (45.0%) said that river put-in/take-outs are not important. Eighty-six people (34.2%) said river put-in/take-outs are very important (12.7%) or important (21.5%).
- 66.0% (179 of 271 people) said hiking trails are very important (27.3%) or important (38.7%). Thirty-eight people (14.0%) said that hiking trails are not important.
- The majority of people (56.0%) said that OHV trails are not important. A total of 26.8% (67 of 250 people) said OHV trails are very important (13.6%) or important (13.2%).
- 34.1% (89 of 261 people) said mountain bike trails are very important (14.6%) or important (19.5%). Ninety-five people (36.4%) said that mountain bike trails are not important.
- 65.6% (187 of 285 people) said fishing access trails are very important (38.6%) or important (27.0%). Fifty-nine people (20.7%) said that fishing access trails are not important.
- The majority of people (68.4%) said that equestrian trails are not important. A total of 16.6% (41 of 247 people) said equestrian trails are very important (8.9%) or important (7.7%).
- Nearly half of the survey respondents (48.0%) said that interpretative/educational exhibits/information is not important. A total of 26.6% (66 of 248 people) said interpretative/educational exhibits/information is very important (9.7%) or important (16.9%).

### Primary and Secondary Activities

Survey participants were asked to identify the activities they engaged in, or expected to engage in, during their trip. They were instructed to check one main activity and one or more secondary activities. The primary and secondary activities identified by the survey respondents are tabulated on Table REC 2-15 and summarized below.

- A total of 168 people identified one main activity. The most frequent response was “camping in developed site” (51.2%), followed by “reservoir fishing” (19.0%).
- A total of 169 people identified one or more secondary activities. The most frequent response was “reservoir swimming/water-play/sun bathing” (42.0%), followed by “relaxing” (39.6%), “hiking/walking” (38.5%), “reservoir fishing” (30.8%), and “viewing wildlife, scenery photography” (30.8%).

### Information Resources

Survey participants were asked to rate the availability and adequacy of various information resources. The rating scale included four options: acceptable, somewhat

acceptable, not acceptable, and not applicable. All of the responses are tabulated in table REC 2-15, for reference, and summarized below.

- 33.6% (89 of 265 people) said interpretive/educational information is acceptable. Seventy-seven people (29.1%) said it is not applicable.
- 46.8% (130 of 278 people) said recreation visitor information is acceptable. Fifty people (18.0%) said it is not applicable.
- 52.0% (140 of 269 people) said safety/warning information is acceptable. Thirty-nine people (14.5%) said it is not applicable.
- 34.1% (92 of 270 people) said reservoir water surface elevation information is acceptable. Fifty-four people (20.0%) said it is not applicable.
- 29.2% (77 of 264 people) said river/stream flow information is acceptable. Sixty-one people (23.1%) said it is not applicable.

### Overall Recreation Experience

Survey respondents were asked to rate their overall recreation experience using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. A total of 96.0% (291 of 303 people) said they were either very satisfied (55.8%) or satisfied (40.3%) with their overall recreation experience. All of the survey responses are tabulated in Table REC 2-15, for reference.

### Additional Recreation Facilities, Amenities or Opportunities

Survey respondents were asked if there are any additional recreation facilities, amenities, or opportunities that would improve their recreation experience. A total of 222 people answered this question.

- Most people (65.3%) said “no.”
- Those that said “yes,” were asked to explain their answer. Restrooms and drinking water were mentioned most frequently.

### **Section A-2 – Camping at Developed Sites**

The French Meadows Reservoir area includes six developed campgrounds, as follows:

- Ahart Campground;
- Lewis Campground;
- Poppy Campground;
- French Meadows Campground;
- Gates Group Campground; and
- Coyote Group Campground.

A total of 260 people who participated in the General Visitor Survey indicated that they camped at one of these six campgrounds. The responses of these 260 people were analyzed together and are tabulated on Table REC 2-16 for reference. Responses



related to each individual campground will be summarized, as appropriate, in the REC 1 – Recreation Use and Facilities TSR (PCWA 2009a).

### Length of Stay

Survey participants were asked to specify the number of nights they would camp during their visit. A total of 253 people answered this question, with the following results.

- The survey respondents camped an average of 3.6 nights, ranging from a minimum of one night to a maximum of 17 nights.

### Campground Availability

Survey participants were asked if they were able to camp at their first choice campground. A total of 253 people answered this question. Of these, 227 (89.7%) said they were able to camp at their first choice campground. Those that indicated they were not able to camp at their first choice campground and explained their answer either identified: (1) another Project campground; (2) another campground that is not located in the vicinity of the MFP (Eagle Point, Loon Lake, Stumpy Meadows, Waahl Reserve); or (3) would have preferred a different camp site within the campground, for example a site closer to the water.

### Camping Method

Survey participants were asked to specify their camping method. A total of 257 people answered this question. Of these, the majority of people (76.3%) said they used tents. No other response exceeded 5.8% (Table REC 2-16).

### Campsite Factors

Survey respondents were asked to rate a variety of campground and campsite factors, using an acceptability scale. The rating scale included three options: acceptable, somewhat acceptable, and not acceptable. The majority of respondents rated all campsite factors “acceptable”, as summarized below. All of the responses are tabulated in table REC 2-16, for reference.

- 93.4% of the respondents (240 of 257 people) said that campsite availability was acceptable.
- 95.3% of the respondents (246 of 258 people) said that campsite condition was acceptable.
- 93.7% of the respondents (238 of 254 people) said that campsite cleanliness was acceptable.
- 86.2% of the respondents (194 of 225 people) said that campsite screening was acceptable.
- 85.7% of the respondents (216 of 252 people) said that campsite shading was acceptable.
- 69.0% of the respondents (171 of 248 people) said that restroom condition was acceptable.

- 70.3% of the respondents (173 of 246 people) said that restroom cleanliness was acceptable.
- 63.6% of the respondents (152 of 239 people) said that drinking water availability was acceptable.
- 85.8% of the respondents (217 of 253 people) said that trash disposal was acceptable.
- 90.5% of the respondents (229 of 253 people) said that parking availability was acceptable.
- 94.4% of the respondents (236 of 250 people) said that parking area condition was acceptable.
- 90.9% of the respondents (231 of 254 people) said that adequacy of food storage lockers was acceptable.
- 94.4% of the respondents (238 of 252 people) said that the condition of food storage lockers was acceptable.
- 86.2% of the respondents (213 of 247 people) said that parking spur size was acceptable.
- 94.0% of the respondents (237 of 252 people) said that the road condition in the campground was acceptable.
- 90.4% of the respondents (226 of 250 people) said that the adequacy of road size in the campground was acceptable.
- 67.9% of the respondents (171 of 252 people) said that the cost of the campground fee was acceptable.
- 68.4% of the respondents (156 of 228 people) said that the adequacy of law enforcement personnel was acceptable.

#### Adequacy of Campground for Physically Impaired Persons

Survey respondents were asked whether the campground services and facilities were adequate for physically impaired persons in their party. A total of 240 people answered this question.

- The majority of people (60.4%) said that this question was “not applicable” to their group.
- Seventy-three people (30.4%) said “yes,” the campground services and facilities were adequate for physically impaired persons.
- Twenty-two people (9.2%) said “no.” Four of these people, (two commenting on Gates Group Campground, one on Coyote Group Campground, and one on French Meadows Campground), explained their answers, as follows:
  - Gates Group Campground – “dirt is hard for crutches” and “no wheelchair access to bathrooms.”
  - Coyote Group Campground – “need more food storage.”
  - French Meadows Campground – “bathroom was inadequate.”

### Recreation Experience

Survey participants were asked whether their recreation experience was negatively affected by crowding or other activities taking place. People who answered “yes,” were asked to explain their comment.

- 96.3% of the respondents (237 of 246 people) said that they were not affected by crowding.
- 97.7% of the respondents (216 of 221 people) said that they were not affected by other activities taking place.
- Three people who said that their recreation experience was negatively affected by crowding explained their answer, as follows: (1) “Just a busy weekend”; (2) “Large party/dog barking”; and (3) “Too many people and free roaming dog at first choice campsite.”
- Five people who said that their recreation experience was affected by other activities taking place explained their answer, as follows: (1) “No water”; (2) “Over sensitive camp hosts”; (3) “Loud music from cars – this should not be allowed”; (4) “Big parties/groups”; and (5) “Party!”

### Overall Recreation Experience

Survey participants were asked to rate their overall recreation experience, using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. A total of 256 people answered this question. Of these, 247 people (96.5%) said that they were either very satisfied (64.5%) or satisfied (32.0%) with their overall recreation experience. All of the survey responses are tabulated in table REC 2-16, for reference.

### Section A-3 – Day Use at Developed Sites

The French Meadows Reservoir area includes four developed day use facilities:

- French Meadows Picnic Area;
- French Meadows Boat Ramp;
- McGuire Picnic Area and Beach; and
- McGuire Boat Ramp.

A total of four people who recreated in the French Meadows Reservoir area completed Section A-3 of the survey form. Their responses are summarized on Table REC 2-17 and are summarized below.

### Length of Stay

Survey participants were asked to specify the number of hours they would stay at their primary day use site. Four people answered this question. The survey respondents indicated that would stay at the day use site an average of 3.3 hours, ranging from a minimum of two hours to a maximum of four hours.

### Day Use Site Availability

Survey participants were asked if they were able to use their first choice day use site. Four people answered this question. All four said “yes,” they were able to use their first choice day use site.

### Day Use Site Factors

Survey respondents were asked to rate a variety of day use site factors, using an acceptability scale, which included the following options: acceptable, somewhat acceptable, and not acceptable. Three people provided feedback regarding all of the factors, with the following results.

- All of the respondents (3 people) said that picnic site availability and picnic site cleanliness were acceptable.
- All of the respondents (3 people) said that the following factors were either acceptable (2 people) or somewhat acceptable (1 person): picnic site condition, trash disposal, parking availability, parking area condition, drinking water availability.
- Two of three people said that that adequacy of law enforcement personnel was acceptable.
- Two of three people said the restroom condition and restroom cleanliness were not acceptable.

### Adequacy of Campground for Physically Impaired Persons

Survey respondents were asked whether the day use site services and facilities were adequate for physically impaired persons in their party. One person answered this question, indicating that the question was not applicable to their group.

### Recreation Experience

Survey participants were asked whether their recreation experience was negatively affected by crowding or other activities taking place. Four people answered this question. None were adversely affected by either crowding or other activities taking place.

### Overall Recreation Experience

Survey participants were asked to rate their overall recreation experience, using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. Four people answered this question. All four of these people were satisfied with their overall recreation experience.

## **Section A-4 – Day Use or Camping in Undeveloped Areas**

The stakeholders identified four DCUAs in the French Meadows area:

- Area near bridge over the Middle Fork American River, upstream of French Meadows Reservoir;
- Area near French Meadows - Hell Hole Tunnel Gatehouse;

- Area immediately downstream of French Meadows Dam (both sides of river); and
- Area located immediately northwest of French Meadows Dam.

Surveys were not conducted at either of the first two areas (the area near French Meadows - Hell Hole Tunnel Gatehouse and the area near bridge over the Middle Fork American River) because vehicle counts conducted in 2007 indicated use levels were not high enough to support a survey effort.

The other two areas (area immediately downstream of French Meadows Dam and area located immediately northwest of French Meadows Dam) were included in the survey effort. During the survey period, these two areas were visited a total of 13 times, during which time two people were encountered in these areas. Neither completed a survey form because they had already completed a survey form at another location.

Otherwise, none of people who participated in the General Visitor Survey indicated that they used any of the DCUAs identified by the stakeholders. Therefore, no data relative to these areas was collected.

### **Section A-5 – Day Use along a Stream/River**

Of the 316 people who were intercepted at one of the sites in the French Meadows Reservoir area and participated in the survey, one completed Section A-5 – Day Use along a Stream/River. This person was encountered at Ahart Campground and indicated they recreated on the Middle Fork American River upstream of French Meadows Reservoir. This survey was not analyzed.

### **Section A-6 – Reservoir Recreation**

A total of 96 people intercepted at one of the sites located in the French Meadows Reservoir area identified reservoir recreation as an activity they engaged in during their visit and completed Section A-6 of the survey form. The results of these surveys will be discussed in detail in the REC 3 – Reservoir Recreation TSR (PCWA 2009b).

### **Section A-7 – Fishing**

A total of 77 people intercepted at one of the sites located in the French Meadows Reservoir area identified fishing as an activity they engaged in during their visit and completed Section A-7 of the survey form. The results of these surveys primarily pertain to reservoir fishing and are therefore discussed in Section 6.3 of this report, Reservoir Angler Surveys.

### **6.1.3 Long Canyon Area**

The Long Canyon Area includes one developed recreation facility, Middle Meadows Campground. In addition, the stakeholders identified the following DCUAs in the Long Canyon area:

- Area surrounding South Fork Long Canyon Diversion Dam; and
- Areas along South Fork Long Canyon Creek, downstream of South Fork Long Canyon Diversion Dam.

The DCUAs in the Long Canyon area were not surveyed because vehicle counts conducted in 2007 indicated use levels were not high enough to support a survey effort.

A total of 51 people intercepted at Middle Meadows Campground participated in the general visitor survey. The survey results are summarized below by survey section.

### **Section A-1. Background Information**

A total of 51 people intercepted at Middle Meadows Campground completed Section A-1. The survey responses are tabulated on Table REC 2-18 and are summarized below.

#### Recreation Activities

Survey participants were asked to identify the activities they engaged in during their visit. Multiple responses were accepted. All 51 people intercepted at Middle Meadows Campground answered this question with the following results:

- Camping at a developed site – 98.0% (50 people);
- Reservoir recreation – 13.7% (7 people);
- Fishing – 9.8% (5 people);
- Day use at a developed site – 5.9% (3 people);
- Day use or camping in undeveloped areas – 3.9% (2 people); and
- Day use along a stream/river – 3.9% (2 people).

#### Vehicle Type

Survey participants were asked to identify the type of vehicle they used to drive to the area. A total of 49 people answered this question, with the following results:

- Car/Truck/SUV – 95.9% (47 people);
- Camper/RV – 2.0% (1 person);
- Other (“van”) – 2.0% (1 person); and
- Motorcycle – 0.0% (0 people).

#### Number of People in Vehicle

Survey participants were asked how many people were in their vehicle. A total of 48 people answered this question.

- The average number of people per vehicle was 3.3, with a standard deviation of 1.9.

#### Group Age Categories

Survey participants were asked how many people in their group were under 18 or over 18. A total of 50 people provided sufficient information to analyze.

- A total of 78.8% of the people in each group were 18 or over and 21.2% were under 18.

### Group Vehicles

Survey participants were asked to identify how many and what types of vehicles and trailers their group brought. A total of 48 people provided sufficient information to analyze.

- 97.9% of the respondents (47 people) said that their group brought a car/pickup/SUV, followed by travel trailer (6.3%), towed/trailer vehicle (6.3%), motor home/RV (4.2%), and utility trailer (2.1%).
- The number of vehicles per group ranged from 1.5 travel trailers per group to 8.0 motor home/RVs per group.

### Residence/Area of Origin

Survey participants were asked to identify their place of residence by zip code. A total of 49 people answered this question. The zip code results were converted to counties to determine area of origin. The majority of respondents (81.6%) reside in the following three counties. All other responses were  $\leq 6.1\%$  and are summarized on Table REC 2-18.

- Sacramento County – 38.8%
- Placer County – 30.6%
- San Francisco County – 12.2%

### Respondent's Age

Survey participants were asked the year they were born. A total of 45 people answered this question. The responses were converted to ages, with the following result:

- Average age – 40.5 with a standard deviation of 14.4 years.

### Ethnicity

Survey respondents were asked to identify the cultural or ethnic group they most closely identify with. A total of 50 people answered this question, with the following results.

- The majority (60.0%) of respondents are White/Caucasian.
- Other responses included: Asian (28.0%), other/multiracial (8.0%), Hispanic or Latino (2.0%), and black/African American (2.0%).

### Primary Language

Survey participants were asked to identify their primary spoken language. A total of 44 people answered this question with the following results.

- The majority of respondents (77.3%) primarily speak English.
- Other responses included: Hmong (13.6%), Vietnamese (6.8%), and French (2.3%).

### Reasons for Visiting the Area

Survey participants were asked to identify the main reason they chose to visit the area. Twenty-two respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. After excluding invalid responses, a total of 29 responses were analyzed, with the following results.

- The most frequent response was “scenic quality of the area” (34.5%).
- Other responses included, in order of response rate: “close to home” (20.7%), “lack of crowding” (20.7%), “cost of facility access fee” (6.9%), “recreation activities/opportunities in the area” (6.9%), and “access to river/stream” (3.4%). None of the respondents identified “access to lake/reservoir” or “presence of on-site manager/host” as their main reason for visiting the area.

Survey participants were also asked to identify any number of secondary reasons for visiting the area. A total of 30 people properly answered this question. Multiple responses were accepted, therefore the sum of the percentages exceeds 100%.

- The most frequent response was “recreational activities/opportunities in the area” (50.0%).
- Other responses included, in order of frequency: “cost of facility access fee” (40.0%), “lack of crowding” (36.7%), “scenic quality of the area” (33.3%), “access to river/stream” (26.7%), “access to lake/reservoir” (26.7%), “close to home” (16.7%), and “presence of on-site manager/host” (13.3%).
- Three “other” secondary reasons were identified, including: “toilets and water,” “group site,” and “availability.”

### Importance of Facilities and Amenities

Survey participants were asked to rate the importance of various facilities and amenities when choosing the area to recreate. The rating scale included four options: very important, important, somewhat important, and not important. All of the responses are tabulated in table REC 2-18, for reference, and summarized below.

- 91.6% (44 of 48 people) said developed campsites are very important (58.3%) or important (33.3%). Two people (4.2%) said that developed campsites are not important.
- 80.0% (36 of 45 people) said developed picnic areas are very important (51.1%) or important (28.9%). Two people (4.4%) said that developed picnic areas are not important.
- 68.0% (32 of 47 people) said flush restrooms are very important (48.9%) or important (19.1%). Six people (12.8%) said that flush restrooms are not important.
- 77.8% (35 of 45 people) said drinking water is very important (48.9%) or important (28.9%). Two people (4.4%) said that drinking water is not important.



- The majority of people (65.8%) said that an RV dump station is not important. A total of 18.4% (7 of 38 people) said an RV dump station is very important (7.9%) or important (10.5%).
- The majority of people (60.5%) said that boat launch ramps are not important. A total of 18.4% (7 of 38 people) said boat launch ramps are very important (10.5%) or important (7.9%).
- The majority of people (52.8%) said that river put-in/take-outs are not important. Eleven people (30.6%) said river put-in/take-outs are very important (13.9%) or important (16.7%).
- 80.9% (38 of 47 people) said hiking trails are very important (42.6%) or important (38.3%). Two people (4.3%) said that hiking trails are not important.
- The majority of people (56.8%) said that OHV trails are not important. A total of 29.7% (11 of 37 people) said OHV trails are very important (16.2%) or important (13.5%).
- 42.5% (17 of 40 people) said mountain bike trails are very important (27.5%) or important (15.0%). Eighteen people (45.0%) said that mountain bike trails are not important.
- 47.6% (20 of 42 people) said fishing access trails are very important (26.2%) or important (21.4%). Eighteen people (42.9%) said that fishing access trails are not important.
- The majority of people (62.5%) said that equestrian trails are not important. A total of 25.0% (10 of 40 people) said equestrian trails are very important (10.0%) or important (15.0%).
- The majority of people (52.6%) said that interpretative/educational exhibits/information is not important. A total of 29.0% (11 of 38 people) said interpretative/educational exhibits/information is very important (15.8%) or important (13.2%).

### Primary and Secondary Activities

Survey participants were asked to identify the activities they engaged in, or expected to engage in, during their trip. They were instructed to check one main activity and one or more secondary activities. The primary and secondary activities identified by the survey respondents are tabulated on Table REC 2-18 and summarized below.

- A total of 17 people identified one main activity. The most frequent response was “camping in developed site” (58.8%), followed by “picnicking in developed sites” (17.6%).
- A total of 17 people identified one or more secondary activities. The most frequent response was “hiking/walking” (58.8%), followed by “picnicking in developed sites: (52.9%), “relaxing” (47.1%), “reservoir swimming/water-play/sun bathing” (47.1%), “camping in developed site (29.4%), and “viewing wildlife, scenery photography” (29.4%).

### Information Resources

Survey participants were asked to rate the availability and adequacy of various information resources. The rating scale included four options: acceptable, somewhat acceptable, not acceptable, and not applicable. All of the responses are tabulated in table REC 2-18, for reference, and summarized below.

- 30.2% (13 of 43 people) said interpretive/educational information is acceptable. Seventeen people (39.5%) said it is not applicable.
- 37.0% (17 of 46 people) said recreation visitor information is acceptable. Thirteen people (28.3%) said it is not applicable.
- 46.8% (22 of 47 people) said safety/warning information is acceptable. Six people (12.8%) said it is not applicable.
- 31.8% (14 of 44 people) said reservoir water surface elevation information is acceptable. Fourteen people (31.8%) said it is not applicable.
- 30.2% (13 of 43 people) said river/stream flow information is acceptable. Thirteen people (30.2%) said it is not applicable.

### Overall Recreation Experience

Survey respondents were asked to rate their overall recreation experience using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. A total of 89.8% (44 of 49 people) said they were either very satisfied (40.8%) or satisfied (49.0%) with their overall recreation experience. All of the survey responses are tabulated in table REC 2-18, for reference.

### Additional Recreation Facilities, Amenities or Opportunities

Survey respondents were asked if there are any additional recreation facilities, amenities, or opportunities that would improve their recreation experience. A total of 41 people answered this question

- Most people (70.7%) said “no.”

People who said “yes,” were asked to explain their answer. Showers and road/parking improvement were mentioned most frequently.

### **Section A-2 – Camping at Developed Sites**

The Long Canyon area includes one developed group campground, Middle Meadows Campground. A total of 52 people who participated in the General Visitor Survey indicated that they camped at Middle Meadows Campground. The responses of these 52 people were analyzed together are tabulated on Table REC 2-19 for reference.

### Length of Stay

Survey participants were asked to specify the number of nights they would camp during their visit. A total of 51 people answered this question, with the following results.

- The survey respondents camped an average of 2.1 nights, ranging from a minimum of one night to a maximum of four nights.

#### Campground Availability

Survey participants were asked if they were able to camp at their first choice campground. A total of 50 people answered this question. Of these, 49 (98.0%) said they were able to camp at their first choice campground. The other person did not identify their first choice campground.

#### Camping Method

Survey participants were asked to specify their camping method. A total of 51 people answered this question. Of these, the majority of people (90.2%) said they used tents. Two people said “RV less than 25 feet” and three people said “multiple modes.” No other camping methods were identified (Table REC 2-19).

#### Campsite Factors

Survey respondents were asked to rate a variety of campground and campsite factors, using an acceptability scale. The rating scale included three options: acceptable, somewhat acceptable, and not acceptable. The majority of respondents rated all campsite factors “acceptable”, as summarized below. All of the responses are tabulated in table REC 2-19, for reference.

- 92.0% of the respondents (46 of 50 people) said that campsite availability was acceptable.
- 91.8% of the respondents (45 of 49 people) said that campsite condition was acceptable.
- 89.8% of the respondents (44 of 49 people) said that campsite cleanliness was acceptable.
- 79.1% of the respondents (34 of 43 people) said that campsite screening was acceptable.
- 82.2% of the respondents (37 of 45 people) said that campsite shading was acceptable.
- 83.7% of the respondents (41 of 49 people) said that restroom condition was acceptable.
- 87.8% of the respondents (43 of 49 people) said that restroom cleanliness was acceptable.
- 77.1% of the respondents (37 of 48 people) said that drinking water availability was acceptable.
- 93.6% of the respondents (44 of 47 people) said that trash disposal was acceptable.
- 75.5% of the respondents (37 of 49 people) said that parking availability was acceptable.

- 85.1% of the respondents (40 of 47 people) said that parking area condition was acceptable.
- 89.4% of the respondents (42 of 47 people) said that adequacy of food storage lockers was acceptable.
- 89.8% of the respondents (44 of 49 people) said that the condition of food storage lockers was acceptable.
- 75.6% of the respondents (34 of 45 people) said that parking spur size was acceptable.
- 67.3% of the respondents (33 of 49 people) said that the road condition in the campground was acceptable.
- 75.0% of the respondents (36 of 48 people) said that the adequacy of road size in the campground was acceptable.
- 85.4% of the respondents (41 of 48 people) said that the cost of the campground fee was acceptable.
- 59.5% of the respondents (25 of 42 people) said that the adequacy of law enforcement personnel was acceptable.

#### Adequacy of Campground for Physically Impaired Persons

Survey respondents were asked whether the campground services and facilities were adequate for physically impaired persons in their party. A total of 46 people answered this question.

- Most people (54.3%) said that this question was “not applicable” to their group.
- Seventeen people (37.0%) said “yes,” the campground services and facilities were adequate for physically impaired persons.
- Four people (8.7%) said “no.” None of these respondents explained their answer.

#### Recreation Experience

Survey participants were asked whether their recreation experience was negatively affected by crowding or other activities taking place. People who answered “yes,” were asked to explain their comment.

- 100% of the respondents (44 people) said that they were not affected by crowding.
- 87.5% of the respondents (35 of 40 people) said that they were not affected by other activities taking place.
- Three people who said that their recreation experience was affected by other activities taking place explained their answer, as follows: (1) “Vision quest...”; (2) “Fire”; and (3) “No campfire/BBQ.”

### Overall Recreation Experience

Survey participants were asked to rate their overall recreation experience, using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. A total of 47 people answered this question. Of these, 41 people (87.2%) said that they were either very satisfied (46.8%) or satisfied (40.4%) with their overall recreation experience. All of the survey responses are tabulated in table REC 2-19, for reference.

#### **Section A-3 – Day Use at Developed Sites**

There are no developed day use sites in the Long Canyon area. Therefore, Section A-3 is not applicable to this area.

#### **Section A-4 – Day Use or Camping in Undeveloped Areas**

The stakeholders identified the following DCUAs in the Long Canyon area:

- Area surrounding South Fork Long Canyon Diversion Dam; and
- Areas along South Fork Long Canyon Creek, downstream of South Fork Long Canyon Diversion Dam.

Surveys were not conducted in either of these areas because vehicle counts conducted in 2007 indicated use levels were not high enough to support a survey effort. In addition, none of people who participate in the General Visitor Survey indicated they used either of these two DCUAs. Therefore, no data relative to these areas was collected.

#### **Section A-5 – Day Use along a Stream/River**

A total of 51 people who were intercepted at Middle Meadows Campground participated in the survey. Of these, two identified day use along a stream/river as an activity they enjoyed during their visit. However, neither of these respondents completed Section A-5 of the survey form.

#### **Section A-6 – Reservoir Recreation**

Four people intercepted at Middle Meadows Campground completed Section A-6 of the survey form. The results of these surveys will be discussed in detail in the REC 3 – Reservoir Recreation TSR (PCWA 2009b).

#### **Section A-7 – Fishing**

Three people intercepted at Middle Meadows Campground completed Section A-7 of the survey form. Two of these people fished at Hell Hole Reservoir and one fished at French Meadows Reservoir. Since the surveys pertain to reservoir fishing they are discussed in Section 6.3 of this report, Reservoir Angler Surveys.

#### **6.1.4 Duncan Creek Diversion Area**

There are no developed recreation facilities in the Duncan Creek Diversion area. However, surveys were conducted at the following DCUAs identified by the stakeholders.

## DCUAs

- Area North of Duncan Creek Diversion
- Area Near Duncan Creek Gage and Weir
- Area Near New Bridge Crossing Duncan Creek

A total of five people intercepted in the Duncan Creek Diversion area participated in the general visitor survey. The survey results are summarized below by survey section.

### **Section A-1. Background Information**

Five people intercepted in the Duncan Creek Diversion area completed Section A-1. Their survey responses are tabulated on Table REC 2-20 and are summarized below.

#### Recreation Activities

Survey participants were asked to identify the activities they engaged in during their visit. Multiple responses were accepted. All five people intercepted in the Duncan Creek Diversion area answered this question with the following results.

- Day use or camping in undeveloped areas – 100% (5 people).
- Day use along a stream/river – 20.0% (1 person).
- Fishing – 20.0% (1 person).

#### Vehicle Type

Survey participants were asked to identify the type of vehicle they used to drive to the area. Five people answered this question. All five people indicated they drove a car/truck/SUV.

#### Number of People in Vehicle

Survey participants were asked how many people were in their vehicle. Five people answered this question.

- All respondents (100%) indicated there were two people in their vehicle.

#### Group Age Categories

Survey participants were asked how many people in their group were under 18 or over 18. A total of five people answered this question. All five people were 18 or over.

#### Group Vehicles

Survey participants were asked to identify how many and what types of vehicles and trailers their group brought. A total of five people provided sufficient information to analyze.

- 100% of the respondents (5 people) said that their group brought a car/pickup/SUV, averaging 3.8 per group.
- These 5 respondents brought a total of 1 towed/trailer vehicle and 1 utility trailer.

### Residence/Area of Origin

Survey participants were asked to identify their place of residence by zip code. Five people answered this question. The zip code results were converted to counties to determine area of origin. The results indicate the survey respondents reside in two counties, as follows.

- Sacramento County – 60.0%
- Placer County – 40.0%

### Respondent's Age

Survey participants were asked the year they were born. Four people answered this question. The responses to this question were used to determine the age of the survey participants, with the following result.

- Average age – 35.8 with a standard deviation of 22.3 years.

### Ethnicity

Survey respondents were asked to identify the cultural or ethnic group they most closely identify with. Four people answered this question, with the following results.

- Two of the respondents were White/Caucasian.
- One respondent was Hispanic or Latino.
- One respondent identified other/multiracial.

### Primary Language

Survey participants were asked to identify their primary spoken language. Four people answered this question with the following results.

- All respondents (100%) indicated they primarily speak English.

### Reasons for Visiting the Area

Survey participants were asked to identify the main reason they chose to visit the area. Two respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. After excluding invalid responses, three responses were analyzed, with the following results.

- One person identified “access to river/stream” as their main reason for visiting the area.
- Two people identified “other” main reasons for visiting the area, including: “free” and “told by friend.”

Survey participants were also asked to specify any number of secondary reasons for visiting the area. Multiple responses were accepted. Three people properly answered this question.

- Two people said “cost of facility access fee,” two people said “lack of crowding,” and one person said “close to home.” The survey respondents did not identify any other secondary reasons for visiting the areas.

### Importance of Facilities and Amenities

Survey participants were asked to rate the importance of various facilities and amenities when choosing the area to recreate. The rating scale included four options: very important, important, somewhat important, and not important. All of the responses are tabulated in table REC 2-20, for reference, and summarized below.

- All of the survey respondents said that RV dump stations, boat launch ramps and OHV trails are not important.
- 60.0% (3 of 5 people) said developed campsites are very important (0%) or important (60.0%). One respondent (20.0%) said that developed campsites are not important.
- 20.0% (1 of 5 people) said developed picnic areas are very important (0%) or important (20.0%). One respondent (20.0%) said that developed picnic areas are not important.
- 60.0% (3 of 5 people) said flush restrooms are very important (40.0%) or important (20.0%). One respondent (20.0%) said that flush restrooms are not important.
- 60.0% (3 of 5 people) said drinking water is very important (60.0%) or important (0%). One respondent (20.0%) said that drinking water is not important.
- 40.0% (2 of 5 people) said that river put-in/take-outs are not important. None of the respondents said river put-in/take-outs are very important or important.
- 80.0% (4 of 5 people) said hiking trails are very important (60.0%) or important (20.0%). One respondent (20.0%) said that hiking trails are not important.
- 40.0% (2 of 5 people) said that mountain bike trails are not important. None of the respondents said mountain bike trails are very important or important.
- 25.0% (1 of 4 people) said that fishing access trails are not important. None of the respondents said fishing access trails are very important or important.
- 25.0% (1 of 4 people) said equestrian trails are very important (0%) or important (25.0%). One respondent (25.0%) said that equestrian trails are not important.
- 50.0% (2 of 4 people) said interpretative/educational exhibits/information is very important (25.0%) or important (25.0%). One respondent (25.0%) said that interpretative/educational exhibits/information is not important.
- No “Other” amenities were identified by the survey respondents.

### Primary and Secondary Activities

Survey participants were asked to identify the activities they engaged in, or expected to engage in, during their trip. They were instructed to check one main activity and one or more secondary activities.

- Only one person identified a main activity - “camping in a developed site.”



- This same person identified the following secondary activities: “hiking/walking,” “relaxing,” and “viewing wildlife, scenery photography.”

### Information Resources

Survey participants were asked to rate the availability and adequacy of various information resources. The rating scale included four options: acceptable, somewhat acceptable, not acceptable, and not applicable. All of the responses are tabulated in table REC 2-20, for reference, and summarized below.

- One person (25.0%) said that river/stream flow information is somewhat acceptable. Three people (75.0%) said it is not applicable.
- None of the survey respondents intercepted in the Duncan Creek Diversion area rated the availability and adequacy of interpretive/educational information, recreation visitor information, safety/warning information, or reservoir water surface elevation information.

### Overall Recreation Experience

Survey respondents were asked to rate their overall recreation experience using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. All of the respondents (5 people) said they were either very satisfied (20.0%) or satisfied (80.0%) with their overall recreation experience. All of the survey responses are tabulated in table REC 2-20, for reference.

### Additional Recreation Facilities, Amenities or Opportunities

Survey respondents were asked if there are any additional recreation facilities, amenities, or opportunities that would improve their recreation experience. Two people answered this question.

- One person (50.0%) said “no.”
- The person that said yes identified “more trails/better access.”

### **Section A-2 – Camping at Developed Sites**

There are no developed campgrounds in the Duncan Creek Diversion area. Therefore, Section A-2 is not applicable to this area.

### **Section A-3 – Day Use at Developed Sites**

There are no developed day use sites in the Duncan Creek Diversion area. Therefore, Section A-3 is not applicable to this area.

### **Section A-4 – Day Use or Camping in Undeveloped Areas**

The stakeholders identified the following DCUAs in the Duncan Creek Diversion area:

- Area North of Duncan Creek Diversion;
- Area Near Duncan Creek Gage and Weir; and
- Area Near New Bridge Crossing Duncan Creek.

These three areas were included in the survey effort. A total of four people who camped in the Duncan Creek Diversion area completed Section A-4 of the survey instrument. Their responses are tabulated on Table REC 2-21 and are summarized below.

#### Length of Stay

Survey participants were asked how long they would stay at the undeveloped area they identified. Four people answered this question. The survey respondents indicated that would stay for an average of 2.8 nights, ranging from a minimum of two nights to a maximum of 3 nights.

#### Method of Camping

The survey participants were asked to specify their camping method. All four of the respondents indicated they used tents.

#### Recreation Experience

Survey participants were asked whether their recreation experience was negatively affected by crowding or other activities taking place. Four people answered this question. None were adversely affected by either crowding or other activities taking place.

#### Overall Recreation Experience

Survey participants were asked to rate their overall recreation experience, using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. Four people answered this question. All four of these people were either very satisfied or satisfied with their overall recreation experience.

### **Section A-5 – Day Use along a Stream/River**

One person intercepted in the Duncan Creek Diversion area identified day use along a stream/river as one of the activities they engaged in during their visit. However, this person did not complete Section A-5 of the survey form.

### **Section A-6 – Reservoir Recreation**

None of the people who were intercepted in the Duncan Creek Diversion area identified reservoir recreation as an activity they engaged in during their visit. Therefore, none of the survey participants intercepted in the Duncan Creek Diversion area completed Section A-6 of the survey form.

### **Section A-7 – Fishing**

One person intercepted in the Duncan Creek Diversion area identified fishing as an activity they engaged in during their visit and therefore completed Section A-7 of the survey form, indicating they fished on Duncan Creek. Since this was the only survey, it was not analyzed.

### **6.1.5 Ralston Afterbay Area**

The Ralston Afterbay area includes the following developed Project recreation facilities and DCUAs identified by the stakeholders:

#### Day Use Areas

- Indian Bar Rafter Access and General Parking
- Ralston Picnic Area
- Ralston Picnic Area Cartop Boat Ramp

#### DCUAs

- Ralston Afterbay Sediment Disposal Area;
- Areas along Middle Fork American River, between Ralston Picnic Area and the new gage;
- Area at confluence of North Fork of the Middle Fork American River and Middle Fork American River;
- Indian Bar, Willow Bar, and Junction Bar Areas; and
- Shoreline area surrounding Ralston Afterbay.

None of the DCUAs identified by the stakeholders were specifically targeted for surveys because recreation use was too low to warrant the survey effort. However, the recreation technician assigned to the Ralston Afterbay area typically roved through these areas in an attempt to intercept more visitors. As a result, several surveys were completed by people intercepted in the vicinity of the Ralston Powerhouse and four surveys were completed by people who camped on the Indian Bar DCUA.

All together, a total of 58 people intercepted in the Ralston Afterbay area participated in the general visitor survey. The survey results are summarized below by survey section.

#### **Section A-1. Background Information**

A total of 58 people intercepted in the Ralston Afterbay area completed Section A-1. The survey responses are tabulated on Table REC 2-22 and are summarized below.

#### Recreation Activities

Survey participants were asked to identify the activities they engaged in during their visit. Multiple responses were accepted. All 58 people intercepted in the Ralston Afterbay area answered this question with the following results.

- Day use along a stream/river – 70.7% (41 people);
- Fishing – 32.8% (19 people);
- Reservoir recreation – 24.1% (14 people);
- Day use or camping in undeveloped areas – 15.5% (9 people);

- Day use at a developed site – 3.4% (2 people); and
- Camping at a developed site – 0.0% (0 people).

### Vehicle Type

Survey participants were asked to identify the type of vehicle they used to drive to the area. A total of 58 people answered this question, with the following results:

- Car/Truck/SUV – 89.7% (52 people);
- Other (“boat,” “bus”) – 6.9% (4 people);
- Camper/RV – 3.4% (2 people); and
- Motorcycle – 0.0% (0 people).

### Number of People in Vehicle

Survey participants were asked how many people were in their vehicle. A total of 56 people answered this question.

- Responses ranged from 1 – 20 people per vehicle, with two being the most frequent response (35.7%).
- The average number of people per vehicle was determined to be 4.0, with a standard deviation of 3.5.

### Group Age Categories

Survey participants were asked how many people in their group were under 18 or over 18. A total of 57 people provided sufficient information to analyze.

- 81.7% of the people in each group were 18 or over and 18.3% were under 18.

### Group Vehicles

Survey participants were asked to identify how many and what types of vehicles and trailers their group brought. A total of 55 people provided sufficient information to analyze.

- 87.3% of the respondents (48 people) said that their group brought a car/pickup/SUV, followed by a boat trailer (10.9%), and towed/trailer vehicle (3.6%). Other responses included motor home/RV, motorcycle, OHV, travel trailer, and utility trailer (all 1.8%).
- The number of vehicles per group ranged from 1.0 in most cases to 1.4 car/pickup/SUVs per group. One person said their group brought four motor home/RVs.

### Residence/Area of Origin

Survey participants were asked to identify their place of residence by zip code. A total of 56 people answered this question. The zip code results were converted to counties to determine area of origin. The majority of respondents (60.7%) reside in the following two counties. All other responses were ≤ 7.1% and are tabulated on Table REC 2-22.

- Placer County – 35.7%
- Sacramento County – 25.0%

### Respondent's Age

Survey participants were asked the year they were born. A total of 55 people answered this question. The responses to this question were used to determine the age of the survey participants, with the following result.

- Average age – 42 with a standard deviation of 12.2 years.

### Ethnicity

Survey respondents were asked to identify the cultural or ethnic group they most closely identify with. A total of 57 people answered this question, with the following results.

- The majority (82.5%) of respondents are White/Caucasian.
- Other responses included: Asian (7.0%), Hispanic or Latino (3.5%), Native Hawaiian or Pacific Islander (3.5%), American Indian or Native Alaskan (1.8%), and black/African American (1.8%).

### Primary Language

Survey participants were asked to identify their primary spoken language. A total of 43 people answered this question with the following results.

- The majority of respondents (93.0%) primarily speak English.
- Other responses included: Dutch (2.3%), Italian (2.3%), and multiple languages (2.3%).

### Reasons for Visiting the Area

Survey participants were asked to identify the main reason they chose to visit the area. Twenty-six respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and were not included in the analysis. After excluding invalid responses, a total of 32 responses were analyzed, with the following results.

- The most frequent response was “scenic quality of the area” (21.9%).
- Other responses included, in order of response rate: “access to lake/reservoir” (15.6%), “access to river/stream”(15.6%), “close to home” (15.6%), “lack of crowding” (12.5%), and “recreation activities/opportunities in the area” (6.2%). None of the respondents identified “cost of facility access fee” or “presence of on-site manager/host” as a main reason for visiting the area.
- Four respondents provided “other” main reasons for visiting the area, including: “good fishing,” “rafting,” and “work.”

Survey participants were also asked to specify any number of secondary reasons for visiting the area. A total of 32 people properly answered this question. Multiple responses were accepted, therefore the sum of the percentages exceeds 100%.

- The most frequent responses were “access to river/stream” (34.4%) and “lack of crowding” (34.4%).
- Other responses included, in order of frequency: “close to home” (28.1%), “recreational activities/opportunities in the area” (28.1%), “scenic quality of the area” (25.0%), “access to lake/reservoir” (21.9%), “cost of facility access fee” (18.8%), and “presence of on-site manager/host” (6.2%).
- One person identified “fishing” as an “other” secondary reason for visiting the area.

### Importance of Facilities and Amenities

Survey participants were asked to rate the importance of various facilities and amenities when choosing the area to recreate. The rating scale included four options: very important, important, somewhat important, and not important. All of the responses are tabulated in table REC 2-22, for reference, and summarized below.

- 45.8% (22 of 48 people) said developed campsites are very important (20.8%) or important (25.0%). Twenty people (41.7%) said that developed campsites are not important.
- 38.3% (18 of 47 people) said developed picnic areas are very important (21.3%) or important (17.0%). Eighteen people (38.3%) said that developed picnic areas are not important.
- 46.8% (22 of 47 people) said flush restrooms are very important (36.2%) or important (10.6%). Sixteen people (34.0%) said that flush restrooms are not important.
- 52.0% (26 of 50 people) said drinking water is very important (34.0%) or important (18.0%). Fourteen people (28.0%) said that drinking water is not important.
- The majority of people (67.4%) said that an RV dump station is not important. A total of 18.6% (8 of 43 people) said an RV dump station is very important (9.3%) or important (9.3%).
- 55.3% (26 of 47 people) said boat launch ramps are very important (29.8%) or important (25.5%). Seventeen people (36.2%) said that boat launch ramps are not important.
- 58.3% (28 of 48 people) said river put-in/take-outs are very important (31.2%) or important (27.1%). Fourteen people (29.2%) said that river put-in/take-outs are not important.
- 63.8% (30 of 47 people) said hiking trails are very important (31.9%) or important (31.9%). Eight people (17.0%) said that hiking trails are not important.
- The majority of people (51.2%) said that OHV trails are not important. A total of 34.9% (15 of 43 people) said OHV trails are very important (20.9%) or important (14.0%).

- The majority of people (56.8%) said that mountain bike trails are not important. A total of 18.2% (8 of 44 people) said mountain bike trails are very important (11.4%) or important (6.8%).
- 62.0% (31 of 50 people) said fishing access trails are very important (50.0%) or important (12.0%). Fourteen people (28.0%) said that fishing access trails are not important.
- The majority of people (53.3%) said that equestrian trails are not important. A total of 26.7% (12 of 45 people) said equestrian trails are very important (11.1%) or important (15.6%).
- 30.4% (14 of 46 people) said interpretative/educational exhibits/information is very important (17.4%) or important (13.0%). Twenty-one people (45.7%) said that interpretative/educational exhibits/information is not important.

### Primary and Secondary Activities

Survey participants were asked to identify the activities they engaged in, or expected to engage in, during their trip. They were instructed to check one main activity and one or more secondary activities. Primary and secondary activities identified by the survey respondents are tabulated on Table REC 2-22 and summarized below.

- A total of 31 people identified one main activity. The most frequent response was “stream fishing” (22.6%), followed by “reservoir fishing” (19.4%).
- A total of 31 people identified one or more secondary activities. The most frequent response was “stream swimming/water-play/sun bathing” (32.3%), followed by “reservoir swimming/water-play/sun bathing” (29.0%), “relaxing” (25.8%), reservoir fishing (25.8%), “viewing wildlife, scenery photography” (25.8%), and “picnicking in developed sites: (22.6%).

### Information Resources

Survey participants were asked to rate the availability and adequacy of various information resources. The rating scale included four options: acceptable, somewhat acceptable, not acceptable, and not applicable. All of the responses are tabulated in table REC 2-22, for reference, and summarized below.

- 33.3% (15 of 45 people) said interpretive/educational information is acceptable. Fifteen people (33.3%) said it is not applicable.
- 38.8% (19 of 49 people) said recreation visitor information is acceptable. Fifteen people (30.6%) said it is not applicable.
- 60.9% (28 of 46 people) said safety/warning information is acceptable. Seven people (15.2%) said it is not applicable.
- 34.8% (16 of 46 people) said reservoir water surface elevation information is acceptable. Thirteen people (28.3%) said it is not applicable.
- 37.0% (17 of 46 people) said river/stream flow information is acceptable. Ten people (21.7%) said it is not applicable.

### Overall Recreation Experience

Survey respondents were asked to rate their overall recreation experience using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. A total of 91.2% (52 of 57 people) said they were either very satisfied (50.9%) or satisfied (40.4%) with their overall recreation experience. All of the survey responses are tabulated in table REC 2-22, for reference.

### Additional Recreation Facilities, Amenities or Opportunities

Survey respondents were asked if there are any additional recreation facilities, amenities, or opportunities that would improve their recreation experience. A total of 41 people answered this question.

- Most people (73.2%) said “no.”
- Ten people said “yes,” and were asked to explain their answer. These responses related to: restrooms, fishing, crowding, camping, picnic tables, trails, and drinking water.

### **Section A-2 – Camping at Developed Sites**

There are no developed campgrounds in the Ralston Afterbay area. Therefore, Section A-2 is not applicable to this area.

### **Section A-3 – Day Use at Developed Sites**

The Ralston Afterbay area includes three developed day use facilities:

- Ralston Picnic Area;
- Ralston Car Top Boat Ramp; and
- Indian Bar Rafter Access.

Two people who recreated in the Ralston Afterbay area completed Section A-3 of the survey form. Their responses are tabulated on Table REC 2-23 and are summarized below.

### Length of Stay

Survey participants were asked to specify the number of hours they would stay at their primary day use site. Two people answered this question. The survey respondents indicated that would stay at the day use site an average of 3.0 hours, ranging from a minimum of two hours to a maximum of four hours.

### Day Use Site Availability

Survey participants were asked if they were able to use their first choice day use site. Two people answered this question. Both said “yes,” they were able to use their first choice day use site.



### Day Use Site Factors

Survey respondents were asked to rate a variety of day use site factors, using an acceptability scale with the following three options: acceptable, somewhat acceptable, and not acceptable. The respondents rated all factors “acceptable.”

### Adequacy of Campground for Physically Impaired Persons

Survey respondents were asked whether the day use site services and facilities were adequate for physically impaired persons in their party. One person said that the facilities were adequate and the other person said that this question was not applicable to their group.

### Recreation Experience

Survey participants were asked whether their recreation experience was negatively affected by crowding or other activities taking place. One person answered this question. This person was not adversely affected by either crowding or other activities taking place.

### Overall Recreation Experience

Survey participants were asked to rate their overall recreation experience, using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. One person answered this question. This person was very satisfied with their overall recreation experience.

## **Section A-4 – Day Use or Camping in Undeveloped Areas**

A total of nine people encountered in the Ralston Afterbay area identified day use or camping in undeveloped areas as one of the activities they engaged in during their visit. Eight of these people completed Section A-4 of the survey instrument. However, four did not specify their location. Therefore, their survey responses were not analyzed. The other four were encountered on the Indian Bar DCUA located downstream of the Ralston Afterbay. The responses of these four people are tabulated on Table REC 2-24 and are summarized below.

### Length of Stay

Survey participants were asked how long they would stay at the undeveloped area they identified. Four people answered this question. The survey respondents indicated that would stay for an average of 1.3 days, ranging from a minimum of one night to a maximum of 2 nights.

### Method of Camping

The survey participants were asked to specify their camping method. All four of the respondents indicated they used tents.

### Recreation Experience

Survey participants were asked whether their recreation experience was negatively affected by crowding or other activities taking place. Four people answered this question. None were adversely affected by crowding, and two people indicated that they were negatively affected by other activities taking place.

### Overall Recreation Experience

Survey participants were asked to rate their overall recreation experience, using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. Four people answered this question. All four of these people were either very satisfied or satisfied with their overall recreation experience.

### **Section A-5 – Day Use along a Stream/River**

A total of 58 people who were intercepted at one of the sites in the Ralston Afterbay area participated in the survey. Of these, 41 people identified day use along a stream/river as their primary activity. Of these, 38 people completed section A-5 of the survey form. The results of these surveys were organized and discussed in detail in the REC 4 – Stream-based Recreation Opportunities Report (PCWA 2009), organized by bypass and peaking reach.

### **Section A-6 – Reservoir Recreation**

Fourteen people intercepted in the Ralston Afterbay Area identified reservoir recreation as an activity they engaged in during their visit. Of these, eleven people completed Section A-6 of the survey form. The results of these surveys will be discussed in detail in the REC 3 – Reservoir Recreation TSR (PCWA 2009b)

### **Section A-7 – Fishing**

Sixteen people intercepted in the Ralston Afterbay area completed Section A-7 of the survey form. Of these, six people indicated they fished at Ralston Afterbay. Since the surveys pertain to reservoir fishing they are discussed in Section 6.3 of this report. The remaining 10 surveys were not analyzed because the respondent either did not specify where they fished or the respondent fished on a river or stream. In the latter case, there were not enough surveys on any one stream to analyze.

### **6.1.6 ASRA Area**

Surveys were conducted at the following recreation areas located in ASRA. Note that the surveys conducted in ASRA focused on stream-based recreation users. Therefore, the surveys were limited to those areas where survey technicians were more likely to encounter stream-based recreation users.

#### Day Use Areas

- Ruck-a-Chucky Day-use Boater Access
- Ruck-a-Chucky at gate upstream of Ruck-a-Chucky Day-Use Boater Access
- Mammoth Bar
- Confluence Area
- Quarry Trail Parking Area
- Birdsall Access/Oregon Bar Access (China Bar)

The Indian Bar Rafter Access and General Parking is located adjacent to the Oxbow Powerhouse, within ASRA. However, this facility is a Project recreation facility and was originally grouped with the Ralston Afterbay sites for survey purposes. It was therefore analyzed with the Ralston Afterbay area sites discussed above.

A combined total of 283 people intercepted in the sites located in ASRA participated in the general visitor survey. The survey results are summarized below by survey section.

### **Section A-1. Background Information**

A total of 283 people intercepted in ASRA completed Section A-1. The survey responses are tabulated on Table REC 2-25 and are summarized below.

#### Recreation Activities

Survey participants were asked to identify the activities they engaged in during their visit. Multiple responses were accepted. All 283 people intercepted in the ASRA area answered this question with the following results.

- Day use along a stream/river – 81.6% (231 people)
- Camping at a developed site – 17.3% (49 people)
- Day use at a developed site – 6.7% (19 people)
- Day use or camping in undeveloped areas – 3.2% (9 people)
- Fishing – 2.8% (8 people)
- Reservoir recreation – 0.7% (2 people)

#### Vehicle Type

Survey participants were asked to identify the type of vehicle they used to drive to the area. A total of 281 people answered this question, with the following results.

- Car/Truck/SUV – 92.2% (259 people)
- Other (“bike,” “bus,” “van,” “walk”) – 6.0% (17 people)
- Motorcycle – 1.8% (5 people)
- Camper/RV – 0.0% (0 people)

#### Number of People in Vehicle

Survey participants were asked how many people were in their vehicle. A total of 275 people answered this question.

- Responses ranged from 1 – 40 people per vehicle, with two being the most frequent response (28.7%).
- The average number of people per vehicle was determined to be 3.8, with a standard deviation of 4.5.

### Group Age Categories

Survey participants were asked how many people in their group were under 18 or over 18. A total of 281 people provided sufficient information to analyze.

- 77.7% of the people in each group were 18 or over and 22.3% of the people were under 18.

### Group Vehicles

Survey participants were asked to identify how many and what types of vehicles and trailers their group brought. A total of 268 people provided sufficient information to analyze.

- 93.3% of the respondents (250 people) said that their group brought a car/pickup/SUV. Other responses included: motorcycle (2.2%), towed/trailer vehicle (1.5%), and utility trailer (1.1%). Less than 1% said boat trailer, motor home/RV, OHV, travel trailer or horse trailer.
- The number of vehicles per group ranged from 1.0 in most cases to 2.0 travel trailers and boat trailers.

### Residence/Area of Origin

Survey participants were asked to identify their place of residence by zip code. A total of 276 people answered this question. The zip code results were converted to counties to determine area of origin. The majority of respondents (64.1%) reside in the following two counties. All other responses were  $\leq 4.0\%$  and are summarized on Table REC 2-25.

- Placer County – 52.9%
- Sacramento County – 11.2%

### Respondent's Age

Survey participants were asked the year they were born. A total of 262 people answered this question. The responses to this question were used to determine the age of the survey participants, with the following result.

- Average age – 38.3 with a standard deviation of 13 years.

### Ethnicity

Survey respondents were asked to identify the cultural or ethnic group they most closely identify with. A total of 281 people answered this question, with the following results.

- The majority (84.3%) of respondents are White/Caucasian.
- Other responses included: other/multiracial (7.5%), Hispanic or Latino (3.6%), Native Hawaiian or Pacific Islander (1.8%), American Indian or Native Alaskan (1.4%), Asian (1.1%), and black/African American (0.4%).

### Primary Language

Survey participants were asked to identify their primary spoken language. A total of 251 people answered this question with the following results.

- The majority of respondents (96.8%) primarily speak English.
- Other responses included: Spanish and multiple languages (both 0.8%), and Filipino, Pashtu, Ukrainian, and German (all 0.4%).

### Reasons for Visiting the Area

Survey participants were asked to identify the main reason they chose to visit the area. Eighty-six respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and were not included in the analysis. After excluding invalid responses, a total of 197 responses were analyzed, with the following results.

- The most frequent response was “close to home” (39.6%).
- Other responses included, in order of response rate: “access to river/stream” (24.9%), “recreation activities/opportunities in the area” (14.7%), “scenic quality of the area” (11.7%), “lack of crowding” (3.6%), “access to lake/reservoir” (1.5%), “cost of facility access fee” (1.0%), and “presence of on-site manager/host” (0.5%).
- Five respondents provided “other” main reasons for visiting the area, including: “bachelor party,” “rafting,” “view,” “visiting family,” and “work.”

Survey participants were also asked to specify any number of secondary reasons for visiting the area. Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%. A total of 199 people properly answered this question.

- The most frequent response was “scenic quality of the area” (33.7%).
- Other responses included, in order of frequency: “access to river/stream” (25.1%), “recreational activities/opportunities in the area” (22.6%), “close to home” (21.6%), “lack of crowding” (19.1%), “cost of facility access fee” (8.5%), “access to lake/reservoir” (5.5%), and “presence of on-site manager/host” (1.5%).
- Eight respondents provided “other” secondary reasons for visiting the area, including: “good weather/sun,” “clean,” “manufactured landscape,” “swimming,” “school event,” and “trails.”

### Importance of Facilities and Amenities

Survey participants were asked to rate the importance of various facilities and amenities when choosing the area to recreate. The rating scale included four options: very important, important, somewhat important, and not important. All of the responses are tabulated in table REC 2-25, for reference, and summarized below.

- 34.3% (85 of 248 people) said developed campsites are very important (20.2%) or important (14.1%). A total of 113 people (45.6%) said that developed campsites are not important.

- 34.6% (84 of 243 people) said developed picnic areas are very important (18.1%) or important (16.5%). Eighty-five people (35.0%) said that developed picnic areas are not important.
- 43.1% (109 of 253 people) said flush restrooms are very important (22.5%) or important (20.6%). Ninety-four people (37.2%) said that flush restrooms are not important.
- 58.2% (145 of 249 people) said drinking water is very important (33.7%) or important (24.5%). Sixty-four people (25.7%) said that drinking water is not important.
- The majority of people (72.8%) said that an RV dump station is not important. A total of 17.9% (42 of 235 people) said an RV dump station is very important (10.2%) or important (7.7%).
- The majority of people (67.8%) said that boat launch ramps are not important. A total of 20.4% (47 of 230 people) said boat launch ramps are very important (11.3%) or important (9.1%).
- 47.9% (113 of 236 people) said river put-in/take-outs are very important (28.8%) or important (19.1%). Ninety-three people (39.4%) said that river put-in/take-outs are not important.
- 74.6% (191 of 256 people) said hiking trails are very important (45.3%) or important (29.3%). Thirty-four people (13.3%) said that hiking trails are not important.
- The majority of people (56.9%) said that OHV trails are not important. A total of 30.2% (68 of 225 people) said OHV trails are very important (16.9%) or important (13.3%).
- 52.3% (125 of 239 people) said mountain bike trails are very important (30.5%) or important (21.8%). Seventy-eight people (32.6%) said that mountain bike trails are not important.
- 50.8% (123 of 242 people) said fishing access trails are very important (29.3%) or important (21.5%). Seventy-six people (31.4%) said that fishing access trails are not important.
- The majority of people (53.2%) said that equestrian trails are not important. A total of 32.7% (77 of 235 people) said equestrian trails are very important (20.4%) or important (12.3%).
- The majority of people (50.7%) said that interpretative/educational exhibits/information is not important. A total of 30.9% (69 of 223 people) said interpretative/educational exhibits/information is very important (15.2%) or important (15.7%).
- The survey respondents identified a variety of “other” amenities as very important or important including, for example: “rafting,” “dogs allowed,” “life vest

committee,” “preservation,” “relaxing/serene,” “river access,” “safe walkways,” “restrooms,” and “trash cans.”

### Primary and Secondary Activities

Survey participants were asked to identify the activities they engaged in, or expected to engage in, during their trip. They were instructed to check one main activity and one or more secondary activities. Primary and secondary activities identified by the survey respondents are tabulated on Table REC 2-25 and summarized below.

- A total of 195 people identified one main activity. The most frequent response was “stream swimming/water-lay/sun bathing” (19.0%), followed by “whitewater boating (rafting, kayaking, canoeing)” (18.5%).
- A total of 195 people identified one or more secondary activities. The most frequent response was “relaxing” (35.4%), followed by “hiking/walking” (23.6%), “stream swimming/water-play/sun bathing” (20.5%), “viewing wildlife, scenery photography” (17.4%), and “picnicking in undeveloped sites” (11.3%).

### Information Resources

Survey participants were asked to rate the availability and adequacy of various information resources. The rating scale included four options: acceptable, somewhat acceptable, not acceptable, and not applicable. All of the responses are tabulated in table REC 2-25, for reference, and summarized below.

- 43.5% (104 of 239 people) said interpretive/educational information is acceptable. Seventy-two people (30.1%) said it is not applicable.
- 48.3% (117 of 242 people) said recreation visitor information is acceptable. Fifty-nine people (24.4%) said it is not applicable.
- 59.4% (149 of 251 people) said safety/warning information is acceptable. Thirty-nine people (15.5%) said it is not applicable.
- 39.0% (90 of 231 people) said reservoir water surface elevation information is acceptable. Seventy-three people (31.6%) said it is not applicable.
- 48.1% (116 of 241 people) said river/stream flow information is acceptable. Fifty-one people (21.2%) said it is not applicable.

### Overall Recreation Experience

Survey respondents were asked to rate their overall recreation experience using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. A total of 94.6% (263 of 278 people) said they were either very satisfied (67.6%) or satisfied (27.0%) with their overall recreation experience. All of the survey responses are tabulated in table REC 2-25, for reference.

- 94.6% (263 of 278 people) said they were either very satisfied (67.6%) or satisfied (27.0%) with their overall recreation experience.

### Additional Recreation Facilities, Amenities or Opportunities

Survey respondents were asked if there are any additional recreation facilities, amenities, or opportunities that would improve their recreation experience. A total of 216 people answered this question.

- Most people (76.9%) said “no.”
- People who said “yes” were asked to explain their answer. Signage/additional information, more developments, restrooms, road/parking improvement, and drinking water were mentioned most frequently.

### **Section A-2 – Camping at Developed Sites**

Camping is allowed at one developed area in the ASRA area, Ruck-a-Chucky. A total of 40 people who were intercepted at Ruck-a-Chucky completed Section A-2. The responses of these 40 people are tabulated on Table REC 2-26 for reference and are summarized below.

#### Length of Stay

Survey participants were asked to specify the number of nights they would camp during their visit. A total of 38 people answered this question, with the following results.

- The survey respondents camped an average of 2.7 nights, ranging from a minimum of one night to a maximum of 14 nights.

#### Campground Availability

Survey participants were asked if they were able to camp at their first choice campground. A total of 39 people answered this question. Of these, 33 (84.6%) said they were able to camp at their first choice campground. Three of the six people that were not able to camp at their first choice campground indicated that they would have preferred to camp at a different camp site within Ruck-a-Chucky, specifically Site 4, which is located closer to the river than the other sites.

#### Camping Method

Survey participants were asked to specify their camping method. A total of 40 people answered this question. Of these, the majority of people (85.0%) said they used tents. Five people said “other” and one person said “multiple modes”. Otherwise, no other camping methods were identified (Table REC 2-26).

#### Campsite Factors

Survey respondents were asked to rate a variety of campground and campsite factors, using an acceptability scale. The rating scale included three options: acceptable, somewhat acceptable, and not acceptable. The majority of respondents rated most campsite factors “acceptable”, as summarized below. All of the responses are tabulated in table REC 2-26, for reference.

- 74.4% of the respondents (29 of 39 people) said that campsite availability was acceptable.



- 79.5% of the respondents (31 of 39 people) said that campsite condition was acceptable.
- 71.8% of the respondents (28 of 39 people) said that campsite cleanliness was acceptable.
- 51.4% of the respondents (18 of 35 people) said that campsite screening was acceptable.
- 56.8% of the respondents (21 of 37 people) said that campsite shading was acceptable.
- 66.7% of the respondents (26 of 39 people) said that restroom condition was acceptable.
- 69.2% of the respondents (27 of 39 people) said that restroom cleanliness was acceptable.
- 28.6% of the respondents (10 of 35 people) said that drinking water availability was acceptable.
- 76.9% of the respondents (30 of 39 people) said that trash disposal was acceptable.
- 82.1% of the respondents (32 of 39 people) said that parking availability was acceptable.
- 83.8% of the respondents (31 of 37 people) said that parking area condition was acceptable.
- 33.3% of the respondents (11 of 33 people) said that adequacy of food storage lockers was acceptable.
- 32.2% of the respondents (10 of 31 people) said that the condition of food storage lockers was acceptable.
- 62.9% of the respondents (22 of 35 people) said that parking spur size was acceptable.
- 53.8% of the respondents (21 of 39 people) said that the road condition in the campground was acceptable.
- 71.8% of the respondents (28 of 39 people) said that the adequacy of road size in the campground was acceptable.
- 76.3% of the respondents (29 of 38 people) said that the cost of the campground fee was acceptable.
- 77.1% of the respondents (27 of 35 people) said that the adequacy of law enforcement personnel was acceptable.

#### Adequacy of Campground for Physically Impaired Persons

Survey respondents were asked whether the campground services and facilities were adequate for physically impaired persons in their party. A total of 38 people answered this question.

- The majority of people (60.5%) said that this question was “not applicable” to their group.
- Six people (15.8%) said “yes,” the campground services and facilities were adequate for physically impaired persons.
- Nine people (23.7%) said “no.” One person explained their answer, as follows: “need for persons disabled to reach the river/non etiquette.”

### Recreation Experience

Survey participants were asked whether their recreation experience was negatively affected by crowding or other activities taking place. People who answered “yes,” were asked to explain their comment.

- 92.3% of the respondents (36 of 39 people) said that they were not affected by crowding.
- 86.5% of the respondents (32 of 37 people) said that they were not affected by other activities taking place.
- Two people who said that their recreation experience was affected other activities taking place explained their answer, as follows: (1) “Dredgers with generator equipment on beaches!” and (2) “Previous camper’s messiness.”

### Overall Recreation Experience

Survey participants were asked to rate their overall recreation experience, using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. A total of 39 people answered this question. Of these, 38 people (97.4%) said that they were either very satisfied (66.7%) or satisfied (30.8%) with their overall recreation experience. All of the survey responses are tabulated in table REC 2-26, for reference.

### Section A-3 – Day Use at Developed Sites

The ASRA area includes four developed day use facilities: Ruck-a-Chucky, Mammoth Bar, the Confluence, and Birdsall Access/Oregon Bar. Four people who recreated in ASRA completed Section A-3 of the survey form and their responses are tabulated on Table REC 2-27. All four of these people identified Ruck-a-Chucky as their primary day use site. Therefore, the responses below pertain to the Ruck-a-Chucky.

Note that with so few surveys, the results are not considered statistically meaningful. However, they are presented in this report as a means of characterizing day use at Ruck-a-Chucky.

### Length of Stay

Survey participants were asked to specify the number of hours they would stay at their primary day use site. Four people answered this question. The survey respondents indicated that would stay at the day use site an average of 2.3 hours, ranging from a minimum of two hours to a maximum of three hours.

### Day Use Site Availability

Survey participants were asked if they were able to use their first choice day use site. Four people answered this question. Three said “yes,” they were able to use their first choice day use site. One said “no” but did not specify their first choice day use site.

### Day Use Site Factors

Survey respondents were asked to rate a variety of day use site factors, using an acceptability scale with the following three options: acceptable, somewhat acceptable, and not acceptable. Four people provided feedback regarding all of the factors, with the following results.

- All of the respondents said that the following factors were acceptable: picnic site availability, picnic site condition, picnic site cleanliness, trash disposal, parking availability, parking area condition, restroom condition, and restroom cleanliness.
- Three people said that drinking water availability was not acceptable.
- One person said the adequacy of law enforcement personnel was not acceptable, one said it was somewhat acceptable, and two said it was acceptable.

### Adequacy of Campground for Physically Impaired Persons

Survey respondents were asked whether the day use site services and facilities were adequate for physically impaired persons in their party. Four people answered this question. All four said that the question was not applicable to their group.

### Recreation Experience

Survey participants were asked whether their recreation experience was negatively affected by crowding or other activities taking place. Four people answered this question.

Two people were negatively affected by crowding and one person was negatively affected by other activities taking place. This person provided the following comments. “Campers the night before kept everyone up.” “People left in the morning because of it.”

### Overall Recreation Experience

Survey participants were asked to rate their overall recreation experience, using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. Four people answered this question. All four of these people were very satisfied with their overall recreation experience.

### **Section A-4 – Day Use of Camping at Undeveloped Areas**

Surveys were not conducted in undeveloped areas of ASRA. Therefore, Section A-4 is not applicable to this area.

### **Section A-5 – Day Use along a Stream/River**

A total of 283 people who were intercepted at one of the sites in ASRA participated in the survey. Of these, 231 people identified day use along a stream/river as one of the

activities they engaged in during their visit. Of these, 202 people completed Section A-5. The results of these surveys are discussed in detail in the REC 4 – Stream-based Recreation Opportunities Report (PCWA 2009).

### **Section A-6 – Reservoir Recreation**

Two people intercepted at the sites located in ASRA identified reservoir recreation as one of the activities they engaged in during their visit. However, neither completed Section A-6 of the survey form.

### **Section A-7 – Fishing**

Eight people intercepted at one of the sites located in ASRA identified fishing as one of the activities they engaged in during their visit. Four of these people completed Section A-7 of the survey form. Three of these people were intercepted at Mammoth Bar and one was intercepted in the Confluence area. These surveys were not analyzed due to the low number of completed surveys.

## **6.2 GENERAL VISITOR SURVEY – FORM B**

Form B was designed to primarily collect information about travel routes and dispersion patterns. The Form B surveys were conducted as interviews and were administered at the Project recreation facilities and at the DCUAs located in the Duncan Creek Area. In accordance with the protocols, the Form B surveys were not administered at any of the sites located in ASRA.

The survey protocols and sampling schedule were designed to obtain a total of 100 completed surveys. A total of 110 people were intercepted as part of the Form B survey effort. All of these people completed Form B, resulting in an overall participation rate of 100%. Table REC 2-28 summarizes the number of Form B surveys completed at each site, organized by area.

The results of the Form B surveys are described in detail in the following subsections. The discussion is organized according by geographic area.

### **6.2.1 Hell Hole Reservoir Area**

A total of 32 Form B surveys were completed at the sites located in the Hell Hole Reservoir area. Of these, 23 were collected at the Hell Hole Boat Ramp and associated parking areas, eight were collected at Big Meadows Campground, and one was collected at Hell Hole Campground. The survey results are tabulated in Table REC 2-29 and summarized below.

#### Residence/Area of Origin

Survey participants were asked to identify their place of residence by zip code. The zip code results were converted to counties to determine residence/area of origin. All of the results are summarized on Table REC 2-29. As indicated, the majority of Form B survey participants (74.9%) reside in the following three counties. All other responses were  $\leq 6.2\%$ .

- Placer County – 31.2%
- Sacramento County – 31.2%
- El Dorado County – 12.5%

#### Group Vehicles

Survey participants were asked to identify how many and what types of vehicles and trailers their group brought.

- 90.6% of the respondents (29 people) said that their group brought a car/pickup/SUV, followed by boat trailer (50.0%), utility trailer (9.4%), towed/trailer vehicle (6.2%), motor home/RV (6.2%), and travel trailer (3.1%).
- The number of vehicles per group ranged from 1.0 in most cases to 1.5 motor home/RVs per group.

#### Number of Years Recreating in Area

Survey participants were asked how many years they have recreated in the area, with the following result.

- Average = 17.3 years with a standard deviation of 12.4 years

#### Frequency of Visits

Survey participants were asked how many times a year they typically visit the area, with the following result.

- Average = 4.6 times per year with a standard deviation of 4.3

#### Timing of Visits

Survey participants were asked what time of year they typically visit the area, with the following results. Multiple responses were accepted.

- January–April – 0%
- May–September – 100%
- October–December – 0%

#### Road Use

Survey participants were asked to identify the main roads they used to get to the destination where they were interviewed. The recreation technician utilized maps to help facilitate the interview. As summarized on Table REC 2-33, most of the survey participants (27 of 32 people) accessed the area from Foresthill and utilized the same route, as follows:

- FR 96 (Mosquito Ridge Road) from Foresthill Road to FR 22 (Soda Springs-Riverton Road);
- FR 22 from FR 96 to FR 2 (Eleven Pines Road); and
- FR 2 from FR 22 to Hell Hole Boat Ramp Access Road.

The other five people accessed the area from the Georgetown area, taking the following route:

- FR 2 (Eleven Pines Road) from Wentworth Springs Road to Hell Hole Boat Ramp Access Road.

#### Areas Visited During Trip

Survey participants were asked to identify the areas they visited within the highlighted area shown on Map REC 2-4. With one exception, all of the survey participants stayed within the Hell Hole Reservoir area during their trip and visited the following areas:

- 78.1% (25 of 32 people) visited Hell Hole Boat Ramp;
- 25.0% (8 of 32 people) visited Big Meadows Campground;
- 6.3% (2 of 32 people) visited Hell Hole Vista; and
- 3.1% (1 person) visited Hell Hole Campground.

#### Other Areas Visited During Trip

Survey participants were asked to identify areas they visited that lie outside of the highlighted area shown on Map REC 2-4. None of the people interviewed in the Hell Hole Reservoir area visited areas that lie outside of the highlighted area.

#### Spending

Survey participants were asked how much money they spent on overnight lodging, food and beverages, supplies, gasoline and equipment in three communities - Auburn, Foresthill and Georgetown. Twenty six of the 32 survey participants provided information about their spending. The results are tabulated on Table REC 2-29, by category.

For summary purposes, the data provided by the survey participants for all of the spending categories was combined to determine the average amount of money each survey participant spent in each community. The results are summarized in the following:

#### **Spending by Hell Hole Reservoir Area Survey Participants**

	<b>Auburn</b>	<b>Foresthill</b>	<b>Georgetown</b>
Average \$ Spent per Survey Participant ( <i>n</i> =26)	\$33.08	\$20.77	\$12.31
Standard Deviation	\$54.54	\$34.40	\$30.37

As indicated, survey respondents spent the most money in Auburn and the least in Georgetown. This reflects the fact that most of the survey participants (84%) traveled to the Hell Hole Reservoir area via Auburn/Foresthill. The other 16% traveled to the area via Georgetown.

### **6.2.2 French Meadows Reservoir Area**

A total of 48 Form B surveys were completed at the sites located in the French Meadows Reservoir area. Of these, 16 were collected at French Meadows Campground, 13 were collected at French Meadows Boat Ramp, 11 were collected at Lewis Campground, five were collected at Ahart Campground, and three were collected at McGuire Boat Ramp. The survey results are tabulated on Table REC 2-30 and are summarized below.

#### Residence/Area of Origin

Survey participants were asked to identify their place of residence by zip code. The zip code results were converted to counties to determine residence/area of origin. All of the results are summarized on Table REC 2-30. As indicated, the majority of respondents (68.7%) reside in the following three counties. All other responses were  $\leq 4.2\%$ .

- Sacramento County – 31.2%
- Placer County – 29.2%
- Contra Costa County – 8.3%

#### Group Vehicles

Survey participants were asked to identify how many and what types of vehicles and trailers their group brought. Multiple responses were accepted.

- 79.2% of the respondents (38 people) said that their group brought a car/pickup/SUV, followed by a motor home/RV (25.0%), boat trailer (18.8%), travel trailer (10.4%), towed/trailer vehicle (6.2%), utility trailer (6.2%), and motor cycle (2.1%).
- The number of vehicles per group ranged from 1.0 in most cases to 1.1 car/pickup/SUVs and boat trailers.

#### Number of Years Recreating in Area

Survey participants were asked how many years they have recreated in the area, with the following result.

- Average = 17.3 years with a standard deviation of 15.0 years.

#### Frequency of Visits

Survey participants were asked how many times a year they typically visit the area, with the following result.

- Average = 3.37 times per year with a standard deviation of 3.3.

#### Timing of Visits

Survey participants were asked what time of year they typically visit the area, with the following results. Multiple responses were accepted.

- January–April – 0%
- May–September – 100%
- October–December – 0%

### Road Use

Survey participants were asked to identify the main roads they used to get to the destination where they were interviewed. The recreation technician utilized maps to help facilitate the interview. As summarized on Table 2-33, all of the survey participants (48 people) accessed the area from Foresthill, using the following route:

- FR 96 (Mosquito Ridge Road) from Foresthill Road to French Meadows Reservoir.

### Areas Visited During Trip

Survey participants were asked to identify the areas they visited within the highlighted area shown on Map REC 2-4. Multiple responses were accepted. With one exception, all of the survey participants stayed within the French Meadows Reservoir area during their trip and visited the following areas.

- 50.0% (24 people) visited French Meadows Boat Ramp
- 35.4% (17 people) visited French Meadows Campground
- 22.9% (11 people) visited Lewis Campground
- 10.4% (5 people) visited Ahart Campground
- 8.3% (4 people) visited French Meadows Picnic Area
- 6.3% (3 people) visited McGuire Boat Ramp

The exception (one person) said they went to Hell Hole Boat Ramp, using the following route:

- FR 22 (Soda Springs – Riverton Road) to FR 2 (Eleven Pines Road)
- FR 2 to Hell Hole Boat Ramp

### Other Areas Visited During Trip

Survey participants were asked to identify areas they visited that lie outside of the highlighted area shown on Map REC 2-4. Only two of the 48 people interviewed visited areas outside of the highlighted area. One of these people said they went to the North Fork of the American River to sight see. The other said they went to Sugar Pine Reservoir but did not specify an activity.

### Spending

Survey participants were asked how much money they spent on overnight lodging, food and beverages, supplies, gasoline and equipment in three communities - Auburn, Foresthill and Georgetown. Forty two of the 48 survey participants provided information about their spending. The results are tabulated on Table REC 2-30, by category.

For summary purposes, the data provided by the 48 survey participants for all of the spending categories was combined to determine the average amount of money each survey participant spent in each community. The results are summarized below:



### Spending by French Meadows Reservoir Area Survey Participants

	Auburn	Foresthill	Georgetown
Average \$ Spent per Survey Participant ( <i>n</i> =42)	\$64.93	\$14.29	\$0
Standard Deviation	\$57.66	\$25.81	\$0

As indicated, survey respondents spent the most money in Auburn and no money in Georgetown. This reflects the fact that all of the survey participants traveled to the French Meadows Reservoir area via Auburn/Foresthill.

#### 6.2.3 Long Canyon Area

Nobody was present at Middle Meadows Campground on any of the days that the Form B surveys were conducted. As such, no Form B surveys were collected at Middle Meadows Campground.

#### 6.2.4 Duncan Creek Diversion Area

Three Form B surveys were completed at the DCUAs located in the Duncan Creek Diversion area. The survey results are tabulated on Table REC 2-31 and are summarized below.

##### Residence/Area of Origin

Survey participants were asked to identify their place of residence by zip code. The zip code results were converted to counties to determine residence/area of origin. All of the respondents who participated in the Form B surveys reside in Placer County.

##### Group Vehicles

Survey participants were asked to identify how many and what types of vehicles and trailers their group brought. Multiple responses were accepted. All of the respondents (3 people) said that their group brought a car/pickup/SUV, averaging one vehicle per group.

##### Number of Years Recreating in Area

Survey participants were asked how many years they have recreated in the area, with the following result.

- Average = 52.7 years with a standard deviation of 9.3 years.

##### Frequency of Visits

Survey participants were asked how many times a year they typically visit the area, with the following result.

- Average = 15.7 visits per year with a standard deviation of 4.0.

### Timing of Visits

Survey participants were asked what time of year they typically visit the area, with the following results. Multiple responses were accepted.

- January–April – 0%
- May–September – 33.3%
- October–December – 100%

### Road Use

Survey participants were asked to identify the main roads they used to get to the destination where they were interviewed. The recreation technician utilized maps to help facilitate the interview. All of the survey participants (3 people) accessed the area via Foresthill, using the following route:

- FR 96 (Mosquito Ridge Road) from Foresthill Road to Duncan Creek Diversion Dam Intake Road (Forest road 96.52).
- Duncan Creek Diversion Dam Intake Road to Duncan Creek Diversion area

### Areas Visited During Trip

Survey participants were asked to identify the areas they visited within the highlighted area shown on Map REC 2-4. Multiple responses were accepted. With one exception, all of the survey respondents stayed in the Duncan Creek Diversion area during their trip. The exception is discussed below.

### Other Areas Visited During Trip

Survey participants were asked to identify areas they visited that lie outside of the highlighted area shown on Map REC 2-4. One person visited an area that lies outside of the highlighted area. This person went to an area north of Talbot Campground to hunt.

### Spending

Survey participants were asked how much money they spent on overnight lodging, food and beverages, supplies, gasoline and equipment in three communities - Auburn, Foresthill and Georgetown. Three survey participants provided information about their spending. The results are tabulated on Table REC 2-31, by category.

For summary purposes, the data provided by the survey participants for all of the spending categories was combined to determine the average amount of money each survey participant spent in each community. The results are summarized below:

#### **Spending by Duncan Creek Diversion Area Survey Participants**

	<b>Auburn</b>	<b>Foresthill</b>	<b>Georgetown</b>
Average \$ Spent per Survey Participant ( <i>n</i> =3)	\$61.67	\$46.67	\$0
Standard Deviation	\$106.81	\$41.63	\$0

As indicated, survey respondents spent the most money in Auburn and no money in Georgetown. This reflects the fact that all of the survey participants traveled to the Duncan Creek Diversion area via Auburn/Foresthill.

### **6.2.5 Ralston Afterbay Area**

Twenty seven Form B surveys were completed in the Ralston Afterbay area. The survey results are tabulated on Table REC 2-32 and are summarized below.

#### Residence/Area of Origin

Survey participants were asked to identify their place of residence by zip code. The zip code results were converted to counties to determine residence/area of origin. All of the results are summarized on Table REC 2-32. As indicated, the majority of respondents (84.6%) reside in the following two counties. All other responses were  $\leq 3.8\%$ .

- Placer County – 69.2%
- Sacramento County – 15.4%

#### Group Vehicles

Survey participants were asked to identify how many and what types of vehicles and trailers their group brought. Multiple responses were accepted.

- 85.2% of the respondents (23 people) said that their group brought a car/pickup/SUV, followed by a motor cycle (11.1%), boat trailer, travel trailer, and van (all 3.7%).
- The number of vehicles per group ranged from 1.0 in most cases to 2.7 motorcycles per group.

#### Number of Years Recreating in Area

Survey participants were asked how many years they have recreated in the area, with the following result.

- Average = 14.1 years with a standard deviation of 11.4 years.

#### Frequency of Visits

Survey participants were asked how many times a year they typically visit the area, with the following result.

- Average = 5.2 visits per year with a standard deviation of 4.4.

#### Timing of Visits

Survey participants were asked what time of year they typically visit the area, with the following results. Multiple responses were accepted.

- January–April – 7.4%
- May–September – 100%
- October–December – 3.7%

### Road Use

Survey participants were asked to identify the main roads they used to get to the destination where they were interviewed. The recreation technician utilized maps to help facilitate the interview. As summarized on Table REC 2-32, all of the survey participants (27 people) accessed the area from Foresthill, using the following route:

- FR 96 (Mosquito Ridge Road) from Foresthill Road to FR 23 (Blacksmith Flat Road)

### Areas Visited During Trip

Survey participants were asked to identify the areas they visited within the highlighted area shown on Map REC 2-4. Multiple responses were accepted. With two exceptions, all of the survey respondents stayed in the Ralston Afterbay area during their trip. Two people traveled outside of the immediate area of Ralston Afterbay, but stayed within the highlighted area on the map. One of these people went to the Rubicon River, upstream of Ralston Afterbay. The other person went to Big Trees Picnic Area

### Other Areas Visited During Trip

Survey participants were asked to identify the areas they visited that lie outside of the highlighted area shown on Map REC 2-4. Two people traveled outside of the highlighted area. One person, a whitewater boater, went to Ruck-a-Chucky located in ASRA. The other went to Folsom Lake to picnic/relax.

### Spending

Survey participants were asked how much money they spent on overnight lodging, food and beverages, supplies, gasoline and equipment in three communities - Auburn, Foresthill and Georgetown. Twenty five of the 27 survey participants provided information about their spending. The results are tabulated on Table REC 2-32, by category.

For summary purposes, the data provided by the survey participants for all of the spending categories was combined to determine the average amount of money each survey participant spent in each community. The results are summarized in the following:

**Spending by Ralston Afterbay Survey Participants**

	<b>Auburn</b>	<b>Foresthill</b>	<b>Georgetown</b>
Average \$ Spent per Survey Participant ( <i>n</i> =25)	\$36.12	\$14.20	\$0
Standard Deviation	\$34.87	\$20.75	\$0

As indicated, survey respondents spent the most money in Auburn and no money in Georgetown. This reflects the fact that all of the survey participants traveled to the Ralston Afterbay via Auburn/Foresthill.

### 6.2.6 ASRA Area

Form B was not administered in ASRA.

### 6.3 RESERVOIR ANGLER SURVEYS

The Angler Reservoir Surveys were conducted as a component of the General Visitor Survey – Form A. Specifically, people who indicated they fished during their visit were asked to complete Section A-7 of Form A, which focuses on collecting information about fishing. Of the 968 people who participated in the General Visitor Survey, 213 people completed all or a portion of Section A-7 – Fishing.

The first question on Section A-7 asked the respondents to identify their primary fishing location, with the following possible answers: French Meadows Reservoir; Hell Hole Reservoir; River/Stream. The responses to this question are summarized on Table REC 2-34. As indicated:

- 101 people (47.4%) indicated they only fished at Hell Hole Reservoir;
- 63 people (29.6%) indicated they only fished at French Meadows Reservoir; and
- Six people (2.8%) indicated they only fished at Ralston Afterbay.

Ten of the respondents (4.7%) indicated that they fished on both Hell Hole and French Meadows reservoirs (Table REC 2-34). The results of these surveys could not be analyzed because it was not clear which reservoir their responses pertained to.

Sixteen respondents indicated they fished on a river/stream in combination with a reservoir. The results of these surveys are not included in the analysis because it is not clear whether their responses pertain to a river/stream or a reservoir.

Another sixteen respondents indicated they only fished on a river/stream. These responses were not analyzed for one or more of the following reasons.

- The respondent did not specify they stream or river they fished.
- The stream or river identified by the survey respondent is not a bypass or peaking reach.
- There were not enough responses on any one stream to analyze.

The following summarizes the results of the Reservoir Angler Survey organized as follows:

- Hell Hole Reservoir;
- French Meadows Reservoir; and
- Ralston Afterbay.

### **6.3.1 Hell Hole Reservoir**

Of the 213 people that completed Form A-7 – Fishing, 101 people indicated they fished at Hell Hole Reservoir. These people were intercepted in the following locations:

- Hell Hole Boat Ramp and Parking Areas (55);
- Big Meadows Campground (30);
- Upper Hell Hole Campground (5);
- Hell Hole Campground (4);
- Grey Horse DCUA (4);
- Middle Meadows Campground (2); and
- French Meadows Campground (1).

Survey responses provided by these 101 people are tabulated in Table REC 2-35 and are summarized below.

#### **Fishing Effort**

Survey participants were asked to specify the total number of hours they spent fishing at their primary fishing location. A total of 83 respondents provided a valid response to this question. The number of hours people spent fishing at Hell Hole Reservoir averaged 10.8 hours, with a standard deviation of 8.6 hours.

#### **Fishing Location**

Survey participants were asked whether they fished from a boat or the shoreline. A total of 101 people answered this question.

- Eighty people (79.2%) said they fished from a boat.
- Twenty seven people (26.7%) said they fished from the shoreline.

#### **Fishing Gear**

Survey respondents were asked to identify the type of fishing gear they used. Multiple responses were accepted, and some people indicated they fished from both a boat and the shore.

- Eighty anglers said they fished from a boat. Of these, most (87.3%) used troll lures (87.3%), followed by troll bait (54.4%), cast lures (26.6%), cast bait (13.9%), and flies (2.6%).
- Twenty seven anglers said they fished from the shore. Of these, most (70.4%), used cast lures, followed by cast bait (63.0%), and flies (14.8%).

## **Fish Species**

Survey respondents were asked to identify the number of fish they caught, kept, and released, by species. A total of 78 people responded to this question. Multiple answers were accepted.

- Anglers reported catching a total of 451 fish in Hell Hole Reservoir. Of these, over half (51.9%) were kokanee, followed by brown trout (22.4%), rainbow trout (16%), and lake trout (8.0%). Five “other” fish were caught, all of which were mackinaw (lake trout).
- A total of 234 kokanee were caught. Of these, 204 were kept and 30 were released.
- A total of 101 brown trout were caught. Of these 43 were kept and 58 were released.
- A total of 75 rainbow were caught. Of these, 28 were kept and 47 were released.
- A total of 41 lake trout (including the mackinaw) were caught. Of these, 21 were kept and 20 were released.

## **Catch per Unit Effort**

Seventy of the respondents provided enough information to determine catch per unit effort. Based on the information provided by these 70 respondents, catch per unit effort was determined to be 0.6 fish/hour, with a standard deviation of 0.7.

## **Fishing Experience**

Survey participants were asked to rate their satisfaction with a variety of factors related to fishing experience, including: number of fish caught, variety of fishing locations, variety of fish species, size of fish, and road and trail access to fishing areas. The rating scale included three options: acceptable, somewhat acceptable, and not acceptable. The responses to this question are tabulated in Table REC 2-35 and summarized in the following:

- 43.5% of the respondents (40 of 92 people) indicated the number of fish caught was acceptable.
- 70.6% of the respondents (60 of 85 people) indicated the variety of fishing locations was acceptable.
- 73.3% of the respondents (63 of 86 people) indicated the variety of fish species was acceptable.
- 52.4% of the respondents (44 of 84 people) indicated the size of fish caught was acceptable.
- 60.5% of the respondents (52 of 86 people) indicated the road access to fishing areas was acceptable.

- 57.4% of the respondents (39 of 68 people) indicated the trail access to fishing areas was acceptable.

### **Overall Satisfaction**

Survey participants were asked to rate their overall fishing experience using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. The results are tabulated on Table REC 2-35. A total of 98 people answered this question. Of these, 77 people (78.5%) said that were either very satisfied (41.8%) or satisfied (36.7%) with their overall fishing experience.

### **6.3.2 French Meadows Reservoir**

Of the 213 people that completed Form A-7 – Fishing, 63 people indicated they fished at French Meadows Reservoir. These people were intercepted in the following locations:

- French Meadows Boat Ramp and Picnic Area (16);
- French Meadows Campground (12);
- McGuire Boat Ramp, Parking and Picnic Area (12);
- Lewis Campground (9);
- Gates Group Campground (4);
- Coyote Group Campground (3);
- Ahart Campground (2);
- Ralston Afterbay Area (2);
- Poppy Campground (1);
- Middle Meadows Group Campground (1); and
- Hell Hole Boat Ramp and Parking (1).

Survey responses provided by these 63 people are tabulated in Table REC 2-36 and are summarized below.

### **Fishing Effort**

Survey participants were asked to specify the total number of hours they spent fishing at their primary fishing location. A total of 58 respondents provided a valid response to this question. The number of hours people spent fishing at French Meadows Reservoir averaged 7.8 hours, with a standard deviation of 5.8 hours.



## **Fishing Location**

Survey participants were asked whether they fished from a boat or the shoreline. A total of 60 people answered this question.

- Thirty three people (55.0%) said they fished from a boat.
- Thirty five people (58.3%) said they fished from the shoreline.

## **Fishing Gear**

Survey respondents were asked to identify the type of fishing gear they used. Multiple responses were accepted, and some people indicated they fished from both a boat and the shore.

- Thirty three anglers said they fished from a boat. Of these, most used troll lures (81.8%), followed by troll bait (45.5%), cast bait (27.3%), cast lures (21.2%), and flies (6.1%).
- Thirty five anglers said they fished from a boat. Of these, most used cast bait (80.0%), followed by cast lures (48.6%), and flies (2.9%).

## **Fish Species**

Survey respondents were asked to identify the number of fish they caught, kept, and released, by species. A total of 52 people provided a valid response to this question. Multiple answers were accepted.

- Anglers reported catching a total of 192 fish at French Meadows Reservoir. Of these, most of the fish that were caught were rainbow trout (84.4%), followed by brown trout (5.7%), and lake trout (4.2%). Five anglers (5.7%) indicated they were “not sure” what type of fish they caught.
- A total of 162 rainbow trout were caught. Of these, 111 were kept and 51 were released.
- A total of 11 brown trout were caught. Of these, 8 were kept and 3 were released.
- A total of 8 lake trout were caught, all of which were kept.
- All of the unidentified fish were released.

## **Catch per Unit Effort**

Fifty of the respondents provided enough information to determine catch per unit effort. Based on the information provided by these 50 respondents, catch per unit effort was determined to be 0.5 fish/hour, with a standard deviation of 0.5.

## **Fishing Experience**

Survey participants were asked to rate their satisfaction with a variety of factors related to fishing experience, including: number of fish caught, variety of fishing locations,

variety of fish species, size of fish, and road and trail access to fishing areas. The rating scale included three options: acceptable, somewhat acceptable, and not acceptable. The responses to this question are tabulated in Table REC 2-36 and are summarized below.

- 47.5% of the respondents (28 of 59 people) indicated the number of fish caught was acceptable.
- 67.3% of the respondents (37 of 55 people) indicated the variety of fishing locations was acceptable.
- 50.9% of the respondents (28 of 55 people) indicated the variety of fish species was acceptable (%).
- 46.6% of the respondents (27 of 58 people) indicated the size of fish caught was acceptable.
- 64.9% of the respondents (37 of 57 people) indicated the road access to fishing areas was acceptable.
- 59.6% of the respondents (31 of 52 people) indicated the trail access to fishing areas was acceptable.

### **Overall Satisfaction**

Survey participants were asked to rate their overall fishing experience using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. The results are tabulated on Table REC 2-36. A total of 60 people answered this question. Of these, 45 people (75.0%) said that were either very satisfied (43.3%) or satisfied (31.7%) with their overall fishing experience.

### **6.3.3 Ralston Afterbay**

Of the 213 people that completed Form A-7 – Fishing, six people indicated they fished at Ralston Afterbay. All six of these people were intercepted in the vicinity of Ralston Afterbay. The responses provided by these six people are tabulated in Table REC 2-37 and are summarized below.

### **Fishing Effort**

Survey participants were asked to specify the total number of hours they spent fishing at their primary fishing location. Five respondents provided a valid response to this question. The number of hours people spent fishing at Ralston Afterbay averaged 7.4 hours, with a standard deviation of 5.1.

### **Fishing Location**

Survey participants were asked whether they fished from a boat or the shoreline. Six people answered this question.

- Two people (33.3%) said they fished from a boat.
- Four people (66.7%) said they fished from the shoreline.

### **Fishing Gear**

Survey respondents were asked to identify the type of fishing gear they used. Multiple responses were accepted.

- The anglers who fished from a boat indicated they used all of the following gear: troll lures, cast lures, and cast bait.
- All of the anglers who fished from shore indicated they used cast bait. Other responses included cast lures and flies.

### **Fish Species**

Survey respondents were asked to identify the number of fish they caught, kept, and released, by species. Multiple answers were accepted. A total of 5 people provided a valid response to this question.

- Anglers reported catching a total of 12 fish in Ralston Afterbay. Of these, 11 (91.7%) were rainbow trout and one was a brown trout.
- Five of the rainbow trout were kept and six were released.
- The brown trout was released.

### **Catch per Unit Effort**

Four of the respondents provided enough information to determine catch per unit effort. Based on the information provided by these four respondents, catch per unit effort was determined to be 0.6 fish/hour, with a standard deviation of 0.5.

### **Fishing Experience**

Survey participants were asked to rate their satisfaction with a variety of factors related to fishing experience, including: number of fish caught, variety of fishing locations, variety of fish species, size of fish, and road and trail access to fishing areas. The rating scale included three options: acceptable, somewhat acceptable, and not acceptable. The responses to this question are tabulated in Table REC 2-37 and are summarized below.

- 75% of the respondents (3 of 4 people) indicated the number of fish caught was acceptable.
- 75% of the respondents (3 of 4 people) indicated the variety of fishing locations was acceptable.
- 80% of the respondents (4 of 5 people) indicated the variety of fish species was acceptable.
- 60% of the respondents (3 of 5 people) indicated the size of fish caught was acceptable.

- 80% of the respondents (4 of 5 people) indicated the road access to fishing areas was acceptable.
- 80% of the respondents (4 of 5 people) indicated the trail access to fishing areas was acceptable.

### **Overall Satisfaction**

Survey participants were asked to rate their overall fishing experience using a satisfaction scale. The rating scale included five options: very satisfied, satisfied, somewhat satisfied, unsatisfied, and very unsatisfied. The results are tabulated on Table REC 2-37. A total of six people answered this question. Of these, five people (83%) said that were either very satisfied (50%) or satisfied (33.0%) with their overall fishing experience.

### **7.0 LITERATURE CITED**

Placer County Water Agency (PCWA) 2007. Pre-Application Document. Middle Fork American River Project. FERC Project No. 2079.

PCWA. 2009. Draft REC 4 – Stream-based Recreation Opportunities Technical Study Report.

### **Reports in Preparation**

PCWA. 2009a. REC 1 – Recreation Use and Facilities Technical Study Report.

PCWA. 2009b. REC 3 – Reservoir Recreation Opportunities Technical Study Report.

**TABLES**

FINAL

**Table REC 2-1. Recreation Visitor Survey Locations.**

<b>Project Recreation Facilities</b>
<b>French Meadows Area</b>
Ahart Campground
Coyote Group Campground
Poppy Campground
French Meadows Campground
Gates Group Campground
Lewis Campground
French Meadows Picnic Area
McGuire Picnic Area
French Meadows Boat Ramp
McGuire Boat Ramp
Dolly Creek Water Supply
French Meadows Campground Water Supply
<b>Hell Hole Area</b>
Big Meadows Campground
Hell Hole Campground
Upper Hell Hole Campground
Hell Hole Vista
Hell Hole General Parking Area
Hell Hole Boat Ramp Parking Area
Hell Hole Boat Ramp
Big Meadows Campground Water Supply
<b>Ralston Afterbay Area</b>
Ralston Picnic Area
Ralston Picnic Area Cartop Boat Ramp
Indian Bar Rafting Access and General Parking
<b>Long Canyon Area</b>
Middle Meadows Group Campground
Middle Meadows Group Campground Water Supply
<b>Dispersed Concentrated Use Areas</b>
<b>French Meadows Reservoir Area</b>
Area near French Meadows-Hell Hole Tunnel Gatehouse
Area immediately downstream of French Meadows Dam (both sides of river)
Area located immediately northwest of French Meadows Dam
Area near bridge over the Middle Fork American River, upstream French Meadows Reservoir
<b>Duncan Creek Diversion Dam Area</b>
Area on north side of Duncan Creek Diversion Dam
Area near Duncan Creek Gage and Weir, upstream of Duncan Creek Diversion Dam
Area near new bridge crossing Duncan Canyon on the road to the Grizzly, etc.
<b>Hell Hole Reservoir Area</b>
Area on west side of Hell Hole Reservoir, between dam and Hell Hole Boat Ramp
Grey Horse Area
<b>Long Canyon Area</b>
Area surrounding South Fork Long Canyon Diversion Dam
Areas along South Fork Long Canyon Creek, downstream of South Fork Long Canyon Diversion Dam
<b>Middle Fork Interbay Area</b>
Shoreline area surrounding Middle Fork Interbay

**Table REC 2-1. Recreation Visitor Survey Locations (continued).**

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**Dispersed Concentrated Use Areas (continued)**

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<b>Ralston Afterbay Area</b>
Ralston Afterbay Sediment Disposal Area
Shoreline area surrounding Ralston Afterbay
Area along Middle Fork American River, between Ralston Picnic Area and the new gage
Area at confluence of North Fork of the Middle Fork American River and Middle Fork American River
Indian Bar, Willow Bar, and Junction Bar Areas

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**Auburn State Recreation Area Sites**

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<b>Middle Fork American River Downstream of Oxbow Powerhouse</b>
Indian Bar Rafting Access and General Parking (also included under Project Recreation Facilities, above)
Ruck-a-Chucky (also known as Drivers Flat, Greenwood and Greenwood Bridge)
Mammoth Bar/Murderer's Bar
Confluence Area (Middle Fork and North Fork American River Confluence)
Birdsall Access/Oregon Bar Access

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**Table REC 2-2. Information to be Developed through Recreation User Surveys.**

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**General User Information**

- Characterize recreation users
  - County of origin (in County versus out of County)
  - Local versus regional spending
  - Number of people in your total group
  - Number in people in your immediate group
  - Number and type of vehicles in group
  - What languages do you speak in your group
  - Ethnicity of group
  - Types of toys
  - Age
  - Income level
  - Gender
- Trip Profiles
  - Timing of visit
  - Primary destination
  - Project recreation sites visited
  - Other developed recreation sites visited
  - Dispersed areas visited
  - Trip length
  - Duration of stay by site
  - Pattern of use
  - How many times do you visit this site per year?
  - Why did you choose this location?
  - How has your experience changed over time?
  - What other areas in the Watershed have you used in the past?
  - How did you get information about the area?
  - Was the information sufficient?
  - How do you prefer to get information?
  - How did you get to this area?
  - Was the access adequate?
  - Season of use
- Characterize use by type of site (developed overnight, group, developed day use, dispersed)
  - Primary activities by type (for example, camping, day use, picnicking, fishing, hunting, hiking, swimming, wading, boating, mining, OHV use)
  - Other activities by type
  - Duration by activity type
  - Characterize use of OHVs in the vicinity of the Project
- Characterize visitor preferences for improvements by visitor type (e.g., overnight, day use, group)
  - Existing Project recreation facilities
  - Dispersed concentrated use areas (e.g. need for sanitation or other improvements related to health and safety )
  - What types of activities would you participate in, if available
  - What other types of recreational opportunities would you like



**Table REC 2-2. Information to be Developed through Recreation User Surveys (continued).**

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**Potential Issues Related to Reservoir Recreation**

- Adequacy and maintenance of recreation support facilities (e.g., boat ramps, parking areas, bathrooms, beaches, picnic areas, campgrounds)
- Adequacy of Safety Signage and other public safety features
- Adequacy and/or need for interpretive information
- Relationship between water surface elevation (WSE), user satisfaction, ability to participate in activities, and timing of visitation.
- Adequacy of shoreline access from developed facilities for specific recreation activities
- Potential user conflicts (i.e., overall crowding or conflicts between competing recreation uses)
- Concentration of debris, stumps, etc.)
- Adequacy of publicly available WSE information
- Satisfaction and preferences
- Sense of safety and security

**Potential Issues Related to Stream-based Recreation**

- Adequacy of recreation support facilities (e.g., parking areas, bathrooms, picnic areas, campgrounds)
- Adequacy of Safety Signage and other public safety features
- Adequacy and/or need for interpretive Information
- Relationship between flow (timing, duration, magnitude) and user satisfaction and safety
- Adequacy of access
- Potential user conflicts (i.e., overall crowding or conflicts between competing recreation uses)

**Potential Issues Related to Stream-based Recreation (continued)**

- Adequacy, functionality, and safety of trail crossings along the Rubicon River and Middle Fork American River over a range of river flows
- Adequacy of publicly available flow and safety information
- Visitor understanding of what kind of information is available and where it is available
- How is flow information obtained
- Adequacy of information about access to the river and recreation opportunities (motorized and non-motorized)
- Satisfaction and preferences
- Sense of safety and security

**Table REC 2-2. Information to be Developed through Recreation User Surveys  
(continued).**

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**Potential Issues Related to Developed Recreation Facilities**

- Adequacy of amenities and access at developed Project recreation facilities (e.g., boat ramps, parking areas, bathrooms, beaches, picnic areas, campgrounds, number of group campgrounds, size and availability of RV parking, proximity to water)
- Adequacy of current maintenance practices
- Potential user conflicts (i.e., overall crowding or conflicts between competing recreation uses)
- Adequacy of Safety Signage and other public safety features
- Adequacy and/or need for interpretive information
- Identify whether people using Project recreation facilities disperse to other undeveloped locations, where those locations are, and why
- Satisfaction and preferences
- Adequacy of potable water availability
- Sense of safety and security

**Potential Issues Related to Dispersed Concentrated Use Areas**

- Identify potential user conflicts (i.e., conflicts between competing recreation uses)
- Adequacy and/or need for Safety Signage and other public safety features
- Adequacy and/or need for interpretive information
- Characterize need for basic support facilities (e.g., parking, toilets, trash receptacles, patrols)
- Identify whether people using dispersed concentrated use areas visit developed Project recreation facilities
- Characterize displaced use if access is restricted.
- Satisfaction and preferences
- Sense of safety and security

**Table REC 2-3. Turnover Rate Originally Applied to Vehicle Count Data to Determine Survey Effort. (Not based on actual survey results.)**

	Site ID	Description	Turnover Rate
<b>No/Low Turnover</b> Use at site is for extended period, all-day, or multi-day recreation. During the course of a recreation day there is no expected vehicle turnover.	L6	Cherokee Bar Overlook (from Drivers Flat Rd)	1
	L8	Ruck-a-Chucky Day-use gate upstream of Ruck-a-Chucky Day-use Boater Access	1
	U11	McGuire Picnic Area	1
	U12	McGuire Boat Ramp	1
	U13	Vista/Trailhead to Poppy Campground	1
	U17	Hell Hole Boat Ramp Parking Areas	1
	U18	Hell Hole Boat Ramp	1
	U2	Area near Duncan Creek Gage and Weir	1
	U3	Area near new bridge crossing Duncan Creek	1
		Ahart Campground	1
		Coyote Group Campground	1
		Poppy Campground	1
		French Meadows Campground	1
		Gates Group Campground	1
		Lewis Campground	1
		Middle Meadow's Campground	1
	Big Meadow's Campground	1	
	Hell Hole Campground	1	
<b>Moderate Turnover</b> Use at site is for less than full-day recreation. During the course of a recreation day there is an expected vehicle turnover twice during the recreation day.	L1	Indian Bar Rafting Access and General Parking	2
	L10	Confluence Area	2
	L11	Quarry Trail Parking Area	2
	L2	Ralston Picnic Area	2
	L3	Ralston Picnic Area Cartop Boat Ramp	2
	L4	Ralston Powerhouse Parking Turnout	2
	L7	Ruck-a-Chucky Day-use Boater Access (Drivers Flat, Greenwood Bridge)	2
	L9	Mammoth Bar	2
	U10	Area near bridge over MFAR (U10a) and turnouts along road across from Lewis CG (U10b)	2
	U16	Hell Hole General Parking Area	2
	U5	Area located immediately west of FM Reservoir (near spillway)	2
	U6	Area located immediately downstream of FM Reservoir Dam (parking near gate)	2
	U7	Area near FM-HH Tunnel Gatehouse (includes turnouts along FR 96 from dam to east of gatehouse)	2
U8	French Meadow Picnic Area (U8a) and Boat Ramp (U8b)	2	
U9	Turnouts along FR 96 between FM Boat Ramp and Bridge crossing MFAR	2	
<b>High Turnover</b> Use at site is for short-duration recreation. During the course of a recreation day there is an expected vehicle turnover four times during the recreation day.	L5	Ralston Afterbay Sediment Disposal Area	4
	U1	Area north of Duncan Creek Diversion	4
	U14	Area surrounding South Long Canyon Diversion Dam (U14a) and turnouts along FR 2 to NF Long Canyon Dam turnout (U14b)	4
	U15	Hell Hole Vista	4
	U4	Large areas on road west of FM Reservoir	4

**Table REC 2-4. General Visitor and Reservoir Angler Survey Sampling Effort.**

Site Description	Target No. of Holidays	Target No. of Weekend Days	Target No. of Weekdays	Total No. of Sampling Days	Sampling Error
<b>Individual Sites - Statistical Survey</b>					
Mammoth Bar	0.8	4.7	11.4	16.9	10.0%
Ahart Campground	1.1	6.2	15.0	22.3	10.0%
Coyote/Gates Group Campgrounds**	0.2	1.1	2.8	4.1	10.0%
French Meadows Campground	0.2	1.0	2.3	3.4	10.0%
Lewis Campground	0.6	3.6	8.8	13.0	10.0%
Middle Meadow's Campground**	1.7	7.1	16.3	25.1	10.0%
Big Meadow's Campground	1.2	6.6	16.1	23.9	10.0%
French Meadow Picnic Area (U8a) and Boat Ramp (U8b)	0.7	3.0	7.3	11.0	10.0%
<b>Grouped Sites - Statistical Survey</b>					
Confluence Area Quarry Trail Parking Area	0.1	0.3	0.6	1.0	10.0%
Ruck-a-Chucky Day-use Boater Access (Drivers Flat, Greenwood Bridge) Ruck-a-Chucky Day-use at gate upstream of Ruck-a-Chucky Day-use Boater Access	0.7	4.1	9.9	14.7	10.0%
Hell Hole General Parking Area Hell Hole Boat Ramp Parking Areas Hell Hole Boat Ramp	1.0	4.6	15.4	21.0	10.0%
<b>Grouped Sites - Qualitative Survey</b>					
Indian Bar Rafting Access and General Parking Ralston Picnic Area Ralston Picnic Area Cartop Boat Ramp Ralston Powerhouse Parking Turnout	1	6	0	7	NA
Birdsall Access/Oregon Bar Access	1	6	0	7	NA
Area North of Duncan Creek Diversion Area Near Duncan Creek Gage and Weir Area near new bridge crossing Duncan Creek	1	6	0	7	NA
Large Areas on road west of FM Reservoir Area located immediately west of FM Reservoir (near spillway)	1	6	0	7	NA
McGuire Picnic Area McGuire Boat Ramp Parking/Trailhead to Poppy Campground	1	6	0	7	NA
Poppy Campground	1	6	0	7	NA
Hell Hole Campground	1	6	0	7	NA
Grey Horse Area Upper Hell Hole Campground	1	6	0	7	NA

Notes:

\*\*Survey efforts at group campgrounds were coordinated with USDA-FS staff to ensure that surveys were conducted when sites were reserved.

**Table REC 2-5. Original Sampling Schedule - General Visitor Survey (Form A) and Reservoir Angler Survey.**

Site Description	May 2008		
	24	25	26
<b>Individual Sites - Statistical Survey</b>			
Mammoth Bar			
Ahart Campground			
Coyote /Gates Group Campground**			
French Meadows Campground			
Lewis Campground			
Middle Meadow's Campground**			
Big Meadow's Campground			
French Meadow Picnic Area (U8a) and Boat Ramp (U8b)			
<b>Grouped Sites - Statistical Survey</b>			
Confluence Area			
Quarry Trail Parking Area			
Ruck-a-Chucky Day-use Boater Access (Drivers Flat, Greenwood Bridge)			
Ruck-a-Chucky Day-use at gate upstream of Ruck-a-Chucky Day-use Boater Access			
Hell Hole General Parking Area			
Hell Hole Boat Ramp Parking Areas			
Hell Hole Boat Ramp			
<b>Grouped Sites - Qualitative Survey</b>			
Indian Bar Rafting Access and General Parking			
Ralston Picnic Area			
Ralston Picnic Area Cartop Boat Ramp			
Ralston Powerhouse Parking Turnout			
Birdsall Access/Oregon Bar Access			
Area North of Duncan Creek Diversion			
Area Near Duncan Creek Gage and Weir			
Area near new bridge crossing Duncan Creek			
Large Areas on road west of FM Reservoir			
Area located immediately west of FM Reservoir (near spillway)			
McGuire Picnic Area			
McGuire Boat Ramp			
Parking/Trailhead to Poppy Campground			
Poppy Campground			
Hell Hole Campground			
Grey Horse Area			
Upper Hell Hole Campground			
	5	5	5

Notes:

\*\*Sampling dates at group campgrounds were adjusted to ensure that surveys were conducted when sites were reserved.

Originally scheduled survey days

Table REC 2-5. Original Sampling Schedule - General Visitor Survey (Form A) and Reservoir Angler Survey (continued).

Site Description	June 2008																														
	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	
<b>Individual Sites - Statistical Survey</b>																															
Mammoth Bar																															
Ahart Campground																															
Coyote /Gates Group Campground**																															
French Meadows Campground																															
Lewis Campground																															
Middle Meadow's Campground**																															
Big Meadow's Campground																															
French Meadow Picnic Area (U8a) and Boat Ramp (U8b)																															
<b>Grouped Sites - Statistical Survey</b>																															
Confluence Area																															
Quarry Trail Parking Area																															
Ruck-a-Chucky Day-use Boater Access (Drivers Flat, Greenwood Bridge)																															
Ruck-a-Chucky Day-use at gate upstream of Ruck-a-Chucky Day-use Boater Access																															
Hell Hole General Parking Area																															
Hell Hole Boat Ramp Parking Areas																															
Hell Hole Boat Ramp																															
<b>Grouped Sites - Qualitative Survey</b>																															
Indian Bar Rafting Access and General Parking																															
Ralston Picnic Area																															
Ralston Picnic Area Cartop Boat Ramp																															
Ralston Powerhouse Parking Turnout																															
Birdsall Access/Oregon Bar Access																															
Area North of Duncan Creek Diversion																															
Area Near Duncan Creek Gage and Weir																															
Area near new bridge crossing Duncan Creek																															
Large Areas on road west of FM Reservoir																															
Area located immediately west of FM Reservoir (near spillway)																															
McGuire Picnic Area																															
McGuire Boat Ramp																															
Parking/Trailhead to Poppy Campground																															
Poppy Campground																															
Hell Hole Campground																															
Grey Horse Area																															
Upper Hell Hole Campground																															

Notes: 5 4 4 2 2 0 6 5 4 5 2 2 0 6 6 4 3 3 3 0 6 5 4 3 3 3 0 6 4 6

\*\*Sampling dates at group campgrounds were adjusted to ensure that surveys were conducted when sites were reserved.

Originally scheduled survey days

**Table REC 2-5. Original Sampling Schedule - General Visitor Survey (Form A) and Reservoir Angler Survey (continued).**

Site Description	July 2008																															
	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	
<b>Individual Sites - Statistical Survey</b>																																
Mammoth Bar	■			■	■	■			■	■		■	■		■	■			■	■			■			■	■					
Ahart Campground	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■			■	■		■	■			■	■	■	■		
Coyote/Gates Group Campground**				■	■	■	■	■	■	■																						
French Meadows Campground				■	■	■	■	■	■	■																						
Lewis Campground				■	■	■	■	■	■	■																						
Middle Meadow's Campground**	■	■	■	■	■	■	■	■	■	■																						
Big Meadow's Campground		■	■	■	■	■	■	■	■	■																						
French Meadow Picnic Area (U8a) and Boat Ramp (U8b)			■	■	■	■	■	■	■	■																						
<b>Grouped Sites - Statistical Survey</b>																																
Confluence Area																																
Quarry Trail Parking Area																																
Ruck-a-Chucky Day-use Boater Access (Drivers Flat, Greenwood Bridge)	■																															
Ruck-a-Chucky Day-use at gate upstream of Ruck-a-Chucky Day-use Boater Access																																
Hell Hole General Parking Area		■	■	■	■	■	■	■	■	■																						
Hell Hole Boat Ramp Parking Areas		■	■	■	■	■	■	■	■	■																						
Hell Hole Boat Ramp		■	■	■	■	■	■	■	■	■																						
<b>Grouped Sites - Qualitative Survey</b>																																
Indian Bar Rafting Access and General Parking				■	■	■	■	■	■	■																						
Ralston Picnic Area				■	■	■	■	■	■	■																						
Ralston Picnic Area Cartop Boat Ramp				■	■	■	■	■	■	■																						
Ralston Powerhouse Parking Turnout				■	■	■	■	■	■	■																						
Birdsall Access/Oregon Bar Access																																
Area North of Duncan Creek Diversion																																
Area Near Duncan Creek Gage and Weir																																
Area near new bridge crossing Duncan Creek																																
Large Areas on road west of FM Reservoir																																
Area located immediately west of FM Reservoir (near spillway)																																
McGuire Picnic Area																																
McGuire Boat Ramp																																
Parking/Trailhead to Poppy Campground																																
Poppy Campground																																
Hell Hole Campground																																
Grey Horse Area																																
Upper Hell Hole Campground																																

Notes:  
 \*\*Sampling dates at group campgrounds were adjusted to ensure that surveys were conducted when sites were reserved.

■ Originally scheduled survey days






**Table REC 2-5. Original Sampling Schedule - General Visitor Survey (Form A) and Reservoir Angler Survey (continued).**

Site Description	Sept 2008
	1
<b>Individual Sites - Statistical Survey</b>	
Mammoth Bar	
Ahart Campground	
Coyote/Gates Group Campground**	
French Meadows Campground	
Lewis Campground	
Middle Meadow's Campground**	
Big Meadow's Campground	
French Meadow Picnic Area (U8a) and Boat Ramp (U8b)	
<b>Grouped Sites - Statistical Survey</b>	
Confluence Area	
Quarry Trail Parking Area	
Ruck-a-Chucky Day-use Boater Access (Drivers Flat, Greenwood Bridge)	
Ruck-a-Chucky Day-use at gate upstream of Ruck-a-Chucky Day-use Boater Access	
Hell Hole General Parking Area	
Hell Hole Boat Ramp Parking Areas	
Hell Hole Boat Ramp	
<b>Grouped Sites - Qualitative Survey</b>	
Indian Bar Rafting Access and General Parking	
Ralston Picnic Area	
Ralston Picnic Area Cartop Boat Ramp	
Ralston Powerhouse Parking Turnout	
Birdsall Access/Oregon Bar Access	
Area North of Duncan Creek Diversion	
Area Near Duncan Creek Gage and Weir	
Area near new bridge crossing Duncan Creek	
Large Areas on road west of FM Reservoir	
Area located immediately west of FM Reservoir (near spillway)	
McGuire Picnic Area	
McGuire Boat Ramp	
Trailhead/Parking to Poppy Campground	
Poppy Campground	
Hell Hole Campground	
Grey Horse Area	
Upper Hell Hole Campground	

Notes:

\*\*Sampling dates at group campgrounds were adjusted to ensure that surveys were conducted when sites were reserved.

 Originally scheduled survey days

**Table REC 2-6. Actual Sampling Schedule - General Visitor Survey (Form A) and Reservoir Angler Survey.**

Site Description	May 2008		
	24	25	26
<b>Individual Sites - Statistical Survey</b>			
Mammoth Bar			
Ahart Campground			
Coyote /Gates Group Campground**			
French Meadows Campground			
Lewis Campground			
Middle Meadow's Campground**			
Big Meadow's Campground			
French Meadow Picnic Area (U8a) and Boat Ramp (U8b)			
<b>Grouped Sites - Statistical Survey</b>			
Confluence Area			
Quarry Trail Parking Area			
Ruck-a-Chucky Day-use Boater Access (Drivers Flat, Greenwood Bridge)			
Ruck-a-Chucky Day-use at gate upstream of Ruck-a-Chucky Day-use Boater Access			
Hell Hole General Parking Area			
Hell Hole Boat Ramp Parking Areas			
Hell Hole Boat Ramp			
<b>Grouped Sites - Qualitative Survey</b>			
Indian Bar Rafting Access and General Parking			
Ralston Picnic Area			
Ralston Picnic Area Cartop Boat Ramp			
Ralston Powerhouse Parking Turnout			
Birdsall Access/Oregon Bar Access			
Area North of Duncan Creek Diversion			
Area Near Duncan Creek Gage and Weir			
Area near new bridge crossing Duncan Creek			
Large Areas on road west of FM Reservoir			
Area located immediately west of FM Reservoir (near spillway)			
McGuire Picnic Area			
McGuire Boat Ramp			
Parking/Trailhead to Poppy Campground			
Poppy Campground			
Hell Hole Campground			
Grey Horse Area			
Upper Hell Hole Campground			
	5	5	5

Notes:

\*\*Sampling dates at group campgrounds were adjusted to ensure that surveys were conducted when sites were reserved.

Originally scheduled survey days
 
X Cancelled or rescheduled survey days
 

 Additional survey days

Table REC 2-6. Actual Sampling Schedule - General Visitor Survey (Form A) and Reservoir Angler Survey (continued).

Site Description	June 2008																														
	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	
<b>Individual Sites - Statistical Survey</b>																															
Mammoth Bar																															
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French Meadow Picnic Area (U8a) and Boat Ramp (U8b)																															
<b>Grouped Sites - Statistical Survey</b>																															
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Hell Hole Boat Ramp																															
<b>Grouped Sites - Qualitative Survey</b>																															
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McGuire Boat Ramp																															
Parking/Trailhead to Poppy Campground																															
Poppy Campground																															
Hell Hole Campground																															
Grey Horse Area																															
Upper Hell Hole Campground																															

Notes:  
 \*\*Sampling dates at group campgrounds were adjusted to ensure that surveys were conducted when sites were reserved.  
 [Blue square] Originally scheduled survey days    [X] Cancelled or rescheduled survey    [Orange square] Additional survey days

Table REC 2-6. Actual Sampling Schedule - General Visitor Survey (Form A) and Reservoir Angler Survey (continued).

Site Description	July 2008																															
	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	
<b>Individual Sites - Statistical Survey</b>																																
Mammoth Bar	X					X			X		X																X	X				
Ahart Campground	X	X				X																										
Coyote/Gates Group Campground**																																
French Meadows Campground																																
Lewis Campground																																
Middle Meadow's Campground**						X																										
Big Meadow's Campground																																
French Meadow Picnic Area (U8a) and Boat Ramp (U8b)																																
<b>Grouped Sites - Statistical Survey</b>																																
Confluence Area																																
Quarry Trail Parking Area																																
Ruck-a-Chucky Day-use Boater Access (Drivers Flat, Greenwood Bridge)	X																															
Ruck-a-Chucky Day-use at gate upstream of Ruck-a-Chucky Day-use Boater Access																																
Hell Hole General Parking Area																																
Hell Hole Boat Ramp Parking Areas																																
Hell Hole Boat Ramp																																
<b>Grouped Sites - Qualitative Survey</b>																																
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Ralston Picnic Area Cartop Boat Ramp																																
Ralston Powerhouse Parking Turnout																																
Birdsall Access/Oregon Bar Access																																
Area North of Duncan Creek Diversion																																
Area Near Duncan Creek Gage and Weir																																
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Parking/Trailhead to Poppy Campground																																
Poppy Campground																																
Hell Hole Campground																																
Grey Horse Area																																
Upper Hell Hole Campground																																

Notes: 4 4 6 8 10 10 5 4 5 3 0 10 10 6 6 5 5 0 9 9 6 5 5 4 0 10 10 5 4 4 4

\*\*Sampling dates at group campgrounds were adjusted to ensure that surveys were conducted when sites were reserved.

Originally scheduled survey days X Cancelled or rescheduled survey days Additional survey days



**Table REC 2-6. Actual General Visitor (Form A) Survey and Reservoir Angler Survey Sampling Schedule (continued).**

Site Description	Sept 2008
	1
<b>Individual Sites - Statistical Survey</b>	
Mammoth Bar	
Ahart Campground	
Coyote/Gates Group Campground**	
French Meadows Campground	
Lewis Campground	
Middle Meadow's Campground**	
Big Meadow's Campground	
French Meadow Picnic Area (U8a) and Boat Ramp (U8b)	
<b>Grouped Sites - Statistical Survey</b>	
Confluence Area Quarry Trail Parking Area	
Ruck-a-Chucky Day-use Boater Access (Drivers Flat, Greenwood Bridge) Ruck-a-Chucky Day-use at gate upstream of Ruck-a-Chucky Day-use Boater Access	
Hell Hole General Parking Area Hell Hole Boat Ramp Parking Areas Hell Hole Boat Ramp	
<b>Grouped Sites - Qualitative Survey</b>	
Indian Bar Rafting Access and General Parking Ralston Picnic Area Ralston Picnic Area Cartop Boat Ramp Ralston Powerhouse Parking Turnout	
Birdsall Access/Oregon Bar Access	
Area North of Duncan Creek Diversion Area Near Duncan Creek Gage and Weir Area near new bridge crossing Duncan Creek	
Large Areas on road west of FM Reservoir Area located immediately west of FM Reservoir (near spillway)	
McGuire Picnic Area McGuire Boat Ramp Trailhead/Parking to Poppy Campground	
Poppy Campground	
Hell Hole Campground	
Grey Horse Area Upper Hell Hole Campground	

Notes:

\*\*Sampling dates at group campgrounds were adjusted to ensure that surveys were conducted when sites were reserved.

■ Originally scheduled survey days   
✗ Cancelled or rescheduled survey days   
■ Additional survey days

**Table REC 2-7. Required Schedule Adjustments during Survey Period.**

<b>Reason for Adjustment</b>	<b>Recreation Site(s)</b>	<b>Original Schedule Date(s)</b>	<b>Schedule Adjustment</b>
Road Closure	Birdsall Access/ Oregon Bar Access	6/5	Rescheduled 6/21
Wildfire	Indian Bar/Ralston	6/22	Cancelled
	Ahart CG	6/23	
	Big Meadows CG/ Ahart CG/Coyote CG/ Gates CG	6/24	
	Big Meadow CG/ Hell Hole BR and Parking	6/25	
	Middle Meadows Campground	6/26	
	Mammoth Bar and Ruck-a-Chucky	7/1	
	Indian Bar/Ralston	7/4	
Logistical Issues with Boat	Upper Hell Hole CG/ Grey Horse Area	6/15	Rescheduled 6/29
	Upper Hell Hole CG/ Grey Horse Area	7/19	Rescheduled 7/20
Vehicle Malfunction	Area West of French Meadows Dam	6/8	Rescheduled 6/15
Staff Illness	Coyote/Gates CGs	6/28	Rescheduled 7/12
	Lewis CGs	7/26	Rescheduled 7/27

**Table REC 2-8. Developed Recreation Sites and DCUAs in each Geographic Region.**

<b>Hell Hole Reservoir Area</b>	
Campgrounds	Big Meadows Campground
	Hell Hole Campground
	Upper Hell Hole Campground
Day Use Areas	Hell Hole Boat Ramp and Associated Parking Areas
	Hell Hole Vista
DCUAs	Grey Horse Area
	Area on west side of Hell Hole Reservoir, between dam and Hell Hole Boat Ramp
<b>French Meadows Reservoir Area</b>	
Campgrounds	Ahart Campground
	French Meadows Campground
	Lewis Campground
	Poppy Campground
Group Campgrounds	Coyote Group Campground
	Gates Group Campground
Day Use Areas	French Meadows Picnic Area
	French Meadows Boat Ramp
	McGuire Picnic Area
	McGuire Boat Ramp (Including Poppy Trailhead Parking Area)
DCUAs	Area near bridge over the Middle Fork American River, upstream of French Meadows Reservoir
	Area near French Meadows-Hell Hole Tunnel Gatehouse
	Area immediately downstream of French Meadows Dam (both sides of river)
	Area located immediately northwest of French Meadows Dam
<b>Long Canyon Area</b>	
Campgrounds	Middle Meadows Campground
<b>Duncan Creek Area</b>	
DCUAs	Area North of Duncan Creek Diversion
	Area Near Duncan Creek Gage and Weir
	Area Near New Bridge Crossing Duncan Creek
<b>Ralston Afterbay Area</b>	
Day Use Areas	Indian Bar Rafter Access and General Parking
	Ralston Picnic Area
	Ralston Picnic Area Cartop Boat Ramp
DCUAs	Ralston Powerhouse Parking Turnout
<b>ASRA Area</b>	
Day Use Areas	Ruck-a-Chucky Day-use Boater Access
	Ruck-a-Chucky at gate upstream of Ruck-a-Chucky Day-Use Boater Access
	Mammoth Bar
	Confluence Area
	Quarry Trail Parking Area
	Birdsall Access/Oregon Bar Access (China Bar)




**Table REC 2-9. Sampling Schedule - General Visitor Survey (Form B).**

June 2008						
S	S	M	T	W	T	F
	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				

July 2008						
S	S	M	T	W	T	F
			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	

August 2008						
S	S	M	T	W	T	F
						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					

 Form B survey days

**Table REC 2-10. Number of Form A Surveys and Sections Completed by Site and Associated Confidence Levels.**

Site Description	Number of People Intercepted	Number of People who Previously Completed Surveys	Number of Potential Respondents <sup>1</sup>	Number of Completed Surveys (Section 1A) <sup>2</sup>	Participation Rate <sup>3</sup>	Confidence Level for +/- 10% Margin of Error <sup>4</sup>
<b>Individual Sites - Statistical Survey</b>						
Mammoth Bar	61	1	60	30	50%	70%
Ahart Campground	109	23	86	43	50%	80%
Coyote /Gates Group Campground **	95	13	82	59	72%	85%
French Meadows Campground	193	38	155	85	55%	90%
Lewis Campground	90	26	64	45	70%	80%
Middle Meadow's Campground **	79	1	78	51	65%	85%
Big Meadow's Campground	157	23	134	93	69%	95%
French Meadow Picnic Area (U8a) and Boat Ramp (U8b)	97	13	84	42	50%	80%
<b>Grouped Sites - Statistical Survey</b>						
Confluence Area Quarry Trail Parking Area	181	8	173	108	62%	95%
Ruck-a-Chucky Day-use Boater Access (Drivers Flat, Greenwood Bridge) Ruck-a-Chucky Day-use at gate upstream of Ruck-a-Chucky Day-use Boater Access	201	18	183	116	63%	95%
Hell Hole General Parking Area Hell Hole Boat Ramp Parking Areas Hell Hole Boat Ramp	182	30	152	101	66%	95%
<b>Grouped Sites - Qualitative Survey</b>						
Indian Bar Rafting Access and General Parking Ralston Picnic Area Ralston Picnic Area Cartop Boat Ramp Ralston Powerhouse Parking Turnout	94	0	94	58	62%	NA
Birdsall Access/Oregon Bar Access	62	1	61	29	48%	NA
Area North of Duncan Creek Diversion Area Near Duncan Creek Gage and Weir Area near new bridge crossing Duncan Creek	16	4	12	5	42%	NA
Large Areas on road west of FM Reservoir Area located immediately west of FM Reservoir (near spillway)	2	2	0	0	NA	NA
McGuire Picnic Area McGuire Boat Ramp Parking/Trailhead to Poppy Campground	69	2	67	36	54%	NA
Poppy Campground	8	0	8	6	75%	NA
Hell Hole Campground	52	12	40	33	83%	NA
Grey Horse Area Upper Hell Hole Campground	42	3	39	28	72%	NA
<b>TOTALS</b>	<b>1790</b>	<b>218</b>	<b>1572</b>	<b>968</b>	<b>62%</b>	<b>NA</b>

## Notes:

<sup>1</sup>Potential Respondents = Number of people intercepted - Number of people who previously completed surveys

<sup>2</sup>Number of Completed Surveys = Number of people who completed Section 1-A of Form A. In most cases, these respondents also completed one or more additional Sections (A-2 thru A-7).

<sup>3</sup>Participation Rate = Number of completed surveys/number of potential respondents

<sup>4</sup>The target number of surveys to be completed was based on achieving a 95% confidence level with a standard error of 10%. This target was based on use levels derived from Forest Service occupancy records and summer vehicle counts conducted in 2007, which were adjusted by a turnover factor, depending upon site. Actual turnover factors were much lower than expected. The confidence levels shown in this table were calculated using the 2007 use data but the turnover factors were adjusted based on the turnover rates determined through the 2008 visitor surveys. Confidence levels are rounded down to the nearest 5%.

\*\*Survey efforts at group campgrounds were coordinated with USDA-FS staff to ensure that surveys were conducted when sites were reserved.

**Table REC 2-11. General Visitor Survey Results – Section A-1 – Background Section – Hell Hole Reservoir Area.**

The Hell Hole Reservoir Area includes the following developed Project recreation facilities and DCUAs identified by the stakeholders:

Campgrounds

- Big Meadows Campground
- Hell Hole Campground
- Upper Hell Hole Campground

Day Use Areas

- Hell Hole Boat Ramp and Associated Parking Areas
- Hell Hole Vista

DCUAs

- Area on west side of Hell Hole Reservoir, between dam and Hell Hole Boat Ramp
- Grey Horse Area

**Q-1.** Did you engage in any of the following activities during your visit?

Total # of Respondents	Activity	Frequency	Percent
255	Camping at a developed site	166	65.1
	Fishing	126	49.4
	Reservoir recreation	84	32.9
	Day use or camping in undeveloped areas	29	11.4
	Day use along a stream/river	13	5.1
	Day use at a developed site	12	4.7

Analytical Note: Multiple responses were accepted.

**Q-2.** What type of vehicle did you drive to this area?

Total # of Respondents	Type of Vehicle	Frequency	Percent
247	Car/SUV/Truck	222	89.9
	Camper/RV	18	7.3
	Motorcycle	3	1.2
	Other	4	1.6

**Table REC 2-11. General Visitor Survey Results – Section A-1 – Background Section – Hell Hole Reservoir Area (continued).**

**Q-3.** How many people were in your vehicle?

Total # of Respondents	Average # of people	Standard Deviation	Range (min.-max.)	Total # of People	Frequency	Percent
250	2.7	1.7	1-18	1	31	12.4
				2	122	48.8
				3	35	14.0
				4 or more	62	24.8

**Q-4.** How many people in your group are in the following age categories?

Total # of Respondents	Age Category	Percent
250	Under 18	19.4%
	18 or over	80.6%

**Q-5.** How many and what types of vehicles and trailers did your **group** bring?

Total # of Respondents	Vehicle or Trailer	Frequency <sup>1</sup>	Percent <sup>1</sup>	Average # per group <sup>2</sup>
242	Car/pickup/SUV	218	90.1	1.8
	Boat trailer	83	34.3	1.2
	Towed/Trailer Vehicle	22	9.1	1.2
	Motor home/RV	13	5.4	1.2
	Travel trailer	7	3.0	1.0
	OHV	6	2.5	1.0
	Motorcycle	3	1.2	2.3
	Utility trailer	2	0.8	1.0
	Horse trailer	1	0.4	1.0
	Other	3	1.2	1.0

<sup>1</sup>Includes all responses.

<sup>2</sup>Includes only responses that provided the number of vehicles in their group.

**Table REC 2-11. General Visitor Survey Results – Section A-1 – Background Section – Hell Hole Reservoir Area (continued).****Q-6.** Your place of residence (zip code):

Total # of Respondents	County in California	Frequency	Percent
244	Placer	58	23.8
	Sacramento	57	23.4
	El Dorado	46	18.9
	Alameda	14	5.7
	Nevada	9	3.7
	Sonoma	9	3.7
	Yolo	9	3.7
	Contra Costa	8	3.3
	San Mateo	7	2.9
	Santa Clara	4	1.6
	Santa Cruz	4	1.6
	Sutter	3	1.2
	Fresno	2	0.8
	Mendocino	2	0.8
	Merced	2	0.8
	San Joaquin	2	0.8
	Marin	1	0.4
	San Diego	1	0.4
	San Francisco	1	0.4
	<b>Location outside of California</b>	<b>Frequency</b>	<b>Percent</b>
Washoe, NV	4	1.6	
Georgia	1	0.4	

Analytical Note: Counties were determined using zip codes provided by the respondent.

**Q-7.** What year were you born?

Total # of Respondents	Average Age (years)	Standard Deviation	Age Range (min.-max.)	Age Categories (years)	Frequency	Percent
237	43.4	13.4	17-82	24 or younger	23	9.7
				25-39	61	25.7
				40-64	140	59.1
				65 or older	13	5.5

Analytical Note: Ages were determined using birth years provided by the survey respondent.

**Table REC 2-11. General Visitor Survey Results – Section A-1 – Background Section – Hell Hole Reservoir Area (continued).**

**Q-8.** Which cultural or ethnic group do you most closely identify with?

Total # of Respondents	Cultural or Ethnic Group	Frequency	Percent
250	White/Caucasian	232	92.8
	Hispanic or Latino	7	2.8
	American Indian or Alaskan Native	2	0.8
	Asian	1	0.4
	Black/African American	1	0.4
	Native Hawaiian or Pacific Islander	1	0.4
	Other/Multi-racial	6	2.4

**Q-9.** What is your primary spoken language?

Total # of Respondents	Primary Language	Frequency	Percent
213	English	212	99.5
	Russian	1	0.5

**Table REC 2-11. General Visitor Survey Results – Section A-1 – Background Section – Hell Hole Reservoir Area (continued).**

**Q-10.** Identify the reasons why you chose this area to recreate?

Total # of Respondents	Primary Reason	Frequency	Percent
175	Scenic quality of the area	46	26.3
	Lack of crowding	31	17.7
	Recreational activities/opportunities in the area	30	17.1
	Close to home	26	14.9
	Access to lake/reservoir	18	10.3
	Access to river/stream	5	2.9
	Cost of facility access fee	2	1.1
	Presence of on-site manager/host	0	-
	Other	17	9.7

Analytical Note: Respondents were asked to indicate one primary reason for visiting the area. Eighty respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. Therefore the analysis is based on the 175 respondents who correctly answered the question.

Total # of Respondents	Secondary Reason	Frequency	Percent
178	Lack of crowding	75	42.1
	Access to lake/reservoir	62	34.8
	Scenic quality of the area	61	34.3
	Recreational activities/opportunities in the area	47	26.4
	Close to home	44	24.7
	Cost of facility access fee	29	16.3
	Access to river/stream	24	13.5
	Presence of on-site manager/host	1	0.6
	Other	9	5.1

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Table REC 2-11. General Visitor Survey Results – Section A-1 – Background Section – Hell Hole Reservoir Area (continued).**

**Q-11.** How important are each of the following facilities or amenities when choosing this area to recreate?

Facility/Amenity	Total # of Respondents	Possible Answers	Frequency	Percent
Developed campsites	240	Very Important	53	22.1
		Important	75	31.2
		Somewhat Important	53	22.1
		Not Important	59	24.6
Developed picnic sites	225	Very Important	30	13.3
		Important	49	21.8
		Somewhat Important	62	27.6
		Not Important	84	37.3
Flush restrooms	234	Very Important	36	15.4
		Important	42	17.9
		Somewhat Important	67	28.6
		Not Important	89	38.0
Drinking water	235	Very Important	73	31.1
		Important	66	28.1
		Somewhat Important	39	16.6
		Not Important	57	24.3
RV dump station	224	Very Important	12	5.4
		Important	21	9.4
		Somewhat Important	44	19.6
		Not Important	147	65.6
Boat launch ramps	238	Very Important	115	48.3
		Important	47	19.7
		Somewhat Important	26	10.9
		Not Important	50	21.0
River put-in/take-out	210	Very Important	32	15.2
		Important	39	18.6
		Somewhat Important	44	21.0
		Not Important	95	45.2
Hiking trails	233	Very Important	58	24.9
		Important	82	35.2
		Somewhat Important	48	20.6
		Not Important	45	19.3



**Table REC 2-11. General Visitor Survey Results – Section A-1 – Background Section – Hell Hole Reservoir Area (continued).**

**Q-11.** How important are each of the following facilities or amenities when choosing this area to recreate (continued)?

Facility/Amenity	Total # of Respondents	Possible Answers	Frequency	Percent
OHV Trails	222	Very Important	37	16.7
		Important	36	16.2
		Somewhat Important	34	15.3
		Not Important	115	51.8
Mountain bike trails	222	Very Important	18	8.1
		Important	34	15.3
		Somewhat Important	55	24.8
		Not Important	115	51.8
Fishing access trails	234	Very Important	79	33.8
		Important	63	26.9
		Somewhat Important	32	13.7
		Not Important	60	25.6
Equestrian trails	219	Very Important	12	5.5
		Important	25	11.4
		Somewhat Important	37	16.9
		Not Important	145	66.2
Interpretive/ educational exhibits/information	212	Very Important	20	9.4
		Important	33	15.6
		Somewhat Important	55	25.9
		Not Important	104	49.1
Other	4	Very Important	4	100.0
		Important	-	-
		Somewhat Important	-	-
		Not Important	-	-

**Table REC 2-11. General Visitor Survey Results – Section A-1 – Background Section – Hell Hole Reservoir Area (continued).**

**Q-12.** Identify the activities you engaged in, or expect to engage in, during your trip to this area.

Total # of Respondents	Primary Activity	Frequency	Percent
152	Reservoir fishing	60	39.5
	Camping in developed site	43	28.3
	OHV travel/use	9	5.9
	Camping in undeveloped site	8	5.3
	Hiking/walking	5	3.3
	Relaxing	4	2.6
	Stream swimming/water-play/sun bathing	4	2.6
	Picnicking in developed sites	3	2.0
	Reservoir swimming/water-play/sun bathing	3	2.0
	Driving for pleasure on roads	2	1.3
	Non-motorized reservoir boating (canoeing, kayaking, row boating)	2	1.3
	Stream fishing	2	1.3
	Whitewater boating (rafting, kayaking, canoeing)	2	1.3
	Hunting	1	0.7
	Picnicking in undeveloped sites	1	0.7
	Sports/games/field activities	1	0.7
Other	2	1.3	

Analytical Note: Respondents were asked to indicate one primary activity. A total of 103 respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. Therefore the analysis is based on the 152 respondents who correctly answered the question.

**Table REC 2-11. General Visitor Survey Results – Section A-1 – Background Section – Hell Hole Reservoir Area (continued).**

**Q-12.** Identify the activities you engaged in, or expect to engage in, during your trip to this area (continued).

Total # of Respondents	Secondary Activity	Frequency	Percent
152	Relaxing	56	36.8
	Hiking/walking	52	34.2
	Viewing wildlife, scenery photography, etc.	43	28.3
	Reservoir swimming/water-play/sun bathing	42	27.6
	Reservoir fishing	41	27.0
	Camping in developed site	36	23.7
	Picnicking in developed sites	21	13.8
	Stream fishing	18	11.8
	Picnicking in undeveloped sites	17	11.2
	Stream swimming/water-play/sun bathing	15	9.9
	Camping in undeveloped site	13	8.6
	Bicycling on paved surfaces	8	5.3
	Mountain biking	8	5.3
	Non-motorized reservoir boating (canoeing, kayaking, row boating)	8	5.3
	OHV travel/use	8	5.3
	Driving for pleasure on roads	7	4.6
	Personal water craft (jet skiing)	5	3.3
	Visiting historical/cultural sites	5	3.3
	Whitewater boating (rafting, kayaking, canoeing)	5	3.3
	Wood cutting	3	2.0
	Hunting	2	1.3
	Sports/games/field activities	2	1.3
	Water skiing, wake boarding	2	1.3
	Gold panning/dredging	1	0.7
Plant gathering (berries, mushrooms, grasses, etc.)	1	0.7	
Sailing	1	0.7	
Other	2	1.3	

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Table REC 2-11. General Visitor Survey Results – Section A-1 – Background Section – Hell Hole Reservoir Area (continued).****Q-13.** Please rate the availability and adequacy of the following information resources.

Information Resources	Total # of Respondents	Possible Answers	Frequency	Percent
Interpretive/educational information	220	Acceptable	78	35.5
		Somewhat Acceptable	55	25.0
		Not Acceptable	24	10.9
		Not Applicable	63	28.6
Recreation visitor information	228	Acceptable	96	42.1
		Somewhat Acceptable	63	27.6
		Not Acceptable	28	12.3
		Not Applicable	41	18.0
Safety/warning information	218	Acceptable	119	54.6
		Somewhat Acceptable	54	24.8
		Not Acceptable	17	7.8
		Not Applicable	28	12.8
Reservoir water surface elevation information	218	Acceptable	93	42.7
		Somewhat Acceptable	56	25.7
		Not Acceptable	29	13.3
		Not Applicable	40	18.3
River/stream flow information	211	Acceptable	72	34.1
		Somewhat Acceptable	57	27.0
		Not Acceptable	27	12.8
		Not Applicable	55	26.1
Other	1	Acceptable	1	100.0
		Somewhat Acceptable	-	-
		Not Acceptable	-	-
		Not Applicable	-	-

**Q-14.** How would you rate your overall recreation experience?

Total # of Respondents	Possible Answers	Frequency	Percent
240	Very Satisfied	134	55.8
	Satisfied	94	39.2
	Somewhat Satisfied	10	4.2
	Unsatisfied	1	0.4
	Very Unsatisfied	1	0.4

**Table REC 2-11. General Visitor Survey Results – Section A-1 – Background Section – Hell Hole Reservoir Area (continued).**

**Q-15.** Are there additional recreation facilities, amenities, or opportunities that would improve your recreation experience?

Total # of Respondents	Possible Answers	Frequency	Percent
188	Yes	56	29.8
	No	132	70.2

Of the 56 people who said “yes”, fifty-two provided comments which are summarized below by category. Some respondents provided comments that described multiple categories; therefore the total number of comments exceeds the total number of respondents.

Facility/Amenity	# of Comments	Percent of Total
Restrooms	14	23.0
Road/Parking Improvement	14	23.0
Camping	5	8.2
Boat Ramps/Docks	3	4.9
More Developments	3	4.9
More Trails/Better Access	3	4.9
Showers	3	4.9
Signage/Additional Information	3	4.9
Cost/Fees	2	3.3
Unsatisfactory Fishing	2	3.3
Campfires	1	1.6
Drinking Water	1	1.6
Longer Season	1	1.6
Low Water Levels	1	1.6
More Law Enforcement	1	1.6
Picnic Tables	1	1.6
Safety/Emergency Services	1	1.6
Too Crowded/Disruptive People	1	1.6
Trash Disposal	1	1.6
<b>TOTAL</b>	<b>61</b>	<b>100.0</b>

**Table REC 2-12. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – Hell Hole Reservoir Area.**

**Q-1.** The Hell Hole Reservoir area includes three developed campgrounds:

- Big Meadows Campground
- Hell Hole Campground
- Upper Hell Hole Campground

A total of 155 people who participated in the General Visitor Survey indicated that they camped at one of these three campgrounds.

**Q-2.** Name of primary campground used:

Campground	Frequency	Percent
Big Meadows Campground	94	60.6
Hell Hole Campground	43	27.7
Upper Hell Hole Campground	18	11.6

**Q-3.** How many nights will you camp during this visit?

Total # of Respondents	Average # of Nights	Standard Deviation	Range (Min. – Max.)
154	2.5	1.3	1-10

**Q-4a.** Were you able to camp at your first choice campground?

Total # of Respondents	Possible Answers	Frequency	Percent
153	Yes	149	97.4
	No	4	2.6

**Q-4b.** If no, what was your first choice campground?

Location	First Choice	Frequency
Campground/Campsite within Region	Hell Hole Campground	1
	Wanted a double space	1
Campground outside Region	-	0

**Table REC 2-12. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – Hell Hole Reservoir Area (continued).**

**Q-5.** What was your method of camping?

Total # of Respondents	Camping Method	Frequency	Percent
153	Tent	126	82.4
	Recreational vehicle 25-35 feet	8	5.2
	Recreational vehicle less than 25 feet	7	4.6
	Multiple methods	4	2.6
	Tent trailer	1	0.7
	Recreational vehicle longer than 35 feet	1	0.7
	Trailer 25-35 feet	1	0.7
	Trailer less than 25 feet	0	-
	Trailer longer than 35 feet	0	-
	Other	5	3.3

**Q-6.** Please rate the following factors at the campground identified above.

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Campsite availability	153	Acceptable	148	96.7
		Somewhat Acceptable	5	3.3
		Not Acceptable	0	-
Campsite condition	150	Acceptable	131	87.3
		Somewhat Acceptable	18	12.0
		Not Acceptable	1	0.7
Campsite cleanliness	149	Acceptable	137	91.9
		Somewhat Acceptable	9	6.0
		Not Acceptable	3	2.0
Adequacy of campsite screening	135	Acceptable	109	80.7
		Somewhat Acceptable	20	14.8
		Not Acceptable	6	4.4
Adequacy of campsite shading	147	Acceptable	130	88.4
		Somewhat Acceptable	17	11.6
		Not Acceptable	0	-
Restroom condition	146	Acceptable	85	58.2
		Somewhat Acceptable	46	31.5
		Not Acceptable	15	10.3

**Table REC 2-12. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – Hell Hole Reservoir Area (continued).****Q-6.** Please rate the following factors at the campground identified above (continued).

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Restroom cleanliness	147	Acceptable	96	65.3
		Somewhat Acceptable	39	26.5
		Not Acceptable	12	8.2
Drinking water availability	143	Acceptable	101	70.6
		Somewhat Acceptable	29	20.3
		Not Acceptable	13	9.1
Trash disposal	147	Acceptable	121	82.3
		Somewhat Acceptable	19	12.9
		Not Acceptable	7	4.8
Parking availability	149	Acceptable	134	89.9
		Somewhat Acceptable	14	9.4
		Not Acceptable	1	0.7
Parking area condition	148	Acceptable	132	89.2
		Somewhat Acceptable	15	10.1
		Not Acceptable	1	0.7
Adequacy of food storage lockers	140	Acceptable	98	70.0
		Somewhat Acceptable	28	20.0
		Not Acceptable	14	10.0
Condition of food storage lockers	136	Acceptable	108	79.4
		Somewhat Acceptable	18	13.2
		Not Acceptable	10	7.4
Parking spur size	139	Acceptable	108	77.7
		Somewhat Acceptable	26	18.7
		Not Acceptable	5	3.6
Road condition in campground	144	Acceptable	82	56.9
		Somewhat Acceptable	36	25.0
		Not Acceptable	26	18.1
Adequacy of road size in campground	142	Acceptable	99	69.7
		Somewhat Acceptable	35	24.6
		Not Acceptable	8	5.6
Cost of campground fee	145	Acceptable	116	80.0
		Somewhat Acceptable	24	16.6
		Not Acceptable	5	3.4



**Table REC 2-12. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – Hell Hole Reservoir Area (continued).**

**Q-6.** Please rate the following factors at the campground identified above (continued).

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Adequacy of law enforcement personnel	130	Acceptable	85	65.4
		Somewhat Acceptable	32	24.6
		Not Acceptable	13	10.0
Other	1	Acceptable	-	-
		Somewhat Acceptable	-	-
		Not Acceptable	1	100.0

**Q-7.** Were the services and/or facilities at the campground you identified above adequate for any physically impaired person in your party?

Total # of Respondents	Possible Answers	Frequency	Percent
141	Not applicable	84	59.6
	Yes	45	31.9
	No	12	8.5

**Q-8.** Was your recreation experience **negatively** affected by:

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Crowding	148	Yes	2	1.4
		No	146	98.6
Other activities taking place	132	Yes	2	1.5
		No	130	98.5

**Q-9.** How would you rate your overall experience at the campground identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
150	Very Satisfied	89	59.3
	Satisfied	56	37.3
	Somewhat Satisfied	5	3.3
	Unsatisfied	0	-
	Very Unsatisfied	0	-

**Table REC 2-13. General Visitor Survey Results – Section A-3 – Day Use at Developed Sites – Hell Hole Reservoir Area.**

**Q-1.** The Hell Hole Reservoir area includes two developed day use areas:

- Hell Hole Boat Ramp and its associated parking areas
- Hell Hole Vista

Hell Hole Vista was not included in the survey effort due to low use levels. A total of three people identified the Hell Hole Boat Ramp as their primary day use site.

**Q-2.** Name of primary day use site:

Day Use Site	Frequency	Percent
Hell Hole Boat Ramp and Parking	3	100.0

**Q-3.** How many hours did you, or will you, stay at your primary day use site?

Total # of Respondents	Average # of Hours	Standard Deviation	Range (Min. – Max.)
3	1.7	0.6	1-2

**Q-4.** Were you able to use your first choice developed day use site?

Total # of Respondents	Possible Answers	Frequency	Percent
3	Yes	3	100.0
	No	0	-

**Q-5.** Please rate the following factors at the developed day use site identified above.

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Picnic site availability	3	Acceptable	3	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Picnic site condition	3	Acceptable	3	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Picnic site cleanliness	3	Acceptable	3	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-

**Table REC 2-13. General Visitor Survey Results – Section A-3 – Day Use at Developed Sites – Hell Hole Reservoir Area (continued).**

**Q-5.** Please rate the following factors at the developed day use site identified above (continued).

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Trash disposal	3	Acceptable	3	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Parking availability	3	Acceptable	3	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Parking area condition	3	Acceptable	3	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Restroom condition	3	Acceptable	2	66.7
		Somewhat Acceptable	1	33.3
		Not Acceptable	0	-
Restroom cleanliness	3	Acceptable	2	66.7
		Somewhat Acceptable	1	33.3
		Not Acceptable	0	-
Drinking water availability	3	Acceptable	2	66.7
		Somewhat Acceptable	0	-
		Not Acceptable	1	33.3
Adequacy of law enforcement personnel	3	Acceptable	2	66.7
		Somewhat Acceptable	1	33.3
		Not Acceptable	0	-

**Q-6.** Were the services and/or facilities at the area you identified above adequate for any physically impaired person in your party?

Total # of Respondents	Possible Answers	Frequency	Percent
3	Not applicable	3	100.0
	Yes	0	-
	No	0	-

**Table REC 2-13. General Visitor Survey Results – Section A-3 – Day Use at Developed Sites – Hell Hole Reservoir Area (continued).**

**Q-7.** Was your recreation experience **negatively** affected by:

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Crowding	3	Yes	0	-
		No	3	100.0
Other activities taking place	3	Yes	0	-
		No	3	100.0

**Q-8.** How would you rate your overall experience at the day use site identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
3	Very Satisfied	1	33.3
	Satisfied	2	66.7
	Somewhat Satisfied	0	-
	Unsatisfied	0	-
	Very Unsatisfied	0	-

**Table REC 2-14. General Visitor Survey Results – Section A-4 – Day Use or Camping in Undeveloped Areas – Hell Hole Reservoir Area.**

**Q-1.** The stakeholders identified two DCUAs in the Hell Hole Reservoir area:

- Grey Horse Area
- Area on the west side of Hell Hole Reservoir, between the dam and Hell Hole Boat Ramp

A total of ten people who camped in the Grey Horse area completed Section A-4 of the survey instrument. In addition, four people who camped at the Hell Hole Boat Ramp General Parking area (located between the dam and Hell Hole Boat Ramp) completed Section A-4.

**Q-2.** Primary location:

Undeveloped Area	Frequency	Percent
Hell Hole Boat Ramp and Parking	4	28.6
Grey Horse DCUA	10	71.4

***Grey Horse Area***

**Q-3.** How long did you, or will you, stay at the area identified above?

If day use only, how many hours:

Total # of Respondents	Average # of Hours	Standard Deviation	Range (Min. – Max.)
0	-	-	-

If camping, how many nights:

Total # of Respondents	Average # of Nights	Standard Deviation	Range (Min. – Max.)
10	3.3	1.7	2 - 7

**Table REC 2-14. General Visitor Survey Results – Section A-4 – Day Use or Camping in Undeveloped Areas – Hell Hole Reservoir Area (continued).**

**Q-4.** If you camped, what was your method of camping?

Total # of Respondents	Camping Method	Frequency	Percent
10	Tent	10	100.0

**Q-5.** Was your recreation experience **negatively** affected by:

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Crowding	10	Yes	0	-
		No	10	100.0
Other activities taking place	9	Yes	2	22.2
		No	7	77.8

**Q-6.** How would you rate your overall experience at the undeveloped area identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
9	Very Satisfied	8	88.9
	Satisfied	1	11.1
	Somewhat Satisfied	0	-
	Unsatisfied	0	-
	Very Unsatisfied	0	-

***Area on the west side of Hell Hole Reservoir, between the dam and Hell Hole Boat Ramp***

**Q-3.** How long did you, or will you, stay at the area identified above?

If day use only, how many hours:

Total # of Respondents	Average # of Hours	Standard Deviation	Range (Min. – Max.)
0	-	-	-

**Table REC 2-14. General Visitor Survey Results – Section A-4 – Day Use or Camping in Undeveloped Areas – Hell Hole Reservoir Area (continued).**

**Q-3.** How long did you, or will you, stay at the area identified above (continued)?

If camping, how many nights:

Total # of Respondents	Average # of Nights	Standard Deviation	Range (Min. – Max.)
4	2.8	1.5	2 - 5

**Q-4.** If you camped, what was your method of camping?

Total # of Respondents	Camping Method	Frequency	Percent
3	Tent	1	33.3
	Recreational vehicle less than 25 feet	2	66.7

**Q-5.** Was your recreation experience negatively affected by:

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Crowding	3	Yes	0	-
		No	3	100.0
Other activities taking place	4	Yes	1	25.0
		No	3	75.0

**Q-6.** How would you rate your overall experience at the undeveloped area identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
4	Very Satisfied	3	75.0
	Satisfied	1	25.0
	Somewhat Satisfied	0	-
	Unsatisfied	0	-
	Very Unsatisfied	0	-

**Table REC 2-15. General Visitor Survey Results – Section A-1 – Background Section – French Meadows Reservoir Area.**

The French Meadows Reservoir area includes the following developed Project recreation facilities and DCUAs identified by the stakeholders:

Campgrounds

- Ahart Campground
- French Meadows Campground
- Lewis Campground
- Poppy Campground

Group Campgrounds

- Coyote Group Campground
- Gates Group Campground

Day Use Areas

- French Meadows Picnic Area
- French Meadows Boat Ramp
- McGuire Picnic Area
- McGuire Boat Ramp (Including Poppy Trailhead Parking Area)

DCUAs

- Area near bridge over the Middle Fork American River, upstream of French Meadows Reservoir;
- Area near French Meadows-Hell Hole Tunnel Gatehouse;
- Area immediately downstream of French Meadows Dam (both sides of river); and
- Area located immediately northwest of French Meadows Dam.

**Q-1.** Did you engage in any of the following activities during your visit?

Total # of Respondents	Activity	Frequency	Percent
316	Camping at a developed site	262	82.9
	Reservoir recreation	153	48.4
	Fishing	116	36.7
	Day use along a stream/river	25	7.9
	Day use at a developed site	16	5.1
	Day use or camping in undeveloped areas	12	3.8

Analytical Note: Multiple responses were accepted.



**Table REC 2-15. General Visitor Survey Results – Section A-1 – Background Section – French Meadows Reservoir Area (continued).**

**Q-2.** What type of vehicle did you drive to this area?

Total # of Respondents	Type of Vehicle	Frequency	Percent
306	Car/SUV/Truck	267	87.3
	Camper/RV	27	8.8
	Motorcycle	5	1.6
	Multiple Vehicles	2	0.7
	Other	5	1.6

**Q-3.** How many people were in your vehicle?

Total # of Respondents	Average # of people	Standard Deviation	Range (min.-max.)	Total # of People	Frequency	Percent
305	2.8	1.6	1-16	1	30	9.8
				2	140	45.9
				3	56	18.4
				4 or more	79	25.9

**Q-4.** How many people in your group are in the following age categories?

Total # of Respondents	Age Category	Percent
305	Under 18	20.5%
	18 or over	79.5%

**Q-5.** How many and what types of vehicles and trailers did your **group** bring?

Total # of Respondents	Vehicle or Trailer	Frequency <sup>1</sup>	Percent <sup>1</sup>	Average # per group <sup>2</sup>
306	Car/pickup/SUV	272	88.9	2.6
	Boat trailer	51	16.7	1.1
	Motor home/RV	44	14.4	1.5
	Towed/Trailered Vehicle	23	7.5	1.3
	Travel trailer	21	6.9	1.7
	Motorcycle	15	4.9	1.5
	Utility trailer	11	3.6	1.1
	OHV	7	2.3	1.8
	Horse trailer	0	-	-
	Other	4	1.3	1.0

<sup>1</sup>Includes all responses.

<sup>2</sup>Includes only responses that provided the number of vehicles in their group.

**Table REC 2-15. General Visitor Survey Results – Section A-1 – Background Section – French Meadows Reservoir Area (continued).**

**Q-6.** Your place of residence (zip code):

Total # of Respondents	County in California	Frequency	Percent
299	Placer	97	32.4
	Sacramento	85	28.4
	El Dorado	22	7.4
	Santa Clara	9	3.0
	Santa Cruz	9	3.0
	Contra Costa	8	2.7
	Alameda	7	2.3
	San Joaquin	6	2.0
	San Francisco	5	1.7
	Butte	4	1.3
	Nevada	3	1.0
	Solano	3	1.0
	Sonoma	3	1.0
	Yolo	3	1.0
	Napa	2	0.7
	San Luis Obispo	2	0.7
	San Mateo	2	0.7
	Amador	1	0.3
	Fresno	1	0.3
	Lake	1	0.3
	Marin	1	0.3
	Monterey	1	0.3
	Orange	1	0.3
	San Diego	1	0.3
	Shasta	1	0.3
	Siskiyou	1	0.3
	Sutter	1	0.3
Yuba	1	0.3	
	<b>Location outside of California</b>	<b>Frequency</b>	<b>Percent</b>
	Germany	1	0.3

Analytical Note: Counties were determined using zip codes provided by the respondent.

**Table REC 2-15. General Visitor Survey Results – Section A-1 – Background Section – French Meadows Reservoir Area (continued).**

**Q-7.** What year were you born?

Total # of Respondents	Average Age (years)	Standard Deviation	Age Range (min.-max.)	Age Categories (years)	Frequency	Percent
282	42.0	13.9	17-77	24 or younger	29	10.3
				25-39	104	36.9
				40-64	133	47.2
				65 or older	16	5.7

Analytical Note: Ages were determined using birth years provided by the survey respondent.

**Q-8.** Which cultural or ethnic group do you most closely identify with?

Total # of Respondents	Cultural or Ethnic Group	Frequency	Percent
300	White/Caucasian	254	84.7
	Hispanic or Latino	13	4.3
	Asian	9	3.0
	American Indian or Alaskan Native	5	1.7
	Native Hawaiian or Pacific Islander	3	1.0
	Black/African American	2	0.7
	Other/Multi-racial	14	4.7

**Q-9.** What is your primary spoken language?

Total # of Respondents	Primary Language	Frequency	Percent
275	English	262	95.3
	Multiple	4	1.5
	Russian	3	1.1
	Spanish	2	0.7
	Other	4	1.5

**Table REC 2-15. General Visitor Survey Results – Section A-1 – Background Section – French Meadows Reservoir Area (continued).**

**Q-10.** Identify the reasons why you chose this area to recreate?

Total # of Respondents	Primary Reason	Frequency	Percent
192	Scenic quality of the area	58	30.2
	Close to home	32	16.7
	Lack of crowding	28	14.6
	Access to lake/reservoir	25	13.0
	Recreational activities/opportunities in the area	21	10.9
	Access to river/stream	8	4.2
	Presence of on-site manager/host	1	0.5
	Cost of facility access fee	0	-
	Other	19	9.9

Analytical Note: Respondents were asked to indicate one primary reason for visiting the area. A total of 124 respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. Therefore the analysis is based on the 192 respondents who correctly answered the question.

Total # of Respondents	Secondary Reason	Frequency	Percent
194	Access to lake/reservoir	71	36.6
	Scenic quality of the area	63	32.5
	Lack of crowding	61	31.4
	Close to home	41	21.1
	Recreational activities/opportunities in the area	39	20.1
	Access to river/stream	32	16.5
	Cost of facility access fee	19	9.8
	Presence of on-site manager/host	8	4.1
	Other	6	3.1

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Table REC 2-15. General Visitor Survey Results – Section A-1 – Background Section – French Meadows Reservoir Area (continued).**

**Q-11.** How important are each of the following facilities or amenities when choosing this area to recreate?

Facility/Amenity	Total # of Respondents	Possible Answers	Frequency	Percent
Developed campsites	295	Very Important	122	41.4
		Important	88	29.8
		Somewhat Important	60	20.3
		Not Important	25	8.5
Developed picnic sites	267	Very Important	67	25.1
		Important	81	30.3
		Somewhat Important	70	26.2
		Not Important	49	18.4
Flush restrooms	289	Very Important	93	32.2
		Important	74	25.6
		Somewhat Important	72	24.9
		Not Important	50	17.3
Drinking water	285	Very Important	139	48.8
		Important	74	26.0
		Somewhat Important	50	17.5
		Not Important	22	7.7
RV dump station	265	Very Important	32	12.1
		Important	30	11.3
		Somewhat Important	35	13.2
		Not Important	168	63.4
Boat launch ramps	276	Very Important	76	27.5
		Important	60	21.7
		Somewhat Important	34	12.3
		Not Important	106	38.4
River put-in/take-out	251	Very Important	32	12.7
		Important	54	21.5
		Somewhat Important	52	20.7
		Not Important	113	45.0
Hiking trails	271	Very Important	74	27.3
		Important	105	38.7
		Somewhat Important	54	19.9
		Not Important	38	14.0

**Table REC 2-15. General Visitor Survey Results – Section A-1 – Background Section – French Meadows Reservoir Area (continued).**

**Q-11.** How important are each of the following facilities or amenities when choosing this area to recreate (continued)?

Facility/Amenity	Total # of Respondents	Possible Answers	Frequency	Percent
OHV Trails	250	Very Important	34	13.6
		Important	33	13.2
		Somewhat Important	43	17.2
		Not Important	140	56.0
Mountain bike trails	261	Very Important	38	14.6
		Important	51	19.5
		Somewhat Important	77	29.5
		Not Important	95	36.4
Fishing access trails	285	Very Important	110	38.6
		Important	77	27.0
		Somewhat Important	39	13.7
		Not Important	59	20.7
Equestrian trails	247	Very Important	22	8.9
		Important	19	7.7
		Somewhat Important	37	15.0
		Not Important	169	68.4
Interpretive/ educational exhibits/information	248	Very Important	24	9.7
		Important	42	16.9
		Somewhat Important	63	25.4
		Not Important	119	48.0
Other	6	Very Important	5	83.3
		Important	1	16.7
		Somewhat Important	-	-
		Not Important	-	-

**Table REC 2-15. General Visitor Survey Results – Section A-1 – Background Section – French Meadows Reservoir Area (continued).**

**Q-12.** Identify the activities you engaged in, or expect to engage in, during your trip to this area.

Total # of Respondents	Primary Activity	Frequency	Percent
168	Camping in developed site	86	51.2
	Reservoir fishing	32	19.0
	Relaxing	8	4.8
	Picnicking in developed sites	6	3.6
	Reservoir swimming/water-play/sun bathing	6	3.6
	Hiking/walking	5	3.0
	OHV travel/use	3	1.8
	Stream fishing	3	1.8
	Stream swimming/water-play/sun bathing	3	1.8
	Camping in undeveloped site	2	1.2
	Non-motorized reservoir boating (canoeing, kayaking, row boating)	2	1.2
	Driving for pleasure on roads	1	0.6
	Gold panning/dredging	1	0.6
	Mountain biking	1	0.6
	Picnicking in undeveloped sites	1	0.6
	Sports/games/field activities	1	0.6
	Viewing wildlife, scenery photography, etc.	1	0.6
	Visiting historical/cultural sites	1	0.6
	Water skiing, wake boarding	1	0.6
	Whitewater boating (rafting, kayaking, canoeing)	1	0.6
Other	3	1.8	

Analytical Note: Respondents were asked to indicate one primary activity. A total of 148 respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. Therefore the analysis is based on the 168 respondents who correctly answered the question.

**Table REC 2-15. General Visitor Survey Results – Section A-1 – Background Section – French Meadows Reservoir Area (continued).**

**Q-12.** Identify the activities you engaged in, or expect to engage in, during your trip to this area (continued).

Total # of Respondents	Secondary Activity	Frequency	Percent
169	Reservoir swimming/water-play/sun bathing	71	42.0
	Relaxing	67	39.6
	Hiking/walking	65	38.5
	Reservoir fishing	52	30.8
	Viewing wildlife, scenery photography, etc.	52	30.8
	Stream swimming/water-play/sun bathing	42	24.9
	Stream fishing	32	18.9
	Camping in developed site	31	18.3
	Picnicking in developed sites	25	14.8
	Mountain biking	20	11.8
	Bicycling on paved surfaces	19	11.2
	Non-motorized reservoir boating (canoeing, kayaking, row boating)	18	10.7
	Driving for pleasure on roads	17	10.1
	Visiting historical/cultural sites	12	7.1
	Sports/games/field activities	11	6.5
	Gold panning/dredging	10	5.9
	Camping in undeveloped site	9	5.3
	OHV travel/use	9	5.3
	Picnicking in undeveloped sites	9	5.3
	Hunting	8	4.7
	Rock hounding	8	4.7
	Wood cutting	5	3.0
	Water skiing, wake boarding	4	2.4
	Horseback riding	2	1.2
	Personal water craft (jet skiing)	1	0.6
	Plant gathering (berries, mushrooms, grasses, etc.)	1	0.6
Sailing	1	0.6	
Whitewater boating (rafting, kayaking, canoeing)	1	0.6	
Other	6	3.6	

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.



**Table REC 2-15. General Visitor Survey Results – Section A-1 – Background Section – French Meadows Reservoir Area (continued).**

**Q-13.** Please rate the availability and adequacy of the following information resources.

Information Resources	Total # of Respondents	Possible Answers	Frequency	Percent
Interpretive/educational information	265	Acceptable	89	33.6
		Somewhat Acceptable	81	30.6
		Not Acceptable	18	6.8
		Not Applicable	77	29.1
Recreation visitor information	278	Acceptable	130	46.8
		Somewhat Acceptable	81	29.1
		Not Acceptable	17	6.1
		Not Applicable	50	18.0
Safety/warning information	269	Acceptable	140	52.0
		Somewhat Acceptable	75	27.9
		Not Acceptable	15	5.6
		Not Applicable	39	14.5
Reservoir water surface elevation information	270	Acceptable	92	34.1
		Somewhat Acceptable	85	31.5
		Not Acceptable	39	14.4
		Not Applicable	54	20.0
River/stream flow information	264	Acceptable	77	29.2
		Somewhat Acceptable	86	32.6
		Not Acceptable	40	15.2
		Not Applicable	61	23.1
Other	1	Acceptable	1	100.0
		Somewhat Acceptable	-	-
		Not Acceptable	-	-
		Not Applicable	-	-

**Q-14.** How would you rate your overall recreation experience?

Total # of Respondents	Possible Answers	Frequency	Percent
303	Very Satisfied	169	55.8
	Satisfied	122	40.3
	Somewhat Satisfied	10	3.3
	Unsatisfied	1	0.3
	Very Unsatisfied	1	0.3

**Table REC 2-15. General Visitor Survey Results – Section A-1 – Background Section – French Meadows Reservoir Area (continued).**

**Q-15.** Are there additional recreation facilities, amenities, or opportunities that would improve your recreation experience?

Total # of Respondents	Possible Answers	Frequency	Percent
222	Yes	77	34.7
	No	145	65.3

Of the 77 people who said “yes”, seventy provided comments which are summarized below by category. Some respondents provided comments that described multiple categories; therefore the total number of comments exceeds the total number of respondents.

Facility/Amenity	# of Comments	Percent of Total
Restrooms	22	28.9
Drinking Water	10	13.2
Low Water Levels	7	9.2
Signage/Additional Information	7	9.2
More Developments	5	6.6
Picnic Tables	4	5.3
Additional Campsite Storage	3	3.9
Boat Ramps/Docks	3	3.9
More Trails/Better Access	3	3.9
Showers	3	3.9
Safety/Emergency Services	2	2.6
Trash Disposal	2	2.6
Camping	1	1.3
Road/Parking Improvement	1	1.3
N/A	3	3.9
<b>TOTAL</b>	<b>76</b>	<b>100.0</b>

**Table REC 2-16. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – French Meadows Reservoir Area.**

**Q-1.** The French Meadows Reservoir area includes six developed campgrounds, as follows:

- Ahart Campground
- Lewis Campground
- Poppy Campground
- French Meadows Campground
- Gates Group Campground
- Coyote Group Campground

A total of 260 people who participated in the General Visitor Survey indicated that they camped at one of these six campgrounds.

**Q-2.** Name of primary campground used:

Campground	Frequency	Percent
French Meadows Campground	98	37.7
Gates Group Campground	46	17.7
Lewis Campground	46	17.7
Ahart Campground	44	16.9
Coyote Group Campground	20	7.7
Poppy Campground	6	2.3

**Q-3.** How many nights will you camp during this visit?

Total # of Respondents	Average # of Nights	Standard Deviation	Range (Min. – Max.)
253	3.6	2.8	1-17

**Q-4a.** Were you able to camp at your first choice campground?

Total # of Respondents	Possible Answers	Frequency	Percent
253	Yes	227	89.7
	No	26	10.3

**Table REC 2-16. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – French Meadows Reservoir Area (continued).**

**Q-4b.** If no, what was your first choice campground?

Location	First Choice	Frequency
Campground/Campsite within Region	Ahart Campground	3
	Gates Group Campground	2
	Aspen	2
	Black Bear	2
	Lewis Campground	1
	Hell Hole Campground	1
	Ponderosa	1
	Next to the river	1
	By water	1
	Flush toilets	1
Campground outside Region	Eagle Point	1
	Loon Lake	1
	Stumpy Meadows	1
	Waahl Reserve	1

**Q-5.** What was your method of camping?

Total # of Respondents	Camping Method	Frequency	Percent
257	Tent	196	76.3
	Recreational vehicle less than 25 feet	15	5.8
	Tent trailer	14	5.4
	Recreational vehicle 25-35 feet	9	3.5
	Trailer less than 25 feet	8	3.1
	Trailer 25-35 feet	7	2.7
	Multiple methods	2	0.8
	Recreational vehicle longer than 35 feet	1	0.4
	Trailer longer than 35 feet	1	0.4
	Other	4	1.6

**Table REC 2-16. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – French Meadows Reservoir Area (continued).**

**Q-6.** Please rate the following factors at the campground identified above.

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Campsite availability	257	Acceptable	240	93.4
		Somewhat Acceptable	17	6.6
		Not Acceptable	0	-
Campsite condition	258	Acceptable	246	95.3
		Somewhat Acceptable	12	4.7
		Not Acceptable	0	-
Campsite cleanliness	254	Acceptable	238	93.7
		Somewhat Acceptable	15	5.9
		Not Acceptable	1	0.4
Adequacy of campsite screening	225	Acceptable	194	86.2
		Somewhat Acceptable	28	12.4
		Not Acceptable	3	1.3
Adequacy of campsite shading	252	Acceptable	216	85.7
		Somewhat Acceptable	36	14.3
		Not Acceptable	0	-
Restroom condition	248	Acceptable	171	69.0
		Somewhat Acceptable	60	24.2
		Not Acceptable	17	6.9
Restroom cleanliness	246	Acceptable	173	70.3
		Somewhat Acceptable	63	25.6
		Not Acceptable	10	4.1
Drinking water availability	239	Acceptable	152	63.6
		Somewhat Acceptable	38	15.9
		Not Acceptable	49	20.5
Trash disposal	253	Acceptable	217	85.8
		Somewhat Acceptable	29	11.5
		Not Acceptable	7	2.8
Parking availability	253	Acceptable	229	90.5
		Somewhat Acceptable	21	8.3
		Not Acceptable	3	1.2
Parking area condition	250	Acceptable	236	94.4
		Somewhat Acceptable	13	5.2
		Not Acceptable	1	0.4

**Table REC 2-16. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – French Meadows Reservoir Area (continued).****Q-6.** Please rate the following factors at the campground identified above (continued).

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Adequacy of food storage lockers	254	Acceptable	231	90.9
		Somewhat Acceptable	16	6.3
		Not Acceptable	7	2.8
Condition of food storage lockers	252	Acceptable	238	94.4
		Somewhat Acceptable	11	4.4
		Not Acceptable	3	1.2
Parking spur size	247	Acceptable	213	86.2
		Somewhat Acceptable	27	10.9
		Not Acceptable	7	2.8
Road condition in campground	252	Acceptable	237	94.0
		Somewhat Acceptable	13	5.2
		Not Acceptable	2	0.8
Adequacy of road size in campground	250	Acceptable	226	90.4
		Somewhat Acceptable	22	8.8
		Not Acceptable	2	0.8
Cost of campground fee	252	Acceptable	171	67.9
		Somewhat Acceptable	63	25.0
		Not Acceptable	18	7.1
Adequacy of law enforcement personnel	228	Acceptable	156	68.4
		Somewhat Acceptable	62	27.2
		Not Acceptable	10	4.4
Other	3	Acceptable	0	-
		Somewhat Acceptable	1	33.3
		Not Acceptable	2	66.7

**Q-7.** Were the services and/or facilities at the campground you identified above adequate for any physically impaired person in your party?

Total # of Respondents	Possible Answers	Frequency	Percent
240	Not applicable	145	60.4
	Yes	73	30.4
	No	22	9.2

**Table REC 2-16. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – French Meadows Reservoir Area (continued).**

**Q-8.** Was your recreation experience **negatively** affected by:

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Crowding	246	Yes	9	3.7
		No	237	96.3
Other activities taking place	221	Yes	5	2.3
		No	216	97.7

**Q-9.** How would you rate your overall experience at the campground identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
256	Very Satisfied	165	64.5
	Satisfied	82	32.0
	Somewhat Satisfied	9	3.5
	Unsatisfied	0	-
	Very Unsatisfied	0	-

**Table REC 2-17. General Visitor Survey Results – Section A-3 – Day Use at Developed Sites – French Meadows Reservoir Area.**

**Q-1.** The French Meadows Reservoir area includes four developed day use facilities:

- French Meadows Picnic Area
- French Meadows Boat Ramp
- McGuire Picnic Area and Beach
- McGuire Boat Ramp

A total of four people who recreated in the French Meadows Reservoir area completed Section A-3 of the survey form.

**Q-2.** Name of primary day use site:

Day Use Site	Frequency	Percent
McGuire Boat Ramp, Picnic Area, and Beach	3	75.0
French Meadows Boat Ramp and Picnic Area	1	25.0

**Q-3.** How many hours did you, or will you, stay at your primary day use site?

Total # of Respondents	Average # of Hours	Standard Deviation	Range (Min. – Max.)
4	3.3	1.0	2-4

**Q-4.** Were you able to use your first choice developed day use site?

Total # of Respondents	Possible Answers	Frequency	Percent
4	Yes	4	100.0
	No	0	-



**Table REC 2-17. General Visitor Survey Results – Section A-3 – Day Use at Developed Sites – French Meadows Reservoir Area (continued).**

**Q-5.** Please rate the following factors at the developed day use site identified above.

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Picnic site availability	3	Acceptable	3	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Picnic site condition	3	Acceptable	2	66.7
		Somewhat Acceptable	1	33.3
		Not Acceptable	0	-
Picnic site cleanliness	3	Acceptable	3	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Trash disposal	3	Acceptable	2	66.7
		Somewhat Acceptable	1	33.3
		Not Acceptable	0	-
Parking availability	3	Acceptable	2	66.7
		Somewhat Acceptable	1	33.3
		Not Acceptable	0	-
Parking area condition	3	Acceptable	2	66.7
		Somewhat Acceptable	1	33.3
		Not Acceptable	0	-
Restroom condition	3	Acceptable	1	33.3
		Somewhat Acceptable	0	-
		Not Acceptable	2	66.7
Restroom cleanliness	3	Acceptable	1	33.3
		Somewhat Acceptable	0	-
		Not Acceptable	2	66.7
Drinking water availability	3	Acceptable	2	66.7
		Somewhat Acceptable	1	33.3
		Not Acceptable	0	-
Adequacy of law enforcement personnel	3	Acceptable	2	66.7
		Somewhat Acceptable	0	-
		Not Acceptable	1	33.3

**Table REC 2-17. General Visitor Survey Results – Section A-3 – Day Use at Developed Sites – French Meadows Reservoir Area (continued).**

**Q-6.** Were the services and/or facilities at the area you identified above adequate for any physically impaired person in your party?

Total # of Respondents	Possible Answers	Frequency	Percent
1	Not applicable	1	100.0
	Yes	0	-
	No	0	-

**Q-7.** Was your recreation experience **negatively** affected by:

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Crowding	4	Yes	0	-
		No	4	100.0
Other activities taking place	4	Yes	0	-
		No	4	100.0

**Q-8.** How would you rate your overall experience at the day use site identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
4	Very Satisfied	0	-
	Satisfied	4	100.0
	Somewhat Satisfied	0	-
	Unsatisfied	0	-
	Very Unsatisfied	0	-

**Table REC 2-18. General Visitor Survey Results – Section A-1 – Background Section – Long Canyon Area.**

The Long Canyon Area includes one developed recreation facility:

- Middle Meadows Campground

In addition, the stakeholders identified the following DCUAs in the Long Canyon area:

- Area surrounding South Fork Long Canyon Diversion Dam
- Areas along South Fork Long Canyon Creek, downstream of South Fork Long Canyon Diversion Dam

**Q-1.** Did you engage in any of the following activities during your visit?

Total # of Respondents	Activity	Frequency	Percent
51	Camping at a developed site	50	98.0
	Reservoir recreation	7	13.7
	Fishing	5	9.8
	Day use at a developed site	3	5.9
	Day use or camping in undeveloped areas	2	3.9
	Day use along a stream/river	2	3.9

Analytical Note: Multiple responses were accepted.

**Q-2.** What type of vehicle did you drive to this area?

Total # of Respondents	Type of Vehicle	Frequency	Percent
49	Car/SUV/Truck	47	95.9
	Camper/RV	1	2.0
	Motorcycle	0	-
	Other	1	2.0

**Q-3.** How many people were in your vehicle?

Total # of Respondents	Average # of people	Standard Deviation	Range (min.-max.)	Total # of People	Frequency	Percent
48	3.3	1.9	1-14	1	2	4.2
				2	14	29.2
				3	17	35.4
				4 or more	15	31.3

**Table REC 2-18. General Visitor Survey Results – Section A-1 – Background Section – Long Canyon Area (continued).**

**Q-4.** How many people in your group are in the following age categories?

Total # of Respondents	Age Category	Percent
50	Under 18	21.2%
	18 or over	78.8%

**Q-5.** How many and what types of vehicles and trailers did your **group** bring?

Total # of Respondents	Vehicle or Trailer	Frequency <sup>1</sup>	Percent <sup>1</sup>	Average # per group <sup>2</sup>
48	Car/pickup/SUV	47	97.9	5.2
	Towed/Trailer Vehicle	3	6.3	2.1
	Travel trailer	3	6.3	1.5
	Motor home/RV	2	4.2	8.0
	Utility trailer	1	2.1	-
	Motorcycle	0	-	-
	OHV	0	-	-
	Boat trailer	0	-	-
	Horse trailer	0	-	-
	Other	1	2.1	1.0

<sup>1</sup>Includes all responses.

<sup>2</sup>Includes only responses that provided the number of vehicles in their group.

**Q-6.** Your place of residence (zip code):

Total # of Respondents	County in California	Frequency	Percent
49	Sacramento	19	38.8
	Placer	15	30.6
	San Francisco	6	12.2
	El Dorado	3	6.1
	Contra Costa	1	2.0
	Santa Cruz	1	2.0
	Santa Clara	1	2.0
	Yolo	1	2.0
	Nevada	1	2.0
	<b>Location outside of California</b>	<b>Frequency</b>	<b>Percent</b>
	Clark, NV	1	2.0

Analytical Note: Counties were determined using zip codes provided by the respondent.

**Table REC 2-18. General Visitor Survey Results – Section A-1 – Background Section – Long Canyon Area (continued).****Q-7.** What year were you born?

Total # of Respondents	Average Age (years)	Standard Deviation	Age Range (min.-max.)	Age Categories (years)	Frequency	Percent
45	40.5	14.4	19-68	24 or younger	8	17.8
				25-39	12	26.7
				40-64	22	48.9
				65 or older	3	6.7

Analytical Note: Ages were determined using birth years provided by the survey respondent.

**Q-8.** Which cultural or ethnic group do you most closely identify with?

Total # of Respondents	Cultural or Ethnic Group	Frequency	Percent
50	White/Caucasian	30	60.0
	Asian	14	28.0
	Black/African American	1	2.0
	Hispanic or Latino	1	2.0
	American Indian or Alaskan Native	0	-
	Native Hawaiian or Pacific Islander	0	-
	Other/Multi-racial	4	8.0

**Q-9.** What is your primary spoken language?

Total # of Respondents	Primary Language	Frequency	Percent
44	English	34	77.3
	French	1	2.3
	Other	9	20.5

**Table REC 2-18. General Visitor Survey Results – Section A-1 – Background Section – Long Canyon Area (continued).****Q-10.** Identify the reasons why you chose this area to recreate?

Total # of Respondents	Primary Reason	Frequency	Percent
29	Scenic quality of the area	10	34.5
	Close to home	6	20.7
	Lack of crowding	6	20.7
	Cost of facility access fee	2	6.9
	Recreational activities/opportunities in the area	2	6.9
	Access to river/stream	1	3.4
	Access to lake/reservoir	0	-
	Presence of on-site manager/host	0	-
	Other	2	6.9

Analytical Note: Respondents were asked to indicate one primary reason for visiting the area. Twenty two respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. Therefore the analysis is based on the 29 respondents who correctly answered the question.

Total # of Respondents	Secondary Reason	Frequency	Percent
30	Recreational activities/opportunities in the area	15	50.0
	Cost of facility access fee	12	40.0
	Lack of crowding	11	36.7
	Scenic quality of the area	10	33.3
	Access to lake/reservoir	8	26.7
	Access to river/stream	8	26.7
	Close to home	5	16.7
	Presence of on-site manager/host	4	13.3
	Other	3	10.0

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Table REC 2-18. General Visitor Survey Results – Section A-1 – Background Section – Long Canyon Area (continued).**

**Q-11.** How important are each of the following facilities or amenities when choosing this area to recreate?

Facility/Amenity	Total # of Respondents	Possible Answers	Frequency	Percent
Developed campsites	48	Very Important	28	58.3
		Important	16	33.3
		Somewhat Important	2	4.2
		Not Important	2	4.2
Developed picnic sites	45	Very Important	23	51.1
		Important	13	28.9
		Somewhat Important	7	15.6
		Not Important	2	4.4
Flush restrooms	47	Very Important	23	48.9
		Important	9	19.1
		Somewhat Important	9	19.1
		Not Important	6	12.8
Drinking water	45	Very Important	22	48.9
		Important	13	28.9
		Somewhat Important	8	17.8
		Not Important	2	4.4
RV dump station	38	Very Important	3	7.9
		Important	4	10.5
		Somewhat Important	6	15.8
		Not Important	25	65.8
Boat launch ramps	38	Very Important	4	10.5
		Important	3	7.9
		Somewhat Important	8	21.1
		Not Important	23	60.5
River put-in/take-out	36	Very Important	5	13.9
		Important	6	16.7
		Somewhat Important	6	16.7
		Not Important	19	52.8
Hiking trails	47	Very Important	20	42.6
		Important	18	38.3
		Somewhat Important	7	14.9
		Not Important	2	4.3

**Table REC 2-18. General Visitor Survey Results – Section A-1 – Background Section – Long Canyon Area (continued).**

**Q-11.** How important are each of the following facilities or amenities when choosing this area to recreate (continued)?

Facility/Amenity	Total # of Respondents	Possible Answers	Frequency	Percent
OHV Trails	37	Very Important	6	16.2
		Important	5	13.5
		Somewhat Important	5	13.5
		Not Important	21	56.8
Mountain bike trails	40	Very Important	11	27.5
		Important	6	15.0
		Somewhat Important	5	12.5
		Not Important	18	45.0
Fishing access trails	42	Very Important	11	26.2
		Important	9	21.4
		Somewhat Important	4	9.5
		Not Important	18	42.9
Equestrian trails	40	Very Important	4	10.0
		Important	6	15.0
		Somewhat Important	5	12.5
		Not Important	25	62.5
Interpretive/ educational exhibits/information	38	Very Important	6	15.8
		Important	5	13.2
		Somewhat Important	7	18.4
		Not Important	20	52.6
Other	1	Very Important	1	100.0
		Important	-	-
		Somewhat Important	-	-
		Not Important	-	-



**Table REC 2-18. General Visitor Survey Results – Section A-1 – Background Section – Long Canyon Area (continued).**

**Q-12.** Identify the activities you engaged in, or expect to engage in, during your trip to this area.

Total # of Respondents	Primary Activity	Frequency	Percent
17	Camping in developed site	10	58.8
	Picnicking in developed sites	3	17.6
	Hiking/walking	1	5.9
	Relaxing	1	5.9
	Reservoir fishing	1	5.9
	Reservoir swimming/water-play/sun bathing	1	5.9

Analytical Note: Respondents were asked to indicate one primary activity. Thirty four respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. Therefore the analysis is based on the 17 respondents who correctly answered the question.

Total # of Respondents	Secondary Activity	Frequency	Percent
17	Hiking/walking	10	58.8
	Picnicking in developed sites	9	52.9
	Relaxing	8	47.1
	Reservoir swimming/water-play/sun bathing	8	47.1
	Camping in developed site	5	29.4
	Viewing wildlife, scenery photography, etc.	5	29.4
	Reservoir fishing	4	23.5
	Stream swimming/water-play/sun bathing	3	17.6
	Driving for pleasure on roads	2	11.8
	Mountain biking	2	11.8
	Visiting historical/cultural sites	2	11.8
	Camping in undeveloped site	1	5.9
	Non-motorized reservoir boating (canoeing, kayaking, row boating)	1	5.9
	Picnicking in undeveloped sites	1	5.9
Whitewater boating (rafting, kayaking, canoeing)	1	5.9	

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Table REC 2-18. General Visitor Survey Results – Section A-1 – Background Section – Long Canyon Area (continued).****Q-13.** Please rate the availability and adequacy of the following information resources.

Information Resources	Total # of Respondents	Possible Answers	Frequency	Percent
Interpretive/educational information	43	Acceptable	13	30.2
		Somewhat Acceptable	12	27.9
		Not Acceptable	1	2.3
		Not Applicable	17	39.5
Recreation visitor information	46	Acceptable	17	37.0
		Somewhat Acceptable	16	34.8
		Not Acceptable	0	-
		Not Applicable	13	28.3
Safety/warning information	47	Acceptable	22	46.8
		Somewhat Acceptable	16	34.0
		Not Acceptable	3	6.4
		Not Applicable	6	12.8
Reservoir water surface elevation information	44	Acceptable	14	31.8
		Somewhat Acceptable	15	34.1
		Not Acceptable	1	2.3
		Not Applicable	14	31.8
River/stream flow information	43	Acceptable	13	30.2
		Somewhat Acceptable	13	30.2
		Not Acceptable	4	9.3
		Not Applicable	13	30.2
Other	1	Acceptable	-	-
		Somewhat Acceptable	-	-
		Not Acceptable	1	100.0
		Not Applicable	-	-

**Q-14.** How would you rate your overall recreation experience?

Total # of Respondents	Possible Answers	Frequency	Percent
49	Very Satisfied	20	40.8
	Satisfied	24	49.0
	Somewhat Satisfied	5	10.2
	Unsatisfied	0	-
	Very Unsatisfied	0	-

**Table REC 2-18. General Visitor Survey Results – Section A-1 – Background Section – Long Canyon Area (continued).**

**Q-15.** Are there additional recreation facilities, amenities, or opportunities that would improve your recreation experience?

Total # of Respondents	Possible Answers	Frequency	Percent
41	Yes	12	29.3
	No	29	70.7

Of the 12 people who said “yes”, eleven provided comments which are summarized below by category. One respondent provided a comment that described multiple categories; therefore the total number of comments exceeds the total number of respondents.

Facility/Amenity	# of Comments	Percent of Total
Showers	7	58.3
Road/Parking Improvement	2	16.7
Campfires	1	8.3
Signage/Additional Information	1	8.3
Unsatisfactory Fishing	1	8.3
<b>TOTAL</b>	<b>12</b>	<b>100.0</b>

**Table REC 2-19. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – Long Canyon Area.**

**Q-1.** The Long Canyon area includes one developed group campground;

- Middle Meadows Campground

A total of 52 people who participated in the General Visitor Survey indicated that they camped at Middle Meadows Campground.

**Q-2.** Name of primary campground used:

Campground	Frequency	Percent
Middle Meadows Group Campground	52	100.0

**Q-3.** How many nights will you camp during this visit?

Total # of Respondents	Average # of Nights	Standard Deviation	Range (Min. – Max.)
51	2.1	0.8	1-4

**Q-4a.** Were you able to camp at your first choice campground?

Total # of Respondents	Possible Answers	Frequency	Percent
50	Yes	49	98.0
	No	1	2.0

**Q-4b.** If no, what was your first choice campground?

Location	First Choice	Frequency
Campground/Campsite within Region	-	0
Campground outside Region	-	0

**Table REC 2-19. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – Long Canyon Area (continued).****Q-5.** What was your method of camping?

Total # of Respondents	Camping Method	Frequency	Percent
51	Tent	46	90.2
	Multiple methods	3	5.9
	Recreational vehicle less than 25 feet	2	3.9
	Tent trailer	0	-
	Recreational vehicle 25-35 feet	0	-
	Recreational vehicle longer than 35 feet	0	-
	Trailer less than 25 feet	0	-
	Trailer 25-35 feet	0	-
	Trailer longer than 35 feet	0	-
	Other	0	-

**Q-6.** Please rate the following factors at the campground identified above.

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Campsite availability	50	Acceptable	46	92.0
		Somewhat Acceptable	4	8.0
		Not Acceptable	0	-
Campsite condition	49	Acceptable	45	91.8
		Somewhat Acceptable	4	8.2
		Not Acceptable	0	-
Campsite cleanliness	49	Acceptable	44	89.8
		Somewhat Acceptable	5	10.2
		Not Acceptable	0	-
Adequacy of campsite screening	43	Acceptable	34	79.1
		Somewhat Acceptable	9	20.9
		Not Acceptable	0	-
Adequacy of campsite shading	45	Acceptable	37	82.2
		Somewhat Acceptable	8	17.8
		Not Acceptable	0	-
Restroom condition	49	Acceptable	41	83.7
		Somewhat Acceptable	8	16.3
		Not Acceptable	0	-

**Table REC 2-19. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – Long Canyon Area (continued).****Q-6.** Please rate the following factors at the campground identified above (continued).

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Restroom cleanliness	49	Acceptable	43	87.8
		Somewhat Acceptable	6	12.2
		Not Acceptable	0	-
Drinking water availability	48	Acceptable	37	77.1
		Somewhat Acceptable	8	16.7
		Not Acceptable	3	6.2
Trash disposal	47	Acceptable	44	93.6
		Somewhat Acceptable	3	6.4
		Not Acceptable	0	-
Parking availability	49	Acceptable	37	75.5
		Somewhat Acceptable	11	22.4
		Not Acceptable	1	2.0
Parking area condition	47	Acceptable	40	85.1
		Somewhat Acceptable	5	10.6
		Not Acceptable	2	4.3
Adequacy of food storage lockers	47	Acceptable	42	89.4
		Somewhat Acceptable	5	10.6
		Not Acceptable	0	-
Condition of food storage lockers	49	Acceptable	44	89.8
		Somewhat Acceptable	5	10.2
		Not Acceptable	0	-
Parking spur size	45	Acceptable	34	75.6
		Somewhat Acceptable	10	22.2
		Not Acceptable	1	2.2
Road condition in campground	49	Acceptable	33	67.3
		Somewhat Acceptable	13	26.5
		Not Acceptable	3	6.1
Adequacy of road size in campground	48	Acceptable	36	75.0
		Somewhat Acceptable	9	18.8
		Not Acceptable	3	6.2
Cost of campground fee	48	Acceptable	41	85.4
		Somewhat Acceptable	6	12.5
		Not Acceptable	1	2.1

**Table REC 2-19. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – Long Canyon Area (continued).**

**Q-6.** Please rate the following factors at the campground identified above (continued).

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Adequacy of law enforcement personnel	42	Acceptable	25	59.5
		Somewhat Acceptable	16	38.1
		Not Acceptable	1	2.4
Other	1	Acceptable	0	-
		Somewhat Acceptable	0	-
		Not Acceptable	1	100.0

**Q-7.** Were the services and/or facilities at the campground you identified above adequate for any physically impaired person in your party?

Total # of Respondents	Possible Answers	Frequency	Percent
46	Not applicable	25	54.3
	Yes	17	37.0
	No	4	8.7

**Q-8.** Was your recreation experience negatively affected by:

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Crowding	44	Yes	0	-
		No	44	100.0
Other activities taking place	40	Yes	5	12.5
		No	35	87.5

**Q-9.** How would you rate your overall experience at the campground identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
47	Very Satisfied	22	46.8
	Satisfied	19	40.4
	Somewhat Satisfied	6	12.8
	Unsatisfied	0	-
	Very Unsatisfied	0	-

**Table REC 2-20. General Visitor Survey Results – Section A-1 – Background Section – Duncan Creek Diversion Area.**

There are no developed recreation facilities in the Duncan Creek Diversion area. However, surveys were conducted at the following DCUAs identified by the stakeholders.

- Area North of Duncan Creek Diversion
- Area Near Duncan Creek Gage and Weir
- Area Near New Bridge Crossing Duncan Creek

**Q-1.** Did you engage in any of the following activities during your visit?

Total # of Respondents	Activity	Frequency	Percent
5	Day use or camping in undeveloped areas	5	100.0
	Day use along a stream/river	1	20.0
	Fishing	1	20.0
	Camping at a developed site	0	-
	Day use at a developed site	0	-
	Reservoir recreation	0	-

Analytical Note: Multiple responses were accepted.

**Q-2.** What type of vehicle did you drive to this area?

Total # of Respondents	Type of Vehicle	Frequency	Percent
5	Car/SUV/Truck	5	100.0
	Camper/RV	0	-
	Motorcycle	0	-
	Other	0	-

**Q-3.** How many people were in your vehicle?

Total # of Respondents	Average # of people	Standard Deviation	Range (min.-max.)	Total # of People	Frequency	Percent
5	2.0	0.0	2-2	1	-	-
				2	5	100.0
				3	-	-
				4 or more	-	-



**Table REC 2-20. General Visitor Survey Results – Section A-1 – Background Section – Duncan Creek Diversion Area (continued).**

**Q-4.** How many people in your group are in the following age categories?

Total # of Respondents	Age Category	Percent
5	Under 18	0%
	18 or over	100%

**Q-5.** How many and what types of vehicles and trailers did your **group** bring?

Total # of Respondents	Vehicle or Trailer	Frequency <sup>1</sup>	Percent <sup>1</sup>	Average # per group <sup>2</sup>
5	Car/pickup/SUV	5	100.0	3.8
	Towed/Trailer Vehicle	1	20.0	-
	Utility trailer	1	20.0	-
	Motor home/RV	0	-	-
	Motorcycle	0	-	-
	OHV	0	-	-
	Travel trailer	0	-	-
	Boat trailer	0	-	-
	Horse trailer	0	-	-
	Other	0	-	-

<sup>1</sup>Includes all responses.

<sup>2</sup>Includes only responses that provided the number of vehicles in their group.

**Q-6.** Your place of residence (zip code):

Total # of Respondents	County in California	Frequency	Percent
5	Sacramento	3	60.0
	Placer	2	40.0

Analytical Note: Counties were determined using zip codes provided by the respondent.

**Table REC 2-20. General Visitor Survey Results – Section A-1 – Background Section – Duncan Creek Diversion Area (continued).****Q-7.** What year were you born?

Total # of Respondents	Average Age (years)	Standard Deviation	Age Range (min.-max.)	Age Categories (years)	Frequency	Percent
4	35.8	22.3	21-69	24 or younger	1	25.0
				25-39	2	50.0
				40-64	0	-
				65 or older	1	25.0

Analytical Note: Ages were determined using birth years provided by the survey respondent.

**Q-8.** Which cultural or ethnic group do you most closely identify with?

Total # of Respondents	Cultural or Ethnic Group	Frequency	Percent
4	White/Caucasian	2	50.0
	Hispanic or Latino	1	25.0
	American Indian or Alaskan Native	0	-
	Asian	0	-
	Black/African American	0	-
	Native Hawaiian or Pacific Islander	0	-
	Other/Multi-racial	1	25.0

**Q-9.** What is your primary spoken language?

Total # of Respondents	Primary Language	Frequency	Percent
4	English	4	100.0

**Table REC 2-20. General Visitor Survey Results – Section A-1 – Background Section – Duncan Creek Diversion Area (continued).****Q-10.** Identify the reasons why you chose this area to recreate?

Total # of Respondents	Primary Reason	Frequency	Percent
3	Access to river/stream	1	33.3
	Access to lake/reservoir	0	-
	Close to home	0	-
	Cost of facility access fee	0	-
	Lack of crowding	0	-
	Presence of on-site manager/host	0	-
	Recreational activities/opportunities in the area	0	-
	Scenic quality of the area	0	-
	Other	2	66.7

Analytical Note: Respondents were asked to indicate one primary reason for visiting the area. Two respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. Therefore the analysis is based on the 3 respondents who correctly answered the question.

Total # of Respondents	Secondary Reason	Frequency	Percent
3	Cost of facility access fee	2	66.7
	Lack of crowding	2	66.7
	Close to home	1	33.3
	Access to lake/reservoir	0	-
	Access to river/stream	0	-
	Presence of on-site manager/host	0	-
	Recreational activities/opportunities in the area	0	-
	Scenic quality of the area	0	-
	Other	0	-

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Table REC 2-20. General Visitor Survey Results – Section A-1 – Background Section – Duncan Creek Diversion Area (continued).**

**Q-11.** How important are each of the following facilities or amenities when choosing this area to recreate?

Facility/Amenity	Total # of Respondents	Possible Answers	Frequency	Percent
Developed campsites	5	Very Important	0	-
		Important	3	60.0
		Somewhat Important	1	20.0
		Not Important	1	20.0
Developed picnic sites	5	Very Important	0	-
		Important	1	20.0
		Somewhat Important	3	60.0
		Not Important	1	20.0
Flush restrooms	5	Very Important	2	40.0
		Important	1	20.0
		Somewhat Important	1	20.0
		Not Important	1	20.0
Drinking water	5	Very Important	3	60.0
		Important	0	-
		Somewhat Important	1	20.0
		Not Important	1	20.0
RV dump station	5	Very Important	0	-
		Important	0	-
		Somewhat Important	0	-
		Not Important	5	100.0
Boat launch ramps	5	Very Important	0	-
		Important	0	-
		Somewhat Important	0	-
		Not Important	5	100.0
River put-in/take-out	5	Very Important	0	-
		Important	0	-
		Somewhat Important	3	60.0
		Not Important	2	40.0
Hiking trails	5	Very Important	3	60.0
		Important	1	20.0
		Somewhat Important	0	-
		Not Important	1	20.0

**Table REC 2-20. General Visitor Survey Results – Section A-1 – Background Section – Duncan Creek Diversion Area (continued).**

**Q-11.** How important are each of the following facilities or amenities when choosing this area to recreate (continued)?

Facility/Amenity	Total # of Respondents	Possible Answers	Frequency	Percent
OHV Trails	5	Very Important	0	-
		Important	0	-
		Somewhat Important	0	-
		Not Important	5	100.0
Mountain bike trails	5	Very Important	0	-
		Important	0	-
		Somewhat Important	3	60.0
		Not Important	2	40.0
Fishing access trails	4	Very Important	0	-
		Important	0	-
		Somewhat Important	3	75.0
		Not Important	1	25.0
Equestrian trails	4	Very Important	0	-
		Important	1	25.0
		Somewhat Important	2	50.0
		Not Important	1	25.0
Interpretive/ educational exhibits/information	4	Very Important	1	25.0
		Important	1	25.0
		Somewhat Important	1	25.0
		Not Important	1	25.0
Other	0	Very Important	-	-
		Important	-	-
		Somewhat Important	-	-
		Not Important	-	-

**Table REC 2-20. General Visitor Survey Results – Section A-1 – Background Section – Duncan Creek Diversion Area (continued).**

**Q-12.** Identify the activities you engaged in, or expect to engage in, during your trip to this area.

Total # of Respondents	Primary Activity	Frequency	Percent
1	Camping in developed site	1	100.0

Analytical Note: Respondents were asked to indicate one primary activity. Four respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. Therefore the analysis is based on the one respondent who correctly answered the question.

Total # of Respondents	Secondary Activity	Frequency	Percent
1	Hiking/walking	1	100.0
	Relaxing	1	100.0
	Viewing wildlife, scenery photography, etc.	1	100.0

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Table REC 2-20. General Visitor Survey Results – Section A-1 – Background Section – Duncan Creek Diversion Area (continued).**

**Q-13.** Please rate the availability and adequacy of the following information resources.

Information Resources	Total # of Respondents	Possible Answers	Frequency	Percent
Interpretive/educational information	4	Acceptable	0	-
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
		Not Applicable	4	100.0
Recreation visitor information	4	Acceptable	0	-
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
		Not Applicable	4	100.0
Safety/warning information	4	Acceptable	0	-
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
		Not Applicable	4	100.0
Reservoir water surface elevation information	4	Acceptable	0	-
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
		Not Applicable	4	100.0
River/stream flow information	4	Acceptable	0	-
		Somewhat Acceptable	1	25.0
		Not Acceptable	0	-
		Not Applicable	3	75.0
Other	0	Acceptable	-	-
		Somewhat Acceptable	-	-
		Not Acceptable	-	-
		Not Applicable	-	-

**Q-14.** How would you rate your overall recreation experience?

Total # of Respondents	Possible Answers	Frequency	Percent
5	Very Satisfied	1	20.0
	Satisfied	4	80.0
	Somewhat Satisfied	0	-
	Unsatisfied	0	-
	Very Unsatisfied	0	-

**Table REC 2-20. General Visitor Survey Results – Section A-1 – Background Section – Duncan Creek Diversion Area (continued).**

**Q-15.** Are there additional recreation facilities, amenities, or opportunities that would improve your recreation experience?

Total # of Respondents	Possible Answers	Frequency	Percent
2	Yes	1	50.0
	No	1	50.0

Facility/Amenity	# of Comments	Percent of Total
More Trails/Better Access	1	100.0



**Table REC 2-21. General Visitor Survey Results – Section A-4 – Day Use or Camping in Undeveloped Areas – Duncan Creek Diversion Area.**

**Q-1.** The stakeholders identified the following DCUAs in the Duncan Creek Diversion area:

- Area North of Duncan Creek Diversion
- Area Near Duncan Creek Gage and Weir
- Area Near New Bridge Crossing Duncan Creek

These three areas were included in the survey effort. A total of four people who camped in the Duncan Creek Diversion area completed Section A-4 of the survey instrument.

**Q-2.** Primary location:

Undeveloped Area	Frequency	Percent
Duncan Creek Area	4	100.0

**Q-3.** How long did you, or will you, stay at the area identified above?

If day use only, how many hours:

Total # of Respondents	Average # of Hours	Standard Deviation	Range (Min. – Max.)
0	-	-	-

If camping, how many nights:

Total # of Respondents	Average # of Nights	Standard Deviation	Range (Min. – Max.)
4	2.8	0.5	2-3

**Q-4.** If you camped, what was your method of camping?

Total # of Respondents	Camping Method	Frequency	Percent
4	Tent	4	100.0

**Q-5.** Was your recreation experience **negatively** affected by:

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Crowding	4	Yes	0	-
		No	4	100.0
Other activities taking place	4	Yes	0	-
		No	4	100.0

**Table REC 2-21. General Visitor Survey Results – Section A-4 – Day Use or Camping in Undeveloped Areas – Duncan Creek Diversion Area (continued).**

**Q-6.** How would you rate your overall experience at the undeveloped area identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
4	Very Satisfied	1	25.0
	Satisfied	3	75.0
	Somewhat Satisfied	0	-
	Unsatisfied	0	-
	Very Unsatisfied	0	-

**Table REC 2-22. General Visitor Survey Results – Section A-1 – Background Section – Ralston Afterbay Area.**

The Ralston Afterbay area includes the following developed Project recreation facilities and DCUAs identified by the stakeholders:

Day Use Areas

- Indian Bar Rafter Access and General Parking
- Ralston Picnic Area
- Ralston Picnic Area Cartop Boat Ramp

DCUAs

- Ralston Afterbay Sediment Disposal Area;
- Areas along Middle Fork American River, between Ralston Picnic Area and the new gage;
- Area at confluence of North Fork of the Middle Fork American River and Middle Fork American River;
- Indian Bar, Willow Bar, and Junction Bar Areas; and
- Shoreline area surrounding Ralston Afterbay.

**Q-1.** Did you engage in any of the following activities during your visit?

Total # of Respondents	Activity	Frequency	Percent
58	Day use along a stream/river	41	70.7
	Fishing	19	32.8
	Reservoir recreation	14	24.1
	Day use or camping in undeveloped areas	9	15.5
	Day use at a developed site	2	3.4
	Camping at a developed site	0	-

Analytical Note: Multiple responses were accepted.

**Q-2.** What type of vehicle did you drive to this area?

Total # of Respondents	Type of Vehicle	Frequency	Percent
58	Car/SUV/Truck	52	89.7
	Camper/RV	2	3.4
	Motorcycle	0	-
	Other	4	6.9

**Table REC 2-22. General Visitor Survey Results – Section A-1 – Background Section – Ralston Afterbay Area (continued).**

**Q-3.** How many people were in your vehicle?

Total # of Respondents	Average # of people	Standard Deviation	Range (min.-max.)	Total # of People	Frequency	Percent
56	4.0	3.5	1-20	1	3	5.4
				2	20	35.7
				3	13	23.2
				4 or more	20	35.7

**Q-4.** How many people in your group are in the following age categories?

Total # of Respondents	Age Category	Percent
57	Under 18	18.3%
	18 or over	81.7%

**Q-5.** How many and what types of vehicles and trailers did your **group** bring?

Total # of Respondents	Vehicle or Trailer	Frequency <sup>1</sup>	Percent <sup>1</sup>	Average # per group <sup>2</sup>
55	Car/pickup/SUV	48	87.3	1.4
	Boat trailer	6	10.9	.0
	Towed/Trailer Vehicle	2	3.6	1.0
	Motor home/RV	1	1.8	4.0
	Motorcycle	1	1.8	-
	OHV	1	1.8	1.0
	Travel trailer	1	1.8	-
	Utility trailer	1	1.8	-
	Horse trailer	0	-	-
	Other	2	3.6	1.0

<sup>1</sup>Includes all responses.

<sup>2</sup>Includes only responses that provided the number of vehicles in their group.

**Table REC 2-22. General Visitor Survey Results – Section A-1 – Background Section – Ralston Afterbay Area (continued).****Q-6.** Your place of residence (zip code):

Total # of Respondents	County in California	Frequency	Percent
56	Placer	20	35.7
	Sacramento	14	25.0
	Alameda	4	7.1
	Solano	4	7.1
	Santa Cruz	3	5.4
	San Mateo	2	3.6
	Amador	1	1.8
	Contra Costa	1	1.8
	Del Norte	1	1.8
	El Dorado	1	1.8
	Nevada	1	1.8
	San Francisco	1	1.8
	Stanislaus	1	1.8
	Yolo	1	1.8
	<b>Location outside of California</b>	<b>Frequency</b>	<b>Percent</b>
Oregon	1	1.8	

Analytical Note: Counties were determined using zip codes provided by the respondent.

**Q-7.** What year were you born?

Total # of Respondents	Average Age (years)	Standard Deviation	Age Range (min.-max.)	Age Categories (years)	Frequency	Percent
55	42.0	12.2	14-66	24 or younger	3	5.5
				25-39	24	43.6
				40-64	27	49.1
				65 or older	1	1.8

Analytical Note: Ages were determined using birth years provided by the survey respondent.

**Table REC 2-22. General Visitor Survey Results – Section A-1 – Background Section – Ralston Afterbay Area (continued).****Q-8.** Which cultural or ethnic group do you most closely identify with?

Total # of Respondents	Cultural or Ethnic Group	Frequency	Percent
57	White/Caucasian	47	82.5
	Asian	4	7.0
	Hispanic or Latino	2	3.5
	Native Hawaiian or Pacific Islander	2	3.5
	American Indian or Alaskan Native	1	1.8
	Black/African American	1	1.8
	Other/Multi-racial	0	-

**Q-9.** What is your primary spoken language?

Total # of Respondents	Primary Language	Frequency	Percent
43	English	40	93.0
	Multiple	1	2.3
	Other	2	4.7

**Q-10.** Identify the reasons why you chose this area to recreate?

Total # of Respondents	Primary Reason	Frequency	Percent
32	Scenic quality of the area	7	21.9
	Access to lake/reservoir	5	15.6
	Access to river/stream	5	15.6
	Close to home	5	15.6
	Lack of crowding	4	12.5
	Recreational activities/opportunities in the area	2	6.2
	Cost of facility access fee	0	-
	Presence of on-site manager/host	0	-
	Other	4	12.5

Analytical Note: Respondents were asked to indicate one primary reason for visiting the area. Twenty six respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. Therefore the analysis is based on the 32 respondents who correctly answered the question.

**Table REC 2-22. General Visitor Survey Results – Section A-1 – Background Section – Ralston Afterbay Area (continued).****Q-10.** Identify the reasons why you chose this area to recreate (continued)?

Total # of Respondents	Secondary Reason	Frequency	Percent
32	Access to river/stream	11	34.4
	Lack of crowding	11	34.4
	Close to home	9	28.1
	Recreational activities/opportunities in the area	9	28.1
	Scenic quality of the area	8	25.0
	Access to lake/reservoir	7	21.9
	Cost of facility access fee	6	18.8
	Presence of on-site manager/host	2	6.2
	Other	1	3.1

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Q-11.** How important are each of the following facilities or amenities when choosing this area to recreate?

Facility/Amenity	Total # of Respondents	Possible Answers	Frequency	Percent
Developed campsites	48	Very Important	10	20.8
		Important	12	25.0
		Somewhat Important	6	12.5
		Not Important	20	41.7
Developed picnic sites	47	Very Important	10	21.3
		Important	8	17.0
		Somewhat Important	11	23.4
		Not Important	18	38.3
Flush restrooms	47	Very Important	17	36.2
		Important	5	10.6
		Somewhat Important	9	19.1
		Not Important	16	34.0
Drinking water	50	Very Important	17	34.0
		Important	9	18.0
		Somewhat Important	10	20.0
		Not Important	14	28.0

**Table REC 2-22. General Visitor Survey Results – Section A-1 – Background Section – Ralston Afterbay Area (continued).**

**Q-11.** How important are each of the following facilities or amenities when choosing this area to recreate (continued)?

Facility/Amenity	Total # of Respondents	Possible Answers	Frequency	Percent
RV dump station	43	Very Important	4	9.3
		Important	4	9.3
		Somewhat Important	6	14.0
		Not Important	29	67.4
Boat launch ramps	47	Very Important	14	29.8
		Important	12	25.5
		Somewhat Important	4	8.5
		Not Important	17	36.2
River put-in/take-out	48	Very Important	15	31.2
		Important	13	27.1
		Somewhat Important	6	12.5
		Not Important	14	29.2
Hiking trails	47	Very Important	15	31.9
		Important	15	31.9
		Somewhat Important	9	19.1
		Not Important	8	17.0
OHV Trails	43	Very Important	9	20.9
		Important	6	14.0
		Somewhat Important	6	14.0
		Not Important	22	51.2
Mountain bike trails	44	Very Important	5	11.4
		Important	3	6.8
		Somewhat Important	11	25.0
		Not Important	25	56.8
Fishing access trails	50	Very Important	25	50.0
		Important	6	12.0
		Somewhat Important	5	10.0
		Not Important	14	28.0
Equestrian trails	45	Very Important	5	11.1
		Important	7	15.6
		Somewhat Important	9	20.0
		Not Important	24	53.3



**Table REC 2-22. General Visitor Survey Results – Section A-1 – Background Section – Ralston Afterbay Area (continued).**

**Q-11.** How important are each of the following facilities or amenities when choosing this area to recreate (continued)?

Facility/Amenity	Total # of Respondents	Possible Answers	Frequency	Percent
Interpretive/ educational exhibits/information	46	Very Important	8	17.4
		Important	6	13.0
		Somewhat Important	11	23.9
		Not Important	21	45.7
Other	1	Very Important	1	100.0
		Important	-	-
		Somewhat Important	-	-
		Not Important	-	-

**Q-12.** Identify the activities you engaged in, or expect to engage in, during your trip to this area.

Total # of Respondents	Primary Activity	Frequency	Percent
31	Stream fishing	7	22.6
	Reservoir fishing	6	19.4
	Non-motorized reservoir boating (canoeing, kayaking, row boating)	4	12.9
	Whitewater boating (rafting, kayaking, canoeing)	3	9.7
	Camping in undeveloped site	2	6.5
	Relaxing	2	6.5
	Reservoir swimming/water-play/sun bathing	2	6.5
	Picnicking in developed sites	1	3.2
	Picnicking in undeveloped sites	1	3.2
	Stream swimming/water-play/sun bathing	1	3.2
	Water skiing, wake boarding	1	3.2
Other	1	3.2	

Analytical Note: Respondents were asked to indicate one primary activity. A total of 27 respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. Therefore the analysis is based on the 31 respondents who correctly answered the question.

**Table REC 2-22. General Visitor Survey Results – Section A-1 – Background Section – Ralston Afterbay Area (continued).**

**Q-12.** Identify the activities you engaged in, or expect to engage in, during your trip to this area (continued).

Total # of Respondents	Secondary Activity	Frequency	Percent
31	Stream swimming/water-play/sun bathing	10	32.3
	Reservoir swimming/water-play/sun bathing	9	29.0
	Relaxing	8	25.8
	Reservoir fishing	8	25.8
	Viewing wildlife, scenery photography, etc.	8	25.8
	Picnicking in developed sites	7	22.6
	Hiking/walking	5	16.1
	Stream fishing	5	16.1
	Camping in undeveloped site	4	12.9
	Picnicking in undeveloped sites	4	12.9
	Driving for pleasure on roads	3	9.7
	Hunting	2	6.5
	Rock hounding	2	6.5
	Camping in developed site	1	3.2
	Gold panning/dredging	1	3.2
	Non-motorized reservoir boating (canoeing, kayaking, row boating)	1	3.2
	OHV travel/use	1	3.2
	Sailing	1	3.2
Whitewater boating (rafting, kayaking, canoeing)	1	3.2	

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Table REC 2-22. General Visitor Survey Results – Section A-1 – Background Section – Ralston Afterbay Area (continued).**

**Q-13.** Please rate the availability and adequacy of the following information resources.

Information Resources	Total # of Respondents	Possible Answers	Frequency	Percent
Interpretive/educational information	45	Acceptable	15	33.3
		Somewhat Acceptable	13	28.9
		Not Acceptable	2	4.4
		Not Applicable	15	33.3
Recreation visitor information	49	Acceptable	19	38.8
		Somewhat Acceptable	11	22.4
		Not Acceptable	4	8.2
		Not Applicable	15	30.6
Safety/warning information	46	Acceptable	28	60.9
		Somewhat Acceptable	6	13.0
		Not Acceptable	5	10.9
		Not Applicable	7	15.2
Reservoir water surface elevation information	46	Acceptable	16	34.8
		Somewhat Acceptable	12	26.1
		Not Acceptable	5	10.9
		Not Applicable	13	28.3
River/stream flow information	46	Acceptable	17	37.0
		Somewhat Acceptable	14	30.4
		Not Acceptable	5	10.9
		Not Applicable	10	21.7
Other	0	Acceptable	-	-
		Somewhat Acceptable	-	-
		Not Acceptable	-	-
		Not Applicable	-	-

**Q-14.** How would you rate your overall recreation experience?

Total # of Respondents	Possible Answers	Frequency	Percent
57	Very Satisfied	29	50.9
	Satisfied	23	40.4
	Somewhat Satisfied	5	8.8
	Unsatisfied	0	-
	Very Unsatisfied	0	-

**Table REC 2-22. General Visitor Survey Results – Section A-1 – Background Section – Ralston Afterbay Area (continued).**

**Q-15.** Are there additional recreation facilities, amenities, or opportunities that would improve your recreation experience?

Total # of Respondents	Possible Answers	Frequency	Percent
41	Yes	11	26.8
	No	30	73.2

Of the 11 people who said “yes”, nine provided comments which are summarized below by category. One respondent provided a comment that described multiple categories; therefore the total number of comments exceeds the total number of respondents.

Facility/Amenity	# of Comments	Percent of Total
Restrooms	2	20.0
Unsatisfactory Fishing	2	20.0
Camping	1	10.0
Drinking Water	1	10.0
Environmental	1	10.0
More Trails/Better Access	1	10.0
Picnic Tables	1	10.0
Too Crowded/Disruptive People	1	10.0
<b>TOTAL</b>	<b>10</b>	<b>100.0</b>

**Table REC 2-23. General Visitor Survey Results – Section A-3 – Day Use at Developed Sites – Ralston Afterbay Area.**

**Q-1.** The Ralston Afterbay area includes three developed day use facilities:

- Ralston Picnic Area
- Ralston Car Top Boat Ramp
- Indian Bar Rafter Access

Two people who recreated in the Ralston Afterbay area completed Section A-3 of the survey form.

**Q-2.** Name of primary day use site:

Day Use Site	Frequency	Percent
Indian Bar Rafter Access/Ralston Picnic Area and Car Top Boat Ramp	2	100.0

**Q-3.** How many hours did you, or will you, stay at your primary day use site?

Total # of Respondents	Average # of Hours	Standard Deviation	Range (Min. – Max.)
2	3.0	1.4	2-4

**Q-4.** Were you able to use your first choice developed day use site?

Total # of Respondents	Possible Answers	Frequency	Percent
2	Yes	2	100.0
	No	0	-

**Table REC 2-23. General Visitor Survey Results – Section A-3 – Day Use at Developed Sites – Ralston Afterbay Area (continued).****Q-5.** Please rate the following factors at the developed day use site identified above.

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Picnic site availability	2	Acceptable	2	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Picnic site condition	2	Acceptable	2	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Picnic site cleanliness	2	Acceptable	2	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Trash disposal	1	Acceptable	1	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Parking availability	2	Acceptable	2	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Parking area condition	2	Acceptable	2	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Restroom condition	1	Acceptable	1	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Restroom cleanliness	1	Acceptable	1	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Drinking water availability	1	Acceptable	1	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Adequacy of law enforcement personnel	2	Acceptable	2	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-

**Table REC 2-23. General Visitor Survey Results – Section A-3 – Day Use at Developed Sites – Ralston Afterbay Area (continued).**

**Q-6.** Were the services and/or facilities at the area you identified above adequate for any physically impaired person in your party?

Total # of Respondents	Possible Answers	Frequency	Percent
2	Not applicable	1	50.0
	Yes	1	50.0
	No	0	-

**Q-7.** Was your recreation experience **negatively** affected by:

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Crowding	1	Yes	0	-
		No	1	100.0
Other activities taking place	1	Yes	0	-
		No	1	100.0

**Q-8.** How would you rate your overall experience at the day use site identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
1	Very Satisfied	1	100.0
	Satisfied	0	-
	Somewhat Satisfied	0	-
	Unsatisfied	0	-
	Very Unsatisfied	0	-

**Table REC 2-24. General Visitor Survey Results – Section A-4 – Day Use or Camping in Undeveloped Areas – Ralston Afterbay Area.**

**Q-1.** The stakeholders identified five DCUAs in the Ralston area, one of which was included in the survey effort:

- Ralston Afterbay Sediment Disposal Area;
- Areas along Middle Fork American River, between Ralston Picnic Area and the new gage;
- Area at confluence of North Fork of the Middle Fork American River and Middle Fork American River;
- Indian Bar, Willow Bar, and Junction Bar Areas; and
- Shoreline area surrounding Ralston Afterbay.

A total of 8 people indicated that they engaged in day use or camping in undeveloped areas. Of these, four people provided sufficient information to analyze. These four people were encountered on the Indian Bar DCUA. Their responses are summarized below.

**Q-2.** Primary location:

Undeveloped Area	Frequency	Percent
Indian Bar/Ralston Afterbay	4	100.0

**Q-3.** How long did you, or will you, stay at the area identified above?

If day use only, how many hours:

Total # of Respondents	Average # of Hours	Standard Deviation	Range (Min. – Max.)
0	-	-	-

If camping, how many nights:

Total # of Respondents	Average # of Nights	Standard Deviation	Range (Min. – Max.)
4	1.3	0.5	1-2

**Q-4.** If you camped, what was your method of camping?

Total # of Respondents	Camping Method	Frequency	Percent
4	Tent	4	100.0



**Table REC 2-24. General Visitor Survey Results – Section A-4 – Day Use or Camping in Undeveloped Areas – Ralston Afterbay Area (continued).**

**Q-5.** Was your recreation experience negatively affected by:

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Crowding	4	Yes	0	-
		No	4	100.0
Other activities taking place	4	Yes	2	50.0
		No	2	50.0

**Q-6.** How would you rate your overall experience at the undeveloped area identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
4	Very Satisfied	3	75.0
	Satisfied	1	25.5
	Somewhat Satisfied	0	-
	Unsatisfied	0	-
	Very Unsatisfied	0	-

**Table REC 2-25. General Visitor Survey Results – Section A-1 – Background Section – ASRA Area.\***

Surveys were conducted at the following recreation areas located in ASRA.

Day Use Areas

- Ruck-a-Chucky Day-use Boater Access
- Ruck-a-Chucky at gate upstream of Ruck-a-Chucky Day-Use Boater Access
- Mammoth Bar
- Confluence Area
- Quarry Trail Parking Area
- Birdsall Access/Oregon Bar Access (China Bar)

\*Note that the survey effort in the ASRA area focused on stream-based recreation users. Therefore the results reflect the opinions of stream-based recreation users and not necessarily other types of users in ASRA.

**Q-1.** Did you engage in any of the following activities during your visit?

Total # of Respondents	Activity	Frequency	Percent
283	Day use along a stream/river	231	81.6
	Camping at a developed site	49	17.3
	Day use at a developed site	19	6.7
	Day use or camping in undeveloped areas	9	3.2
	Fishing	8	2.8
	Reservoir recreation	2	0.7

Analytical Note: Multiple responses were accepted.

**Q-2.** What type of vehicle did you drive to this area?

Total # of Respondents	Type of Vehicle	Frequency	Percent
281	Car/SUV/Truck	259	92.2
	Motorcycle	5	1.8
	Camper/RV	0	-
	Other	17	6.0

**Table REC 2-25. General Visitor Survey Results – Section A-1 – Background Section – ASRA Area (continued).****Q-3.** How many people were in your vehicle?

Total # of Respondents	Average # of people	Standard Deviation	Range (min.-max.)	Total # of People	Frequency	Percent
275	3.8	4.5	1-40	1	43	15.6
				2	79	28.7
				3	54	19.6
				4 or more	99	36.0

**Q-4.** How many people in your group are in the following age categories?

Total # of Respondents	Age Category	Percent
281	Under 18	22.3%
	18 or over	77.7%

**Q-5.** How many and what types of vehicles and trailers did your **group** bring?

Total # of Respondents	Vehicle or Trailer	Frequency <sup>1</sup>	Percent <sup>1</sup>	Average # per group <sup>2</sup>
268	Car/pickup/SUV	250	93.3	1.3
	Motorcycle	6	2.2	1.0
	Towed/Trailer Vehicle	4	1.5	1.8
	Utility trailer	3	1.1	1.0
	Boat trailer	2	0.7	2.0
	Motor home/RV	1	0.4	1.0
	OHV	1	0.4	-
	Travel trailer	1	0.4	2.0
	Horse trailer	1	0.4	1.0
	Other	5	1.9	1.4

<sup>1</sup>Includes all responses.<sup>2</sup>Includes only responses that provided the number of vehicles in their group.

**Table REC 2-25. General Visitor Survey Results – Section A-1 – Background Section – ASRA Area (continued).**

Q-6. Your place of residence (zip code):

Total # of Respondents	County in California	Frequency	Percent
276	Placer	146	52.9
	Sacramento	31	11.2
	El Dorado	11	4.0
	San Francisco	7	2.5
	Alameda	5	1.8
	Contra Costa	5	1.8
	Yolo	5	1.8
	San Diego	4	1.4
	Nevada	3	1.1
	Orange	3	1.1
	Riverside	3	1.1
	San Bernardino	3	1.1
	San Luis Obispo	3	1.1
	San Mateo	3	1.1
	Los Angeles	2	0.7
	Marin	2	0.7
	Monterey	2	0.7
	Santa Clara	2	0.7
	Santa Cruz	2	0.7
	Solano	2	0.7
	Sonoma	2	0.7
	Amador	1	0.4
	Calaveras	1	0.4
	Lake	1	0.4
	Mendocino	1	0.4
	Mono	1	0.4
	San Benito	1	0.4
San Joaquin	1	0.4	
Shasta	1	0.4	
Sutter	1	0.4	
Ventura	1	0.4	

**Table REC 2-25. General Visitor Survey Results – Section A-1 – Background Section – ASRA Area (continued).****Q-6.** Your place of residence (zip code) (continued).

Total # of Respondents	Location outside of California	Frequency	Percent
276	Douglas, NV	4	1.4
	Carson City, NV	2	0.7
	Washoe, NV	2	0.7
	Oklahoma	2	0.7
	Arizona	1	0.4
	Massachusetts	1	0.4
	Clark, NV	1	0.4
	New Jersey	1	0.4
	Pennsylvania	1	0.4
	Texas	1	0.4
	Utah	1	0.4
	Ireland	1	0.4
	Germany	1	0.4
Switzerland	1	0.4	

Analytical Note: Counties were determined using zip codes provided by the respondent.

**Q-7.** What year were you born?

Total # of Respondents	Average Age (years)	Standard Deviation	Age Range (min.-max.)	Age Categories (years)	Frequency	Percent
262	38.3	13.0	14-70	24 or younger	40	15.3
				25-39	106	40.5
				40-64	110	42.0
				65 or older	6	2.3

Analytical Note: Ages were determined using birth years provided by the survey respondent.

**Table REC 2-25. General Visitor Survey Results – Section A-1 – Background Section – ASRA Area (continued).**

**Q-8.** Which cultural or ethnic group do you most closely identify with?

Total # of Respondents	Cultural or Ethnic Group	Frequency	Percent
281	White/Caucasian	237	84.3
	Hispanic or Latino	10	3.6
	Native Hawaiian or Pacific Islander	5	1.8
	American Indian or Alaskan Native	4	1.4
	Asian	3	1.1
	Black/African American	1	0.4
	Other/Multi-racial	21	7.5

**Q-9.** What is your primary spoken language?

Total # of Respondents	Primary Language	Frequency	Percent
251	English	243	96.8
	Spanish	2	0.8
	Multiple	2	0.8
	Other	4	1.6

**Table REC 2-25. General Visitor Survey Results – Section A-1 – Background Section – ASRA Area (continued).****Q-10.** Identify the reasons why you chose this area to recreate?

Total # of Respondents	Primary Reason	Frequency	Percent
197	Close to home	78	39.6
	Access to river/stream	49	24.9
	Recreational activities/opportunities in the area	29	14.7
	Scenic quality of the area	23	11.7
	Lack of crowding	7	3.6
	Access to lake/reservoir	3	1.5
	Cost of facility access fee	2	1.0
	Presence of on-site manager/host	1	0.5
	Other	5	2.5

Analytical Note: Respondents were asked to indicate one primary reason for visiting the area. Eighty six respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. Therefore the analysis is based on the 197 respondents who correctly answered the question.

Total # of Respondents	Secondary Reason	Frequency	Percent
199	Scenic quality of the area	67	33.7
	Access to river/stream	50	25.1
	Recreational activities/opportunities in the area	45	22.6
	Close to home	43	21.6
	Lack of crowding	38	19.1
	Cost of facility access fee	17	8.5
	Access to lake/reservoir	11	5.5
	Presence of on-site manager/host	3	1.5
	Other	8	4.0

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Table REC 2-25. General Visitor Survey Results – Section A-1 – Background Section – ASRA Area (continued).**

**Q-11.** How important are each of the following facilities or amenities when choosing this area to recreate?

Facility/Amenity	Total # of Respondents	Possible Answers	Frequency	Percent
Developed campsites	248	Very Important	50	20.2
		Important	35	14.1
		Somewhat Important	50	20.2
		Not Important	113	45.6
Developed picnic sites	243	Very Important	44	18.1
		Important	40	16.5
		Somewhat Important	74	30.5
		Not Important	85	35.0
Flush restrooms	253	Very Important	57	22.5
		Important	52	20.6
		Somewhat Important	50	19.8
		Not Important	94	37.2
Drinking water	249	Very Important	84	33.7
		Important	61	24.5
		Somewhat Important	40	16.1
		Not Important	64	25.7
RV dump station	235	Very Important	24	10.2
		Important	18	7.7
		Somewhat Important	22	9.4
		Not Important	171	72.8
Boat launch ramps	230	Very Important	26	11.3
		Important	21	9.1
		Somewhat Important	27	11.7
		Not Important	156	67.8
River put-in/take-out	236	Very Important	68	28.8
		Important	45	19.1
		Somewhat Important	30	12.7
		Not Important	93	39.4
Hiking trails	256	Very Important	116	45.3
		Important	75	29.3
		Somewhat Important	31	12.1
		Not Important	34	13.3



**Table REC 2-25. General Visitor Survey Results – Section A-1 – Background Section – ASRA Area (continued).**

**Q-11.** How important are each of the following facilities or amenities when choosing this area to recreate (continued)?

Facility/Amenity	Total # of Respondents	Possible Answers	Frequency	Percent
OHV Trails	225	Very Important	38	16.9
		Important	30	13.3
		Somewhat Important	29	12.9
		Not Important	128	56.9
Mountain bike trails	239	Very Important	73	30.5
		Important	52	21.8
		Somewhat Important	36	15.1
		Not Important	78	32.6
Fishing access trails	242	Very Important	71	29.3
		Important	52	21.5
		Somewhat Important	43	17.8
		Not Important	76	31.4
Equestrian trails	235	Very Important	48	20.4
		Important	29	12.3
		Somewhat Important	33	14.0
		Not Important	125	53.2
Interpretive/ educational exhibits/information	223	Very Important	34	15.2
		Important	35	15.7
		Somewhat Important	41	18.4
		Not Important	113	50.7
Other	16	Very Important	13	81.3
		Important	2	12.5
		Somewhat Important	1	6.3
		Not Important	-	-

**Table REC 2-25. General Visitor Survey Results – Section A-1 – Background Section – ASRA Area (continued).**

**Q-12.** Identify the activities you engaged in, or expect to engage in, during your trip to this area.

Total # of Respondents	Primary Activity	Frequency	Percent
195	Stream swimming/water-play/sun bathing	37	19.0
	Whitewater boating (rafting, kayaking, canoeing)	36	18.5
	Hiking/walking	25	12.8
	Camping in developed site	21	10.8
	Relaxing	17	8.7
	Reservoir swimming/water-play/sun bathing	16	8.2
	Gold panning/dredging	8	4.1
	Picnicking in developed sites	5	2.6
	Picnicking in undeveloped sites	5	2.6
	Mountain biking	4	2.1
	Driving for pleasure on roads	3	1.5
	Stream fishing	3	1.5
	Bicycling on paved surfaces	2	1.0
	Camping in undeveloped site	2	1.0
	Rock hounding	2	1.0
	Horseback riding	1	0.5
	Non-motorized reservoir boating (canoeing, kayaking, row boating)	1	0.5
	OHV travel/use	1	0.5
	Reservoir fishing	1	0.5
Other	5	2.6	

Analytical Note: Respondents were asked to indicate one primary activity. A total of 88 respondents either did not answer the question or provided multiple primary reasons. These responses were considered invalid and omitted from the analysis. Therefore the analysis is based on the 195 respondents who correctly answered the question.

**Table REC 2-25. General Visitor Survey Results – Section A-1 – Background Section – ASRA Area (continued).**

**Q-12.** Identify the activities you engaged in, or expect to engage in, during your trip to this area (continued).

Total # of Respondents	Secondary Activity	Frequency	Percent
195	Relaxing	69	35.4
	Hiking/walking	46	23.6
	Stream swimming/water-play/sun bathing	40	20.5
	Viewing wildlife, scenery photography, etc.	34	17.4
	Picnicking in undeveloped sites	22	11.3
	Reservoir swimming/water-play/sun bathing	18	9.2
	Picnicking in developed sites	16	8.2
	Reservoir fishing	11	5.6
	Camping in undeveloped site	10	5.1
	Driving for pleasure on roads	10	5.1
	Gold panning/dredging	10	5.1
	Camping in developed site	9	4.6
	Mountain biking	8	4.1
	Rock hounding	8	4.1
	Stream fishing	8	4.1
	Visiting historical/cultural sites	7	3.6
	Non-motorized reservoir boating (canoeing, kayaking, row boating)	6	3.1
	Horseback riding	5	2.6
	Whitewater boating (rafting, kayaking, canoeing)	5	2.6
	Bicycling on paved surfaces	2	1.0
	Plant gathering (berries, mushrooms, grasses, etc.)	2	1.0
	Water skiing, wake boarding	2	1.0
	Personal water craft (jet skiing)	1	0.5
Sailing	1	0.5	
Sports/games/field activities	1	0.5	
Wood cutting	1	0.5	
Other	1	0.5	

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Table REC 2-25. General Visitor Survey Results – Section A-1 – Background Section – ASRA Area (continued).****Q-13.** Please rate the availability and adequacy of the following information resources.

Information Resources	Total # of Respondents	Possible Answers	Frequency	Percent
Interpretive/educational information	239	Acceptable	104	43.5
		Somewhat Acceptable	51	21.3
		Not Acceptable	12	5.0
		Not Applicable	72	30.1
Recreation visitor information	242	Acceptable	117	48.3
		Somewhat Acceptable	57	23.6
		Not Acceptable	9	3.7
		Not Applicable	59	24.4
Safety/warning information	251	Acceptable	149	59.4
		Somewhat Acceptable	52	20.7
		Not Acceptable	11	4.4
		Not Applicable	39	15.5
Reservoir water surface elevation information	231	Acceptable	90	39.0
		Somewhat Acceptable	53	22.9
		Not Acceptable	15	6.5
		Not Applicable	73	31.6
River/stream flow information	241	Acceptable	116	48.1
		Somewhat Acceptable	49	20.3
		Not Acceptable	25	10.4
		Not Applicable	51	21.2
Other	1	Acceptable	-	-
		Somewhat Acceptable	1	100.0
		Not Acceptable	-	-
		Not Applicable	-	-

**Q-14.** How would you rate your overall recreation experience?

Total # of Respondents	Possible Answers	Frequency	Percent
278	Very Satisfied	188	67.6
	Satisfied	75	27.0
	Somewhat Satisfied	12	4.3
	Unsatisfied	0	-
	Very Unsatisfied	3	1.1

**Table REC 2-25. General Visitor Survey Results – Section A-1 – Background Section – ASRA Area (continued).**

**Q-15.** Are there additional recreation facilities, amenities, or opportunities that would improve your recreation experience?

Total # of Respondents	Possible Answers	Frequency	Percent
216	Yes	50	23.1
	No	166	76.9

Of the 50 people who said “yes”, forty-five provided comments which are summarized below by category. Some respondents provided comments that described multiple categories; therefore the total number of comments exceeds the total number of respondents.

Facility/Amenity	# of Comments	Percent of Total
Signage/Additional Information	10	19.6
More Developments	6	11.8
Drinking Water	5	9.8
Restrooms	5	9.8
Road/Parking Improvement	5	9.8
More Law Enforcement	4	7.8
More Trails/Better Access	3	5.9
Cost/Fees	2	3.9
Too Crowded/Disruptive People	2	3.9
Camping	1	2.0
Community Involvement	1	2.0
Low Water Levels	1	2.0
Picnic Tables	1	2.0
Safety/Emergency Services	1	2.0
Showers	1	2.0
Trash Disposal	1	2.0
Unsatisfactory Fishing	1	2.0
N/A	1	2.0
<b>TOTAL</b>	<b>51</b>	<b>100.0</b>

**Table REC 2-26. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – ASRA Area.**

**Q-1.** Camping is allowed at one developed area in the ASRA area:

- Ruck-a-Chucky

A total of 40 who participated in the General Visitor Survey indicated that they camped at Ruck-a-Chucky.

**Q-2.** Name of primary campground used:

Campground	Frequency	Percent
Ruck-a-Chucky	40	100.0

**Q-3.** How many nights will you camp during this visit?

Total # of Respondents	Average # of Nights	Standard Deviation	Range (Min. – Max.)
38	2.7	2.9	1-14

**Q-4a.** Were you able to camp at your first choice campground?

Total # of Respondents	Possible Answers	Frequency	Percent
39	Yes	33	84.6
	No	6	15.4

**Q-4b.** If no, what was your first choice campground?

Location	First Choice	Frequency
Campground/Campsite within Region	Beach with fire pit	1
	Close to water	1
	On the beach	1

**Table REC 2-26. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – ASRA Area (continued).****Q-5.** What was your method of camping?

Total # of Respondents	Camping Method	Frequency	Percent
40	Tent	34	85.0
	Multiple methods	1	2.5
	Tent trailer	0	-
	Recreational vehicle less than 25 feet	0	-
	Recreational vehicle 25-35 feet	0	-
	Recreational vehicle longer than 35 feet	0	-
	Trailer less than 25 feet	0	-
	Trailer 25-35 feet	0	-
	Trailer longer than 35 feet	0	-
	Other	5	12.5

**Q-6.** Please rate the following factors at the campground identified above.

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Campsite availability	39	Acceptable	29	74.4
		Somewhat Acceptable	9	23.1
		Not Acceptable	1	2.6
Campsite condition	39	Acceptable	31	79.5
		Somewhat Acceptable	8	20.5
		Not Acceptable	0	-
Campsite cleanliness	39	Acceptable	28	71.8
		Somewhat Acceptable	9	23.1
		Not Acceptable	2	5.1
Adequacy of campsite screening	35	Acceptable	18	51.4
		Somewhat Acceptable	17	48.6
		Not Acceptable	0	-
Adequacy of campsite shading	37	Acceptable	21	56.8
		Somewhat Acceptable	14	37.8
		Not Acceptable	2	5.4
Restroom condition	39	Acceptable	26	66.7
		Somewhat Acceptable	12	30.8
		Not Acceptable	1	2.6

**Table REC 2-26. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – ASRA Area (continued).****Q-6.** Please rate the following factors at the campground identified above (continued).

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Restroom cleanliness	39	Acceptable	27	69.2
		Somewhat Acceptable	11	28.2
		Not Acceptable	1	2.6
Drinking water availability	35	Acceptable	10	28.6
		Somewhat Acceptable	4	11.4
		Not Acceptable	21	60.0
Trash disposal	39	Acceptable	30	76.9
		Somewhat Acceptable	6	15.4
		Not Acceptable	3	7.7
Parking availability	39	Acceptable	32	82.1
		Somewhat Acceptable	7	17.9
		Not Acceptable	0	-
Parking area condition	37	Acceptable	31	83.8
		Somewhat Acceptable	4	10.8
		Not Acceptable	2	5.4
Adequacy of food storage lockers	33	Acceptable	11	33.3
		Somewhat Acceptable	5	15.2
		Not Acceptable	17	51.5
Condition of food storage lockers	31	Acceptable	10	32.3
		Somewhat Acceptable	3	9.7
		Not Acceptable	18	58.1
Parking spur size	35	Acceptable	22	62.9
		Somewhat Acceptable	7	20.0
		Not Acceptable	6	17.1
Road condition in campground	39	Acceptable	21	53.8
		Somewhat Acceptable	9	23.1
		Not Acceptable	9	23.1
Adequacy of road size in campground	39	Acceptable	28	71.8
		Somewhat Acceptable	10	25.6
		Not Acceptable	1	2.6
Cost of campground fee	38	Acceptable	29	76.3
		Somewhat Acceptable	8	21.1
		Not Acceptable	1	2.6



**Table REC 2-26. General Visitor Survey Results – Section A-2 – Camping at Developed Sites – ASRA Area (continued).**

**Q-6.** Please rate the following factors at the campground identified above (continued).

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Adequacy of law enforcement personnel	35	Acceptable	27	77.1
		Somewhat Acceptable	5	14.3
		Not Acceptable	3	8.6
Other	0	Acceptable	-	-
		Somewhat Acceptable	-	-
		Not Acceptable	-	-

**Q-7.** Were the services and/or facilities at the campground you identified above adequate for any physically impaired person in your party?

Total # of Respondents	Possible Answers	Frequency	Percent
38	Not applicable	23	60.5
	Yes	6	15.8
	No	9	23.7

**Q-8.** Was your recreation experience negatively affected by:

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Crowding	39	Yes	3	7.7
		No	36	92.3
Other activities taking place	37	Yes	5	13.5
		No	32	86.5

**Q-9.** How would you rate your overall experience at the campground identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
39	Very Satisfied	26	66.7
	Satisfied	12	30.8
	Somewhat Satisfied	0	-
	Unsatisfied	0	-
	Very Unsatisfied	1	2.6

**Table REC 2-27. General Visitor Survey Results – Section A-3 – Day Use at Developed Sites – ASRA Area.**

**Q-1.** The ASRA area includes four developed day use facilities:

- Ruck-a-Chucky
- Mammoth Bar
- Confluence Area
- Birdsall Access/Oregon Bar

Four people who recreated in ASRA completed Section A-3 of the survey form. All four of these people identified Ruck-a-Chucky as their primary day use site. Therefore, the responses below pertain to the Ruck-a-Chucky.

**Q-2.** Name of primary day use site:

Day Use Site	Frequency	Percent
Ruck-a-Chucky	4	100.0
Mammoth Bar	0	-
Confluence	0	-
Birdsall Access/Oregon Bar	0	-

**Q-3.** How many hours did you, or will you, stay at your primary day use site?

Total # of Respondents	Average # of Hours	Standard Deviation	Range (Min. – Max.)
4	2.3	0.5	2-3

**Q-4.** Were you able to use your first choice developed day use site?

Total # of Respondents	Possible Answers	Frequency	Percent
4	Yes	3	75.0
	No	1	25.0

**Table REC 2-27. General Visitor Survey Results – Section A-3 – Day Use at Developed Sites – ASRA Area (continued).**

**Q-5.** Please rate the following factors at the developed day use site identified above.

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Picnic site availability	4	Acceptable	4	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Picnic site condition	4	Acceptable	4	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Picnic site cleanliness	4	Acceptable	4	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Trash disposal	4	Acceptable	4	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Parking availability	4	Acceptable	4	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Parking area condition	4	Acceptable	4	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Restroom condition	4	Acceptable	4	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Restroom cleanliness	4	Acceptable	4	100.0
		Somewhat Acceptable	0	-
		Not Acceptable	0	-
Drinking water availability	4	Acceptable	1	25.0
		Somewhat Acceptable	0	-
		Not Acceptable	3	75.0
Adequacy of law enforcement personnel	4	Acceptable	2	50.0
		Somewhat Acceptable	1	25.0
		Not Acceptable	1	25.0

**Table REC 2-27. General Visitor Survey Results – Section A-3 – Day Use at Developed Sites – ASRA Area (continued).**

**Q-6.** Were the services and/or facilities at the area you identified above adequate for any physically impaired person in your party?

Total # of Respondents	Possible Answers	Frequency	Percent
4	Not applicable	4	100.0
	Yes	0	-
	No	0	-

**Q-7.** Was your recreation experience **negatively** affected by:

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Crowding	4	Yes	2	50.0
		No	2	50.0
Other activities taking place	4	Yes	1	25.0
		No	3	75.0

**Q-8.** How would you rate your overall experience at the day use site identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
4	Very Satisfied	4	100.0
	Satisfied	0	-
	Somewhat Satisfied	0	-
	Unsatisfied	0	-
	Very Unsatisfied	0	-

**Table REC 2-28. Number of Form B Surveys Completed by Site.**

Site Description	Number of Form B Surveys Completed	
<b>Hell Hole Reservoir Area</b>		
Big Meadow's Campground	8	
Hell Hole Campground	1	
Upper Hell Hole Campground	0	
Hell Hole General Parking Area	23	
Hell Hole Boat Ramp Parking Areas		
Hell Hole Boat Ramp		
Grey Horse Area	0	
<b>Total:</b>	<b>32</b>	
<b>French Meadows Reservoir Area</b>		
Ahart Campground	5	
French Meadows Campground	16	
Lewis Campground	11	
Poppy Campground	0	
Coyote/Gates Group Campgrounds	0	
French Meadow Picnic Area (U8a) and Boat Ramp (U8b)	13	
McGuire Picnic Area	3	
McGuire Boat Ramp		
Parking/Trailhead to Poppy Campground		
Large Areas on road west of FM Reservoir	0	
Area located immediately west of FM Reservoir (near spillway)		
<b>Total:</b>	<b>48</b>	
<b>Long Canyon Area</b>		
Middle Meadow's Campground	0	
<b>Duncan Creek Area</b>		
Area North of Duncan Creek Diversion	3	
Area Near Duncan Creek Gage and Weir		
Area near new bridge crossing Duncan Creek		
<b>Ralston Afterbay Area</b>		
Indian Bar Rafting Access and General Parking	27	
Ralston Picnic Area		
Ralston Picnic Area Cartop Boat Ramp		
Ralston Powerhouse Parking Turnout		
<b>Total Number of Form B Surveys Completed:</b>		<b>110</b>

Note: Form B was not administered at any of the sites located in ASRA.

**Table REC 2-29. Form B Survey Results – Hell Hole Reservoir Area.**

**Q-1.** Your place of residence (zip code):

Total # of Respondents	County in California	Frequency	Percent
32	Placer	10	31.2
	Sacramento	10	31.2
	El Dorado	4	12.5
	Yolo	2	6.2
	Alameda	1	3.1
	Contra Costa	1	3.1
	Napa	1	3.1
	Sutter	1	3.1
	Yuba	1	3.1
	<b>Location outside of California</b>	<b>Frequency</b>	<b>Percent</b>
	Utah	1	3.1

Analytical Note: Counties were determined using zip codes provided by the respondent.

**Q-2.** How many and what types of vehicles and trailers were brought in with your group?

Total # of Respondents	Vehicle or Trailer	Frequency <sup>1</sup>	Percent <sup>1</sup>	Average # per group <sup>2</sup>
32	Car/pickup/SUV	29	90.6	1.0
	Boat trailer	16	50.0	1.0
	Utility trailer	3	9.4	1.0
	Motor home/RV	2	6.2	1.5
	Towed/Trailer Vehicle	2	6.2	1.0
	Travel trailer	1	3.1	1.0
	Motorcycle	0	-	-
	OHV	0	-	-
	Horse trailer	0	-	-
	Other	0	-	-

<sup>1</sup>Includes all responses.

<sup>2</sup>Includes only responses that provided the number of vehicles in their group.

**Q-3.** How many years have you recreated in this area?

Total # of Respondents	Average # of Years	Standard Deviation	Range (Min. – Max.)
32	17.3	12.4	0-45

**Table REC 2-29. Form B Survey Results – Hell Hole Reservoir Area (continued).**

**Q-4.** How many times a year do you typically visit this area?

Total # of Respondents	Average # of Times per Year	Standard Deviation	Range (Min. – Max.)
32	4.6	4.3	1-20

**Q-5.** What time of year do you typically visit this area?

Total # of Respondents	Time of Year	Frequency	Percent
32	January – April	0	-
	May – September	32	100.0
	October – December	0	-

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Q-6.** Indicate the main roads used to get to this destination.

- FR-96 (Mosquito Ridge Road) – 27 respondents
  - Foresthill Road to FR23
  - FR 23 to Fr 96.52
  - Fr 96.52 to FR 22
- FR-22 (Soda Springs-Riverton Road) – 27 respondents
  - FR 96 to FR2
- FR-2 (Eleven Pines Road) – 27 respondents
  - FR 22 to Hell Hole Boat Ramp Access Road

**Table REC 2-29. Form B Survey Results – Hell Hole Reservoir Area (continued).**

**Q-7.** During your stay, did you recreate within the highlighted area shown on the map?

If yes, where did you visit?

Total # of Respondents	Possible Answers	Frequency	Percent
32	Yes	32	100.0
	No	0	-

Total # of Respondents	Site Visited	Frequency	Percent
32	Hell Hole Boat Ramp	25	78.1
	Big Meadows Campground	8	25.0
	Hell Hole Vista	2	6.3
	Hell Hole Campground	1	3.1

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Q-8.** During your stay, did you recreate outside the highlighted area shown on the map?

If yes, where did you visit?

Total # of Respondents	Possible Answers	Frequency	Percent
32	Yes	0	-
	No	32	100.0



**Table REC 2-29. Form B Survey Results – Hell Hole Reservoir Area (continued).****Q-9.** How much money did you spend in the following towns on this visit?

<b>TOTAL NUMBER OF RESPONDENTS: 26</b>		
<b>AUBURN</b>		
<b>Items Purchased</b>	<b>Average Amount Spent</b>	<b>Standard Deviation</b>
Overnight lodging	\$0.77	\$3.92
Food and beverages at restaurants	\$1.92	\$6.34
Supplies (groceries, film, bait, etc.)	\$7.31	\$18.45
Gasoline	\$23.08	\$33.20
Recreation equipment rentals and tours	\$0	\$0
Other	\$0	\$0
<b>Totals for Auburn</b>	<b>\$33.08</b>	<b>\$54.54</b>
<b>FORESTHILL</b>		
<b>Items Purchased</b>	<b>Average Amount Spent</b>	<b>Standard Deviation</b>
Overnight lodging	\$0	\$0
Food and beverages at restaurants	\$0.96	\$4.90
Supplies (groceries, film, bait, etc.)	\$0.96	\$4.90
Gasoline	\$18.85	\$31.51
Recreation equipment rentals and tours	\$0	\$0
Other	\$0	\$0
<b>Totals for Foresthill</b>	<b>\$20.77</b>	<b>\$34.40</b>
<b>GEORGETOWN</b>		
<b>Items Purchased</b>	<b>Average Amount Spent</b>	<b>Standard Deviation</b>
Overnight lodging	\$2.31	\$11.77
Food and beverages at restaurants	\$0	\$0
Supplies (groceries, film, bait, etc.)	\$3.46	\$12.94
Gasoline	\$6.54	\$19.38
Recreation equipment rentals and tours	\$0	\$0
Other	\$0	\$0
<b>Totals for Georgetown</b>	<b>\$12.31</b>	<b>\$30.37</b>
<b>Total average spending in all three towns on trip to Hell Hole Reservoir Area: \$66.16</b>		

Analytical Note: Not all survey respondents were comfortable giving specific information about the amount they spent on their trip; therefore results are only including respondents that gave dollar amounts. Results include respondents that specified their spending was \$0.

**Table REC 2-30. Form B Survey Results – French Meadows Reservoir Area.**

**Q-1.** Your place of residence (zip code):

Total # of Respondents	County in California	Frequency	Percent
48	Sacramento	15	31.2
	Placer	14	29.2
	Contra Costa	4	8.3
	El Dorado	2	4.2
	Monterey	2	4.2
	Santa Clara	2	4.2
	Shasta	2	4.2
	Alameda	1	2.1
	Fresno	1	2.1
	Napa	1	2.1
	San Francisco	1	2.1
	Stanislaus	1	2.1
	Sutter	1	2.1
	<b>Location outside of California</b>	<b>Frequency</b>	<b>Percent</b>
Arizona	1	2.1	

Analytical Note: Counties were determined using zip codes provided by the respondent.

**Q-2.** How many and what types of vehicles and trailers were brought in with your group?

Total # of Respondents	Vehicle or Trailer	Frequency <sup>1</sup>	Percent <sup>1</sup>	Average # per group <sup>2</sup>
48	Car/pickup/SUV	38	79.2	1.1
	Motor home/RV	12	25.0	1.0
	Boat trailer	9	18.8	1.1
	Travel trailer	5	10.4	1.0
	Towed/Trailered Vehicle	3	6.2	1.0
	Utility trailer	3	6.2	1.0
	Motorcycle	1	2.1	1.0
	OHV	0	-	-
	Horse trailer	0	-	-
	Other	0	-	-

<sup>1</sup>Includes all responses.

<sup>2</sup>Includes only responses that provided the number of vehicles in their group.

**Table REC 2-30. Form B Survey Results – French Meadows Reservoir Area (continued).**

**Q-3.** How many years have you recreated in this area?

Total # of Respondents	Average # of Years	Standard Deviation	Range (Min. – Max.)
48	17.3	15.0	0-60

**Q-4.** How many times a year do you typically visit this area?

Total # of Respondents	Average # of Times per Year	Standard Deviation	Range (Min. – Max.)
48	3.4	3.3	0-15

**Q-5.** What time of year do you typically visit this area?

Total # of Respondents	Time of Year	Frequency	Percent
46	January – April	0	-
	May – September	46	100.0
	October – December	0	-

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Q-6.** Indicate the main roads used to get to this destination.

- FR-96 (Mosquito Ridge Road)
  - Foresthill Road to FR23 – 48 respondents
  - FR 23 to Fr 96.52 – 48 respondents
  - Fr 96.52 to FR 22 – 48 respondents
  - FR 22 to end of French Meadows Reservoir – 48 respondents

**Table REC 2-30. Form B Survey Results – French Meadows Reservoir Area (continued).****Q-7.** During your stay, did you recreate within the highlighted area shown on the map?

If yes, where did you visit?

Total # of Respondents	Possible Answers	Frequency	Percent
48	Yes	48	100.0
	No	0	-

Total # of Respondents	Site Visited	Frequency	Percent
48	French Meadows Boat Ramp	24	50.0
	French Meadows Campground	17	35.4
	Lewis Campground	11	22.9
	Ahart Campground	5	10.4
	French Meadows Picnic Area	4	8.3
	McGuire Boat Ramp	3	6.3
	Hell Hole Boat Ramp	1	2.1

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Q-8.** During your stay, did you recreate outside the highlighted area shown on the map?

If yes, where did you visit?

Total # of Respondents	Possible Answers	Frequency	Percent
48	Yes	2	4.2
	No	46	95.8

Total # of Respondents	Site Visited	Frequency	Percent
2	North Fork of the American River	1	50.0
	Sugar Pine	1	50.0

**Table REC 2-30. Form B Survey Results – French Meadows Reservoir Area (continued).****Q-9.** How much money did you spend in the following towns on this visit?

<b>TOTAL NUMBER OF RESPONDENTS: 42</b>		
<b>AUBURN</b>		
<b>Items Purchased</b>	<b>Average Amount Spent</b>	<b>Standard Deviation</b>
Overnight lodging	\$6.67	\$24.36
Food and beverages at restaurants	\$5.71	\$13.23
Supplies (groceries, film, bait, etc.)	\$17.26	\$31.93
Gasoline	\$35.29	\$33.83
Recreation equipment rentals and tours	\$0	\$0
Other	\$0	\$0
<b>Totals for Auburn</b>	<b>\$64.93</b>	<b>\$57.66</b>
<b>FORESTHILL</b>		
<b>Items Purchased</b>	<b>Average Amount Spent</b>	<b>Standard Deviation</b>
Overnight lodging	\$0	\$0
Food and beverages at restaurants	\$1.19	\$4.53
Supplies (groceries, film, bait, etc.)	\$4.34	\$11.78
Gasoline	\$8.76	\$18.10
Recreation equipment rentals and tours	\$0	\$0
Other	\$0	\$0
<b>Totals for Foresthill</b>	<b>\$14.29</b>	<b>\$25.81</b>
<b>GEORGETOWN</b>		
<b>Items Purchased</b>	<b>Average Amount Spent</b>	<b>Standard Deviation</b>
Overnight lodging	\$0	\$0
Food and beverages at restaurants	\$0	\$0
Supplies (groceries, film, bait, etc.)	\$0	\$0
Gasoline	\$0	\$0
Recreation equipment rentals and tours	\$0	\$0
Other	\$0	\$0
<b>Totals for Georgetown</b>	<b>\$0</b>	<b>\$0</b>
<b>Total average spending in all three towns on trip to French Meadows Reservoir Area: \$79.22</b>		

Analytical Note: Not all survey respondents were comfortable giving specific information about the amount they spent on their trip; therefore results are only including respondents that gave dollar amounts. Results include respondents that specified their spending was \$0.

**Table REC 2-31. Form B Survey Results – Duncan Creek Diversion Area.**

**Q-1.** Your place of residence (zip code):

Total # of Respondents	County in California	Frequency	Percent
3	Placer	3	100.0

Analytical Note: Counties were determined using zip codes provided by the respondent.

**Q-2.** How many and what types of vehicles and trailers were brought in with your group?

Total # of Respondents	Vehicle or Trailer	Frequency <sup>1</sup>	Percent <sup>1</sup>	Average # per group <sup>2</sup>
3	Car/pickup/SUV	3	100.0	1.0
	Boat trailer	0	-	-
	Motor home/RV	0	-	-
	Towed/Trailered Vehicle	0	-	-
	Travel trailer	0	-	-
	Motorcycle	0	-	-
	Utility trailer	0	-	-
	OHV	0	-	-
	Horse trailer	0	-	-
	Other	0	-	-

<sup>1</sup>Includes all responses.

<sup>2</sup>Includes only responses that provided the number of vehicles in their group.

**Q-3.** How many years have you recreated in this area?

Total # of Respondents	Average # of Years	Standard Deviation	Range (Min. – Max.)
3	52.7	9.3	45-63

**Q-4.** How many times a year do you typically visit this area?

Total # of Respondents	Average # of Times per Year	Standard Deviation	Range (Min. – Max.)
3	15.7	4.0	12-20

**Table REC 2-31. Form B Survey Results – Duncan Creek Diversion Area (continued).**

**Q-5.** What time of year do you typically visit this area?

Total # of Respondents	Time of Year	Frequency	Percent
3	January – April	0	-
	May – September	1	33.3
	October – December	3	100.0

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Q-6.** Indicate the main roads used to get to this destination.

- FR-96 (Mosquito Ridge Road)
  - Foresthill Road to FR23 – 3 respondents
  - FR 23 to Fr 96.52 – 3 respondents
- Fr 96.52 (Duncan Creek Diversion Intake Road)
  - FR 96 to Duncan Creek Diversion Area – 3 respondents

**Q-7.** During your stay, did you recreate within the highlighted area shown on the map?

If yes, where did you visit?

Total # of Respondents	Possible Answers	Frequency	Percent
3	Yes	3	100.0
	No	0	-

Total # of Respondents	Site Visited	Frequency	Percent
3	Duncan Creek Area	3	100.0

**Table REC 2-31. Form B Survey Results – Duncan Creek Diversion Area  
(continued).****Q-8.** During your stay, did you recreate outside the highlighted area shown on the map?

If yes, where did you visit?

Total # of Respondents	Possible Answers	Frequency	Percent
3	Yes	1	33.3
	No	2	66.7

Total # of Respondents	Site Visited	Frequency	Percent
1	North of Talbot Campground	1	100.0



**Table REC 2-31. Form B Survey Results – Duncan Creek Diversion Area (continued).****Q-9.** How much money did you spend in the following towns on this visit?

<b>TOTAL NUMBER OF RESPONDENTS: 3</b>		
<b>AUBURN</b>		
<b>Items Purchased</b>	<b>Average Amount Spent</b>	<b>Standard Deviation</b>
Overnight lodging	\$25.00	\$43.30
Food and beverages at restaurants	\$0	\$0
Supplies (groceries, film, bait, etc.)	\$16.67	\$28.87
Gasoline	\$20.00	\$34.64
Recreation equipment rentals and tours	\$0	\$0
Other	\$0	\$0
<b>Totals for Auburn</b>	<b>\$61.67</b>	<b>\$106.81</b>
<b>FORESTHILL</b>		
<b>Items Purchased</b>	<b>Average Amount Spent</b>	<b>Standard Deviation</b>
Overnight lodging	\$0	\$0
Food and beverages at restaurants	\$0	\$0
Supplies (groceries, film, bait, etc.)	\$10.00	\$17.32
Gasoline	\$36.37	\$32.15
Recreation equipment rentals and tours	\$0	\$0
Other	\$0	\$0
<b>Totals for Foresthill</b>	<b>\$46.67</b>	<b>\$41.63</b>
<b>GEORGETOWN</b>		
<b>Items Purchased</b>	<b>Average Amount Spent</b>	<b>Standard Deviation</b>
Overnight lodging	\$0	\$0
Food and beverages at restaurants	\$0	\$0
Supplies (groceries, film, bait, etc.)	\$0	\$0
Gasoline	\$0	\$0
Recreation equipment rentals and tours	\$0	\$0
Other	\$0	\$0
<b>Totals for Georgetown</b>	<b>\$0</b>	<b>\$0</b>
<b>Total average spending in all three towns on trip to Duncan Creek Area: \$108.34</b>		

Analytical Note: Not all survey respondents were comfortable giving specific information about the amount they spent on their trip; therefore results are only including respondents that gave dollar amounts. Results include respondents that specified their spending was \$0.

**Table REC 2-32. Form B Survey Results – Ralston Afterbay Area.**

**Q-1.** Your place of residence (zip code):

Total # of Respondents	County in California	Frequency	Percent
26	Placer	18	69.2
	Sacramento	4	15.4
	Butte	1	3.8
	Yuba	1	3.8
	<b>Location outside of California</b>	<b>Frequency</b>	<b>Percent</b>
	Oregon	1	3.8
	Utah	1	3.8

Analytical Note: Counties were determined using zip codes provided by the respondent.

**Q-2.** How many and what types of vehicles and trailers were brought in with your group?

Total # of Respondents	Vehicle or Trailer	Frequency <sup>1</sup>	Percent <sup>1</sup>	Average # per group <sup>2</sup>
27	Car/pickup/SUV	23	85.2	1.0
	Motorcycle	3	11.1	2.7
	Boat trailer	1	3.7	1.0
	Travel trailer	1	3.7	1.0
	Motor home/RV	0	-	-
	Towed/Trailer Vehicle	0	-	-
	Utility trailer	0	-	-
	OHV	0	-	-
	Horse trailer	0	-	-
	Other (Van)	1	3.7	1.0

<sup>1</sup>Includes all responses.

<sup>2</sup>Includes only responses that provided the number of vehicles in their group.

**Q-3.** How many years have you recreated in this area?

Total # of Respondents	Average # of Years	Standard Deviation	Range (Min. – Max.)
27	14.1	11.4	0-35

**Table REC 2-32. Form B Survey Results – Ralston Afterbay Area (continued).**

**Q-4.** How many times a year do you typically visit this area?

Total # of Respondents	Average # of Times per Year	Standard Deviation	Range (Min. – Max.)
27	5.2	4.4	0-20

**Q-5.** What time of year do you typically visit this area?

Total # of Respondents	Time of Year	Frequency	Percent
27	January – April	2	7.4
	May – September	27	100.0
	October – December	1	3.7

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Q-6.** Indicate the main roads used to get to this destination.

- FR-96 (Mosquito Ridge Road)
  - Foresthill Road to FR23 – 27 respondents
- FR-23 (Blacksmith Flat Road)
  - FR 96 to Ralston Afterbay – 27 respondents

**Q-7.** During your stay, did you recreate within the highlighted area shown on the map?

If yes, where did you visit?

Total # of Respondents	Possible Answers	Frequency	Percent
27	Yes	27	100.0
	No	0	-

Total # of Respondents	Site Visited	Frequency	Percent
27	Ralston Afterbay Area	27	100.0
	Big Trees	1	3.7
	Rubicon River (Above Ralston)	1	3.7

Analytical Note: Multiple responses were accepted. Therefore the sum of the percentages exceeds 100%.

**Table REC 2-32. Form B Survey Results – Ralston Afterbay Area (continued).****Q-8.** During your stay, did you recreate outside the highlighted area shown on the map?

If yes, where did you visit?

Total # of Respondents	Possible Answers	Frequency	Percent
27	Yes	2	7.4
	No	25	92.6

Total # of Respondents	Site Visited	Frequency	Percent
2	Ruck-a-Chucky	1	50.0
	Folsom Lake	1	50.0

**Table REC 2-32. Form B Survey Results – Ralston Afterbay Area (continued).****Q-9.** How much money did you spend in the following towns on this visit?

<b>TOTAL NUMBER OF RESPONDENTS: 25</b>		
<b>AUBURN</b>		
<b>Items Purchased</b>	<b>Average Amount Spent</b>	<b>Standard Deviation</b>
Overnight lodging	\$0	\$0
Food and beverages at restaurants	\$4.52	\$7.47
Supplies (groceries, film, bait, etc.)	\$3.80	\$9.61
Gasoline	\$27.80	\$25.33
Recreation equipment rentals and tours	\$0	\$0
Other	\$0	\$0
<b>Totals for Auburn</b>	<b>\$36.12</b>	<b>\$34.88</b>
<b>FORESTHILL</b>		
<b>Items Purchased</b>	<b>Average Amount Spent</b>	<b>Standard Deviation</b>
Overnight lodging	\$0	\$0
Food and beverages at restaurants	\$2.20	\$6.14
Supplies (groceries, film, bait, etc.)	\$3.60	\$7.15
Gasoline	\$8.40	\$18.80
Recreation equipment rentals and tours	\$0	\$0
Other	\$0	\$0
<b>Totals for Foresthill</b>	<b>\$14.20</b>	<b>\$20.75</b>
<b>GEORGETOWN</b>		
<b>Items Purchased</b>	<b>Average Amount Spent</b>	<b>Standard Deviation</b>
Overnight lodging	\$0	\$0
Food and beverages at restaurants	\$0	\$0
Supplies (groceries, film, bait, etc.)	\$0	\$0
Gasoline	\$0	\$0
Recreation equipment rentals and tours	\$0	\$0
Other	\$0	\$0
<b>Totals for Georgetown</b>	<b>\$0</b>	<b>\$0</b>
<b>Total average spending in all three towns on trip to Ralston Afterbay Area: \$50.32</b>		

Analytical Note: Not all survey respondents were comfortable giving specific information about the amount they spent on their trip; therefore results are only including respondents that gave dollar amounts. Results include respondents that specified their spending was \$0.

Table REC 2-33. Roads Used by Form B Survey Participants to Get to Each Area.

No. of Form B Surveys	Route Start	Travel Route and Road Segments								
		FR-96 (Mosquito Ridge Road)				FR-22 (Soda Springs-Riverton Road)	FR-2 (Eleven Pines Road)		Fr 96.52 (Duncan Creek Diversion Intake Road)	FR-23 (Blacksmith Flat Road)
		Foresthill Road to FR 23	FR 23 to Fr 96.52	Fr 96.52 to FR 22	FR 22 to end of FM Reservoir.	FR 96 to FR 2	Wentworth Springs Road to FR 22	FR 22 to HH Boat Ramp Access Road	FR 96 to Duncan Creek Diversion Area	FR 96 to Ralston Afterbay
<b>Hell Hole Reservoir Area</b>										
32	Foresthill	27	27	27	-	27	-	27	-	-
	Georgetown	-	-	-	-	-	5	5	-	-
<b>French Meadows Reservoir Area</b>										
48	Foresthill	48	48	48	48	-	-	-	-	-
<b>Duncan Creek Diversion Area</b>										
3	Foresthill	3	3	-	-	-	-	-	3	-
<b>Ralston Afterbay Area</b>										
27	Foresthill	27	-	-	-	-	-	-	-	27

**Table REC 2-34. General Visitor Survey Results – Form A – Section A-7 – Fishing.**

**Q-1.** A total of 968 people participated in the general visitor survey. Of those, 213 people completed all or a portion of Section A-7 - Fishing.

**Q-2.** Primary fishing location:

Location	Frequency	Percent
Hell Hole Reservoir	101	47.4
French Meadows Reservoir	63	29.6
River/Stream	16	7.5
Both French Meadows and Hell Hole Reservoirs	10	4.7
French Meadows Reservoir and River/Stream	9	4.2
Ralston Afterbay	6	2.8
Hell Hole Reservoir and River/Stream	5	2.3
Both Reservoirs and River Stream	2	0.9
Middle Fork Interbay	1	0.5

Analytical Notes:

The number of respondents that indicated they fished on a river/stream = 32. This number includes those people that indicated: 1) they only fished on a river/stream; and 2) they fished on both a river/stream and a reservoir.

**Table REC 2-34. General Visitor Survey Results – Form A – Section A-7 – Fishing (continued).**

**Q-3.** If river/stream fishing, what reach of river stream was your primary fishing location?

<b>River or Stream</b>	<b>Bypass Reaches</b>	<b># of Respondents</b>
Middle Fork American River	French Meadows Dam to Middle Fork Interbay	0
	Middle Fork Interbay Dam to Ralston Afterbay	3
Duncan Creek	Duncan Creek Diversion Dam to the Middle Fork American River Confluence	1
Rubicon River	Hell Hole Dam to Ralston Afterbay	1
North Fork Long Canyon Creek	North Fork Long Canyon Diversion Dam to the Confluence of Long Canyon Creek	0
South Fork Long Canyon Creek	South Fork Long Canyon Diversion Dam to the Confluence of Long Canyon Creek	0
Long Canyon Creek	Confluence of North and South Forks of Long Canyon Creek to confluence of Rubicon River	0
<b>River or Stream</b>	<b>Peaking Reach</b>	<b># of Respondents</b>
Middle Fork American River	Oxbow Powerhouse to the North Fork American River Confluence	5
North Fork American River	Middle Fork American River Confluence to the Folsom Reservoir High Water Mark	0
<b>River or Stream</b>	<b>Other</b>	<b># of Respondents</b>
Rubicon River	Upstream of Hell Hole Reservoir	5
Middle Fork American River	Upstream of French Meadows Reservoir	6
Middle Fork American River/Rubicon River	Not Specified	9
North Fork American River	Not Specified	2

Analytical Notes:

One respondent stated “all” under the Not Specified category. Another stated “American River”.

The number of respondents that indicated they fished on a river/stream = 32. This number includes those people that indicated: 1) they only fished on a river/stream; and 2) they fished on both a river/stream and a reservoir.



**Table REC 2-35. General Visitor Survey Results – Reservoir Angler Survey Results – Hell Hole Reservoir.**

**Q-1.** A total of 968 people participated in the general visitor survey. Of these, 213 people completed all or a portion of Section A-7 - Fishing. A total of 101 respondents indicated they fished at Hell Hole Reservoir. Their responses are tabulated below.

**Q-2.** Primary fishing location.

-Refer to Table REC 2-34. General Visitor Survey Results – Form A – Section A-7 – Fishing.

**Q-3.** If river/stream fishing, what reach of river/stream was your primary fishing location?

-Refer to Table REC 2-34. General Visitor Survey Results – Form A – Section A-7 – Fishing.

**Q-4.** How many total hours have you spent fishing during your visit at your primary fishing location?

Total # of Respondents	Hours	Frequency	Percent	Mean	Standard Deviation
83	1	3	3.6	10.8	8.6
	2	2	2.4		
	3	3	3.6		
	4	5	6.0		
	5	6	7.2		
	6	10	12.0		
	7	4	4.8		
	8	13	15.7		
	10	11	13.3		
	11	1	1.2		
	12	3	3.6		
	15	1	1.2		
	16	8	9.6		
	18	1	1.2		
	20	6	7.2		
	24	2	2.4		
	30	2	2.4		
	36	1	1.2		
56	1	1.2			

Analytical Note. Eighteen of the 101 respondents did not provide a valid response to this question. Therefore the total number of respondents = 83.

**Table REC 2-35. General Visitor Survey Results – Reservoir Angler Survey Results – Hell Hole Reservoir (continued).**

**Q-5.** From where did you fish?

Total # of Respondents	Location	Frequency	Percent
101	From a boat	80	79.2
	From the shoreline	27	26.7

Analytical Note. Multiple responses were accepted.

**Q-6.** What gear type(s) did you use today?

If fishing from a boat:

Total # of Respondents	Gear	Frequency	Percent
80	Troll lures	69	87.3
	Troll bait	43	54.4
	Cast lures	21	26.6
	Cast bait	11	13.9
	Fly fish	2	2.6

Analytical Note. Multiple responses were accepted.

If fishing from the shore:

Total # of Respondents	Gear	Frequency	Percent
27	Cast lures	19	70.4
	Cast bait	17	63.0
	Fly fish	4	14.8

Analytical Note. Multiple responses were accepted.

**Table REC 2-35. General Visitor Survey Results – Reservoir Angler Survey Results – Hell Hole Reservoir (continued).**

**Q-7.** Please indicate the number and type of fish you caught and the number and type of fish released.

Total # of Respondents	Type of Fish	Number of Fish Caught		Total Number of Fish Caught	Percent
		Kept	Released		
78	Rainbow Trout	28	47	75	16.6
	Lake Trout	16	20	36	8.0
	Brown Trout	43	58	101	22.4
	Kokanee	204	30	234	51.9
	Other	5	0	5	1.1
	Not Sure	0	0	0	0

Analytical Note. Twenty-three of the respondents did not provide a valid response to this question. Therefore the total number of respondents = 78. All of the “other” fish that were caught were identified as Mackinaw (lake trout).

Catch per unit effort based on responses to Q-4 and Q-7.

Total # of Respondents	Mean Number of Fish Caught per Hour	Standard Deviation
70	0.6	0.7

Analytical Note. Seventy of the respondents provided sufficient information to determine catch per unit effort. Specifically, 70 respondents provided valid responses for both number of hours fished and number of hours caught.

**Table REC 2-35. General Visitor Survey Results – Reservoir Angler Survey Results – Hell Hole Reservoir (continued).**

**Q-8.** Please rate your satisfaction with the following factors regarding your fishing experience at the primary fishing location identified above.

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Number of fish caught	92	Acceptable	40	43.5
		Somewhat Acceptable	31	33.7
		Not Acceptable	21	22.8
Variety of fishing locations	85	Acceptable	60	70.6
		Somewhat Acceptable	22	25.9
		Not Acceptable	3	3.5
Variety of fish species	86	Acceptable	63	73.3
		Somewhat Acceptable	19	22.1
		Not Acceptable	4	4.7
Size of fish	84	Acceptable	44	52.4
		Somewhat Acceptable	27	32.1
		Not Acceptable	13	15.5
Road access to fishing areas	86	Acceptable	52	60.5
		Somewhat Acceptable	21	24.4
		Not Acceptable	13	15.1
Trail access to fishing areas	68	Acceptable	39	57.4
		Somewhat Acceptable	21	30.9
		Not Acceptable	8	11.8

**Q-9.** How would you rate your overall fishing experience at the primary fishing location identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
98	Very Satisfied	41	41.8
	Satisfied	36	36.7
	Somewhat Satisfied	18	18.4
	Unsatisfied	3	3.1
	Very Unsatisfied	0	0

**Table REC 2-36. General Visitor Survey Results – Reservoir Angler Survey Results – French Meadows Reservoir.**

**Q-1.** A total of 968 people participated in the general visitor survey. Of these, 213 people completed all or a portion of Section A-7- Fishing. A total of 63 respondents indicated they fished at French Meadows Reservoir. Their responses are provided below.

**Q-2.** Primary fishing location.

-Refer to Table REC 2-34. General Visitor Survey Results – Form A – Section A-7 – Fishing.

**Q-3.** If river/stream fishing, what reach of river/stream was your primary fishing location?

-Refer to Table REC 2-34. General Visitor Survey Results – Form A – Section A-7 – Fishing.

**Q-4.** How many total hours have you spent fishing during your visit at your primary fishing location?

Total # of Respondents	Hours	Frequency	Percent	Mean	Standard Deviation
58	1	2	3.4	7.8	5.8
	2	4	6.9		
	3	6	10.3		
	4	8	13.8		
	5	3	5.2		
	6	5	8.6		
	7	1	1.7		
	8	10	17.2		
	9	4	6.9		
	10	6	10.3		
	12	3	5.2		
	15	1	1.7		
	20	3	5.2		
	25	1	1.7		
30	1	1.7			

Analytical Note. Five of the 63 respondents did not provide a valid response to this question. Therefore the total number of respondents = 58.

**Table REC 2-36. General Visitor Survey Results – Reservoir Angler Survey Results – French Meadows Reservoir (continued).**

**Q-5.** From where did you fish?

Total # of Respondents	Location	Frequency	Percent
60	From a boat	33	55.0
	From the shoreline	35	58.3

Analytical Note. Multiple responses were accepted.

**Q-6.** What gear type(s) did you use today?

If fishing from a boat:

Total # of Respondents	Gear	Frequency	Percent
33	Troll lures	27	81.8
	Troll bait	15	45.5
	Cast lures	7	21.2
	Cast bait	9	27.3
	Fly fish	2	6.1

Analytical Note. Multiple responses were accepted.

If fishing from the shore:

Total # of Respondents	Gear	Frequency	Percent
35	Cast lures	17	48.6
	Cast bait	28	80.0
	Fly fish	1	2.9

Analytical Note. Multiple responses were accepted.

**Table REC 2-36. General Visitor Survey Results – Reservoir Angler Survey Results – French Meadows Reservoir (continued).**

**Q-7.** Please indicate the number and type of fish you caught and the number and type of fish released.

Total # of Respondents	Type of Fish	Number of Fish Caught		Total Number of Fish Caught	Percent
		Kept	Released		
52	Rainbow Trout	111	51	162	84.4
	Lake Trout	8	0	8	4.2
	Brown Trout	8	3	11	5.7
	Kokanee	0	0	0	0
	Other	0	0	0	0
	Not Sure	0	11	11	5.7

Analytical Note. Eleven of the 63 respondents did not provide a valid response to this question. Therefore the total number of respondents = 52.

Catch per unit effort based on responses to Q-4 and Q-7.

Total # of Respondents	Mean Number of Fish Caught per Hour	Standard Deviation
50	0.5	0.5

Analytical Note. Fifty of the respondents provided sufficient information to determine catch per unit effort. Specifically, 50 respondents provided valid responses for both number of hours fished and number of hours caught.

**Table REC 2-36. General Visitor Survey Results – Reservoir Angler Survey Results – French Meadows Reservoir (continued).**

**Q-8.** Please rate your satisfaction with the following factors regarding your fishing experience at the primary fishing location identified above.

Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Number of fish caught	59	Acceptable	28	47.5
		Somewhat Acceptable	19	32.2
		Not Acceptable	12	20.3
Variety of fishing locations	55	Acceptable	37	67.3
		Somewhat Acceptable	15	27.3
		Not Acceptable	3	5.5
Variety of fish species	55	Acceptable	28	50.9
		Somewhat Acceptable	21	38.2
		Not Acceptable	6	10.9
Size of fish	58	Acceptable	27	46.6
		Somewhat Acceptable	23	39.7
		Not Acceptable	8	13.8
Road access to fishing areas	57	Acceptable	37	64.9
		Somewhat Acceptable	18	31.6
		Not Acceptable	2	3.5
Trail access to fishing areas	52	Acceptable	31	59.6
		Somewhat Acceptable	17	32.7
		Not Acceptable	4	7.7

**Q-9.** How would you rate your overall fishing experience at the primary fishing location identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
60	Very Satisfied	26	43.3
	Satisfied	19	31.7
	Somewhat Satisfied	10	16.7
	Unsatisfied	5	8.3
	Very Unsatisfied	0	0



**Table REC 2-37. General Visitor Survey Results – Reservoir Angler Survey Results – Ralston Afterbay.**

**Q-1.** A total of 968 people participated in the General Visitor Survey. Of these, 213 people completed all or a portion of Section A-7 - Fishing. Six respondents indicated they fished at Ralston Afterbay. Their responses are tabulated below.

**Q-2.** Primary fishing location.

-Refer to Table REC 2-34. General Visitor Survey Results – Form A – Section A-7 – Fishing.

**Q-3.** If river/stream fishing, what reach of river/stream was your primary fishing location?

-Refer to Table REC 2-34. General Visitor Survey Results – Form A – Section A-7 – Fishing.

**Q-4.** How many total hours have you spent fishing during your visit at your primary fishing location?

Total # of Respondents	Number of Hours	Frequency	Percent	Mean	Standard Deviation
5	1	1	20.0	7.4	5.1
	6	2	40.0		
	9	1	20.0		
	15	1	20.0		

Analytical Note. One of the six respondents did not provide a valid response to this question. Therefore the total number of respondents = five.

**Q-5.** From where did you fish?

Total # of Respondents	Location	Frequency	Percent
6	From a boat	2	33.3
	From the shoreline	4	66.7

**Table REC 2-37. General Visitor Survey Results – Reservoir Angler Survey Results – Ralston Afterbay (continued).**

**Q-6.** What gear type(s) did you use today?

If fishing from a boat:

Total # of Respondents	Gear	Frequency	Percent
2	Troll lures	2	100.0
	Troll bait	0	0
	Cast lures	2	100.0
	Cast bait	2	100.0
	Fly fish	0	0

Analytical Note. Multiple responses were accepted.

If fishing from the shore:

Total # of Respondents	Gear	Frequency	Percent
4	Cast lures	1	25.0
	Cast bait	4	100.0
	Fly fish	1	25.0

Analytical Note. Multiple responses were accepted.

**Table REC 2-37. General Visitor Survey Results – Reservoir Angler Survey Results – Ralston Afterbay (continued).**

**Q-7.** Please indicate the number and type of fish you caught and the number and type of fish released.

Total # of Respondents	Type of Fish	Number of Fish Caught		Total Number of Fish Caught	Percent
		Kept	Released		
5	Rainbow Trout	5	6	11	91.7
	Lake Trout	0	0	0	0
	Brown Trout	0	1	1	8.3
	Kokanee	0	0	0	0
	Other	0	0	0	0
	Not Sure	0	0	0	0

Analytical Note. One of the six respondents did not provide a valid response to this question. Therefore the total number of respondents = five.

Catch per unit effort based on responses to Q-4 and Q-7.

Total # of Respondents	Mean Number of Fish Caught per Hour	Standard Deviation
4	0.6	0.5

Analytical Note. Only four of the respondents provided sufficient information to determine catch per unit effort. Specifically, four respondents provided valid responses for both number of hours fished and number of hours caught.

**Table REC 2-37. General Visitor Survey Results – Reservoir Angler Survey Results – Ralston Afterbay (continued).**

**Q-8.** Please rate your satisfaction with the following factors regarding your fishing experience at the primary fishing location identified above.

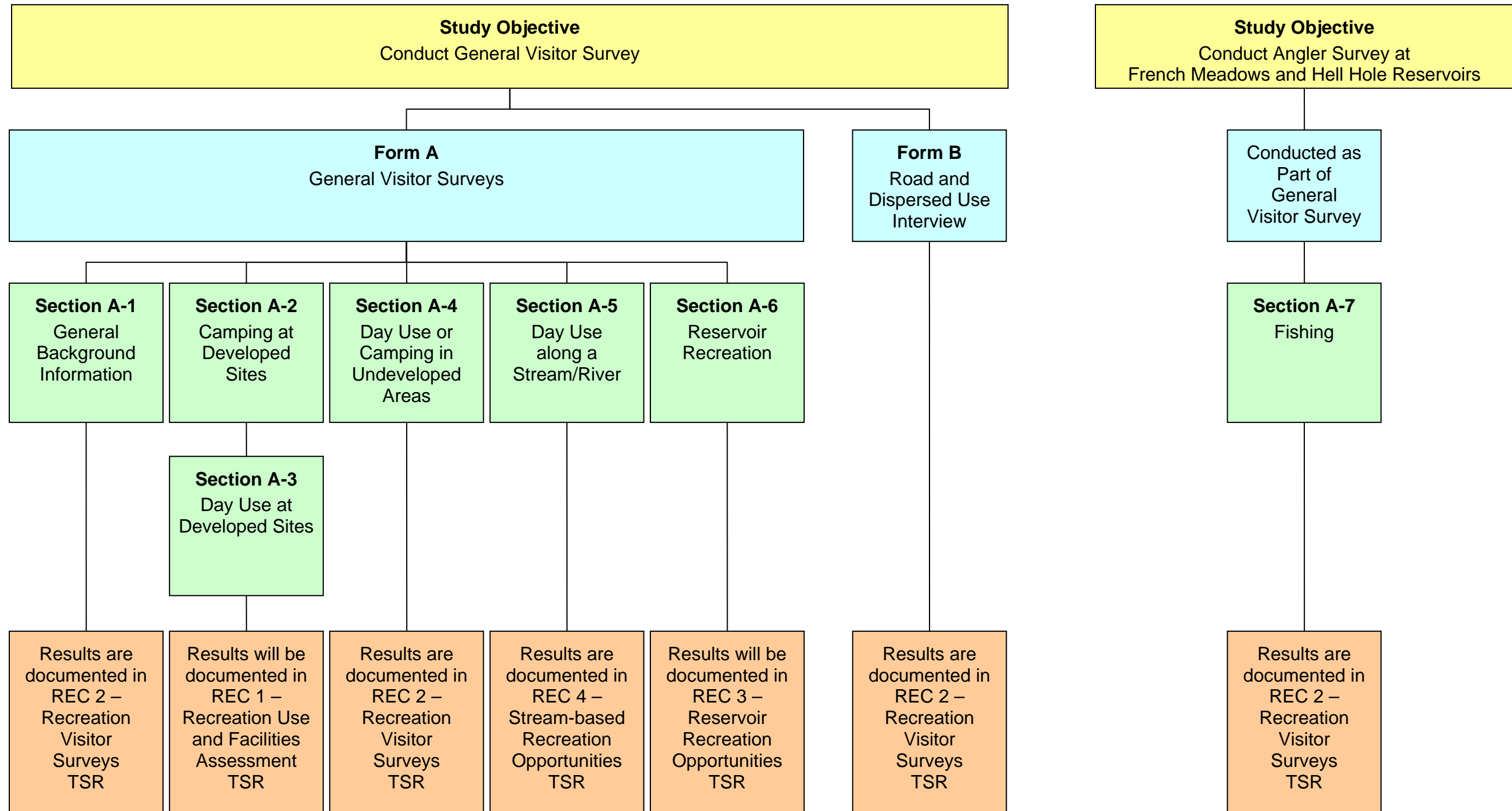
Factor	Total # of Respondents	Possible Answers	Frequency	Percent
Number of fish caught	4	Acceptable	3	75.0
		Somewhat Acceptable	1	25.0
		Not Acceptable	0	0
Variety of fishing locations	4	Acceptable	3	75.0
		Somewhat Acceptable	1	25.0
		Not Acceptable	0	0
Variety of fish species	5	Acceptable	4	80.0
		Somewhat Acceptable	1	20.0
		Not Acceptable	0	0
Size of fish	5	Acceptable	3	60.0
		Somewhat Acceptable	1	20.0
		Not Acceptable	1	20.0
Road access to fishing areas	5	Acceptable	4	80.0
		Somewhat Acceptable	1	20.0
		Not Acceptable	0	0
Trail access to fishing areas	5	Acceptable	4	80.0
		Somewhat Acceptable	1	20.0
		Not Acceptable	0	0

**Q-9.** How would you rate your overall fishing experience at the primary fishing location identified above?

Total # of Respondents	Possible Answers	Frequency	Percent
6	Very Satisfied	3	50.0
	Satisfied	2	33.0
	Somewhat Satisfied	1	16.7
	Unsatisfied	0	0
	Very Unsatisfied	0	0

**FIGURES**

Figure REC 2-1. REC 2 – Recreation Visitor Surveys TSP Study Objectives and Related Study Elements.



**MAPS**

**APPENDIX A**  
**General Visitor Survey – Form A**



# Placer County Water Agency - Middle Fork American River Project General Visitor Survey – Background Information

**Survey No.** \_\_\_\_\_ **Survey Location:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_

## SECTION A-1: BACKGROUND INFORMATION

1. Did you engage in any of the following activities during your visit?

- Camping at a developed site     
  Day use at a developed site     
  Day use or camping in undeveloped areas  
 Day use along a stream/river     
  Reservoir recreation     
  Fishing

2. What type of vehicle did you drive to this area?   
 Car/SUV/Truck   
 Camper/RV   
 Motorcycle   
 Other \_\_\_\_\_

3. How many people were in your vehicle? \_\_\_\_\_

4. How many people in your group are in the following age categories?

Under 18: \_\_\_\_\_    18 or over \_\_\_\_\_

5. How many and what types of vehicles and trailers did your **group** bring?

Car/pickup/SUV: \_\_\_\_\_      Motor home/RV: \_\_\_\_\_      Motorcycle: \_\_\_\_\_      OHV: \_\_\_\_\_  
 Towed/Trailered Vehicle: \_\_\_\_\_      Travel trailer: \_\_\_\_\_      Boat trailer: \_\_\_\_\_      Utility trailer: \_\_\_\_\_  
 Horse trailer: \_\_\_\_\_      Other: \_\_\_\_\_

6. Your place of residence: Zip Code: \_\_\_\_\_    If you reside out of the country, what country: \_\_\_\_\_

7. What year were you born? \_\_\_\_\_

8. Which cultural or ethnic group do you most closely identify with?

- Hispanic or Latino                     
  White/Caucasian                     
  Asian  
 Black/African American             
  American Indian or Alaskan Native  
 Native Hawaiian or Pacific Islander   
  Other/Multi-racial: \_\_\_\_\_

9. What is your primary spoken language? \_\_\_\_\_

10. Identify the reasons why you chose this area to recreate?

Reason	Main Reason (Check one)	Secondary Reason (Check one or more)
Close to home	<input type="checkbox"/>	<input type="checkbox"/>
Scenic quality of the area	<input type="checkbox"/>	<input type="checkbox"/>
Recreational activities/opportunities in the area	<input type="checkbox"/>	<input type="checkbox"/>
Access to lake/reservoir	<input type="checkbox"/>	<input type="checkbox"/>
Access to river/stream	<input type="checkbox"/>	<input type="checkbox"/>
Cost of facility access fee	<input type="checkbox"/>	<input type="checkbox"/>
Presence of on-site manager/host	<input type="checkbox"/>	<input type="checkbox"/>
Lack of crowding	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>

## Placer County Water Agency - Middle Fork American River Project General Visitor Survey – Background Information

11. How important are each of the following facilities or amenities when choosing this area to recreate?

Facility/Amenity	Very Important	Important	Somewhat Important	Not Important
Developed campsites	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Developed picnic sites	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flush restrooms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drinking water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RV dump station	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boat launch ramps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
River put-in/take-out	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hiking trails	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OHV trails	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mountain bike trails	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fishing access trails	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equestrian trails	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interpretive/educational exhibits/information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12. Identify the activities you engaged in, or expect to engage in, during your trip to this area.

Activities	Main Activity (Check one)	Secondary Activity (Check one or more)
Picnicking in developed sites	<input type="checkbox"/>	<input type="checkbox"/>
Picnicking in undeveloped sites	<input type="checkbox"/>	<input type="checkbox"/>
Camping in developed site	<input type="checkbox"/>	<input type="checkbox"/>
Camping in undeveloped site	<input type="checkbox"/>	<input type="checkbox"/>
Reservoir swimming/water-play/sun bathing	<input type="checkbox"/>	<input type="checkbox"/>
Reservoir fishing	<input type="checkbox"/>	<input type="checkbox"/>
Water skiing, wake boarding	<input type="checkbox"/>	<input type="checkbox"/>
Personal water craft (jet skiing)	<input type="checkbox"/>	<input type="checkbox"/>
Non-motorized reservoir boating (canoeing, kayaking, row boating)	<input type="checkbox"/>	<input type="checkbox"/>
Sailing	<input type="checkbox"/>	<input type="checkbox"/>
Stream swimming/water-play/sun bathing	<input type="checkbox"/>	<input type="checkbox"/>
Stream fishing	<input type="checkbox"/>	<input type="checkbox"/>
Whitewater boating (rafting, kayaking, canoeing)	<input type="checkbox"/>	<input type="checkbox"/>
Sports/games/field activities	<input type="checkbox"/>	<input type="checkbox"/>
Bicycling on paved surfaces	<input type="checkbox"/>	<input type="checkbox"/>
Hiking/walking	<input type="checkbox"/>	<input type="checkbox"/>
Horseback riding	<input type="checkbox"/>	<input type="checkbox"/>
Mountain biking	<input type="checkbox"/>	<input type="checkbox"/>
Visiting historic/cultural sites	<input type="checkbox"/>	<input type="checkbox"/>
Viewing wildlife, scenery photography, etc.	<input type="checkbox"/>	<input type="checkbox"/>
Driving for pleasure on roads	<input type="checkbox"/>	<input type="checkbox"/>
OHV travel/use	<input type="checkbox"/>	<input type="checkbox"/>
Plant gathering (berries, mushrooms, grasses, etc.)	<input type="checkbox"/>	<input type="checkbox"/>
Wood cutting	<input type="checkbox"/>	<input type="checkbox"/>
Hunting	<input type="checkbox"/>	<input type="checkbox"/>
Rock hounding	<input type="checkbox"/>	<input type="checkbox"/>
Gold panning/dredging	<input type="checkbox"/>	<input type="checkbox"/>
Relaxing	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>

# Placer County Water Agency - Middle Fork American River Project General Visitor Survey – Background Information

13. Please rate the availability and adequacy of the following information resources.

Information Resources	Acceptable	Somewhat Acceptable	Not Acceptable	Not Applicable
Interpretive/educational information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recreation visitor information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safety/warning information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reservoir water surface elevation information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
River/stream flow information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

14. How would you rate your overall recreation experience?

Very Satisfied	Satisfied	Somewhat Satisfied	Unsatisfied	Very Unsatisfied
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If unsatisfied please explain:

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15. Are there additional recreation facilities, amenities, or opportunities that would improve your recreation experience?

Yes     No

Please explain:

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**SECTION A-2**  
**Camping at Developed Sites**

1. Survey No. \_\_\_\_\_

2. Name of primary campground used: \_\_\_\_\_

3. How many nights will you camp during this visit? \_\_\_\_\_ (nights)

4. Were you able to camp at your first choice campground?  Yes  No

If no, what was your first choice campground? \_\_\_\_\_

5. What was your method of camping?

- :  Tent  Tent trailer  
 Recreational vehicle  less than 25 feet  25 – 35 feet  longer than 35 feet  
 Trailer:  less than 25 feet  25 – 35 feet  longer than 35 feet  
 Other: \_\_\_\_\_

6. Please rate the following factors at the campground identified above.

Factor	Acceptable	Somewhat Acceptable	Not Acceptable
Campsite availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Campsite condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Campsite cleanliness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequacy of campsite screening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequacy of campsite shading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Restroom condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Restroom cleanliness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drinking water availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trash disposal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parking availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parking area condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequacy of food storage lockers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of food storage lockers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parking spur size	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Road condition in campground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequacy of road size in campground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cost of campground fee	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequacy of law enforcement personnel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7. Were the services and/or facilities at the campground you identified above adequate for any physically impaired person in your party?  Not Applicable  Yes  No

If inadequate, please explain:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

8. Was your recreation experience **negatively** affected by:

- a) Crowding?  Yes  No  
 b) Other activities taking place?  Yes  No

If yes, please explain: \_\_\_\_\_

**SECTION A-2**  
**Camping at Developed Sites**

9. How would you rate your overall experience at the campground identified above?

<b>Very Satisfied</b>	<b>Satisfied</b>	<b>Somewhat Satisfied</b>	<b>Unsatisfied</b>	<b>Very Unsatisfied</b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If unsatisfied please explain:

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**SECTION A-3**  
**Day Use at Developed Sites (Picnic Areas/Vistas)**

1. Survey No. \_\_\_\_\_

2. Name of primary day use site: \_\_\_\_\_

3. How many hours did you, or will you, stay at your primary day use site? \_\_\_\_\_ (hours)

4. Were you able to use your first choice developed day use site?  Yes  No  
 If no, what was your first choice day use site? \_\_\_\_\_

5. Please rate the following factors at the developed day use site identified above.

Factor	Acceptable	Somewhat Acceptable	Not Acceptable
Picnic site availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Picnic site condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Picnic site cleanliness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trash disposal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parking availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parking area condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Restrooms condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Restrooms cleanliness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drinking water availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequacy of law enforcement personnel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. Were the services and/or facilities at the area you identified above adequate for any physically impaired person in your party?  Not Applicable  Yes  No

If inadequate, please explain:  
 \_\_\_\_\_  
 \_\_\_\_\_

7. Was your recreation experience **negatively** affected by:

- a) Crowding?  Yes  No
- b) Other activities taking place?  Yes  No

If yes, please explain:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

8. How would you rate your overall experience at the day use site identified above?

Very Satisfied	Satisfied	Somewhat Satisfied	Unsatisfied	Very Unsatisfied
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If unsatisfied please explain:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SECTION A-4**  
**Day Use or Camping in Undeveloped Areas**

1. Survey No. \_\_\_\_\_

2. Primary location: \_\_\_\_\_

3. How long did you, or will you, stay at the area identified above?

If day use only, how many hours: \_\_\_\_ (hours)

If camping, how many nights: \_\_\_\_\_ (nights)

4. If you camped, what was your method of camping?

Tent

Tent trailer

Recreational vehicle:  less than 25 feet  longer than 25 feet

Trailer:  less than 25 feet  longer than 25 feet

Other: \_\_\_\_\_

5. Was your recreation experience **negatively** affected by:

a) Crowding?  Yes  No

b) Other activities taking place?  Yes  No

If yes, explain:

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6. How would you rate your overall experience at the undeveloped area identified above?

Very Satisfied	Satisfied	Somewhat Satisfied	Unsatisfied	Very Unsatisfied
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If unsatisfied, please explain:

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**SECTION A-5**  
**Day Use along a Stream/River**

1. Survey No. \_\_\_\_\_

2. Primary stream/river reach used: \_\_\_\_\_

3. Other stream/river reach(s) used: \_\_\_\_\_

4. What was your main recreation activity at the primary stream/river reach identified above? \_\_\_\_\_

5. Approximately what time did you arrive at the primary stream/river reach identified above? \_\_\_\_\_

6. Approximately how many hours did you, or will you, stay at the primary reach identified above? \_\_\_\_\_

7. Please rate the following factors at the stream/river reach identified above.

Factor	Acceptable	Somewhat Acceptable	Not Acceptable
Availability of beach/useable areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability to safely enter and exit the water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability to safely wade or stand in river/stream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability to safely swim in river/stream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability to safely cross the river/stream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequacy of put-ins and take-outs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequacy of road access to river or stream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequacy of trail access to river or stream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequacy of law enforcement personnel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8. Did you perceive a **change** in river/stream level during your visit?  Yes  No

If yes, did the **change** in river/stream level **negatively** affect your recreation experience?  Yes  No

If "yes", please explain:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

9. Was your recreation experience **negatively** affected by:

a) Crowding?  Yes  No

b) Other activities taking place?  Yes  No

c) River/stream flow?  Yes  No

d) Other: \_\_\_\_\_

If yes, please explain:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10. How would rate your overall experience at the river/stream reach identified above?

Very Satisfied	Satisfied	Somewhat Satisfied	Unsatisfied	Very Unsatisfied
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If unsatisfied, please explain:

\_\_\_\_\_  
\_\_\_\_\_



## SECTION A-6 Reservoir Recreation

1. Survey No. \_\_\_\_\_

2. Name of primary reservoir used: \_\_\_\_\_

3. How many hours did you, or will you, spend at the reservoir? \_\_\_\_\_ (hours)

4. If you engaged in boating activities during your visit, what type of boat did you use?

- Ski boat   
  Fishing boat   
  Pontoon boat   
  Sail boat   
  Personal watercraft  
 Non-power boats (i.e., canoe, kayak, row boat, raft, etc.)

5. If applicable, check the name of the launch facility(s) you used:

- French Meadows Boat Ramp   
  McGuire Boat Ramp   
  Hell Hole Boat Ramp   
  Ralston Cartop Boat Ramp  
 Other: \_\_\_\_\_

6. Please rate the following factors at the reservoir identified above.

Factor	Acceptable	Somewhat Acceptable	Not Acceptable
Access to shoreline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parking availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parking area condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of boat ramp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boat ramp access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Restroom condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Restroom cleanliness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Availability of trash disposal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drinking water availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequacy of reservoir water depths	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Presence of debris or obstacles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access to boat-in campgrounds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequacy of law enforcement personnel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7. Was your recreation experience **negatively** affected by:

- a) Crowding?     Yes     No  
 b) Other activities taking place?     Yes     No  
 c) Reservoir water surface level?     Yes     No

If yes, explain:

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8. How would you rate your overall experience at the reservoir identified above?

Very Satisfied	Satisfied	Somewhat Satisfied	Unsatisfied	Very Unsatisfied
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If unsatisfied, please explain:

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## SECTION A-7 Fishing

1. Survey Number \_\_\_\_\_

2. Primary fishing location:  French Meadows Reservoir  Hell Hole Reservoir  River/Stream

3. If river/stream fishing, what reach of river stream was you primary fishing location? \_\_\_\_\_

4. How many total hours have you spent fishing during your visit at your primary fishing location? \_\_\_\_\_

5. From where did you fish?  From a boat  From the shoreline

6. What gear type(s) did you use today?

If fishing from a boat:

- Troll lures
- Troll bait
- Cast lures
- Cast bait
- Fly fish

If fishing from the shore:

- Cast lures
- Cast bait
- Fly fish

7. Please indicate the number and type of fish you caught and the number and type of fish released.

	Rainbow Trout	Lake Trout	Brown Trout	Kokanee	Other _____	Not Sure
<b>Kept</b>						
<b>Released</b>						

8. Please rate your satisfaction with the following factors regarding your fishing experience at the primary fishing location identified above.

Factors	Acceptable	Somewhat Acceptable	Not Acceptable
Number of fish caught	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Variety of fishing locations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Variety of fish species	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Size of fish	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Road access to fishing areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trail access to fishing areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

9. How would you rate your overall fishing experience at the primary fishing location identified above?

Very Satisfied	Satisfied	Somewhat Satisfied	Unsatisfied	Very Unsatisfied
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If unsatisfied, please explain:

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**APPENDIX B**  
**General Visitor Survey – Form B**



Placer County Water Agency
Middle Fork American River Project

ROAD AND DISPERSED USE INTERVIEW - Form B

Survey No. Survey Location: Date: Time:

- 1. Your place of residence: Zip Code: If your reside out of the country, what country:
2. How many and what types of vehicles and trailers were brought in with your group?
Car/pickup/SUV: Motor home/RV: Motorcycle: OHV:
Trailered Vehicle: Travel trailer: Boat trailer: Utility trailer:
Horse trailer: Other:
3. How many years have you recreated in this area?
4. How many times a year do you typically visit this area?
5. What time of year do you typically visit this area?
January - April May - September October - December

- 6. On the map, indicate the main roads used to get to this destination.
7. During your stay, did you recreate within the highlighted area shown on the map? Yes No
If yes, where did you visit?

Table with 2 columns: Site Visited, Recreation Activity

- 8. During your stay, did you recreate outside the highlighted area shown on the map? Yes No
If yes, where did you visit?

Table with 2 columns: Site Visited, Recreation Activity

- 9. How much money did you spend in the following towns on this visit?

Table with 4 columns: Dollars Spent, Auburn, Foresthill, Georgetown. Rows include Overnight lodging, Food and beverages at restaurants and snack stands, Supplies such as groceries, film, bait, gifts and souvenirs, etc., Gasoline, Recreation equipment rentals and tours, Other.

**MAPS**

**APPENDIX C**  
**2007 Vehicle Count Summary – Summer Period**

## 2007 VEHICLE COUNT SUMMARY - SUMMER PERIOD

## HOLIDAYS

5 days: Includes Memorial Day (5/28), July 4th (7/4), Labor Day (9/3) and two Sundays preceding Monday holidays (5/27 and 9/2).

			Average Counts											
			AM Period				PM Period				Evening Period			
Site ID	Sub sites	Site Description	Car/SUV/ Truck	Camper/ RV	Motorcycle	Total	Car/SUV/ Truck	Camper/ RV	Motorcycle	Total	Car/SUV/ Truck	Camper/ RV	Motorcycle	Total
L1	a,b	Indian Bar Rafting Access and General Parking	1.33	0.67	0.33	2.33	4.00	0.00	0.00	4.00	-	-	-	-
L2		Ralston Picnic Area	1.30	0.00	0.00	1.30	2.00	0.00	0.00	2.00	-	-	-	-
L3		Ralston Picnic Area Cartop Boat Ramp	1.33	0.00	0.00	1.33	2.00	0.00	0.00	2.00	-	-	-	-
L4		Ralston Powerhouse Parking Turnout	1.33	0.00	0.00	1.33	1.67	0.00	0.00	1.67	-	-	-	-
L5		Ralston Afterbay Sediment Disposal Area	0.33	0.00	0.00	0.33	0.33	0.00	0.00	0.33	-	-	-	-
L6		Cherokee Bar Overlook (from Drivers Flat Rd.)	1.00	0.00	0.00	1.00	3.00	0.00	0.00	3.00	-	-	-	-
L7	a,b,c	Ruck-a-Chucky Day-use Boater Access (Drivers Flat, Greenwood Bridge)	10.00	0.00	0.00	10.00	11.67	0.00	0.00	11.67	-	-	-	-
L8		Ruck-a-Chucky Day-use at gate upstream of Ruck-a-Chucky Day-use Boater Access	1.33	0.00	0.00	1.33	3.67	0.00	0.00	3.67	-	-	-	-
L9	a,b,c	Mammoth Bar	3.00	0.00	0.00	3.00	19.00	0.00	0.00	19.00	-	-	-	-
L10	a,b	Confluence Area	73.33	0.33	0.00	73.66	281.00	0.67	2.33	284.00	-	-	-	-
L11		Quarry Trail Parking Area	14.33	0.00	0.00	14.33	19.33	0.00	0.00	19.33	-	-	-	-
U1		Area North of Duncan Creek Diversion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-
U2		Area Near Duncan Creek Gage and Weir	0.33	0.00	0.00	0.33	0.00	0.00	0.00	0.00	-	-	-	-
U3		Area near new bridge crossing Duncan Creek	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-
U4	a,b	Large Areas on road west of FM Reservoir	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-
U5	a,b	Area located immediately west of FM Reservoir (near spillway)	0.67	0.33	0.00	1.00	0.33	0.00	0.00	0.33	-	-	-	-
U6		Area located immediately downstream of FM Reservoir Dam (parking near gate)	0.67	0.00	0.00	0.67	0.33	0.00	0.00	0.33	-	-	-	-
U7	a,b	Area near FM-HH Tunnel Gatehouse (includes turnouts along FR 96 from dam to east of gatehouse)	0.67	0.00	0.00	0.67	1.33	0.00	0.00	1.33	-	-	-	-
U8	a,b	French Meadow Picnic Area (U8a) and Boat Ramp (U8b)	6.33	0.00	0.00	6.33	6.67	0.00	0.67	7.34	-	-	-	-
U9		Turnouts along FR-96 between FM Boat Ramp and Bridge crossing MFAR	1.00	0.00	0.00	1.00	1.33	0.00	0.00	1.33	-	-	-	-
U10	a,b	Area near bridge over MFAR (U10a) and turnouts along road across from Lewis CG (U10b)	0.67	0.00	0.00	0.67	0.67	0.00	0.33	1.00	-	-	-	-
U11		McGuire Picnic Area	0.33	0.00	0.00	0.33	2.33	0.00	0.00	2.33	-	-	-	-
U12		McGuire Boat Ramp	2.00	0.00	0.00	2.00	1.67	0.00	0.00	1.67	-	-	-	-
U13		Vista/Trailhead to Poppy Campground	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.33	-	-	-	-
U14	a,b	Area surrounding South Long Canyon Diversion Dam (U14a) and turnouts along FR2 to NF Long Canyon Dam turnout (U14b)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-
		Middle Meadow's Campground	4.67	0.33	0.00	5.00	4.33	0.33	0.00	4.66	-	-	-	-
U15		Hell Hole Vista	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.33	-	-	-	-
U16		Hell Hole General Parking Area	2.67	0.33	0.00	3.00	1.00	0.33	0.00	1.33	-	-	-	-
U17	a,b	Hell Hole Boat Ramp Parking Areas	12.67	0.00	0.00	12.67	7.00	0.00	0.00	7.00	-	-	-	-
U18		Hell Hole Boat Ramp	1.33	0.00	0.00	1.33	1.00	0.00	0.00	1.00	-	-	-	-
		Big Meadow's Campground	4.00	1.00	0.00	5.00	3.00	1.33	0.00	4.33	-	-	-	-
		Hell Hole Campground	1.00	0.00	0.00	1.00	0.33	0.00	0.00	0.33	-	-	-	-

## Notes:

Vehicle counts were not conducted at the following campgrounds. Instead, use was determined using campground occupancy data provided by the USDA-FS.

- Ahart Campground
- Coyote Group Campground
- Poppy Campground
- French Meadows Campground
- Gates Group Campground
- Lewis Campground

- = Vehicle counts were not conducted during the evening period or on Holidays or Sundays preceding holidays due to the random selection process.

**2007 VEHICLE COUNT SUMMARY - SUMMER PERIOD  
WEEKENDS**

**28 Days: Includes all Saturdays and Sundays except 2 Sundays (5/27 and 9/2) that precede holidays.**

			Average Counts											
			AM Period				PM Period				Evening Period			
Site ID	Sub sites	Site Description	Car/SUV/ Truck	Camper/ RV	Motorcycle	Total	Car/SUV/ Truck	Camper/ RV	Motorcycle	Total	Car/SUV/ Truck	Camper/ RV	Motorcycle	Total
L1	a,b	Indian Bar Rafting Access and General Parking	3.57	0.00	0.00	3.57	2.71	0.00	0.00	2.71	1.86	0.00	0.14	2.00
L2		Ralston Picnic Area	0.43	0.14	0.00	0.57	1.71	0.00	0.00	1.71	0.86	0.00	0.00	0.86
L3		Ralston Picnic Area Cartop Boat Ramp	1.71	0.00	0.00	1.71	1.36	0.00	0.00	1.36	1.29	0.00	0.29	1.58
L4		Ralston Powerhouse Parking Turnout	0.43	0.00	0.00	0.43	0.93	0.00	0.00	0.93	0.71	0.00	0.00	0.71
L5		Ralston Afterbay Sediment Disposal Area	0.29	0.00	0.00	0.29	0.36	0.00	0.00	0.36	0.00	0.00	0.00	0.36
L6		Cherokee Bar Overlook (from Drivers Flat Rd.)	1.14	0.00	0.00	1.14	1.79	0.00	0.00	1.79	0.86	0.00	0.00	0.86
L7	a,b,c	Ruck-a-Chucky Day-use Boater Access (Drivers Flat, Greenwood Bridge)	10.43	0.00	0.00	10.43	9.64	0.14	0.14	9.92	9.29	0.00	0.14	9.43
L8		Ruck-a-Chucky Day-use at gate upstream of Ruck-a-Chucky Day-use Boater Access	2.14	0.00	0.00	2.14	2.29	0.00	0.14	2.43	1.43	0.00	0.00	1.43
L9	a,b,c	Mammoth Bar	1.43	0.00	0.00	1.43	9.57	0.07	0.14	9.78	8.86	0.00	0.29	9.15
L10	a,b	Confluence Area	53.00	0.43	0.29	53.72	154.64	0.36	3.64	158.64	120.71	0.14	1.57	122.42
L11		Quarry Trail Parking Area	13.14	0.00	0.00	13.14	12.64	0.00	0.00	12.64	8.71	0.00	0.00	8.71
U1		Area North of Duncan Creek Diversion	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.13	0.00	0.00	0.00	0.13
U2		Area Near Duncan Creek Gage and Weir	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.07	0.00	0.00	0.00	0.07
U3		Area near new bridge crossing Duncan Creek	1.75	0.00	0.00	1.75	1.33	0.07	0.00	1.40	1.57	0.14	0.00	1.71
U4	a,b	Large Areas on road west of FM Reservoir	0.14	0.00	0.00	0.14	0.21	0.00	0.00	0.21	0.00	0.00	0.00	0.21
U5	a,b	Area located immediately west of FM Reservoir (near spillway)	0.71	0.14	0.00	0.85	0.93	0.07	0.57	1.57	0.43	0.00	0.00	0.43
U6		Area located immediately downstream of FM Reservoir Dam (parking near gate)	0.13	0.00	0.00	0.13	0.27	0.00	0.00	0.27	0.29	0.00	0.00	0.29
U7	a,b	Area near FM-HH Tunnel Gatehouse (includes turnouts along FR 96 from dam to east of gatehouse)	1.29	0.00	0.00	1.29	0.64	0.00	0.00	0.64	0.14	0.00	0.00	0.14
U8	a,b	French Meadow Picnic Area (U8a) and Boat Ramp (U8b)	8.14	0.00	0.86	9.00	6.21	0.07	0.36	6.64	3.43	0.00	0.00	3.43
U9		Turnouts along FR-96 between FM Boat Ramp and Bridge crossing MFAR	0.50	0.13	0.00	0.63	1.00	0.00	0.00	1.00	0.57	0.00	0.00	0.57
U10	a,b	Area near bridge over MFAR (U10a) and turnouts along road across from Lewis CG (U10b)	0.38	0.00	0.00	0.38	1.38	0.00	0.00	1.38	0.43	0.00	0.00	0.43
U11		McGuire Picnic Area	0.25	0.00	0.00	0.25	1.93	0.07	0.00	2.00	0.86	0.00	0.00	0.86
U12		McGuire Boat Ramp	3.25	0.13	0.00	3.38	2.53	0.07	0.00	2.60	1.71	0.14	0.00	1.85
U13		Vista/Trailhead to Poppy Campground	1.00	0.00	0.00	1.00	0.87	0.00	0.00	0.87	0.00	0.00	0.00	0.87
U14	a,b	Area surrounding South Long Canyon Diversion Dam (U14a) and turnouts along FR2 to NF Long Canyon Dam turnout (U14b).	0.50	0.00	0.00	0.50	0.71	0.00	0.00	0.71	0.33	0.00	0.00	0.33
		Middle Meadow's Campground	7.75	1.25	0.00	9.00	4.47	0.00	0.00	4.47	5.29	0.00	0.00	5.29
U15		Hell Hole Vista	0.38	0.00	0.00	0.38	0.40	0.00	0.00	0.40	0.00	0.00	0.00	0.40
U16		Hell Hole General Parking Area	5.63	0.50	0.00	6.13	3.80	0.40	0.00	4.20	1.43	0.00	0.00	1.43
U17	a,b	Hell Hole Boat Ramp Parking Areas	12.86	0.00	0.00	12.86	8.93	0.00	0.00	8.93	4.14	0.00	0.00	4.14
U18		Hell Hole Boat Ramp	1.63	0.00	0.00	1.63	0.87	0.00	0.00	0.87	0.43	0.00	0.00	0.43
		Big Meadow's Campground	10.00	2.00	0.00	12.00	7.33	1.13	0.13	8.59	5.14	0.86	0.29	6.29
		Hell Hole Campground	1.38	0.00	0.00	1.38	1.47	0.00	0.00	1.47	1.86	0.00	0.00	1.86

**Notes:**

Vehicle counts were not conducted at the following campgrounds. Instead, use was determined using campground occupancy data provided by the USDA-FS.

- Ahart Campground
- Coyote Group Campground
- Poppy Campground
- French Meadows Campground
- Gates Group Campground
- Lewis Campground



**2007 VEHICLE COUNT SUMMARY - SUMMER PERIOD  
WEEKDAYS**

68 days: Includes all weekdays (M-F) during the sampling period, excluding 3 holidays.

			Average Counts											
			AM Period				PM Period				Evening Period			
Site ID	Sub sites	Site Description	Car/SUV/ Truck	Camper/ RV	Motorcycle	Total	Car/SUV/ Truck	Camper/ RV	Motorcycle	Total	Car/SUV/ Truck	Camper/ RV	Motorcycle	Total
L1	a,b	Indian Bar Rafting Access and General Parking	0.71	0.00	0.00	0.71	0.07	0.00	0.00	0.07	0.00	0.00	0.00	0.00
L2		Ralston Picnic Area	0.29	0.00	0.00	0.29	0.57	0.07	0.00	0.64	0.57	0.00	0.00	0.57
L3		Ralston Picnic Area Cartop Boat Ramp	0.57	0.00	0.00	0.57	0.29	0.00	0.00	0.29	0.57	0.00	0.00	0.57
L4		Ralston Powerhouse Parking Turnout	0.57	0.00	0.00	0.57	0.50	0.00	0.00	0.50	0.29	0.00	0.14	0.43
L5		Ralston Afterbay Sediment Disposal Area	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.07	0.00	0.00	0.00	0.00
L6		Cherokee Bar Overlook (from Drivers Flat Rd.)	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.79	0.57	0.00	0.00	0.57
L7	a,b,c	Ruck-a-Chucky Day-use Boater Access (Drivers Flat, Greenwood Bridge)	1.57	0.00	0.00	1.57	2.43	0.00	0.00	2.43	1.71	0.00	0.00	1.71
L8		Ruck-a-Chucky Day-use at gate upstream of Ruck-a-Chucky Day-use Boater Access	0.29	0.00	0.00	0.29	0.29	0.00	0.00	0.29	0.43	0.00	0.00	0.43
L9	a,b,c	Mammoth Bar	0.71	0.00	0.00	0.71	2.79	0.00	0.00	2.79	3.14	0.00	0.00	3.14
L10	a,b	Confluence Area	22.71	0.14	0.43	23.28	58.07	0.29	0.43	58.79	69.00	0.00	1.00	70.00
L11		Quarry Trail Parking Area	3.43	0.14	0.00	3.57	4.57	0.00	0.00	4.57	8.43	0.00	0.00	8.43
U1		Area North of Duncan Creek Diversion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U2		Area Near Duncan Creek Gage and Weir	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
U3		Area near new bridge crossing Duncan Creek	1.86	0.14	0.00	2.00	1.86	0.21	0.00	2.07	0.86	0.29	0.00	1.15
U4	a,b	Large Areas on road west of FM Reservoir	0.14	0.00	0.00	0.14	0.07	0.00	0.00	0.07	0.00	0.00	0.00	0.00
U5	a,b	Area located immediately west of FM Reservoir (near spillway)	0.71	0.00	0.00	0.71	0.36	0.00	0.00	0.36	0.29	0.00	0.00	0.29
U6		Area located immediately downstream of FM Reservoir Dam (parking near gate)	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.07	0.00	0.00	0.00	0.00
U7	a,b	Area near FM-HH Tunnel Gatehouse (includes turnouts along FR 96 from dam to east of gatehouse)	0.29	0.00	0.00	0.29	0.36	0.00	0.00	0.36	0.00	0.00	0.00	0.00
U8	a,b	French Meadow Picnic Area (U8a) and Boat Ramp (U8b)	2.57	0.00	0.00	2.57	2.14	0.07	0.00	2.21	1.00	0.00	0.00	1.00
U9		Turnouts along FR-96 between FM Boat Ramp and Bridge crossing MFAR	0.71	0.00	0.00	0.71	0.29	0.00	0.00	0.29	0.29	0.00	0.00	0.29
U10	a,b	Area near bridge over MFAR (U10a) and turnouts along road across from Lewis CG (U10b)	0.86	0.00	0.00	0.86	0.50	0.00	0.00	0.50	0.00	0.00	0.00	0.00
U11		McGuire Picnic Area	0.29	0.00	0.00	0.29	0.29	0.00	0.00	0.29	0.14	0.00	0.00	0.14
U12		McGuire Boat Ramp	2.29	0.00	0.00	2.29	1.00	0.00	0.00	1.00	0.71	0.00	0.00	0.71
U13		Vista/Trailhead to Poppy Campground	0.57	0.00	0.00	0.57	0.86	0.00	0.00	0.86	0.14	0.00	0.00	0.14
U14	a,b	Area surrounding South Long Canyon Diversion Dam (U14a) and turnouts along FR2 to NF Long Canyon Dam turnout	0.14	0.00	0.00	0.14	0.29	0.00	0.00	0.29	0.00	0.00	0.00	0.00
		Middle Meadow's Campground	1.14	0.00	0.00	1.14	1.21	0.00	0.00	1.21	2.29	0.00	0.00	2.29
U15		Hell Hole Vista	0.29	0.00	0.00	0.29	0.00	0.00	0.14	0.14	0.00	0.00	0.00	0.00
U16		Hell Hole General Parking Area	1.43	0.14	0.00	1.57	1.57	0.07	0.00	1.64	1.71	0.00	0.00	1.71
U17	a,b	Hell Hole Boat Ramp Parking Areas	3.71	0.00	0.00	3.71	3.79	0.00	0.00	3.79	3.00	0.00	0.00	3.00
U18		Hell Hole Boat Ramp	0.71	0.00	0.00	0.71	0.15	0.00	0.00	0.15	0.71	0.00	0.00	0.71
		Big Meadow's Campground	3.57	1.14	0.14	4.85	3.43	1.29	0.00	4.72	2.57	0.29	0.00	2.86
		Hell Hole Campground	0.57	0.00	0.00	0.57	1.00	0.00	0.29	1.29	0.17	0.00	0.33	0.50

**Notes:**

Vehicle counts were not conducted at the following campgrounds. Instead, use was determined using campground occupancy data provided by the USDA-FS.

Ahart Campground  
Coyote Group Campground  
Poppy Campground  
French Meadows Campground  
Gates Group Campground  
Lewis Campground

**APPENDIX D**  
**Survey Related Materials**

## **Clothing Worn by Field Technicians**



**Information Page Provided to Survey Participants**



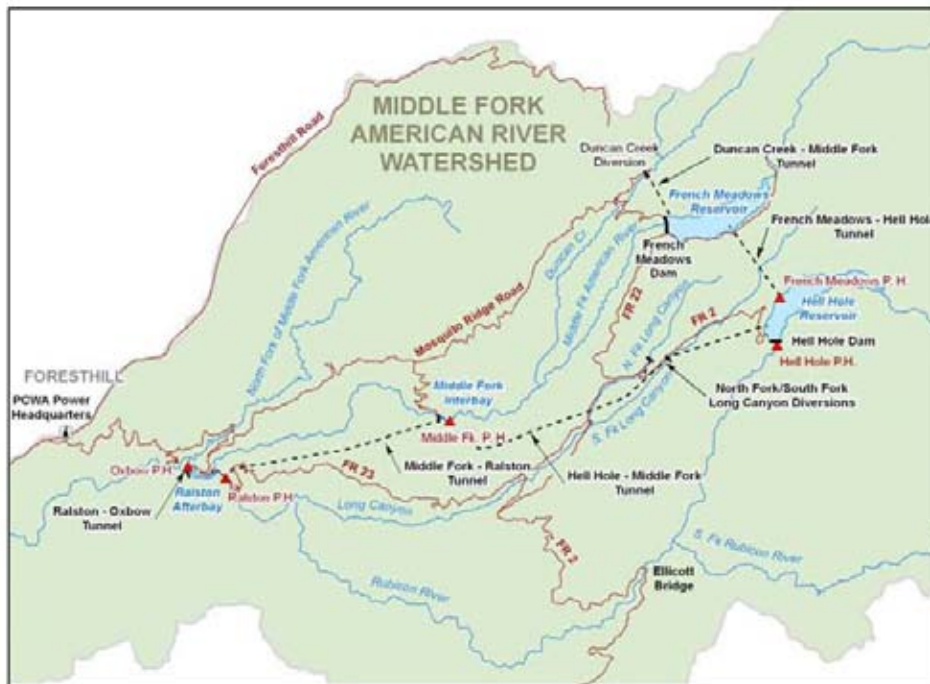
## Placer County Water Agency's Middle Fork American River Project

The Placer County Water Agency (PCWA) owns and operates the Middle Fork American River Project (MFP or Project), a system consisting of two major storage reservoirs, five smaller regulating reservoirs and diversion pools, and five powerhouses that began operation in 1967. The MFP supplies water for homes, industry, and agriculture within western Placer County and clean renewable energy to the California electric grid.

The MFP facilities are situated in the foothills and mountainous uplands of the western slope of the central Sierra Nevada, primarily within Placer County, California. The Project is almost entirely in the Tahoe and Eldorado National Forests, with a small portion on PCWA-owned property.

The Project's major storage reservoirs, French Meadows and Hell Hole, have a combined capacity of 342,583 acre-feet (ac-ft). The Project has a generation capacity of approximately 224 megawatts (MW) and has produced an average of about 1 million megawatt-hours (MWh) per year. The Project includes recreation facilities near its storage reservoirs. In addition, its operations accommodate popular whitewater rafting opportunities on the Middle Fork American River below Oxbow Powerhouse.

The MFP is operated under a 50-year license (Project No. 2079), which was issued by the Federal Energy Regulatory Commission (FERC or Commission). The current license expires on March 1, 2013. PCWA is seeking the renewal of its license to continue operations of the MFP.



Additional information about the MFP, the relicensing process, and the various technical studies are available on PCWA's relicensing website at <http://relicensing.pcwa.net/pad.htm>.

**Thank You Card  
Provided to Survey Participants**



**Thank you for your participation**

Information on the relicensing of the Middle Fork American River Project, including results of the Recreation Use Survey upon its completion, can be found at

<http://relicensing.pcwa.net/>

**Placer County Water Agency**

P.O. Box 6570, 144 Ferguson Road, Auburn, CA 95604

Telephone: (530) 823-4850



**APPENDIX E**  
**General Visitor Survey Log**



**APPENDIX F**  
**Analytical Notes**

## General Visitor Survey Data Analytical Notes

After organizing the data into geographic areas, the data for each section of Form A was analyzed separately using data base queries, and by cross tabulating various data fields, depending upon the particular question or issue. The resulting output was tabulated and reported by region and then by survey section. With a few exceptions, all responses were accepted and included in the analysis. The exceptions and/or anomalies are discussed below, by survey question.

### Section A-1 – Background Information

A total of 968 people completed Section A-1 of the survey instrument.

*Question 1.* All people who participated in the general visitor survey completed Section A-1 of Form A. The first question on Section A-1 asked the survey participants to identify the activities they engaged in during their visit. Multiple responses were accepted.

This information was used by the field technician to determine which additional sections the survey participant should complete. According to the protocols, the survey participant was asked to complete up to two other sections, based on the activities they participated in. However, in some cases the participant did not want to complete two sections. In other cases, the survey respondent completed more than two sections. Therefore, the number of sections completed by the survey respondent does not always correlate to the activities they identified in Question 1.

*Question 4.* Survey participants were asked how many people in their group were under 18 or over 18. Despite the instructions, some of the respondents did not identify the number of people in each age category. These responses were eliminated from the analysis because the number of people in each age category was not clear. Responses that met the following criteria were analyzed:

- The respondent provided a number for one or both age categories;
- The respondent provided the number of people in their vehicle in response to Question 3 and then checked only one age category in response to Question 4. In these cases, it was assumed that all of the people present in the vehicle were in the age category checked by the respondent.

*Question 5.* Survey participants were asked to identify the number and type of vehicles and trailers brought by their group. Despite the instructions, some of the respondents did not provide the actual number of each type of vehicle. These responses were removed from the data set when calculating the average number of each type of vehicle per group.

*Question 10.* Survey participants were asked to identify the (one) main reason they chose to visit the area. In some cases, the respondent incorrectly identified more than one main reason. These responses were considered invalid and were not included in the analysis.

*Question 12.* Survey participants were asked to identify the (one) main activity they engaged in, or expected to engage in. In some cases, the respondent incorrectly identified more than one main activity. These responses were considered invalid and were not included in the analysis.

### Section A-2 – Camping at a Developed Site

A total of 516 people completed Section A-2 of the survey instrument.

*Question 2.* Survey participants were asked to identify the name of the primary campground they used. In most cases, the respondent identified the name of the primary campground they used. However, in some cases, the respondent did not identify the name of their primary campground. In these cases, the following assumptions were applied:

- If the respondent was intercepted at a campground, it was assumed that the respondent camped at the site where they were intercepted. Data from these surveys was included in the analyses.
- If the respondent was not intercepted at a campground, and they did not specify where they camped, the data was not included in the analysis.
- In three cases, the respondent indicated they camped at a non-Project campground (Talbot, PG&E campground, and private campground). Data from these surveys was not included in the analysis.

### Section A-3 – Day use at a Developed Site

A total of 34 people completed Section A-3 of the survey instrument. The low number of responses to Section A-3 (relative to other sections of the form) is primarily related to the following factors:

- Recreation use at the developed day use sites is very low. Low use levels were documented through vehicle counts conducted by PCWA in 2007 (PCWA 2009a) and confirmed through observations made by field technicians in 2008. Recreation use levels will be discussed in detail in the REC 1 – Recreation Use and Facilities TSR, which will be distributed during the fall of 2009.
- Most people visit the MFP recreation facilities primarily to camp and to fish, which is reflected in the survey results. People do not appear to visit the MFP recreation facilities to participate in day use activities. Instead, they camp at a Project recreation facility and then may utilize a day use facility (e.g. a boat ramp or picnic area) to facilitate secondary activities such as boating or picnicking.
- The survey protocols required that the survey respondent complete Section A-1 – Background Information and two additional sections, depending upon the respondent's primary recreation activity. Since most people visit the MFP recreation facilities to camp and fish, survey respondents generally completed Section A-2 (Camping at a Developed Site) and either Section A-6 (Reservoir

Recreation) or Section A-7 (Fishing). Respondents intercepted in ASRA generally completed Section A-5 (Stream-based Recreation) or in the case of Ruck-a-Chucky, Section A-2 (Camping at a Developed Site).

Of the 34 respondents who completed Section A-3, only 13 provided information that could be analyzed. The remaining 21 responses were not analyzed for the following reasons:

- Eight respondents indicated they used a developed campground for day use activities. These surveys were excluded from the analysis because the results did not specifically pertain to a developed day use facility.
- Thirteen respondents did not specify their day use site. These responses were not analyzed because it was not clear what facility the information pertained to.

#### Section A-4 – Day Use or Camping in Undeveloped Areas

A total of 38 people completed Section A-4 of the survey instrument. The low number of completed surveys is primarily due to the same reasons described above under Section A-3. Of the 38 respondents who completed Section A-4, only 22 provided information that could be analyzed. The remaining 16 were not analyzed for the following reasons.

- Three surveys contained responses that did not pertain to a DCUA identified by the stakeholders.
- Thirteen respondents did not specify the area they used. These responses were not analyzed because it was not clear what area the information pertained to.

#### Section A-5 – Day Use Along a Stream/River

A total of 249 people completed Section A-5 of the survey form. The results of these surveys are discussed in detail in the Draft REC 4 - Stream-based Recreation Opportunities Technical Study Report (PCWA 2009a).

#### Section A-6 – Reservoir Recreation

A total of 181 people completed Section A-6 of the survey form. The results of these surveys will be described in the Draft REC 3 – Reservoir Recreation Technical Study Report (PCWA 2009b), which will be distributed for review in the fall of 2009.

#### Section A-7 – Fishing

A total of 213 people completed Section A-7 of the survey form. Section A-7 was originally designed to collect information about fishing at French Meadows Reservoir and Hell Hole Reservoirs. However, at the request of the stakeholders, Section A-7 was modified to provide respondents with an opportunity to indicate whether they fished on a stream/river. Responses by people who indicated they fished on a stream/river were not analyzed for the following reasons:

- There were not enough responses on any one stream or river to analyze (e.g.  $n < 5$ ).
- Some respondents did not specify the river or stream they fished.
- Some respondents indicated they fished on both a river and a reservoir.  
Therefore, it is not clear whether their responses pertain to a river or reservoir.

The results of the remaining surveys all pertain to reservoir angling. Therefore the Section A-7 – Fishing results are discussed in the Reservoir Angler Survey section of this report.