

**RECREATION FACILITY CONDITION AND  
PUBLIC ACCESSIBILITY  
ASSESSMENT, AND RECREATION  
USE ASSESSMENT  
DON PEDRO PROJECT  
FERC NO. 2299**



**Prepared for:**  
**Turlock Irrigation District – Turlock, California**  
**Modesto Irrigation District – Modesto, California**

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**December 2013**

# Recreation Facility Condition and Public Accessibility Assessment, and Recreation Use Assessment Study Report

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Attachment B      Sample Visitor Survey Instrument

Attachment C      Other Observations and Shoreline

Attachment D      Other Ways of Learning about the Project

Attachment E      Reasons for Unacceptable Ratings

Attachment F      Reasons for Don Pedro’s Uniqueness

## List of Acronyms

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ac	acres
ACEC	Area of Critical Environmental Concern
AF	acre-feet
ACOE	U.S. Army Corps of Engineers
ADA	Americans with Disabilities Act
ALJ	Administrative Law Judge
APE	Area of Potential Effect
ARMR	Archaeological Resource Management Report
BA	Biological Assessment
BDCP	Bay-Delta Conservation Plan
BLM	U.S. Department of the Interior, Bureau of Land Management
BLM-S	Bureau of Land Management – Sensitive Species
BMI	Benthic macroinvertebrates
BMP	Best Management Practices
BO	Biological Opinion
CalEPPC	California Exotic Pest Plant Council
CalSPA	California Sports Fisherman Association
CAS	California Academy of Sciences
CCC	Criterion Continuous Concentrations
CCIC	Central California Information Center
CCSF	City and County of San Francisco
CCVHJV	California Central Valley Habitat Joint Venture
CD	Compact Disc
CDBW	California Department of Boating and Waterways
CDEC	California Data Exchange Center
CDFA	California Department of Food and Agriculture
CDFG	California Department of Fish and Game (as of January 2013, Department of Fish and Wildlife)
CDMG	California Division of Mines and Geology
CDOF	California Department of Finance
CDPH	California Department of Public Health

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CDPR .....	California Department of Parks and Recreation
CDSOD .....	California Division of Safety of Dams
CDWR.....	California Department of Water Resources
CE .....	California Endangered Species
CEII.....	Critical Energy Infrastructure Information
CEQA.....	California Environmental Quality Act
CESA .....	California Endangered Species Act
CFR.....	Code of Federal Regulations
cfs.....	cubic feet per second
CGS.....	California Geological Survey
CMAP .....	California Monitoring and Assessment Program
CMC.....	Criterion Maximum Concentrations
CNDDB.....	California Natural Diversity Database
CNPS.....	California Native Plant Society
CORP .....	California Outdoor Recreation Plan
CPUE .....	Catch Per Unit Effort
CRAM.....	California Rapid Assessment Method
CRLF.....	California Red-Legged Frog
CRRF .....	California Rivers Restoration Fund
CSAS.....	Central Sierra Audubon Society
CSBP.....	California Stream Bioassessment Procedure
CT .....	California Threatened Species
CTR.....	California Toxics Rule
CTS .....	California Tiger Salamander
CVRWQCB .....	Central Valley Regional Water Quality Control Board
CWA .....	Clean Water Act
CWHR.....	California Wildlife Habitat Relationship
Districts.....	Turlock Irrigation District and Modesto Irrigation District
DLA .....	Draft License Application
DPRA.....	Don Pedro Recreation Agency
DPS .....	Distinct Population Segment
EA .....	Environmental Assessment
EC .....	Electrical Conductivity

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EFH.....	Essential Fish Habitat
EIR.....	Environmental Impact Report
EIS.....	Environmental Impact Statement
EPA.....	U.S. Environmental Protection Agency
ESA.....	Federal Endangered Species Act
ESRCD.....	East Stanislaus Resource Conservation District
ESU.....	Evolutionary Significant Unit
EWUA.....	Effective Weighted Useable Area
FERC.....	Federal Energy Regulatory Commission
FFS.....	Foothills Fault System
FL.....	Fork length
FMU.....	Fire Management Unit
FOT.....	Friends of the Tuolumne
FPC.....	Federal Power Commission
ft/mi.....	feet per mile
FWCA.....	Fish and Wildlife Coordination Act
FYLF.....	Foothill Yellow-Legged Frog
g.....	grams
GIS.....	Geographic Information System
GLO.....	General Land Office
GPS.....	Global Positioning System
HCP.....	Habitat Conservation Plan
HHWP.....	Hetch Hetchy Water and Power
HORB.....	Head of Old River Barrier
hp.....	horse power
HPMP.....	Historic Properties Management Plan
ILP.....	Integrated Licensing Process
ISR.....	Initial Study Report
ITA.....	Indian Trust Assets
kV.....	kilovolt
m.....	meters
M&I.....	Municipal and Industrial
MCL.....	Maximum Contaminant Level



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mg/kg	.....	milligrams/kilogram
mg/L	.....	milligrams per liter
mgd	.....	million gallons per day
mi	.....	miles
mi <sup>2</sup>	.....	square miles
MID	.....	Modesto Irrigation District
mid	.....	mid-day
MOU	.....	Memorandum of Understanding
MSCS	.....	Multi-Species Conservation Strategy
msl	.....	mean sea level
MVA	.....	Megavolt Ampere
MW	.....	megawatt
MWh	.....	megawatt hour
mya	.....	million years ago
NAE	.....	National Academy of Engineering
NAHC	.....	Native American Heritage Commission
NAS	.....	National Academy of Sciences
NAVD 88	.....	North American Vertical Datum of 1988
NAWQA	.....	National Water Quality Assessment
NCCP	.....	Natural Community Conservation Plan
NEPA	.....	National Environmental Policy Act
ng/g	.....	nanograms per gram
NGOs	.....	Non-Governmental Organizations
NHI	.....	Natural Heritage Institute
NHPA	.....	National Historic Preservation Act
NISC	.....	National Invasive Species Council
NMFS	.....	National Marine Fisheries Service
NOAA	.....	National Oceanic and Atmospheric Administration
NOI	.....	Notice of Intent
NPS	.....	U.S. Department of the Interior, National Park Service
NRCS	.....	National Resource Conservation Service
NRHP	.....	National Register of Historic Places
NRI	.....	Nationwide Rivers Inventory

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NTU .....	Nephelometric Turbidity Unit
NWI.....	National Wetland Inventory
NWIS .....	National Water Information System
NWR .....	National Wildlife Refuge
NGVD 29 .....	National Geodetic Vertical Datum of 1929
O&M.....	operation and maintenance
OEHHA.....	Office of Environmental Health Hazard Assessment
ORV .....	Outstanding Remarkable Value
PAD.....	Pre-Application Document
PAOT .....	Persons at one time
PDO.....	Pacific Decadal Oscillation
PEIR.....	Program Environmental Impact Report
PGA.....	Peak Ground Acceleration
PHG.....	Public Health Goal
PM&E .....	Protection, Mitigation and Enhancement
PMF.....	Probable Maximum Flood
POAOR.....	Public Opinions and Attitudes in Outdoor Recreation
ppb.....	parts per billion
ppm .....	parts per million
PSP .....	Proposed Study Plan
QA.....	Quality Assurance
QC.....	Quality Control
RA .....	Recreation Area
RBP .....	Rapid Bioassessment Protocol
Reclamation .....	U.S. Department of the Interior, Bureau of Reclamation
RM .....	River Mile
RMP .....	Resource Management Plan
RP.....	Relicensing Participant
RSP .....	Revised Study Plan
RST .....	Rotary Screw Trap
RWF.....	Resource-Specific Work Groups
RWG .....	Resource Work Group
RWQCB .....	Regional Water Quality Control Board

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SC.....	State candidate for listing under CESA
SCD.....	State candidate for delisting under CESA
SCE .....	State candidate for listing as endangered under CESA
SCORP .....	Statewide Comprehensive Outdoor Recreation Plan
SCT .....	State candidate for listing as threatened under CESA
SD1 .....	Scoping Document 1
SD2 .....	Scoping Document 2
SE.....	State Endangered Species under the CESA
SFP .....	State Fully Protected Species under CESA
SFPUC .....	San Francisco Public Utilities Commission
SHPO .....	State Historic Preservation Office
SJRA .....	San Joaquin River Agreement
SJRGAA .....	San Joaquin River Group Authority
SJTA .....	San Joaquin River Tributaries Authority
SPD .....	Study Plan Determination
SRA.....	State Recreation Area
SRMA .....	Special Recreation Management Area or Sierra Resource Management Area (as per use)
SRMP .....	Sierra Resource Management Plan
SRP .....	Special Run Pools
SSC .....	State species of special concern
ST.....	California Threatened Species under the CESA
STORET .....	Storage and Retrieval
SWAMP .....	Surface Water Ambient Monitoring Program
SWE .....	Snow-Water Equivalent
SWRCB.....	State Water Resources Control Board
TAC.....	Technical Advisory Committee
TAF.....	thousand acre-feet
TCP .....	Traditional Cultural Properties
TDS .....	Total Dissolved Solids
TID .....	Turlock Irrigation District
TMDL .....	Total Maximum Daily Load
TOC.....	Total Organic Carbon

TRT	Tuolumne River Trust
TRTAC	Tuolumne River Technical Advisory Committee
UC	University of California
USDA	U.S. Department of Agriculture
USDOC	U.S. Department of Commerce
USDOJ	U.S. Department of Justice
USDOI	U.S. Department of the Interior
USFS	U.S. Department of Agriculture, Forest Service
USFWS	U.S. Department of the Interior, Fish and Wildlife Service
USGS	U.S. Department of the Interior, Geological Survey
USR	Updated Study Report
UTM	Universal Transverse Mercator
VAMP	Vernalis Adaptive Management Plan
VAOT	Vehicles at one time
VELB	Valley Elderberry Longhorn Beetle
VRM	Visual Resource Management
WPT	Western Pond Turtle
WSA	Wilderness Study Area
WSE	Water surface elevation
WSIP	Water System Improvement Program
WWTP	Wastewater Treatment Plant
WY	water year
μS/cm	microSeimens per centimeter

## 1.0 INTRODUCTION

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### 1.1 Background

Turlock Irrigation District (TID) and Modesto Irrigation District (MID) (collectively, the Districts) are the co-licensees of the 168-megawatt (MW) Don Pedro Project (Project) located on the Tuolumne River in western Tuolumne County in the Central Valley region of California. The Don Pedro Dam is located at river mile (RM) 54.8 and the Don Pedro Reservoir has a normal maximum water surface elevation of 830 ft above mean sea level (msl; NGVD 29). At elevation 830 ft, the reservoir stores over 2,000,000 acre-feet (AF) of water and has a surface area slightly less than 13,000 acres (ac). The watershed above Don Pedro Dam is approximately 1,533 square miles (mi<sup>2</sup>). The Project is designated by the Federal Energy Regulatory Commission (FERC) as project no. 2299.

Both TID and MID are local public agencies authorized under the laws of the State of California to provide water supply for irrigation and municipal and industrial (M&I) uses and to provide retail electric service. The Project serves many purposes including providing water storage for the beneficial use of irrigation of over 200,000 ac of prime Central Valley farmland and for the use of M&I customers in the City of Modesto (population 210,000). Consistent with the requirements of the Raker Act passed by Congress in 1913 and agreements between the Districts and City and County of San Francisco (CCSF), the Project reservoir also includes a “water bank” of up to 570,000 AF of storage. CCSF may use the water bank to more efficiently manage the water supply from its Hetch Hetchy water system while meeting the senior water rights of the Districts. The “water bank” within Don Pedro Reservoir provides significant benefits for CCSF’s 2.6 million customers in the San Francisco Bay Area.

The Project also provides storage for flood management purposes in the Tuolumne and San Joaquin rivers in coordination with the U.S. Army Corps of Engineers (ACOE). Other important uses supported by the Project are recreation, protection of aquatic resources in the lower Tuolumne River, and hydropower generation.

The Project Boundary extends from RM 53.2, which is one mile below the Don Pedro powerhouse, upstream to RM 80.8 at an elevation corresponding to the 845 ft contour (31 FPC 510 [1964]). The Project Boundary encompasses approximately 18,370 ac with 78 percent of the lands owned jointly by the Districts and the remaining 22 percent (approximately 4,000 ac) owned by the United States and managed as a part of the U.S. Bureau of Land Management (BLM) Sierra Resource Management Area.

The primary Project facilities include the 580-foot-high Don Pedro Dam and Reservoir completed in 1971; a four-unit powerhouse situated at the base of the dam; related facilities including the Project spillway, outlet works, and switchyard; four dikes (Gasburg Creek Dike and Dikes A, B, and C); and three developed recreational facilities (Fleming Meadows, Blue Oaks, and Moccasin Point Recreation Areas). The location of the Project and its primary facilities is shown in Figure 1.1-1.

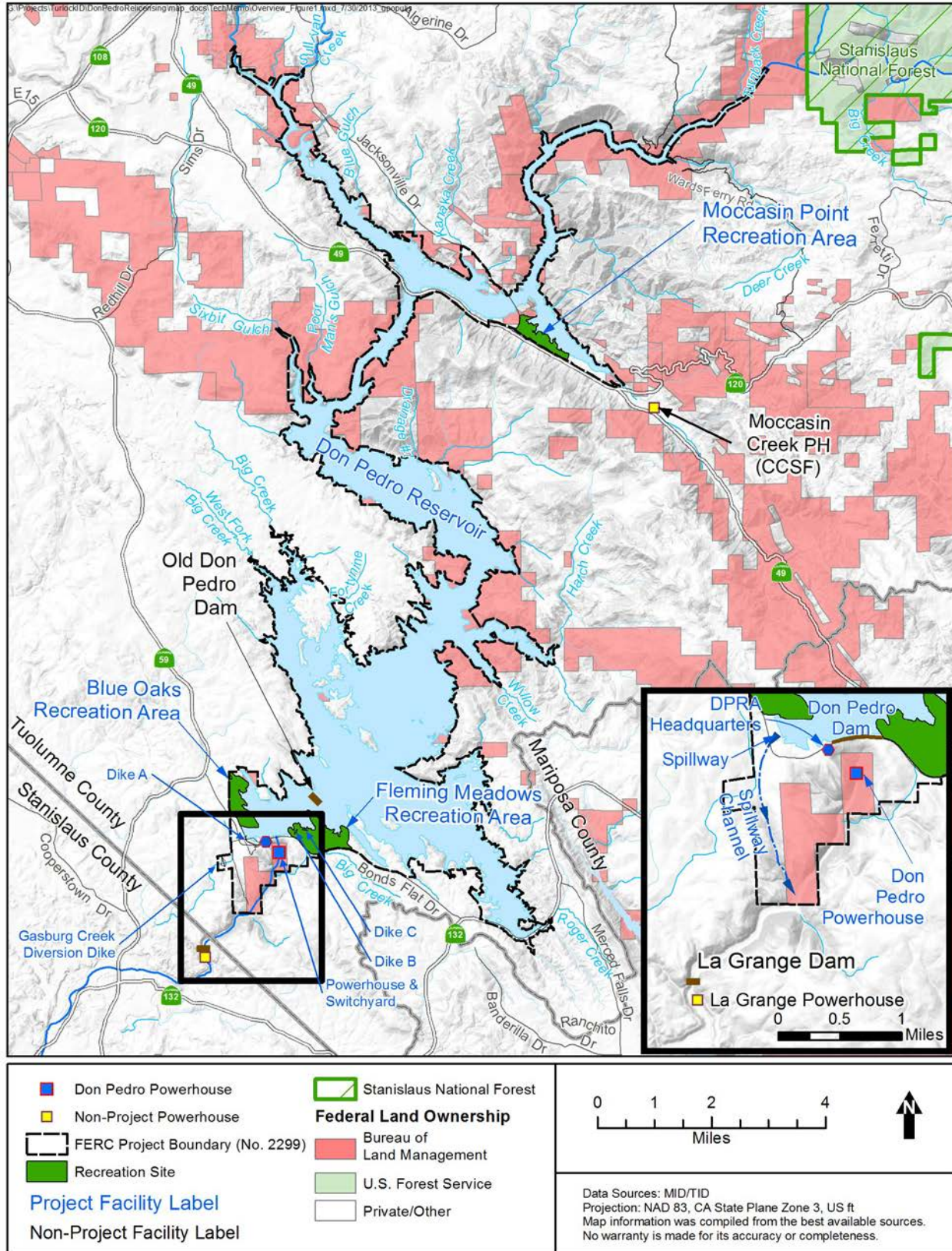


Figure 1.1-1. Don Pedro Project location.

## 1.2 Relicensing Process

The current FERC license for the Project expires on April 30, 2016, and the Districts will apply for a new license no later than April 30, 2014. The Districts began the relicensing process by filing a Notice of Intent and Pre-Application Document (PAD) with FERC on February 10, 2011, following the regulations governing the Integrated Licensing Process (ILP). The Districts' PAD included descriptions of the Project facilities, operations, license requirements, and Project lands as well as a summary of the extensive existing information available on Project area resources. The PAD also included ten draft study plans describing a subset of the Districts' proposed relicensing studies. The Districts then convened a series of Resource Work Group meetings, engaging agencies and other relicensing participants in a collaborative study plan development process culminating in the Districts' Proposed Study Plan (PSP) and Revised Study Plan (RSP) filings to FERC on July 25, 2011 and November 22, 2011, respectively.

On December 22, 2011, FERC issued its Study Plan Determination (SPD) for the Project, approving, or approving with modifications, 34 studies proposed in the RSP that addressed Cultural and Historical Resources, Recreational Resources, Terrestrial Resources, and Water and Aquatic Resources. In addition, as required by the SPD, the Districts filed three new study plans (W&AR-18, W&AR-19, and W&AR-20) on February 28, 2012 and one modified study plan (W&AR-12) on April 6, 2012. Prior to filing these plans with FERC, the Districts consulted with relicensing participants on drafts of the plans. FERC approved or approved with modifications these four studies on July 25, 2012.

Following the SPD, a total of seven studies (and associated study elements) that were either not adopted in the SPD, or were adopted with modifications, formed the basis of Study Dispute proceedings. In accordance with the ILP, FERC convened a Dispute Resolution Panel on April 17, 2012 and the Panel issued its findings on May 4, 2012. On May 24, 2012, the Director of FERC issued his Formal Study Dispute Determination, with additional clarifications related to the Formal Study Dispute Determination issued on August 17, 2012.

This study report describes the objectives, methods, and results of the Recreation Facility Condition and Public Accessibility Assessment, and Recreation Use Assessment (RR-01) as implemented by the Districts in accordance with FERC's SPD and subsequent study modifications and clarifications. On January 17, 2013, the Districts filed a Progress Report on RR-01 with the Initial Study Report for the Don Pedro Project. During the January 31, 2013 Initial Study Report Meeting, the BLM requested a map and GIS data of dispersed recreation observations collected during this study. In response to this request, the Districts will provide this data to the BLM in December 2013.

Documents relating to the Project relicensing are publicly available on the Districts' relicensing website at [www.donpedro-relicensing.com](http://www.donpedro-relicensing.com).

## 1.3 Study Plan

During study plan development, relicensing participants requested that the study include a creel survey in coordination with Study Plan W&AR-17, Reservoir Fish Population. For all



respondents who reported that they were fishing, the survey included questions about effort and catch, including fish length, weight, and species data. Fisheries data results from the creel survey questions are included in the Reservoir Fish Population Survey Report (TID/MID 2013). Angler behaviors, attitudes, and opinions are reported in Section 5.7 of this report.

In its SPD, FERC approved the Districts' RR-01 Recreation Facility Condition and Public Accessibility Assessment, and Recreation Use Assessment study plan with modification. FERC recommended the Facility Site Condition Evaluation Categories and Criteria include in the facility site condition rating method a fourth category of "excellent" in addition to the poor, fair, and good categories proposed by the Districts, and include specific time frames within that category. FERC stated that time frames for actions would make the criteria within the table more relevant and conducive to protection, mitigation, and enhancement (PM&E) measure development. FERC also stated that the fourth proposed category "excellent" would more accurately account for newly constructed recreation facilities, signs, and roads. As described in Section 4.1.2, the facility condition evaluation criteria were revised to include the category of "excellent". Section 5.4 presents the results of the facility condition assessment. FERC also recommended modification of the study to include a start time for administering the survey no later than 10:00 a.m., instead of 12:00 p.m., to increase the likelihood of capturing anglers in the study.

The study was carried out consistent with FERC's directives. There were no variances or modifications to the final approved study plan.



## **2.0 STUDY GOALS AND OBJECTIVES**

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The goal of the recreation facility condition, public accessibility, and recreation use assessment was to provide information about the need for maintenance or enhancement of existing recreation facilities to support current and future demand for public recreation at the Project.

The objectives of the study were to:

- assess the condition of existing developed recreation facilities at the Don Pedro Project, including dispersed use areas
- estimate present capacity of recreation facilities at the Project to support present and future demand for public recreation (i.e., facility carrying capacity),
- describe the preferences, attitudes, and characteristics of the Project's recreation users
- collect information about current Project recreation activities and future demand for activities, and
- undertake a creel survey in coordination with Study Plan W&AR-17, Reservoir Fish Population Study.

### 3.0 STUDY AREA

This study took place at Don Pedro Reservoir in Tuolumne County, California. The study area consisted of developed recreation sites and facilities at three developed recreation areas (RA): Fleming Meadows, Blue Oaks, and Moccasin Point recreation areas on Don Pedro Reservoir, as well as 12 remote facilities where toilets are maintained (Table 3.0-1 and Figure 3.0-1). Undeveloped shoreline areas within Project area where informal use is known to occur were also examined to assess potential impacts of recreation use on shoreline resources.

**Table 3.0-1. Summary of recreation facilities and other on-site amenities at Don Pedro Project-developed recreation areas.**

Amenities	Moccasin Point RA	Blue Oaks RA	Fleming Meadows RA
<i>Project Recreation Facilities</i>			
Camping Units - Total	96	195	267
With water and electric hookups <sup>1</sup>	18	34	90
Picnic Areas -Total	2	1	2
Group Picnic Sites	1	1	1
Boat Launch Ramp	1	1	1
Fish Cleaning Stations	1	1	1
Comfort Stations - Total	8	11	14
With hot showers	3	5	5
Concession Store	Yes	No	Yes
Swimming Lagoon	No	No	Yes
Marina	Yes	No	Yes
Amphitheatre	No	No	Yes
Houseboat Mooring	Yes	No	Yes
Boat Rentals	Yes	No	Yes
Houseboat Rentals	Yes	No	Yes
Boat Repair Yard	No	Yes	No
Gas and Oil	Yes	No	Yes
Sewage Dump Station	Yes	Yes	Yes

<sup>1</sup> Water service at Moccasin Point and Fleming Meadows recreation areas includes sewer hook-ups.

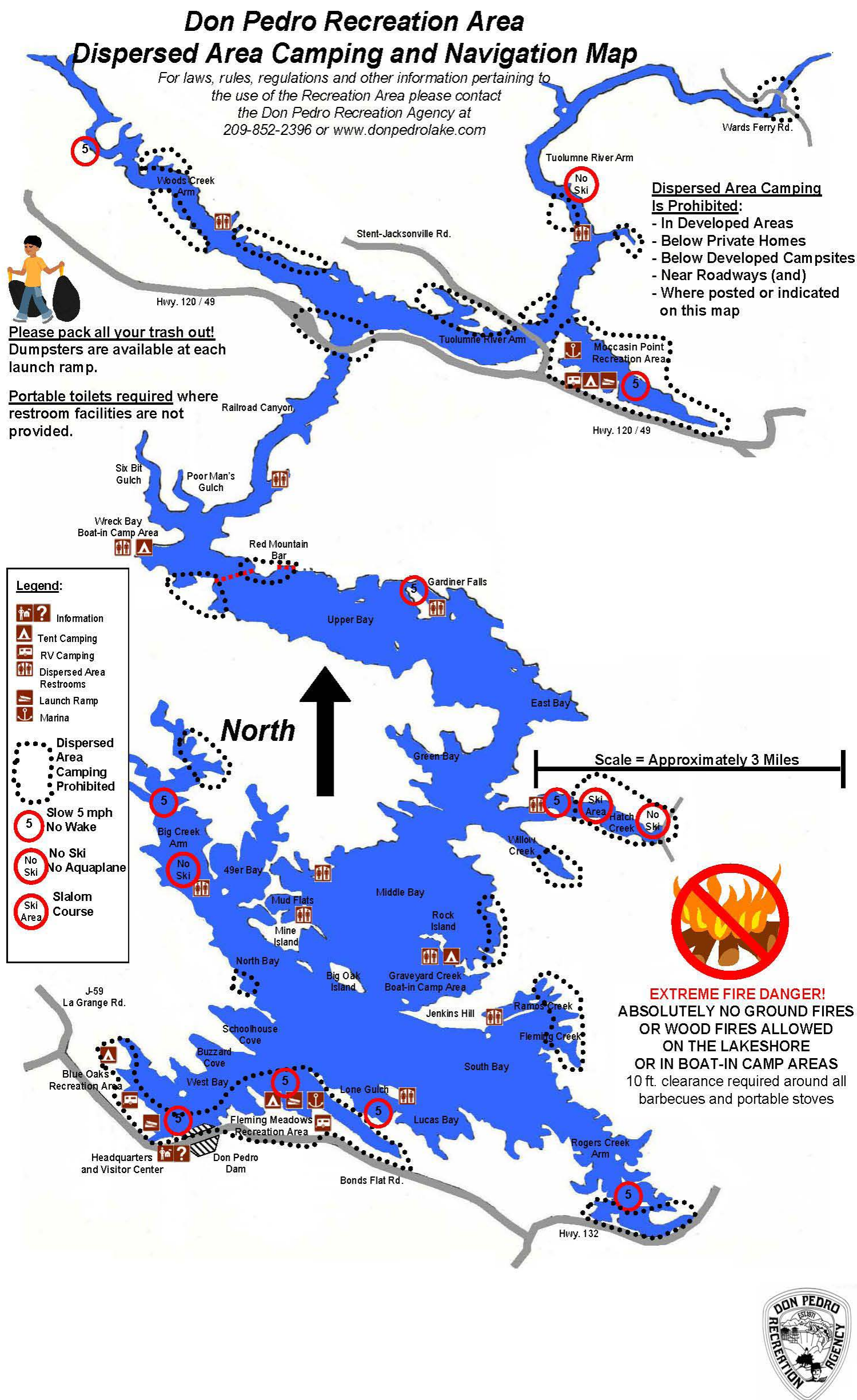


Figure 3.0-1. Developed facilities inventoried and evaluated for the Don Pedro Project recreation facility condition and public accessibility assessment, and recreation use assessment.

## **4.0 METHODOLOGY**

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The study methods consisted of five steps: (1) an inventory and evaluation of the recreation facilities for condition, Americans with Disabilities Act (ADA) compliance, and use impacts; (2) identifying recreation uses and visitor attitudes, beliefs, and preferences at Project recreation resource areas; (3) estimating the current recreation use at Project recreation resource areas; (4) identifying future use and demand opportunities; and (5) analyzing the data and preparing the report. These steps are described below.

### **4.1 Step 1A – Inventory and Evaluate the Developed Project Recreation Facilities for Condition, ADA Compliance, and Use Impacts**

The study team inventoried and evaluated the Project's developed recreation facilities<sup>1</sup> listed in Table 3.0-1 and at the land-based and floating toilet locations identified in Figure 3.0-1. Step 1A included four subtasks: (1) a complete inventory of developed recreation facilities associated with the Project including campgrounds, boat launches, marinas, the swimming lagoon, picnic areas, signs, and interpretive displays; (2) an assessment of the condition of each component (tables, fire rings, restrooms, walkways, parking areas, roads, etc.) of the developed recreation facilities; (3) an assessment of whether each component complies with current ADA accessibility guidelines; and (4) an assessment of the use impacts at each recreation facility. The subtasks are described below.

#### **4.1.1 Inventory Recreation Facilities**

The study team inventoried the number and type of recreation facilities at the Project recreation facilities, including photographing similar types of facilities and at one-of-a-kind facilities. Facilities of interest included picnic sites, campsites, restrooms, walkways, parking areas/spaces, boat launch ramps, boat docks/marinas, and recreation signs. All signs were inventoried and each type of sign was photographed and documented (e.g., type of sign, condition, text, location etc.). The content of signage was checked for clarity, consistency, and appropriate and understandable wording. In addition, the study team noted incidental information in the vicinity of the developed recreation facilities such as user-created roads and approximate trail lengths, user-created sites, available parking, and any informal fire rings. The inventory form is provided in Attachment A.

#### **4.1.2 Facility Condition Assessment**

The study team conducted a qualitative assessment of the condition of developed recreation facilities and signs. The assessment categories were poor, fair, good, and excellent condition. Table 4.1-1 provides evaluation criteria that were used by type of recreation facility feature.

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<sup>1</sup> The study evaluated only the Project's above-ground facilities and systems. Below-ground facilities and systems such as water distribution and septic systems are monitored as part of routine operation and maintenance by the Districts and repaired as needed.

**Table 4.1-1. Facility site condition evaluation categories and criteria.**

<b>Condition Evaluation Categories and Criteria</b>				
<b>Variable (Site Element)</b>	<b>0 – Poor</b> Needs immediate rehabilitation	<b>1 – Fair</b> Rehabilitation required within 5 years.	<b>2 – Good</b> No rehabilitation required within the next 5-10 years.	<b>3 – Excellent</b> Rehabilitation required beyond 10 years.
<b>Vehicle Spurs and Parking</b> (condition of surface paving on vehicle spurs and parking areas)	All surfaces are in disrepair and need of immediate reconditioning or replacement. Current conditions create safety hazards.	Need for improved maintenance and repair in some areas. No major safety concerns.	All surfaces in good condition and well maintained.	New/recent surface paving. All surfaces in excellent condition and well maintained. Rehabilitation required beyond 10 years.
<b>Recreation Site Element</b> (condition of picnic tables, fire ring/grills, boat ramps, etc.)	Facilities require immediate repair or replacement. Little evidence of recent maintenance.	Some facilities damaged or in need of replacement. Could be accommodated through routine maintenance.	Facilities generally in good condition and well maintained.	Facilities in excellent condition (new or near new) and well maintained.
<b>Recreation Site Buildings</b> (condition of restrooms, maintenance buildings, and other structures)	Structures in disrepair requiring immediate attention. Significant rehabilitation likely. Problems could include rot, leaks, and sagging roofs.	Some structures need minor repairs, such as painting or replacement of roof/shingles. Repairs should be made, but are not needed immediately.	All structures appear in sound, well maintained condition. No significant problems observed.	New or near new structures. All structures in sound, well maintained condition.
<b>Signs</b> (presence / condition of project and recreation signs)	Signs do not exist or require immediate repair or replacement.	Some signs damaged or in need of replacement.	Signs generally in good condition and well maintained.	Signs in excellent condition (new or near new) and well maintained.

Based on the rating of each variable/site component in the table above, an overall facility evaluation score was calculated using the following scale.

- Total Score = 8+: Excellent condition
- Total Score = 6 to 7: Good condition - requiring routine care/maintenance
- Total Score = 3 to 5: Fair condition - may require some rehabilitation
- Total Score = 0 to 2: Poor condition - requires immediate rehabilitation work or replacement

At recreation sites where not all site elements were present, the maximum possible overall facility evaluation score and total score ranking were adjusted accordingly.

An electronic condition form (IForm) was used to evaluate each facility, and an example form is provided in Attachment A.

### 4.1.3 Accessibility Assessment

The study team assessed the developed recreation facilities for compliance with the ADA and Architectural Barriers Act Accessibility Guidelines (ABAAG) developed by the U.S. Access Board (USAB 2004). Each facility was evaluated based on these standards. Under a rating system, the accessibility at each facility was categorized as inaccessible, partially accessible, or accessible. A rating was assigned using the evaluation criteria in Table 4.1-2.

**Table 4.1-2. Level of accessibility categories and rating system.**

Variable	Accessibility Categories		
	0 – Inaccessible	1 – Partially Accessible	2 – Accessible
<b>ADA Compliance</b> (presence of accessible facilities and other ABAAG factors)	Little or no consideration for handicap accessibility. Clearly not in compliance with ADA/ ABAAG standards.	Some handicap facilities, but in disrepair or not up to current ADA/ ABAAG standards (e.g., slopes too steep, docks inaccessible, etc.).	High quality of accessibility. Facilities appear fully consistent with current ADA/ ABAAG standards.

An example of the ADA accessibility compliance checklist for outdoor recreation facilities is contained in Attachment A, including an example of schematic guides to support the evaluations. The checklists were modified to address the specific standards for each of the applicable guidelines – ADA or ABAAG – as needed. In addition, recreation facilities were assessed for their ability to provide opportunities for persons with disabilities to participate in the Project’s primary recreation opportunities, including boating and camping.

### 4.1.4 Assessment of Recreation Use Impacts

The study team also assessed the recreation use impacts at each of the recreation facilities. The evaluation categorized the impact at each facility as low, moderate, or high depending on the amount and dispersion of use impact signs (Table 4.1-3). Signs of use impact typically included the presence of litter, dumping, tree cutting, inadequate vegetation clearances around fire pits/rings, visible off-highway vehicle (OHV) use/tracks, trampled vegetation, bare ground, compacted soils, erosion, human waste, and toilet paper.

**Table 4.1-3. Recreation use impact categories and rating system.**

Variable	Use Impact Categories		
	0 – Low	1 – Moderate	2 - High
Recreation Use Impact	Few, if any signs of use impact are observed at each site	Several signs of use impact but not extensive or widespread impacts	Extensive signs of use impact; widespread use with many impacts evident

In some instances, selecting a single impact category was not practical because the impact level could span two categories (i.e., low-to-moderate or moderate-to-high). A broader categorization was used when a site or facility had satellite areas and impact conditions in one area varied greatly from the rest of the site/facility.

## **4.2 Step 1B – Inventory and Evaluate Recurrent Dispersed Shoreline Recreation Use Locations along the Don Pedro Reservoir Shoreline**

The study team inventoried and evaluated the recurrent dispersed shoreline recreation use locations within the FERC Project Boundary. Specifically, this step included identifying recurrent dispersed recreation use location, and assessing the use impacts at the location.

Over the course of the peak summer season (April through September), during regularly scheduled boat patrols and based on knowledge of use patterns, Don Pedro Recreation Agency (DPRA) staff recorded locations of dispersed recreation. Based on these recorded locations, the study team then conducted a single field survey of the Don Pedro Reservoir shoreline to identify locations that showed signs of recurrent dispersed shoreline recreation use. When such a location was observed, a land-based evaluation of the recreation use impacts at the location was conducted as outlined in Section 4.1.4 above, including completing the evaluation form (Attachment A). At each location, the study team photographed and mapped the location with a GPS device. Any user-created trails adjacent to the identified recurrent recreation use sites were identified. The survey was conducted on October 8 and 9, 2012 by boat and on November 9, 2012 by car and was guided by the information collected by the DPRA patrols during the summer of 2012. The November 9 field survey was scheduled in advance and relicensing participants were invited to attend. No relicensing participants attended.

## **4.3 Step 2 – Identify Recreation Uses and Visitor Attitudes, Beliefs, and Preferences**

The study team conducted observations recorded on forms and visitor surveys via survey questionnaire completed by respondents (see Attachment B), to gather information from visitors at each of the facilities included in the study.

### **4.3.1 Survey Development**

The visitor survey addressed the study objectives identified in Section 2.0. Survey topics addressed visitor perceptions of:

- Existing and desired recreation facilities, such as water access, trails, and campground amenities
- The effect of reservoir water levels on the recreation experience
- Satisfaction with shoreline access and opportunities
- Comparison of Don Pedro Project recreation resources to other regional recreation resource areas that provide similar recreation opportunities
- Personal safety
- Crowding
- Conflict

- Actual and desired primary destination and activities, including a specific series of questions for anglers
- Actual and desired activities
- Constraints or barriers to participation that are potentially within the Districts' control (e.g. lawlessness, trail conditions, campfire use, private property conflict and trespass, parking access and fees)
- Ways to enhance their recreation experience

The survey instrument is provided in Attachment B. The survey content was refined in consultation with relicensing participants during the development of the study plan.

### **4.3.2 Field Reconnaissance, Logistics, and Preparation**

Field reconnaissance, establishment of logistics, and preparation for survey implementation took place in January 2012 and included: developing draft data forms and associated databases; developing field work logistics and protocols; field crew training; random selection of sampling dates; pre-testing field logistics and protocols, and revising schedules, logistics, or protocols based on preliminary findings.

### **4.3.3 Sampling Approach and Data Collection**

The target population for the study was based on the overall Project recreation use estimate for 2010, which was approximately 400,000 Recreation Days (one person visiting a development for recreation purposes during any portion of a 24-hour period). The total survey sample size for the Project was to be at least 384 surveys to produce a statistically valid sample of the entire Project. The actual total number of surveys collected was 566.

#### **4.3.3.1 Pre-Test Survey Instrument**

The survey questionnaire was pre-tested. The pre-test included a total of 10 completed surveys, with the intent to receive feedback on readability, length, and general understanding of survey content. No alterations were made as a result of the test.

#### **4.3.3.2 Sampling Frequency**

The sampling frequency was divided into two categories: peak season and non-peak season. The peak season for all recreation use and activities on the Project is April 1 through September 30. The non-peak season is October 1 through March 31.

The monthly sampling frequency for the peak season was:

- Two randomly selected weekdays (Tuesday, Wednesday, or Thursday) per month
- Two randomly selected weekend days (Saturday or Sunday) per month



- One pre-selected day during each three-day holiday (Memorial Day, Independence Day, and Labor Day) weekend, for a total of three holiday days

The monthly sampling frequency for the non-peak season was:

- Two randomly selected weekdays per month (Tuesday, Wednesday, or Thursday)
- Two randomly selected weekend days (Saturday or Sunday) per month

To identify visitor attitudes, beliefs, and preferences at Project recreation resource areas, a roving use survey was conducted. During the survey, the surveyors also conducted a recreation observation survey and a visitor survey. The survey sample was stratified by recreation area and type of day (weekday, non-holiday weekend, or holiday weekend). Surveying began between 8 a.m. and 10 a.m. and went until 4:00 p.m. or 6 p.m. on each scheduled survey day. To ensure the recreation areas were visited at different times, surveyors visited each facility following the same circuit or route, but started at the next facility on the circuit for each successive survey day.

#### **4.3.4 Observation Survey**

During the observation survey, the surveyors counted and recorded the time, date, location, number of vehicles, vehicles with trailers and the type of trailer, vehicles with racks for boats, trailers, boats, people, day-use groups, overnight groups, and the types of recreation activities. The surveyors also recorded the percent occupancy by location. Observations were made and recorded by site and area, including parking outside provided parking areas, and the number and type of boats at the boat launch facilities. This data was used to identify the types of recreation activities in which visitors participated, and not to inventory day-use and overnight use, which was collected via the gate staff. Once the counts were completed, the surveyor administered an on-site recreation visitor questionnaire survey to randomly selected recreation visitors.

#### **4.3.5 Visitor Survey**

A visitor survey was used on-site to collect data on visitor perceptions, attitudes, satisfaction of current resource conditions (e.g. feelings towards current water or use levels), visitor zip codes, user characteristics, recreational activities, recreation facility development, management concerns, and overall recreation experiences. For all survey efforts, refusals were documented.

Only persons 18 years or older were asked to complete a survey. A target number of users surveyed during each survey day were established based on target survey completions for the entire recreation season for each recreation area. Once the target was reached, surveyors moved to the next recreation area for the day.

#### **4.3.6 Angler-Specific Survey Questions**

For all respondents who reported that they were fishing, the survey included questions about effort and catch, including fish length, weight, and species data. Results of these creel survey questions are included in the Reservoir Fish Population Survey (W&AR-17) Study Report.

#### **4.4 Step 3 – Estimate Current Recreation Use**

Data routinely collected by DPRA formed the basis of an estimate of the number of Recreation Days to the Don Pedro Project. Results of the observation and visitor survey were used to characterize participation in various activities.

#### **4.5 Step 4 – Identify Future Use and Demand Opportunities**

The study identified future use and demand opportunities by assessing existing unmet demand, future recreation demand, and the regional uniqueness or significance of the Project for recreation.

##### **4.5.1 Existing Unmet Demand Assessment**

Existing recreation use does not always represent the total existing recreation demand because there may be constraints that limit participation. While there are many potential constraints on recreation use (e.g., lack of free time, cost, geographic distance, lack of skills or equipment), a subset of participation constraints may be closely associated with site-specific management (e.g., limited access to lands or water, use limits or full occupancies at facilities, project operations that eliminate or diminish the quality of experiences and opportunities, or lack of information about available recreation opportunities). To assess the general level of unmet demand for the Project recreation resources, three subtasks were performed, described below.

##### **4.5.1.1 Assess National, Statewide, and Regional Unmet Recreation Demand Information**

The study team reviewed and summarized relevant information from the 2011 Outdoor Recreation Participation Topline Report (Outdoor Industry Foundation 2011) and the California Public Attitudes Outdoor Recreation Survey (California Department of Parks and Recreation, (CDPR) 2008). As available, other sources of Project vicinity and Project region demand were assessed. The purpose of this assessment was to identify possible recreation activities with substantial unmet demand and to provide a qualitative discussion of participation constraints and whether these constraints are likely affected by Project operations and maintenance.

##### **4.5.1.2 Collect Unmet Project Recreation Demand Information**

The study team collected additional unmet recreation demand information from Project visitors in visitor surveys. Visitors were asked if there were any reservoir-based recreation activities they were interested in participating in at the Project, but could not because of some form of barrier or other existing condition.

#### 4.5.1.3 Identify Potential Activities with High Unmet Demand at the Project

Based on the assessment and data collection performed under the previous two subtasks, the study team identified potential activities with high unmet demand at the Project based on the review of unmet demand information derived from the CDPR, the Project visitor survey, Project monitoring data, and the California SCORP. Analysis was conducted to identify likely barriers or constraints to participation in identified activities, and whether those were related to Project operations or recreation management decisions.

### 4.5.2 Future Recreation Demand Assessment

This element of the study provides information regarding the projected future recreation use in the Project over the next 30 to 50 years. Projecting the future, especially over a long period, is a speculative activity. These projections, though, can be useful for identifying potential management options for the future. This approach included four subtasks.

#### 4.5.2.1 Review Existing Recreation Use Trends

Since past use often helps predict future use, trends of recent Project recreation use were reviewed. Sources of Project use and trends in recreation activities that included DPRA reports, California fishing license sales, boating vessel registrations (for the counties from which the majority of Project visitors originate), and local fishing guide activity.

#### 4.5.2.2 Review Existing Population and Recreation Activity Participation Projections

The study team summarized existing information on future projections from the California Department of Finance (CDOF) on projected population growth rates of the counties where the majority of Project visitors originate. Sources from U.S. Department of Agriculture, Forest Service (USFS) and other available sources were reviewed for relevant information.

#### 4.5.2.3 Review Reasonably Foreseeable Events that May Influence Future Use

Reasonably foreseeable events in the watershed may be expected to influence recreation use in the watershed over the next license period. The study team reviewed trends, any proposed operational changes, and any demographics that could potentially impact future use within the project area.

#### 4.5.2.4 Estimate Future Recreation Use over the License Period

Based on historical trends, future growth projections, and likely foreseeable events in the watershed, the study team used professional judgment to estimate Project recreation use and facility utilization over the next 30 to 50 years. These estimates provide a general indication of how recreation use is expected to change. Population growth rates for counties were used to estimate future Project recreation use. For facility utilization projections (campgrounds and boat launch parking areas), activity participation indices developed by the USFS for developed camping and motorized boating (Cordell et al. 1999) were applied.

### 4.5.3 Regional Uniqueness and Significance Assessment

This component of the study assessed the regional uniqueness and significance of the Project's primary recreation opportunities and was completed in three subtasks.

#### 4.5.3.1 Review Results of Visitor Questionnaires

The survey included questions about activity participation and responses to these questions were used to determine the top water-related recreation activities at the Project.

#### 4.5.3.2 Identify Regional Recreation Opportunities

The geographic draw of the Project's primary recreation activities was identified by assessing the geographic extent of visitor origins and location of the alternative recreation resource areas where visitors participate in their primary recreation activities. The study team identified regional alternatives for comparable facilities or areas using information from guidebooks, web resources, state and national parks, the BLM, the USFS, and county tourism sources.

#### 4.5.3.3 Assess the Uniqueness and Significance of the Project-Related Recreation Opportunities

The study team analyzed responses to a survey question that asks visitors to rate the relative uniqueness of the Project reservoir. The question had pre-set responses using a 5-point scale with a rating of 1 meaning the reservoir provided an "extremely common" opportunity and a rating of 5 meaning the reservoir provided an "extremely unique" opportunity. Based on the average responses, the relative uniqueness of the Project was characterized.

- Rating of 1.0 = extremely common
- Rating of 1.1 to 2.0 = common
- Rating of 2.1 to 3.0 = somewhat common
- Rating of 3.1 to 4.0 = somewhat unique
- Rating of 4.1 to 4.9 = unique
- Rating of 5.0 = extremely unique

Second, for the Project's most popular primary recreation activities, the study team identified if these recreation opportunities are of local, regional, and/or state-wide significance based on the visitor's county. The following categories were used:

- Local Significance: visitors from Tuolumne County (where the reservoir is located)
- Regional Significance: visitors from counties surrounding Tuolumne County
- California State-Wide Significance: visitors from all other counties outside of the local and regional counties

In addition, comments provided by survey respondents were used to describe what is unique and special about the most popular recreation opportunities.

#### **4.6 Step 5 – Data Analysis and Report Preparation**

The survey responses provided a rich source of information about visitor use patterns, characteristics, preferences, and perceptions. Following data entry and comprehensive QA/QC procedures, the study team addressed the study objectives and issues through analysis of the responses to questionnaires and observation data. Descriptive statistics were employed to explain visitor responses to each of the survey questions. Survey analyses focused on the perspectives of day-users, overnight users, and user groups defined by primary recreation activity (such as boaters or anglers) and addressed the types and frequency of use occurring at Fleming Meadows Recreation Area, Blue Oaks Recreation Area, and Moccasin Point Recreation Area.

## 5.0 RESULTS

### 5.1 Summary of Visitor and Observation Survey Efforts

#### 5.1.1 2012 Field Survey Season Schedule

The 2012 field survey effort began in January. First, the study team conducted surveyor training and a pilot test of the visitor survey questionnaire on Friday, January 20 and Saturday, January 21 at Fleming Meadows, Blue Oaks, and Moccasin Point facilities. The two days of training were used to reinforce the survey protocols, address how to access each reservoir/survey site, and pilot test the survey. Survey implementation commenced after testing and training were completed. The field survey effort was undertaken from January through December per the FERC-approved study plan (Table 5.1-1). The schedule (two weekdays and two non-holiday weekend days per month and one day each on the three holiday weekends) was executed without any variances, resulting in 51 survey days at each recreation area.

**Table 5.1-1. 2012 schedule of field efforts and survey seasons.**

Field Effort / Reservoir	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Pilot Test												
Surveyor Training												
Non-Peak Season												
Peak Survey Season												

#### 5.1.2 Summary of Surveys Received

For the survey season from January to December 2012, 566 surveys were completed (Table 5.1-2). The effort exceeded the original target number of 401 surveys. The refusal rate was 9.3 percent. Thirty (30) refusals occurred at Fleming Meadows, 20 at Blue Oaks, and 8 at Moccasin Point.

**Table 5.1-2. Summary of targets, surveys received, and refusals by recreation area.**

Reservoir Recreation Area	Target Surveys	Total On-Site Surveys Received	Refusals	
			n	%
Fleming Meadows	186	263	30	10.2
Blue Oaks	138	173	20	10.3
Moccasin Point	77	130	8	5.8
<b>Total</b>	<b>401</b>	<b>566</b>	<b>58</b>	<b>9.3</b>

## 5.2 Project Recreation Visitor Use

### 5.2.1 Peak Season Recreation Visitor Use

Peak season visitor records show the highest use in 2012 occurred during July, with nearly 87,000 recreation days (Table 5.2-1) at the three recreation areas combined.

**Table 5.2-1. 2012 Peak season recreation visitor use for the Don Pedro Project in Recreation Days<sup>1</sup>.**

Month	Visitor Use
	Total
April	11,477
May	29,331
June	51,898
July	86,940
August	44,680
September	19,735
<b>Peak Season Project Total</b>	<b>244,061</b>

<sup>1</sup> A Recreation Day (RD) is defined as each visit by a person to a development for recreation purposes during any portion of a 24-hour period (as defined by FERC (2009) in Form 80 Glossary of Terms).

### 5.2.2 Non-Peak Season Recreation Visitor Use

Non-peak season visitor records show fewer than 6,000 recreation days each month, with fewer than 2,000 recreation days each month in November and December (Table 5.2-2).

**Table 5.2-2. 2012 Non-peak season recreation visitor use for the Don Pedro Project in Recreation Days.**

Month	Visitor Use
	Total
January	2,221
February	3,802
March	5,147
October	4,295
November	1,748
December	1,035
<b>Non-Peak Season Project Total</b>	<b>18,248</b>

## 5.3 Evaluation of the Condition, Accessibility and Use Impacts at Developed Project Recreation Facilities

DPRAs operate and maintain all of the developed recreation facilities at the Don Pedro Reservoir and routinely assess the need for maintenance, repair, and replacement. Project recreation predominantly occurs at the three developed recreation areas on the reservoir: 1) Fleming Meadows Recreation Area; 2) Blue Oaks Recreation Area; and 3) Moccasin Point Recreation Area. In addition, DPRAs operate and maintain one primitive, boat-in camping area (Wreck Bay) and 11 developed toilet only facilities (eight floating toilets and three dispersed shoreline toilets). In October 2012, the study team assessed the condition, accessibility and use impacts, as applicable, at all of these developed facilities.

### **5.3.1 Fleming Meadows Recreation Area**

Fleming Meadows Recreation Area consists of 267 campsites (90 with water, sewer and electric hookups), one group picnic area, one swim lagoon, one boat launch ramp, one fish cleaning station, and 14 toilet buildings (five with showers). Additional on-site amenities include a concession store, marina, amphitheater, and a sewage dump station. Figure 5.3-1 presents the Fleming Meadows Recreation Area layout. Each of these facilities and features are evaluated below for condition, level of accessibility, and recreation use impact.



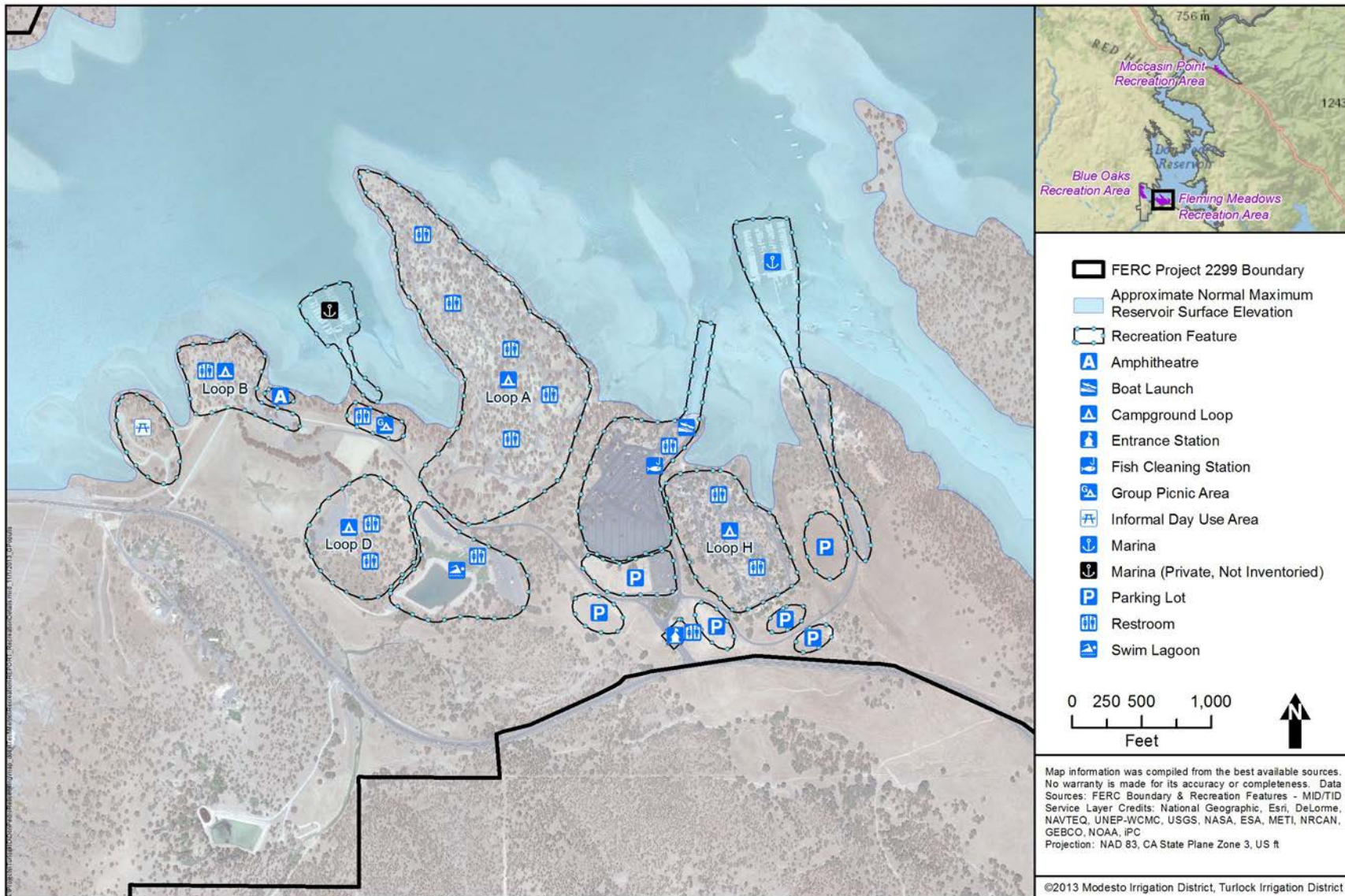


Figure 5.3-1. Fleming Meadows Recreation Area.

### 5.3.1.1 Inventory and Condition Evaluation

For each developed facility at Fleming Meadows Recreation Area, four types of features (roads and parking, site elements (vehicle spurs, tables, fire ring/grills, boat ramps, etc.), site buildings (toilets and other public use buildings) and signs (site identification, information/regulations and directional) were assessed.

#### **Roads and Parking Facilities**

The inventory and condition evaluations for the roads and parking areas at Fleming Meadows Recreation Area are provided in Table 5.3-1 and Table 5.3-2, respectively. The majority of the roads are in excellent condition (newly or recently constructed) with all but one (marina road) of the remaining roads in good condition.

**Table 5.3-1. Inventory and condition evaluations for the roads at Fleming Meadows Recreation Area.**

Site	Surface Material	Road Width (ft)	Circulation Type	Condition
Campground A	asphalt	12	1-way loop	Excellent
Campground B	asphalt	12	1-way loop	Good
Campground D	asphalt	20	2-way	Excellent
Campground H	asphalt	12	1-way loop	Good
Boat Launch	asphalt	20	2-way	Excellent
Swim Lagoon	asphalt	20	2-way	Excellent
Group Picnic Area	asphalt	20	2-way	Excellent
Marina	asphalt	20	2-way	Fair
Informal Day Use Area	gravel	20	2-way in/out	Good

The majority of the parking areas (53 percent or 8 areas) are primary, developed parking areas constructed of asphalt. All of these asphalt parking areas are in excellent condition (newly or recently constructed), except the two main marina parking areas. The remaining seven parking areas are overflow parking areas with less developed dirt or gravel surfaces which are in good condition (Table 5.3-2).

**Table 5.3-2. Inventory and condition evaluations for the parking areas at Fleming Meadows Recreation Area.**

Site	Sub-site	Parking Areas with Striped Spaces	Parking Areas without Marked Spaces (Size, ft)	Surface	
				Material	Condition
Campground B (group)	--	71 single (0 accessible)	--	Asphalt	Excellent
Campground D (walk-in)	--	106 single (4 accessible)	--	Asphalt	Excellent

Site	Sub-site	Parking Areas with Striped Spaces	Parking Areas without Marked Spaces (Size, ft)	Surface	
				Material	Condition
Boat Launch	Restroom	6 single (2 accessible) 8 double (0 accessible)	--	Asphalt	Excellent
	Main Lot	21 single (0 accessible) 299 double (6 accessible)	--	Asphalt	Excellent
Swim Lagoon	--	190 single (6 accessible)	--	Asphalt	Excellent
Group Picnic Area	--	25 single (3 accessible)	--	Asphalt	Excellent
Marina	Lot A	14 single (0 accessible)	--	Asphalt	Fair
	Lot B	72 single (2 accessible)	--	Asphalt	Good
	Overflow	--	500 x 300	Dirt	Good
Overflow Parking Lots	Lot 1	56 single (0 accessible) 75 double (0 accessible)	--	Gravel	Good
	Lot 2	--	600 x 75	Dirt	Good
	Lot 3	--	350 x 200	Dirt	Good
	Lot 4	--	400 x 200	Dirt	Good
	Lot 5	--	525 x 175	Dirt	Good
	Lot 6	--	200 x 200	Dirt	Good

### Site Elements

The detailed inventory and condition evaluations for the site elements at the campground and day-use facilities at Fleming Meadows Recreation Area are provided in Table 5.3-3 and Table 5.3-4, respectively. All of the campground facility features are in good or excellent condition, except for the few campsite shelters (wood construction in campground area A) and the water faucets, which were in fair condition.

**Table 5.3-3. Inventory and condition evaluation for the site elements at Fleming Meadows Recreation Area campground facilities.**

Site Element	Parameter	Campground A	Campground B (Group)	Campground D (Walk-in)	Campground H
Campsites By Type	Tent, drive-in	125	0	0	0
	Tent, walk-in	0	0	25	0
	RV	0	0	0	88
	Group	0	27	0	0
Vehicle Spurs	Material	Asphalt	--	--	Asphalt
	Condition	Good	--	--	Excellent
Tables	Material	Concrete	Concrete	Concrete	Concrete
	Condition	Good	Excellent	Good	Excellent
Fire Ring/Grill	Material	Metal	Metal	Metal	Metal
	Condition	Good	Good	Good	Good

Site Element		Parameter	Campground A	Campground B (Group)	Campground D (Walk-in)	Campground H
Pedestal Grill		Material	Metal	Metal	Metal	Metal
		Condition	Good	Good	Good	Good
Lockers		Material	Concrete	Concrete	Concrete	--
		Condition	Good	Good	Good	--
RV Hookups		Material	--	--	--	Wood/Metal
		Condition	--	--	--	Good
Shelters		Material	Wood	--	--	Wood
		Condition	Fair	--	--	Fair
Amphitheater		Material	--	Wood	--	--
		Condition	--	Good	--	--
Water	Faucet	Material	Metal/Wood	Metal/Wood	Metal/Wood	Metal/Wood
		Condition	Fair	Fair	Fair	Fair
	Fountain	Material	Metal/Concrete	Metal/Concrete	Metal/Concrete	Metal/Concrete
		Condition	Good	Good	Good	Good
Trash	Dumpster	Material	Metal	Metal	Metal	Metal
		Condition	Good	Good	Good	Good
	Receptacle	Material	Wood/Plastic	Wood/Plastic	Wood/Plastic	Wood/Plastic
		Condition	Good	Fair	Good	Good

All day-use facility features are in good or excellent condition, except for the tables and water faucets at the group picnic area, which are in fair condition.

**Table 5.3-4. Inventory and condition evaluation for the site elements at Fleming Meadows Recreation Area day-use facilities.**

Site Element		Parameter	Boat Launch	Swim Lagoon	Group Picnic Area	Marina	Informal Day Use Area
Picnic Sites By Type		Individual	0	19	0	0	0
		Group	0	0	21	0	0
Tables		Material	--	Concrete	Wood/Metal	--	--
		Condition	--	Good	Fair	--	--
Fire Ring/Grill		Material	--	--	--	--	--
		Condition	--	--	--	--	--
Pedestal Grill		Material	--	Metal	Metal	--	--
		Condition	--	Good	Good	--	--
Lockers		Material	--	--	--	--	--
		Condition	--	--	--	--	--
Shelters		Material	--	--	Wood/Metal	--	--
		Condition	--	--	Excellent	--	--
Water	Faucet	Material	--	--	--	--	--
		Condition	--	--	--	--	--
	Fountain	Material	Metal/Concrete	Metal/Concrete	Metal/Concrete	--	--
		Condition	Good	Good	Fair	--	--
Trash	Dumpster	Material	Metal	Metal	Metal	--	--
		Condition	Good	Good	Good	--	--
	Receptacle	Material	Wood/Plastic	Wood/Plastic	Wood/Plastic	Metal	--
		Condition	Good	Good	Good	Good	--

Site Element	Parameter	Boat Launch	Swim Lagoon	Group Picnic Area	Marina	Informal Day Use Area
Boat Ramp	No. of Lanes	5	--	--	--	--
	Material	Concrete	--	--	--	--
	Condition	Good	--	--	--	--
Boat Ramp Courtesy Dock	Type	Floating	--	--	--	--
	Material	Synthetic/ Metal	--	--	--	--
	Condition	Excellent	--	--	--	--
Boat Slips/Docks	Type	--	--	--	Floating	--
	Material	--	--	--	Synthetic/ Metal	--
	Condition	--	--	--	Good	--
Fish Cleaning Station	Material	Metal/ Concrete	--	--	--	--
	Condition	Good	--	--	--	--
Sewage Dump Station <sup>1</sup>	Material	Concrete/ Metal	--	--	--	--
	Condition	Good	--	--	--	--

<sup>1</sup> For the purposes of this condition evaluation, the sewage dump station was considered part of the boat launch facility.

### **Site Buildings**

The inventory and condition evaluations for the site buildings at Fleming Meadows Recreation Area are provided in Table 5.3-5. The site buildings at these facilities include toilet buildings, an entrance station, and a fish cleaning station. In general, the concrete toilet building exteriors are in good condition; the metal roofs are in excellent condition, the concrete shingle roofs are in good or fair condition, and the interiors are in fair-to-good condition. The roofs constructed of concrete shingles were rated in fair or good condition due to the condition of the roof support structures, and not due to the condition of the concrete shingles themselves, which are in excellent condition. The other site buildings (entrance station kiosk, concession store and marina store/office) are all in good condition.

**Table 5.3-5. Inventory and condition evaluations for the site buildings (toilets) at Fleming Meadows Recreation Area.**

Site	Location ID	Type	Exterior		Roof		Interior			Condition
			Material	Condition	Material	Condition	# Stalls	# Urinals	# Showers	
<b>TOILET BUILDINGS</b>										
Campground A	Site 90	Flush	Concrete	Good	Metal	Excellent	3	1	0	Fair
	Site 95	Flush	Concrete	Good	Metal	Excellent	5	1	4	Fair
	Site 107	Flush	Concrete	Good	Metal	Excellent	3	1	0	Fair
	Site 111	Flush	Concrete	Good	Metal	Excellent	5	1	4	Fair
	Site 117	Flush	Concrete	Good	Metal	Excellent	3	1	0	Fair
Campground B (Group)	--	Flush	Concrete	Good	Concrete	Good	3	1	0	Good
Campground D (Walk-in)	Site 1	Flush	Concrete	Good	Metal	Excellent	3	1	0	Good
	Site 20	Flush	Concrete	Good	Metal	Excellent	3	1	0	Good
Campground H	Site 36	Flush	Concrete	Good	Metal	Excellent	3	1	4	Fair
	Site 56	Flush	Concrete	Good	Metal	Good	3	1	4	Fair

Site	Location ID	Type	Exterior		Roof		Interior			
			Material	Condition	Material	Condition	# Stalls	# Urinals	# Showers	Condition
Boat Launch	--	Flush	Concrete	Good	Metal	Excellent	9	2	0	Good
Swim Lagoon	--	Flush	Concrete	Good	Concrete	Fair	8	3	6	Good
Group Picnic Area	--	Flush	Concrete	Good	Concrete	Fair	3	1	0	Good
Entrance Station	--	Flush	Concrete	Good	Metal	Excellent	2	0	0	Fair
<b>OTHER BUILDINGS</b>										
Entrance Station Kiosk	--	--	Wood	Good	Wood	Good	--	--	--	--
Concession Store	Boat Launch	--	Wood	Good	Metal	Good	--	--	--	--
Marina Store/Office	Marina	--	Synthetic/ Metal/Wood	Good	Metal	Good	--	--	--	--

### **Signs**

The types of signs at the recreation area included facility or site identification, information/regulation and directional signs. The inventory and condition evaluations for the signs at Fleming Meadows Recreation Area are provided in Table 5.3-6 by type of sign and material. The majority (52 percent) of the signs are in excellent condition and primarily constructed of synthetic materials. Most of the remaining signs (35 percent) are constructed of wood and generally in good condition.

**Table 5.3-6. Inventory and condition evaluations for the signs by type of sign at Fleming Meadows Recreation Area.**

Sign Type	Sign Material	Sign Condition			
		Poor	Fair	Good	Excellent
Directional	Metal	1	0	2	1
	Synthetic	0	0	3	20
	Wood	2	0	6	0
	Concrete	0	0	0	0
Facility/Site ID	Metal	0	0	0	0
	Synthetic	0	0	0	1
	Wood	0	1	0	0
	Concrete	0	0	0	1
Information/Regulations	Metal	7	1	8	20
	Synthetic	0	2	9	21
	Wood	1	1	15	0
	Concrete	0	0	0	0
All Signs	Metal	8	1	10	21
	Synthetic	0	2	12	42
	Wood	3	2	21	0
	Concrete	0	0	0	1
	All Types	11	5	43	64

### **Overall Facility Condition Rating**

The facility condition ratings for each campground and day-use facility as well as the overall condition rating are provided in Table 5.3-7. If a facility has all four features (roads/parking, site

elements, site buildings and signs) then the total overall score is out of a possible 12.0 points. The facility condition tables note where a facility has fewer than four features that were evaluated and provides the adjusted possible score (i.e., 9.0 points for three features or 6.0 points for two features). Overall, the Fleming Meadows Recreation Area is in excellent condition and the campgrounds and day-use facilities are in excellent or good condition as well.

**Table 5.3-7. Overall facility condition ratings (calculated averages and sums) for Fleming Meadows Recreation Area.**

Facility Feature Category	Campgrounds				Day Use Facilities					OVER-ALL
	A	B (Group)	D (Walk-in)	H	Boat Launch <sup>1</sup>	Swim Lagoon	Group Picnic Area	Marina	Informal Day Use Area	
Roads and Parking	3.0	2.5	3.0	2.0	3.0	2.7	3.0	1.4	2.0	2.5
Site Elements	1.8	1.9	1.9	2.0	2.1	2.0	1.8	2.0	--	2.0
Site Buildings	2.0	2.0	2.3	1.8	2.1	1.7	1.7	2.0	--	2.0
Signs	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
<b>Overall Condition</b> (total score out of 12.0 unless otherwise noted)	<b>Excellent</b> (9.1)	<b>Excellent</b> (8.7)	<b>Excellent</b> (9.5)	<b>Excellent</b> (8.1)	<b>Excellent</b> (9.7)	<b>Excellent</b> (8.7)	<b>Excellent</b> (8.8)	<b>Good</b> (7.7)	<b>Good</b> (4.3 out of 6.0)	<b>Excellent</b> (8.8)

<sup>1</sup> Includes the six overflow parking lots, the fish cleaning station, the entrance station and the sewage dump station.

### 5.3.1.2 Accessibility Evaluation

The accessibility evaluations for the campground and day-use facilities at Fleming Meadows Recreation Area are provided in Table 5.3-8 and Table 5.3-9. Most Fleming Meadows Recreation Area facilities are inaccessible, but do have some features that meet accessible standards. Thus, the overall accessibility rating is partially accessible.

**Table 5.3-8. Accessibility evaluations at the campgrounds at Fleming Meadows Recreation Area.**

Feature Category	Feature	Campground A	Campground B (Group)	Campground D (Walk-in)	Campground H
Roads & Parking	Roads	Not applicable	Not applicable	Not applicable	Not applicable
	Parking	Not applicable	Inaccessible	Partial	Not applicable
Site Elements	Campsites	Inaccessible	Inaccessible	Inaccessible	Inaccessible
	Water Spigots	Inaccessible	Inaccessible	Inaccessible	Inaccessible
	Trash	Partial	Partial	Partial	Partial
Site Buildings	Toilets	Partial	Partial	Partial	Partial
Signs	--	Not applicable	Not applicable	Not applicable	Not applicable
<b>Overall Accessibility Rating</b>		<b>Partial</b>	<b>Partial</b>	<b>Partial</b>	<b>Partial</b>

**Table 5.3-9. Accessibility evaluations at the day-use facilities at Fleming Meadows Recreation Area.**

Feature Category	Feature	Boat Launch	Swim Lagoon	Group Picnic Area	Marina
Roads and Parking	Parking	Partial	Accessible	Inaccessible	Partial
Site Elements	Picnic sites	Not applicable	Partial	Inaccessible	Not applicable
	Water Spigots	Accessible	Inaccessible	Inaccessible	Not applicable
	Trash	Partial	Partial	Partial	Partial
Site Buildings	Toilets	Accessible	Accessible	Partial	Not applicable
<b>Overall Accessibility Rating</b>		<b>Partial</b>	<b>Partial</b>	<b>Partial</b>	<b>Partial</b>

### 5.3.1.3 Recreation Use Impact Evaluation

The recreation use impact evaluations and primary observed impacts for the facilities at Fleming Meadows Recreation Area are provided in Table 5.3-10. The use impact ratings were low at the boat launch, marina and informal day-use area. The boat launch and marina are both highly developed and hardened facilities and had no impacts and the informal day-use area had trace amounts of litter. Use impact was rated moderate at the swim lagoon and group picnic area due to large contiguous areas of bare/compacted ground. The use impact rating at all the campgrounds was high primarily due to large, contiguous areas of bare/compacted ground, some litter, tree cutting and user-created trails to the shorelines.

**Table 5.3-10. Use impact inventory at Fleming Meadows Recreation Area.**

Site	Use Impact Rating	Observed Impacts
Campground A	High	Large contiguous areas of bare/compacted ground; some litter; some tree cutting; user-created trails to shoreline
Campground B	High	Large contiguous areas of bare/compacted ground; some litter
Campground D	High	Large contiguous areas of bare/compacted ground; some litter; some tree cutting; user-created trails to shoreline
Campground H	High	Large contiguous areas of bare/compacted ground; some litter; some tree cutting; user-created trails to shoreline
Boat Launch	Low	None
Swim Lagoon	Moderate	Large contiguous areas of bare/compacted ground
Group Picnic Area	Moderate	Large contiguous areas of bare/compacted ground
Marina	Low	None
Informal Day Use Area	Low	Trace amounts of litter



### **5.3.2 Blue Oaks Recreation Area**

Blue Oaks Recreation Area consists of 195 camp sites (34 with water and electric hookups), one group picnic area, one boat launch ramp, one fish cleaning station, and 11 toilet buildings (five with showers). Additional on-site amenities include a sewage dump station. Figure 5.3-2 presents the Blue Oaks Recreation Area layout. Each of these facilities and features has been evaluated below for condition, level of accessibility, and recreation use impact.

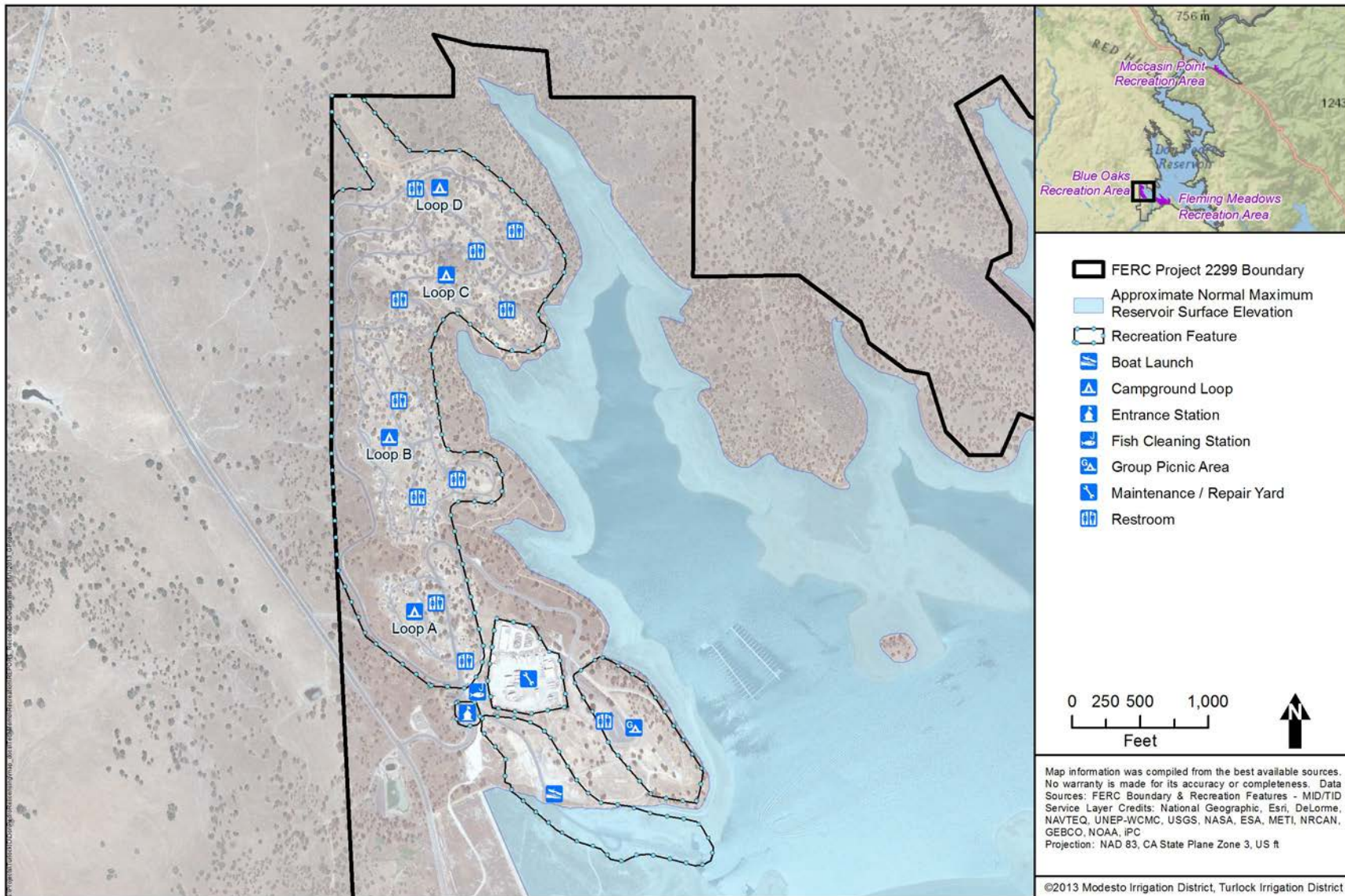


Figure 5.3-2. Blue Oaks Recreation Area.

### 5.3.2.1 Inventory and Condition Evaluation

For each developed facility at Blue Oaks Recreation Area, four types of features (roads and parking, site elements (vehicle spurs, tables, fire ring/grills, boat ramps, etc.), site buildings (toilets and other public use buildings) and signs (site identification, information/regulations and directional) were assessed.

#### **Roads and Parking Facilities**

The inventory and condition evaluations for the roads and parking areas at Blue Oaks Recreation Area are provided in Table 5.3-11 and Table 5.3-12, respectively. The majority (67 percent) of the roads are in excellent condition (newly or recently constructed), except the campground area D and group picnic area roads, which are in good condition. All the road surfaces are asphalt construction.

**Table 5.3-11. Inventory and condition evaluations for the roads at Blue Oaks Recreation Area.**

Site	Surface Material	Road Width (ft)	Circulation Type	Condition
Campground A	asphalt	12 / 20	1-way loop / 2-way	Excellent
Campground B	asphalt	12	1-way loop	Excellent
Campground C	asphalt	12	1-way loop	Excellent
Campground D	asphalt	12	1-way loop	Good
Campground B, C and D Access Road	asphalt	20	2-way	Excellent
Group Picnic Area	asphalt	22	2-way	Good

The dirt or gravel surface parking areas (60 percent of the parking areas) are in good condition; whereas the asphalt surface parking areas are either in excellent condition (group picnic area) or fair condition (boat launch) (Table 5.3-12).

**Table 5.3-12. Inventory and condition evaluations for the parking areas at Blue Oaks Recreation Area.**

Site	Sub-site	Parking Areas with Striped Spaces	Parking Areas Without Marked Spaces (Size, ft)	Surface	
				Material	Condition
Campground D	Overflow Lot	--	400 x 150	Dirt	Good
Boat Launch	Main Lot	70 double (0 accessible)	--	Asphalt	Fair
	Overflow Lot	70 double (0 accessible)	--	Gravel	Good
Group Picnic Area	--	45 single (3 accessible)	--	Asphalt	Excellent
Entrance Station	Recreation Area Overflow Lots	--	50 x 50 100 x 50	Dirt	Good

## Site Elements

The detailed inventory and condition evaluations for the site elements at the campground and day-use facilities at Blue Oaks Recreation Area are provided in Table 5.3-13 and Table 5.3-14, respectively. All of the campground facility features are in either good or excellent condition, except for a few campsite shelters (wood construction), water faucets, and some trash receptacles – all of which are in fair condition.

**Table 5.3-13. Inventory and condition evaluation for the site elements at Blue Oaks Recreation Area campground facilities.**

Site Element		Parameter	Campground A	Campground B	Campground C	Campground D
Campsites By Type		Tent, drive-in	1	71	46	43
		Tent, walk-in	0	0	0	0
		RV	34	0	0	0
		Group	0	0	0	0
Vehicle Spurs		Material	Asphalt	Asphalt	Asphalt	Asphalt
		Condition	Excellent	Good	Excellent	Good
Tables		Material	Concrete	Concrete	Concrete	Concrete
		Condition	Excellent	Excellent	Excellent	Excellent
Fire Ring/Grill		Material	Metal	Metal	Metal	Metal
		Condition	Good	Good	Good	Good
Pedestal Grill		Material	Metal	--	Metal	--
		Condition	Good	--	Good	--
Lockers		Material	Concrete	Concrete	Concrete	Concrete
		Condition	Good	Good	Excellent	Good
RV Hookups		Material	Wood/Metal	--	--	--
		Condition	Good	--	--	--
Shelters		Material	Wood	--	--	--
		Condition	Fair	--	--	--
Water	Faucet	Material	Metal/Wood	Metal/Wood	Metal/Wood	Metal/Wood
		Condition	Fair	Fair	Fair	Fair
	Fountain	Material	Concrete/Metal	Concrete/Metal	Concrete/Metal	Concrete/Metal
		Condition	Good	Good	Good	Poor
Trash	Dumpster	Material	Metal	Metal	Metal	Metal
		Condition	Good	Good	Good	Good
	Receptacle	Material	Wood/Metal	Wood/Metal	Wood/Metal	Wood/Metal
		Condition	Good	Good	Good	Good

All of the day-use facility features are in either good or excellent condition, except for the tables and water faucets at the group picnic area and the boat ramp (concrete) at the boat launch, which are in fair condition.

**Table 5.3-14. Inventory and condition evaluation for the site elements at Blue Oaks Recreation Area day-use facilities.**

Site Element		Parameter	Boat Launch	Group Picnic Area
Picnic Sites By Type		Individual	0	0
		Group	0	1
Tables		Material	--	Wood/Metal
		Condition	--	Fair
Fire Ring/Grill		Material	--	--
		Condition	--	--

Site Element		Parameter	Boat Launch	Group Picnic Area
Pedestal Grill		Material	--	Metal
		Condition	--	Good
Lockers		Material	--	--
		Condition	--	--
Shelters		Material	--	Wood/Concrete
		Condition	--	Good
Water	Faucet	Material	--	Metal/Wood
		Condition	--	Fair
	Fountain	Material	--	--
		Condition	--	--
Trash	Dumpster	Material	--	Metal
		Condition	--	Good
	Receptacle	Material	--	Wood/Metal
		Condition	--	Good
Boat Ramp		No. of Lanes	2	--
		Material	Concrete	--
		Condition	Fair	--
Boat Ramp Courtesy Dock		Type	Floating	--
		Material	Synthetic/Metal	--
		Condition	Good	--
Fish Cleaning Station		Material	Metal/Concrete	--
		Condition	Good	--
Sewage Dump Station <sup>1</sup>		Material	Concrete/Metal	--
		Condition	Good	--

<sup>1</sup> For the purposes of this condition evaluation, the sewage dump station was considered part of the boat launch facility.

### **Site Buildings**

The site buildings at these facilities include primarily toilet buildings, but also an entrance station. The inventory and condition evaluations for the site buildings at Blue Oaks Recreation Area are provided in Table 5.3-15. In general, the exterior of the concrete toilet buildings are in good condition; metal roofs are in excellent condition; concrete shingle roofs are in good or fair condition; and the interiors are in good condition. Of note, the roofs constructed of concrete shingles are in fair or good condition, primarily due to the condition of the roof support structures and not the concrete shingles themselves, which are in excellent condition. The other site building (entrance station kiosk) is in good condition.

**Table 5.3-15. Inventory and condition evaluations for the site buildings (toilets) at Blue Oaks Recreation Area.**

Site	Location ID	Type	Exterior		Roof		Interior			Condition
			Material	Condition	Material	Condition	# Stalls	# Urinals	# Showers	
<b>TOILET BUILDINGS</b>										
Campground A	Site 1	Flush	Concrete	Good	Concrete Shingle	Good	3	1	0	Good
	Site 5	Flush	Concrete	Good	Concrete Shingle	Good	3	1	4	Good

Site	Location ID	Type	Exterior		Roof		Interior			
			Material	Condition	Material	Condition	# Stalls	# Urinals	# Showers	Condition
Campground B	Site 5	Flush	Concrete	Good	Metal	Excellent	3	1	0	Fair
	Site 15	Flush	Concrete	Good	Concrete Shingle	Good	3	1	4	Fair
	Site 51	Flush	Concrete	Good	Metal	Excellent	3	1	0	Good
Campground C	Site 10	Flush	Concrete	Good	Concrete Shingle	Good	3	1	4	Poor
	Site 31	Flush	Concrete	Good	Concrete Shingle	Good	3	1	0	Good
	Site 35	Flush	Concrete	Good	Metal	Excellent	3	1	0	Good
Campground D	Site 24	Flush	Concrete	Good	Metal	Excellent	3	1	0	Fair
	Site 37	Flush	Concrete	Good	Metal	Excellent	3	1	4	Fair
Group Picnic Area	--	Flush	Concrete	Good	Concrete Shingle	Good	8	2	4	Good
<b>OTHER BUILDINGS</b>										
Entrance Station Kiosk	--	--	Wood	Good	Wood	Good	--	--	--	--

### Signs

The types of signs at the recreation area included facility or site identification, information/regulation, and directional signs. The inventory and condition evaluations for the signs at Blue Oaks Recreation Area are provided in Table 5.3-16 by type of sign and material. The majority (56 percent) of the signs are in excellent condition and primarily constructed of synthetic materials. Much of the remaining signs (37 percent) are constructed of wood and generally in good condition.

**Table 5.3-16. Inventory and condition evaluations for the signs by type of sign at Blue Oaks Recreation Area.**

Sign Type	Sign Material	Sign Condition			
		Poor	Fair	Good	Excellent
Directional	Metal	0	0	0	0
	Synthetic	0	0	3	6
	Wood	0	2	2	0
	Concrete	0	0	0	0
Facility/Site ID	Metal	0	0	0	1
	Synthetic	0	0	0	1
	Wood	0	1	0	0
	Concrete	0	0	0	1
Information/Regulations	Metal	0	0	0	7
	Synthetic	0	0	4	13
	Wood	0	1	10	0
	Concrete	0	0	0	0
All Signs	Metal	0	0	0	8
	Synthetic	0	0	7	20
	Wood	0	4	12	0
	Concrete	0	0	0	1
	All Types	0	4	19	29

### **Overall Facility Condition Rating**

The facility condition ratings for each campground and day-use facility as well as the overall condition rating are provided in Table 5.3-17. Notably, if the facility has all four features (roads/parking, site elements, site buildings and signs) then the total overall score is out of a possible 12.0 points. The facility condition tables note where a facility has fewer than four features that were evaluated and provides the adjusted possible score (e.g., 9.0 points for three features). Overall, the Blue Oaks Recreation Area is in excellent condition and all the features (campgrounds and day-use facilities) are in excellent or good condition.

**Table 5.3-17. Overall facility condition ratings (calculated averages and sums) for Blue Oaks Recreation Area.**

Facility Feature Category	Campgrounds				Boat Launch	Group Picnic Area	OVERALL
	A	B	C	D			
Roads and Parking	3.0	3.0	3.0	2.3	1.5	2.5	2.6
Site Elements	2.0	2.0	2.2	1.8	1.8	1.7	1.9
Site Buildings	2.0	2.0	1.9	2.0	2.0	2.0	2.0
Signs	2.5	2.5	2.5	2.5	2.5	2.5	2.5
<b>Overall Condition</b> (total score out of 12.0)	<b>Excellent</b> (9.5)	<b>Excellent</b> (9.5)	<b>Excellent</b> (9.6)	<b>Excellent</b> (8.6)	<b>Good</b> (7.8)	<b>Excellent</b> (8.7)	<b>Excellent</b> (9.0)

<sup>1</sup> Includes the six overflow parking lots, fish cleaning station, entrance station and sewage dump station.

#### 5.3.2.2 Accessibility Evaluation

The accessibility evaluations for the campground and day-use facilities at Blue Oaks Recreation Area are provided in Table 5.3-18. Most Blue Oaks Recreation Area facilities are inaccessible, however there are some features that meet accessible standards; and hence, the overall accessibility rating is “partially accessible”.

**Table 5.3-18. Accessibility evaluations at the campgrounds at Blue Oaks Recreation Area.**

Feature Category	Feature	Campgrounds				Boat Launch	Group Picnic Area
		A	B	C	D		
Roads and Parking	Parking	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Accessible
Site Elements	Campsites	Partial	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible
	Water Spigots	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible
	Trash	Partial	Partial	Partial	Partial	Partial	Partial
Site Buildings	Toilets	Partial	Partial	Partial	Partial	Partial	Partial
<b>Overall Accessibility Rating</b>		<b>Partial</b>	<b>Partial</b>	<b>Partial</b>	<b>Partial</b>	<b>Partial</b>	<b>Partial</b>

### 5.3.2.3 Recreation Use Impact Evaluation

The recreation use impact evaluations and primary observed impacts for the facilities at Blue Oaks Recreation Area are provided in Table 5.3-19. The use impact ratings were low at the boat launch, but the facility is a highly developed and hardened facility where no impacts were observed. Use impact was moderate at the group picnic area where the only sign of use impact was large, contiguous areas of bare/compacted ground. The use impact rating at all the campgrounds (A through D) was high primarily due to large, contiguous areas of bare/compacted ground, some litter, and some tree cutting.

**Table 5.3-19. Use impact inventory at Blue Oaks Recreation Area.**

Site	Use Impact Rating	Observed Impacts
Campground A	High	Large, contiguous areas of bare/compacted ground; some litter; some tree cutting
Campground B	High	Large, contiguous areas of bare/compacted ground; some litter; some tree cutting
Campground C	High	Large, contiguous areas of bare/compacted ground; some litter; some tree cutting
Campground D	High	Large, contiguous areas of bare/compacted ground; some litter; some tree cutting
Boat Launch	Low	None
Group Picnic Area	Moderate	Large, contiguous areas of bare/compacted ground

### 5.3.3 Moccasin Point Recreation Area

Moccasin Point Recreation Area consists of 96 campsites (18 with water, sewer and electric hookups), two picnic areas (one group picnic area and one individual picnic site), one boat launch ramp, one fish cleaning station, and 8 toilet buildings (three with showers). Additional on-site amenities include a marina and a sewage dump station. Figure 5.3-3 presents the Moccasin Point Area layout. Each of these facilities and features have been evaluated below for condition, level of accessibility, and recreation use impact.



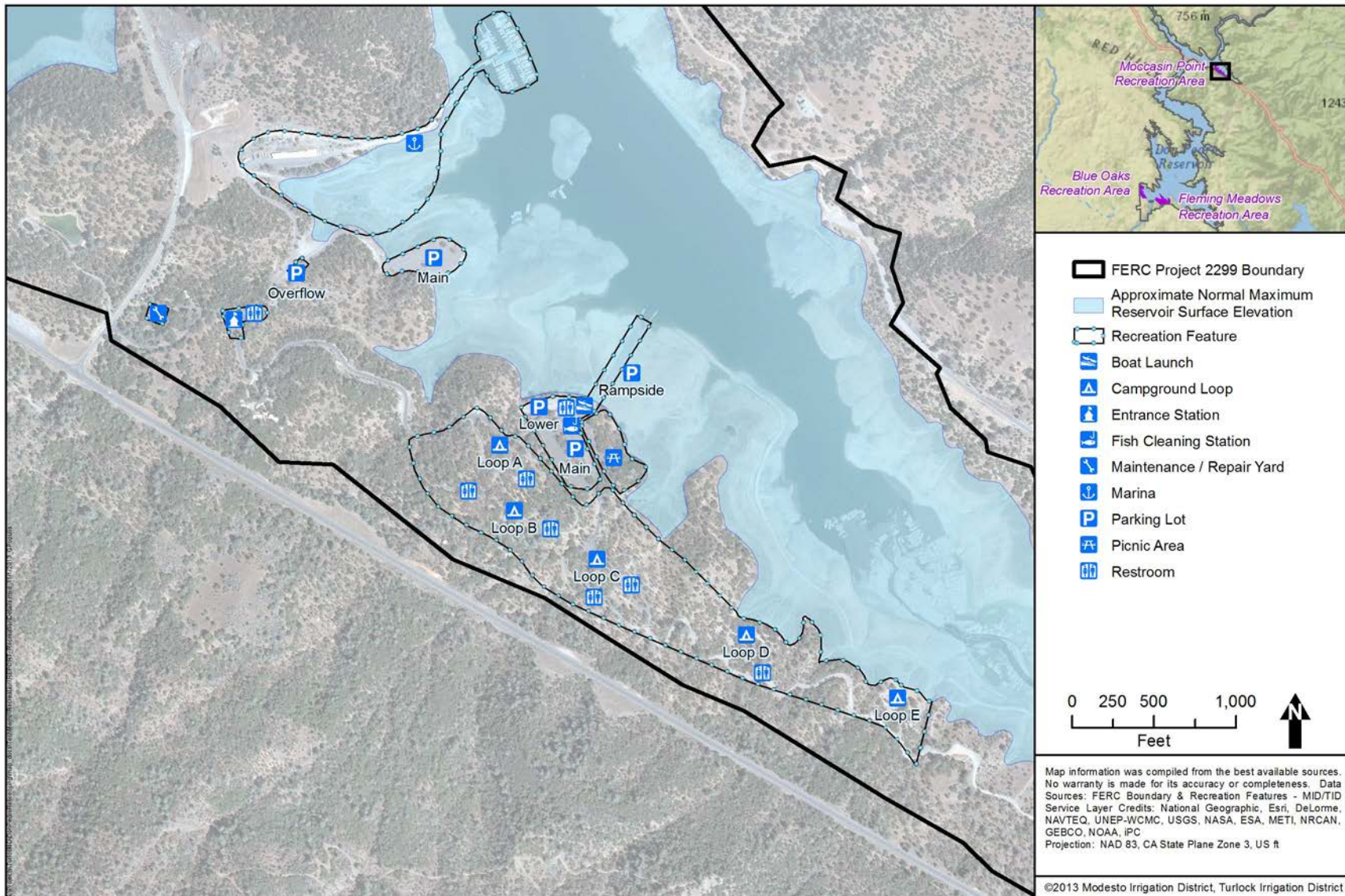


Figure 5.3-3. Moccasin Point Recreation Area.

### 5.3.3.1 Inventory and Condition Evaluation

For each developed facility at Moccasin Point Recreation Area, four types of features (roads and parking, site elements (vehicle spurs, tables, fire ring/grills, boat ramps, etc.), site buildings (toilets and other public use buildings) and signs (site identification, information/regulations and directional) were assessed.

#### **Roads and Parking Facilities**

The inventory and condition evaluations for the roads and parking areas at Moccasin Point Recreation Area are provided in Table 5.3-20 and Table 5.3-21, respectively. The majority of the roads (70 percent or 7 roads) are asphalt construction with most in good condition (4 roads) and the remaining roads (3 roads) in fair condition. The gravel surface roads (3 total) are mostly in fair condition (2 roads) with one road in good condition.

**Table 5.3-20. Inventory and condition evaluations for the roads at Moccasin Point Recreation Area.**

Site	Surface Material	Road Width (ft)	Circulation Type	Condition
Campground A	asphalt	12	1-way loop	Fair
Campground B	asphalt	12	1-way loop	Fair
Campground C	asphalt	12	1-way loop	Fair
Campground C Access Road	asphalt	24	2-way	Good
Campground D	gravel	12	1-way loop	Fair
Campground D Access Road	gravel	20	2-way	Good
Campground E	gravel	10	1-way loop	Fair
Boat Launch/Group Picnic Area	asphalt	20	2-way	Good
Boat Launch Overflow Parking Lot	asphalt	24	2-way	Good
Marina	asphalt	20	2-way	Good

The parking areas are constructed of either gravel or asphalt and nearly all area in good condition (Table 5.3-21). One gravel parking area (marina low-water lot) is in fair condition; and one asphalt parking area (Boat Launch Overflow Parking Lot) is in excellent condition (newly/recently constructed).

**Table 5.3-21. Inventory and condition evaluations for the parking areas at Moccasin Point Recreation Area.**

Site	Sub-site	Parking Areas with Striped Spaces	Parking Areas Without Marked Spaces (Size, ft)	Surface	
				Material	Condition
Campground E	--	--	125 x 25	Gravel	Good
Boat Launch	Developed Lot	44 single (1 accessible) 71 double (2 accessible)	--	Asphalt	Good
	Undeveloped Lot	2 single (0 accessible) 31 double (0 accessible)	--	Gravel	Good
Boat Launch Overflow Parking Area	Developed Lot	8 single (0 accessible) 56 double (0 accessible)	--	Asphalt	Excellent
	Undeveloped Lot	8 single (0 accessible)	--	Gravel	Good
Group Picnic Area	--	15 single (1 accessible)	--	Asphalt	Good
Marina	Main Lot	21 single (1 accessible)	--	Asphalt	Good
	Low Water Lot	--	75 x 20	Gravel	Fair

### Site Elements

The detailed inventory and condition evaluations for the site elements at the campground and day-use facilities at Moccasin Point Recreation Area are provided in Table 5.3-22 and Table 5.3-23, respectively. All of the campground facility features are in either good or excellent condition, except for the vehicle spurs (gravel/dirt) in areas D and E; food lockers in areas B and C; water faucets in area B; and trash receptacles in area A – all of which are in fair condition.

**Table 5.3-22. Inventory and condition evaluation for the site elements at Moccasin Point Recreation Area campground facilities.**

Site Element	Parameter	Campground Area				
		A	B	C	D	E
Campsites By Type	Tent, drive-in	0	21	28	16	12
	Tent, walk-in	0	0	0	0	0
	RV	13	6	0	0	0
	Group	0	0	0	0	0
Vehicle Spurs	Material	Asphalt	Asphalt	Asphalt	Gravel	Gravel
	Condition	Good	Good	Good	Fair	Fair
Tables	Material	Concrete	Concrete	Concrete	Concrete	Concrete
	Condition	Excellent	Excellent	Excellent	Excellent	Excellent
Fire Ring/Grill	Material	Metal	--	--	--	--
	Condition	Good	--	--	--	--
Pedestal Grill	Material	Metal	--	--	--	--
	Condition	Good	--	--	--	--

Site Element		Parameter	Campground Area				
			A	B	C	D	E
Lockers		Material	--	Concrete	Concrete	Concrete	Concrete
		Condition	--	Fair	Fair	Good	Good
RV Hookups		Material	Wood/ Metal	Wood/ Metal	--	--	--
		Condition	Good	Good	--	--	--
Water	Faucet	Material	--	Wood/ Metal	Wood/ Metal	--	--
		Condition	--	Fair	Good	--	--
Trash	Dumpster	Material	Metal	Metal	Metal	Metal	Metal
		Condition	Good	Excellent	Good	Good	Excellent
	Receptacle	Material	Wood/ Metal	Wood/ Metal	Wood/ Metal	Wood/ Metal	Wood/ Metal
		Condition	Fair	Good	Good	Good	Good

All of the day-use facility features are in either good or excellent condition, except for the trash receptacles at the boat launch and group picnic area, which are in fair condition.

**Table 5.3-23. Inventory and condition evaluation for the site elements at Moccasin Point Recreation Area day-use facilities.**

Site Element		Parameter	Boat Launch	Group Picnic Area	Marina
Picnic Sites By Type	Individual		0	12 <sup>1</sup>	0
	Group		0	0	0
Tables	Material		--	Concrete	--
	Condition		--	Good	--
Pedestal Grill	Material		--	Metal	--
	Condition		--	Good	--
Water	Faucet	Material	--	Metal/Wood	--
		Condition	--	Good	--
	Fountain	Material	--	Concrete/Metal	--
		Condition	--	Good	--
Trash	Dumpster	Material	Metal	Metal	Metal
		Condition	Good	Good	Good
	Receptacle	Material	Wood/Metal	Wood/Metal	--
		Condition	Fair	Fair	--
Boat Ramp	No. of Lanes		3	--	--
	Material		Concrete	--	--
	Condition		Good	--	--
Boat Ramp Courtesy Dock	Type		Floating	--	--
	Material		Synthetic/Metal	--	--
	Condition		Good	--	--
Boat Slips/Docks	Type		--	--	Floating
	Material		--	--	Synthetic/Metal
	Condition		--	--	Good
Fish Cleaning Station	Material		Concrete/Metal	--	--
	Condition		Good	--	--
Sewage Dump Station <sup>2</sup>	Material		Concrete/Metal	--	--
	Condition		Good	--	--

<sup>1</sup> Includes one individual picnic site (wood/metal table in good condition) at Manzanita Lookout off access road to boat launch/picnic area.

<sup>2</sup> For the purposes of this condition evaluation, the sewage dump station was considered part of the boat launch facility.

## Site Buildings

The inventory and condition evaluations for the site buildings at Moccasin Point Recreation Area are provided in Table 5.3-24. The site buildings at these facilities include primarily toilet buildings, but also an entrance station and the marina store/office. In general, the exterior of the toilet building are in good condition (concrete construction); metal roofs are in excellent condition; concrete shingle roofs are in good or fair condition; and the interiors are in fair to good condition. Of note, the roofs constructed of concrete shingles are in fair or good condition, primarily due to the condition of the roof support structures and not the concrete shingles themselves, which are in excellent condition. The other site buildings (entrance station kiosk and marina store/office) are in good condition.

**Table 5.3-24. Inventory and condition evaluations for the site buildings at Moccasin Point Recreation Area.**

Site	Location ID	Type	Exterior		Roof		Interior			
			Material	Condition	Material	Condition	# Stalls	# Urinals	# Showers	Condition
<b>TOILET BUILDINGS</b>										
Campground B	Site 1	Flush	Concrete	Good	Metal	Excellent	3	1	4	Fair
	Site 8	Flush	Concrete	Good	Concrete shingle	Good	3	1	0	Good
	Site 18	Flush	Concrete	Good	Concrete shingle	Good	3	1	0	Good
Campground C	Site 5	Flush	Concrete	Good	Metal	Excellent	3	1	0	Good
	Site 19	Flush	Concrete	Good	Metal	Excellent	3	1	2	Good
Campground D	Site 1	Flush	Concrete	Good	Concrete shingle	Good	5	1	0	Good
Boat Launch	--	Flush	Concrete	Good	Metal	Excellent	5	1	0	Good
Entrance Station	--	Flush	Concrete	Good	Concrete shingle	Good	3	1	0	Good
<b>OTHER BUILDINGS</b>										
Entrance Station Kiosk	--	--	Wood	Good	Wood	Good	--	--	--	--
Marina Store/Office	Marina	--	Synthetic/ Metal/ Wood	Good	Metal	Good	--	--	--	--

## Signs

The types of signs at the recreation area included facility or site identification, information/regulation, and directional signs. The inventory and condition evaluations for the signs at Moccasin Point Recreation Area are provided in Table 5.3-25 by type of sign and material. Most of the signs (42 percent) are in fair condition and primarily constructed of wood. Much of the remaining signs (29 percent) are constructed of wood or metal and generally in good condition.

**Table 5.3-25. Inventory and condition evaluations for the signs by type of sign at Moccasin Point Recreation Area.**

Sign Type	Sign Material	Sign Condition			
		Poor	Fair	Good	Excellent
Directional	Metal	0	2	4	5
	Synthetic	2	1	3	3
	Wood	4	23	10	0
	Concrete	0	0	0	0
Facility/Site ID	Metal	0	0	0	0
	Synthetic	0	0	0	0
	Wood	0	0	0	0
	Concrete	0	0	0	0
Information/ Regulations	Metal	2	4	6	1
	Synthetic	3	1	2	4
	Wood	3	11	4	0
	Concrete	0	0	0	1
All Signs	Metal	2	6	10	6
	Synthetic	5	2	5	7
	Wood	7	34	14	0
	Concrete	0	0	0	1
	All Types	14	42	29	14

### **Overall Facility Condition Rating**

The facility condition ratings for each campground and day-use facility as well as the overall condition rating are provided in Table 5.3-26. Notably, if the facility has all four features (roads/parking, site elements, site buildings, and signs) then the total overall score is out of a possible 12.0 points. The facility condition tables note where a facility has fewer than four features that were evaluated and provides the adjusted possible score (e.g., 9.0 points for three features). Overall, the Moccasin Point Recreation Area is in good condition and all the features (campgrounds and day-use facilities) are in good condition, except for campground areas A and B, which are in fair condition.

**Table 5.3-26. Overall facility condition ratings (calculated averages and sums) for Moccasin Point Recreation Area.**

Facility Feature Category	Campgrounds					Day Use Facilities			OVERALL
	A	B	C	D	E	Boat Launch	Group Picnic Area	Marina	
Roads and Parking	1.0	1.0	1.5	1.5	1.5	2.2	2.0	1.7	1.5
Site Elements	2.0	2.0	2.0	2.0	2.2	1.8	1.8	2.0	2.0
Site Buildings	--	2.0	2.3	2.0	--	2.2	--	2.0	2.1
Signs	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
<b>Overall Condition</b> (total score out of 12.0 unless otherwise noted)	<b>Fair<sup>2</sup></b> (4.4 out of 9.0)	<b>Fair</b> (6.4)	<b>Good</b> (7.2)	<b>Good</b> (6.9)	<b>Good<sup>2</sup></b> (5.1 out of 9.0)	<b>Good</b> (7.6)	<b>Good<sup>2</sup></b> (5.2 out of 9.0)	<b>Good</b> (7.1)	<b>Good</b> (7.0)

1 Includes the fish cleaning station, entrance station building and toilet, and sewage dump station.

2 The overall condition rating ranges has been adjusted for these areas to account for only three site features or a maximum condition score of 9.0. Thus, the three-feature scale for the overall condition rating was: Poor = 0.0 to 1.0; Fair = 1.1 to 4.5; Good = 4.6 to 8.0; and Excellent = 8.1 to 9.0.

## 5.3.3.2 Accessibility Evaluation

The accessibility evaluations for the campground and day-use facilities at Moccasin Point Recreation Area are provided in Table 5.3-27 and Table 5.3-28, respectively. Most Moccasin Point Recreation Area facilities are inaccessible, but do have some features that meet accessibility. The overall accessibility rating is “partially accessible”.

**Table 5.3-27. Accessibility evaluations at the campgrounds at Moccasin Point Recreation Area.**

Feature Category	Feature	Campground Areas				
		A	B	C	D	E
Roads and Parking	Parking	--	--	--	--	Inaccessible
Site Elements	Campsites	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible
	Water Spigots	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible
	Trash	Partial	Partial	Partial	Partial	Partial
Site Buildings	Toilets	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible
<b>Overall Accessibility Rating</b>		<b>Partial</b>	<b>Partial</b>	<b>Partial</b>	<b>Partial</b>	<b>Partial</b>

**Table 5.3-28. Accessibility evaluations at the day-use facilities at Moccasin Point Recreation Area.**

Feature Category	Feature	Day Use Facilities		
		Boat Launch	Picnic Area	Marina
Roads and Parking	Parking	Partial	Accessible	Accessible
Site Elements	Picnic sites	--	Partial	--
	Water Spigots	--	Inaccessible	--
	Trash	Partial	Inaccessible	Partial
Site Buildings	Toilets	Partial	--	--
<b>Overall Accessibility Rating</b>		<b>Partial</b>	<b>Partial</b>	<b>Partial</b>

## 5.3.3.3 Recreation Use Impact Evaluation

The recreation use impact evaluations and primary observed impacts for the facilities at Moccasin Point Recreation Area are provided in Table 5.3-29. The use impact rating was low at the boat launch, picnic area and marina, where the only signs of impact were observed at the picnic area with small areas of bare/compacted ground. The use impact rating was high at all the campground areas (A through E) due to large, contiguous areas of bare/compacted ground and some tree cutting.

**Table 5.3-29. Use impact inventory at Moccasin Point Recreation Area.**

Site	Use Impact Rating	Observed Impacts
Campground A	High	Large, contiguous areas of bare/compacted ground; some tree cutting

Site	Use Impact Rating	Observed Impacts
Campground B	High	Large, contiguous areas of bare/compacted ground; some tree cutting
Campground C	High	Large, contiguous areas of bare/compacted ground; some tree cutting
Campground D	High	Large, contiguous areas of bare/compacted ground; some tree cutting
Campground E	High	Large, contiguous areas of bare/compacted ground; some tree cutting
Boat Launch	Low	None
Picnic Area	Low	Small areas of bare/compacted ground
Marina	Low	None

### 5.3.4 Wreck Bay Boat-In Camping Area

Wreck Bay Boat-in Camping Area consists of six campsites each with a picnic table only and two toilet buildings. The remote campground is accessed by boat only and is located in Wreck Bay on the west shoreline of the reservoir at approximately River Mile 66.7 (Figure 3.0-1).

#### 5.3.4.1 Inventory and Condition Evaluation

#### Roads and Parking Facilities

Wreck Bay Boat-in Camping Area does not have any roads or parking areas associated with the facility.

#### Site Elements

The concrete picnic tables (the only site element present) at Wreck Bay Boat-in Camping Area are in excellent condition.

#### Site Buildings

The site buildings at the Wreck Bay Boat-in Camping Area are two toilet buildings (Table 5.3-30). The concrete exterior/metal roof construction toilet building is in good condition overall; whereas the plastic construction toilet building is in fair condition.

**Table 5.3-30. Inventory and condition evaluations for the site buildings (toilets) at Wreck Bay Boat-In Camping Area.**

Site	Location ID	Type	Exterior		Roof		Interior			
			Material	Condition	Material	Condition	# Stalls	# Urinals	# Showers	Condition
<b>TOILET BUILDINGS</b>										
Wreck Bay	Unit 1	Vault	Concrete	Good	Metal	Excellent	1	0	0	Good
	Unit 2	Vault	Plastic	Fair	Plastic	Fair	1	0	0	Fair



## **Signs**

Wreck Bay Boat-in Camping Area had three information/regulation signs. All signs are constructed of plastic/synthetic materials and are in fair condition.

## **Overall Facility Condition Rating**

Wreck Bay Boat-in Camping Area is in good condition (Table 5.3-31).

**Table 5.3-31. Overall facility condition ratings (calculated averages and sums) for Wreck Bay Boat-In Camping Area.**

Facility Feature Category	Wreck Bay Boat-In Camping Area
Roads and Parking	--
Site Elements	3.0
Site Buildings	1.7
Signs	1.0
<b>Overall Condition Rating</b> (total score out of maximum of 9.0)	<b>Good<sup>1</sup></b> (5.7)

<sup>1</sup> The overall condition rating ranges for these areas are adjusted to account for only three site features or a maximum condition score of 9.0. Thus, the three-feature scale for the overall condition rating was: Poor = 0.0 to 1.0; Fair = 1.1 to 4.5; Good = 4.6 to 8.0; and Excellent = 8.1 to 9.0.

### 5.3.4.2 Accessibility Evaluation

Wreck Bay Boat-in Camping Area is inaccessible (Table 5.3-32).

**Table 5.3-32. Accessibility evaluations at Wreck Bay Boat-In Camping Area.**

Feature Category	Feature	Wreck Bay Boat-In Camping Area
Site Elements	Campsites	Inaccessible
Site Buildings	Toilets	Inaccessible
<b>Overall Accessibility Rating</b>		<b>Inaccessible</b>

### 5.3.4.3 Recreation Use Impact Evaluation

The use impact rating at Wreck Bay Boat-in Camping Area was low. The area does not show any signs of regular camping use, except for small areas of bare and compacted ground around each table/campsite.

## **5.3.5 Ward's Ferry Bridge**

The Ward's Ferry Bridge site consists of two user-defined reservoir access locations - one each on river left and river right of the Tuolumne River arm of the reservoir at RM 78.4 – that are used primarily as a take-out locations by whitewater boaters on the upper Tuolumne River. The only facility at this site is a single vault restroom on river right. The access to shoreline occurs via unmaintained paths/roads to the old bridge abutments on each shoreline.

## 5.3.5.1 Inventory and Condition Evaluation

**Roads and Parking Facilities**

The Ward's Ferry Bridge site does not have any roads or formal parking areas associated with the site. Rather, parking occurs informally along the shoulder of both sides of Ward's Ferry Bridge Road at each end of the bridge (4 areas). The roadside parking areas consist of dirt and loose gravel; and are in fair condition overall (Table 5.3-33).

**Table 5.3-33. Inventory and condition evaluations for the parking areas at the Ward's Ferry site.**

Site	Sub-site	Parking Areas Without Marked Spaces (Size, ft)	Surface	
			Material	Condition
Ward's Ferry	Area A (west)	110 x 15	Dirt/gravel	Fair
	Area B (west)	30 x 12	Dirt/gravel	Fair
	Area C (east)	100 x 15	Dirt/gravel	Fair
	Area D (east)	150 x 12	Dirt/gravel	Fair

**Site Buildings**

The lone site building at the Ward's Ferry site is a single-unit vault toilet building (Table 5.3-34). The prefabricated concrete exterior (including the roof) in good condition structurally; however, the exterior surfaces show extensive signs of graffiti (despite regular painting by DPRA) and some chipping along the walls and corners of the restroom. The interior is in good condition.

**Table 5.3-34. Inventory and condition evaluations for the site building (toilet) at the Ward's Ferry site.**

Site	Location ID	Type	Exterior		Roof		Interior			
			Material	Condition	Material	Condition	# Stalls	# Urinals	# Showers	Condition
<b>TOILET BUILDING</b>										
Ward's Ferry	Unit 1	Vault	Concrete	Good	Concrete	Good	1	0	0	Good

## 5.3.5.2 Accessibility Evaluation

The Ward's Ferry Bridge site is not accessible.

## 5.3.5.3 Recreation Use Impact Evaluation

The use impact rating at the Ward's Ferry site is high. The area has extensive graffiti on the toilet building, bridge, and road surface; as well as litter along both access paths and in the surrounding vegetation. In addition, toilet paper litter was observed in the vicinity of the toilet building.

### 5.3.6 Dispersed Developed Toilet Facilities

Don Pedro Reservoir has 15 developed toilet facilities dispersed throughout the reservoir – 10 floating platform toilets and 5 land-based toilet facilities<sup>2</sup> (Figure 3.0-1). Floating toilets are located in eight dispersed recreation locations: Big Creek arm, Gardiner Falls cove, Hatch Creek arm, Middle Bay, Railroad Canyon, Rogers Creek arm, Tuolumne River arm, and Woods Creek arm. Dispersed toilet buildings are located at Graveyard Creek, Lucas Bay, and Mud Flats. The condition, accessibility and use impact evaluations of the dispersed developed toilet facilities are summarized below.

#### 5.3.6.1 Detailed Feature Inventory and Condition Evaluation

##### Roads and Parking Areas

The dispersed toilet buildings do not have any roads or parking associated with the facilities.

##### Site Elements

The dispersed toilet buildings do not have any site elements associated with the facilities.

##### Site Buildings

The detailed inventory and condition evaluations for the dispersed toilet facilities are provided in Table 5.3-35. Of note, the facility inventory conducted as part of the relicensing study found all eight floating toilet buildings are of the same external design/material and condition; and, as a result, the floating toilet buildings are combined in Table 5.3-36 and all subsequent tables in this section. Overall, the floating toilets are in good condition; the Graveyard Creek toilet is in excellent condition; and the Lucas Bay and Mud Flats toilets are in fair condition.

**Table 5.3-35. Inventory and condition evaluations for the floating toilet facilities on Don Pedro Reservoir.**

Evaluation Variable		Floating Toilets (8 total)	Graveyard Creek Toilet	Lucas Bay Toilet	Mud Flats Toilet
Exterior	Material	Wood	CXT (pre-fabricated concrete)	Plastic	Plastic
	Condition	Good	Excellent	Fair	Fair
Roof	Material	Metal	CXT (pre-fabricated concrete)	Plastic	Plastic
	Condition	Good	Excellent	Fair	Fair

<sup>2</sup> DPRA also maintains one floating toilet facility at Fleming Meadows Recreation Area and one at Blue Oaks Recreation Area. Facility condition at Wreck Bay, where two land-based toilets are located, is discussed in Section 5.3.4.

Evaluation Variable		Floating Toilets (8 total)	Graveyard Creek Toilet	Lucas Bay Toilet	Mud Flats Toilet
Interior	Type	Vault	Vault	Vault	Vault
	Toilets (number)	2	1	1	1
	Urinals (number)	0	0	0	0
	Showers (number)	0	0	0	0
	Sinks (number)	0	0	0	0
	Condition	Good	Excellent	Fair	Fair

### **Signs**

The only sign associated with each toilet building was a facility/site identification sign. All of the signs were a metal material and in good condition.

### **Overall Facility Condition Rating**

Overall, the Graveyard Creek toilet is in excellent condition; the floating toilets are in good condition; and the Lucas Bay and Mud Flats toilets are in fair condition (Table 5.3-36).

**Table 5.3-36. Overall facility condition ratings (calculated averages) for the dispersed toilet facilities.**

Facility Feature Category	Floating Toilets (8 total)	Graveyard Creek Toilet	Lucas Bay Toilet	Mud Flats Toilet
Recreation Site Buildings	2.0	3.0	1.0	1.0
Signs	2.0	2.0	2.0	2.0
<b>Overall Condition Rating<sup>1</sup></b> (total score out of 6.0)	<b>Good</b> (4.0)	<b>Excellent</b> (5.0)	<b>Fair</b> (3.0)	<b>Fair</b> (3.0)

<sup>1</sup> The overall condition rating ranges have been adjusted to account for only two site features or a maximum condition score of 6.0. Thus, the two-feature scale for the overall condition rating was: Poor = 0.0 to 1.0; Fair = 1.1 to 2.0; Good = 2.1 to 4.5; and Excellent = 4.6 to 6.0.

#### 5.3.6.2 Accessibility Evaluation

All of the dispersed toilets are inaccessible; however, this type of toilet facility is not designed to accessible standards.

#### 5.3.6.3 Recreation Use Impact Evaluation

Use impact was low (non-existent) at all the floating toilets. Use impacts at Graveyard Creek, Lucas Bay, and Mud Flats are discussed in Section 5.5.

## **5.4 Current Recreation Use and Activity Participation**

Observation surveys were conducted at all recreation areas from January through December 2012. During the surveys, the time, location, number of vehicles, vehicles with trailers (and the type of trailer), vehicles with racks (for boats), trailers, boats, people, day groups, overnight

groups, and the types of recreation activities were recorded. Data in this section identify the amount, activity type, and spatial and temporal distribution of recreation use within each recreation area.

Tables 5.4-1 and 5.4-2 list how the vehicle and recreation sites included in the observations were grouped within each recreation area. The groupings were made based on areas where uses were observed to occur; this facilitated organized and systematic observations that covered all areas where visitors were present. Figures 5.3-1 through 5.3-3 the layout of each recreation site.

**Table 5.4-1. Recreation Area groupings for vehicle observation**

<b>Fleming Meadows</b>	Main Parking Lot Lots: Lot 1, Lot 2, Lot 3, Lot 4, Lot 5, Lot 6 Marina: Marina Main Lot, Single Vehicle Lot, Lower Lot, Overflow Parking Lot Swim Lagoon Group Picnic Area Amphitheater Campground Loop B Parking Lot Campground Loop D Parking Lot Private Houseboat Parking Lot
<b>Blue Oaks</b>	Boat Launch: Upper Lot, Lower Lot Group Picnic Area
<b>Moccasin Point</b>	Boat Launch: Main Lot, Lower Lot, Ramp Side Picnic Area Marina Entrance Overflow Lot Additional Parking: Main Lot, Overflow Lot

**Table 5.4-2. Recreation Area groupings for recreation activities**

<b>Fleming Meadows</b>	Boat Launch Main Lot Marina Main Lot Swim Lagoon Group Picnic Area Amphitheater Campground Loop B Day Use Area Private Houseboat Parking Lot
<b>Blue Oaks</b>	Boat Launch Upper Lot Group Picnic Area
<b>Moccasin Point</b>	Boat Launch Main Lot Picnic Area Additional Parking Main Lot

## 5.4.1 Fleming Meadows

### 5.4.1.1 Boat Launch Main Lot

#### Vehicle Use

*Peak Season.* During the peak season, the majority of vehicles were those with boat trailers (average 78 vehicles at one time (VAOT)) and those without trailers (average 34 VAOT) (Table

5.4-3). The majority of vehicles were observed on weekends and holidays. Vehicles were observed most often during the morning before 11 a.m. (AM) and during the mid-day period from 11 a.m. to 3 p.m. (mid). Attachment C presents a detailed description of the vehicles and activities observed at each recreation site.

**Table 5.4-3. Average and maximum number of vehicles observed at Fleming Meadows: Boat Launch Main Lot-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time												
			Vehicle without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Total of All Day Types	Overall	Avg	33.91	77.87	0.48	5.43	0.26	0.04	0.43	2.78	0.00	0.30	0.04	0.13	
		Max	137	223	5	18	2	1	3	11	0	4	1	1	
	AM	Avg	46.00	87.56	0.33	6.56	0.11	0.00	0.22	4.22	0.00	0.33	0.00	0.22	
		Max	137	200	1	14	1	0	1	11	0	2	0	1	
	mid	Avg	29.58	74.17	0.67	5.42	0.25	0.08	0.67	2.17	0.00	0.33	0.00	0.08	
		Max	117	223	5	18	2	1	3	9	0	4	0	1	
	PM	Avg	5.50	56.50	0.00	0.50	1.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	
		Max	6	58	0	1	2	0	0	0	0	0	1	0	
	Weekday	Overall	Avg	6.60	26.70	0.50	2.00	0.00	0.00	0.30	0.90	0.00	0.20	0.00	0.20
			Max	16	60	5	6	0	0	2	3	0	2	0	1
AM		Avg	5.33	24.33	0.00	2.00	0.00	0.00	0.00	1.33	0.00	0.67	0.00	0.33	
		Max	8	27	0	3	0	0	0	3	0	2	0	1	
mid		Avg	7.14	27.71	0.71	2.00	0.00	0.00	0.43	0.71	0.00	0.00	0.00	0.14	
		Max	16	60	5	6	0	0	2	2	0	0	0	1	
PM		Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
Weekend		Overall	Avg	45.56	110.22	0.33	7.33	0.33	0.11	0.67	3.89	0.00	0.44	0.00	0.00
			Max	117	223	1	18	2	1	3	11	0	4	0	0
	AM	Avg	33.00	80.33	0.00	5.00	0.00	0.00	0.33	4.67	0.00	0.00	0.00	0.00	
		Max	60	118	0	8	0	0	1	11	0	0	0	0	
	mid	Avg	61.00	139.20	0.60	10.20	0.60	0.20	1.00	4.20	0.00	0.80	0.00	0.00	
		Max	117	223	1	18	2	1	3	9	0	4	0	0	
	PM	Avg	6.00	55.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	6	55	0	0	0	0	0	0	0	0	0	0	
	Holiday	Overall	Avg	76.00	133.00	0.75	9.75	0.75	0.00	0.25	5.00	0.00	0.25	0.25	0.25
			Max	137	200	1	14	2	0	1	10	0	1	1	1
AM		Avg	99.67	158.00	1.00	12.67	0.33	0.00	0.33	6.67	0.00	0.33	0.00	0.33	
		Max	137	200	1	14	1	0	1	10	0	1	0	1	
mid		Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
PM		Avg	5.00	58.00	0.00	1.00	2.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	
		Max	5	58	0	1	2	0	0	0	0	0	1	0	

*Non-Peak Season.* During the non-peak season, vehicles observed dropped off considerably, with the majority of vehicles with boat trailers at average 9.39 VAOT, and those without trailers

at an average 3.46 VAOT (Table 5.4-4). The majority of vehicles were observed on weekends. When comparing the periods of the day, vehicles were observed most often during the morning and mid-day period.

**Table 5.4-4. Average and maximum number of vehicles observed at Fleming Meadows: Boat Launch Main Lot-Non-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Total of All Day Types	Overall	Avg	3.46	9.39	0.00	0.07	0.00	0.00	0.04	0.14	0.00	0.07	0.00	0.00
		Max	21	52	0	1	0	0	1	1	0	1	0	0
	AM	Avg	2.71	7.43	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
		Max	10	32	0	0	0	0	0	1	0	0	0	0
	mid	Avg	3.90	10.30	0.00	0.10	0.00	0.00	0.05	0.10	0.00	0.10	0.00	0.00
		Max	21	52	0	1	0	0	1	1	0	1	0	0
PM	Avg	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Max	0	5	0	0	0	0	0	0	0	0	0	0	
Weekday	Overall	Avg	1.36	2.71	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
		Max	5	6	0	0	0	0	0	1	0	0	0	0
	AM	Avg	1.25	2.75	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
		Max	2	3	0	0	0	0	0	1	0	0	0	0
	mid	Avg	1.56	2.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	5	6	0	0	0	0	0	0	0	0	0	0
PM	Avg	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Max	0	5	0	0	0	0	0	0	0	0	0	0	
Weekend	Overall	Avg	5.57	16.07	0.00	0.14	0.00	0.00	0.07	0.21	0.00	0.14	0.00	0.00
		Max	21	52	0	1	0	0	1	1	0	1	0	0
	AM	Avg	4.67	13.67	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
		Max	10	32	0	0	0	0	0	1	0	0	0	0
	mid	Avg	5.82	16.73	0.00	0.18	0.00	0.00	0.09	0.18	0.00	0.18	0.00	0.00
		Max	21	52	0	1	0	0	1	1	0	1	0	0
PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Max	0	0	0	0	0	0	0	0	0	0	0	0	

### **Recreation Users and Activities**

*Peak Season.* During the peak season all types of recreation uses were observed at the Boat Launch Main Lot, with many participating in activities that fell into the “other” category (e.g., knitting, reading, relaxing) (Table 5.4-5). The most common observed activities were walking (4.43 average persons at one time (PAOT), 22 maximum), picnicking/sunbathing (2.26 average PAOT, 17 maximum), and swimming (1.70 average PAOT, 20 maximum), which accounted for nearly all the shoreline activities observed. The highest number of recreation users were observed during weekend days, consisting mostly of walkers (9.67 average PAOT, 22 maximum), swimmers (3.67 average PAOT, 20 maximum), and picnicking/sunbathing activities

(3.56 average PAOT, 17 maximum). Recreation users were observed most often during the morning and mid-day periods.

**Table 5.4-5. Average and maximum observed shoreline activities at Fleming Meadows, Boat Launch Main Lot-Peak Season.**

Type of Day	Time of Day	n Observation Days	Statistic	Persons at One Time				
				Angler	Swimmer	Picnic/ Sunbather	Walker	Other
Total All Day Types	Overall	23	Avg	0.70	1.70	2.26	4.43	10.78
			Max	4	20	17	22	75
	AM	9	Avg	0.78	0.33	2.11	4.78	14.67
			Max	3	3	13	22	75
	mid	12	Avg	0.42	3.00	2.42	3.92	9.67
			Max	2	20	17	15	35
	PM	2	Avg	2.00	0.00	2.00	6.00	0.00
			Max	4	0	4	12	0
Weekday	Overall	10	Avg	0.30	0.30	0.30	0.60	5.70
			Max	1	3	3	3	14
	AM	3	Avg	0.33	0.00	0.00	0.00	6.00
			Max	1	0	0	0	14
	mid	7	Avg	0.29	0.43	0.43	0.86	5.57
			Max	1	3	3	3	12
	PM	0	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekend	Overall	9	Avg	0.67	3.67	3.56	9.67	11.78
			Max	3	20	17	22	35
	AM	3	Avg	1.00	0.00	0.67	11.33	9.67
			Max	3	0	2	22	11
	mid	5	Avg	0.60	6.60	5.20	8.20	15.40
			Max	2	20	17	15	35
	PM	1	Avg	0.00	0.00	4.00	12.00	0.00
			Max	0	0	4	12	0
Holiday	Overall	4	Avg	1.75	0.75	4.25	2.25	21.25
			Max	4	3	13	9	75
	AM	3	Avg	1.00	1.00	5.67	3.00	28.33
			Max	3	3	13	9	75
	mid	0	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	PM	1	Avg	4.00	0.00	0.00	0.00	0.00
			Max	4	0	0	0	0

*Non-Peak Season.* During the non-peak season, fewer shoreline users and a change in use at the Boat Launch Main Lot were observed (Table 5.4-6). The most common observed shoreline activities were angling (2.21 average PAOT, 7 maximum), picnicking/sunbathing (less than average of 1 PAOT, 3 maximum), and walking (less than 1 average PAOT, 4 maximum), which accounted for nearly all the shoreline activities observed. The highest number of shoreline users were observed during weekend days, consisting mostly of anglers (2.83 average PAOT, 7 maximum), picnicking/sunbathing activities (1.33 average PAOT, 3 maximum), and walkers (less than 1 average PAOT, 4 maximum). Most often, shoreline users were observed during the morning and mid-day periods.



**Table 5.4-6. Average and maximum observed shoreline activities at Fleming Meadows, Boat Launch Main Lot-Non-Peak Season.**

Type of Day	Time of Day	n Observation Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/ Sunbather	Walker	Other
Total All Day Types	Overall	28	Avg	2.21	0.07	0.46	0.25	1.54
			Max	7	2	3	4	10
	AM	7	Avg	1.57	0.00	0.00	0.14	2.00
			Max	5	0	0	1	8
	mid	20	Avg	2.55	0.10	0.65	0.30	1.45
			Max	7	2	5	4	10
	PM	1	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekday	Overall	14	Avg	1.57	0.00	0.00	0.00	0.86
			Max	7	0	0	0	6
	AM	4	Avg	1.50	0.00	0.00	0.00	1.50
			Max	5	0	0	0	6
	mid	9	Avg	1.78	0.00	0.00	0.00	0.67
			Max	7	0	0	0	2
	PM	1	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekend	Overall	14	Avg	2.86	0.14	0.93	0.50	2.21
			Max	7	2	5	4	10
	AM	3	Avg	1.67	0.00	0.00	0.33	2.67
			Max	4	0	0	1	8
	mid	11	Avg	3.18	0.18	1.18	0.55	2.09
			Max	7	2	5	4	10
	PM	0	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0

## 5.4.1.2 The Lots

**Vehicle Use**

*Peak Season.* The Lots included several overflow lots above the boat launch. During the peak season, the majority of vehicles were boat trailers (average 2.25 VAOT, 49 maximum) and PWC/kayaks trailers (average .34 VAOT, 2 maximum) (Table 5.4-7). The Lots are utilized primarily for parking trailers. When comparing the periods of the day, vehicles were observed most often during the morning and mid-day periods.

**Table 5.4-7. Average and maximum number of vehicles observed at Fleming Meadows: The Lots\*-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Total of All Day Types	Overall	Avg	0.04	0.08	0.02	0.03	0.01	0.00	0.02	2.25	0.03	0.34	0.00	0.00
		Max	1	3	1	2	1	0	2	49	2	7	0	0
	AM	Avg	0.05	0.14	0.05	0.07	0.02	0.00	0.02	4.31	0.10	0.50	0.00	0.00
		Max	1	2	1	2	1	0	1	49	2	7	0	0
	mid	Avg	0.04	0.06	0.00	0.01	0.00	0.00	0.02	1.52	0.00	0.32	0.00	0.00
		Max	1	3	0	1	0	0	2	32	0	7	0	0
	PM	Avg	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
		Max	1	0	1	0	0	0	0	2	0	0	0	0
Weekday	Overall	Avg	0.02	0.00	0.02	0.00	0.00	0.00	0.00	1.35	0.00	0.27	0.00	0.00
		Max	1	0	1	0	0	0	0	21	0	5	0	0
	AM	Avg	0.00	0.00	0.07	0.00	0.00	0.00	0.00	1.60	0.00	0.33	0.00	0.00
		Max	0	0	1	0	0	0	0	19	0	5	0	0
	mid	Avg	0.02	0.00	0.00	0.00	0.00	0.00	0.00	1.27	0.00	0.24	0.00	0.00
		Max	1	0	0	0	0	0	0	21	0	4	0	0
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
Weekend	Overall	Avg	0.09	0.17	0.02	0.06	0.02	0.00	0.04	2.50	0.04	0.41	0.00	0.00
		Max	1	3	1	2	1	0	2	37	2	7	0	0
	AM	Avg	0.12	0.24	0.00	0.12	0.06	0.00	0.00	3.82	0.12	0.41	0.00	0.00
		Max	1	2	0	2	1	0	0	37	2	7	0	0
	mid	Avg	0.07	0.17	0.00	0.03	0.00	0.00	0.07	2.34	0.00	0.52	0.00	0.00
		Max	1	3	0	1	0	0	2	32	0	7	0	0
	PM	Avg	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
		Max	1	0	1	0	0	0	0	2	0	0	0	0
Holiday	Overall	Avg	0.00	0.08	0.04	0.04	0.00	0.00	0.04	3.92	0.08	0.38	0.00	0.00
		Max	0	1	1	1	0	0	1	49	1	5	0	0
	AM	Avg	0.00	0.20	0.10	0.10	0.00	0.00	0.10	9.20	0.20	0.90	0.00	0.00
		Max	0	1	1	1	0	0	1	49	1	5	0	0
	mid	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	2	0	0	0	0

\*Includes Lot 1, Lot 2, Lot 3, Lot 4, Lot 5, and Lot 6.

*Non-Peak Season.* During the non-peak season, the majority of vehicles in the Lots were vehicles without trailers (average .65 VAOT, 47 maximum) and boat trailers only (average .15 VAOT, 4 maximum) (Table 5.4-8). The Lots are utilized less during non-peak season than peak season. The majority of use occurred mid-day on weekends.

**Table 5.4-8. Average and maximum number of vehicles observed at Fleming Meadows: Lots\*-Non-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Total of All Day Types	Overall	Avg	0.65	0.00	0.00	0.01	0.00	0.00	0.00	0.15	0.01	0.02	0.00	0.00
		Max	47	0	0	2	0	0	0	4	1	1	0	0
	AM	Avg	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.14	0.00	0.02	0.00	0.00
		Max	1	0	0	2	0	0	0	4	0	1	0	0
	mid	Avg	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.01	0.03	0.00	0.00
		Max	47	0	0	0	0	0	0	4	1	1	0	0
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
Weekday	Overall	Avg	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.12	0.00	0.01	0.00	0.00
		Max	1	0	0	2	0	0	0	4	0	1	0	0
	AM	Avg	0.05	0.00	0.00	0.10	0.00	0.00	0.00	0.24	0.00	0.05	0.00	0.00
		Max	1	0	0	2	0	0	0	4	0	1	0	0
	mid	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	2	0	0	0	0
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
Weekend	Overall	Avg	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.01	0.04	0.00	0.00
		Max	47	0	0	0	0	0	0	4	1	1	0	0
	AM	Avg	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
		Max	1	0	0	0	0	0	0	1	0	0	0	0
	mid	Avg	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.02	0.06	0.00	0.00
		Max	47	0	0	0	0	0	0	4	1	1	0	0
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0

\*Includes Lot 1, Lot 2, Lot 3, Lot 4, Lot 5, and Lot 6.

### 5.4.1.3 The Marina

#### **Vehicle Use**

*Peak Season.* The Marina included the parking areas most closely associated with Marina parking. During the peak season, the majority of vehicles were vehicles without trailers (average 15 VAOT, 188 maximum) (Table 5.4-9). The majority of vehicle use occurs on weekends and holidays. When comparing the periods of the day, vehicles were observed most often during the mid-day and afternoon after 3 p.m. (PM) timeframes during weekends, and morning and mid-day during weekdays and holidays.

**Table 5.4-9. Average and maximum number of vehicles observed at Fleming Meadows: Marina\*-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Total of All Day Types	Overall	Avg	15.11	0.73	0.09	0.14	0.01	0.02	0.02	0.13	0.02	0.03	0.02	0.03
		Max	188	56	2	8	1	1	1	2	2	1	1	1
	AM	Avg	14.89	0.25	0.18	0.04	0.00	0.00	0.04	0.18	0.07	0.04	0.00	0.04
		Max	82	2	2	1	0	0	1	1	2	1	0	1
	mid	Avg	14.84	1.05	0.05	0.20	0.02	0.04	0.00	0.13	0.00	0.04	0.04	0.04
		Max	188	56	2	8	1	1	0	2	0	1	1	1
	PM	Avg	17.44	0.22	0.00	0.11	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
		Max	111	1	0	1	0	0	1	0	0	0	0	0
Weekday	Overall	Avg	7.67	0.12	0.10	0.08	0.00	0.00	0.00	0.08	0.00	0.05	0.00	0.02
		Max	52	2	2	1	0	0	0	1	0	1	0	1
	AM	Avg	9.75	0.25	0.17	0.08	0.00	0.00	0.00	0.17	0.00	0.08	0.00	0.00
		Max	52	2	2	1	0	0	0	1	0	1	0	0
	mid	Avg	6.79	0.07	0.07	0.07	0.00	0.00	0.00	0.04	0.00	0.04	0.00	0.04
		Max	52	1	2	1	0	0	0	1	0	1	0	1
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
Weekend	Overall	Avg	18.08	0.08	0.08	0.06	0.03	0.03	0.06	0.11	0.06	0.03	0.06	0.03
		Max	124	1	1	1	1	1	1	2	2	1	1	1
	AM	Avg	17.50	0.17	0.25	0.00	0.00	0.00	0.08	0.17	0.17	0.00	0.00	0.00
		Max	78	1	1	0	0	0	1	1	2	0	0	0
	mid	Avg	16.11	0.00	0.00	0.05	0.05	0.05	0.00	0.11	0.00	0.05	0.11	0.05
		Max	124	0	0	1	1	1	0	2	0	1	1	1
	PM	Avg	27.00	0.20	0.00	0.20	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00
		Max	111	1	0	1	0	0	1	0	0	0	0	0
Holiday	Overall	Avg	27.00	3.69	0.06	0.50	0.00	0.06	0.00	0.31	0.00	0.00	0.00	0.06
		Max	188	56	1	8	0	1	0	2	0	0	0	1
	AM	Avg	22.50	0.50	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.25
		Max	82	2	0	0	0	0	0	1	0	0	0	1
	mid	Avg	40.00	7.00	0.13	1.00	0.00	0.13	0.00	0.50	0.00	0.00	0.00	0.00
		Max	188	56	1	8	0	1	0	2	0	0	0	0
	PM	Avg	5.50	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	22	1	0	0	0	0	0	0	0	0	0	0

\*Includes Main Lot, Single Vehicle Lot, Lower Lot, and Overflow Parking Lot.

*Non-Peak Season.* During the non-peak season, the majority of vehicles were vehicles without trailers (average 3.75 VAOT, maximum of 66) (Table 5.4-10). When comparing the average number of vehicles during weekends and weekdays, vehicle use appears consistent throughout the week (i.e., average of 2.64 on weekdays and 4.86 on weekends). When comparing the periods of the day, vehicles were observed most often during the morning and mid-day timeframes during weekends, and generally spread throughout the day during weekdays. The

visitor parking pattern shifted as the reservoir level dropped throughout the season, which allowed water access from Marina, Lower Lot directly to Boat Launch. All types of vehicles with or without trailers began to park closer to the water for better access.

**Table 5.4-10. Average and maximum number of vehicles observed at Fleming Meadows: Marina\*-Non-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time													
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle		
Total of All Day Types	Overall	Avg	3.75	1.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.02	
		Max	66	35	0	1	0	0	0	0	1	1	0	0	1	
	AM	Avg	3.28	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.03	
		Max	20	22	0	0	0	0	0	0	1	0	0	0	1	
	mid	Avg	3.64	0.88	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	
		Max	66	35	0	1	0	0	0	0	0	1	0	0	1	
	PM	Avg	5.82	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	51	15	0	0	0	0	0	0	0	0	0	0	0	
	Weekday	Overall	Avg	2.64	0.52	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.04
			Max	16	6	0	1	0	0	0	0	0	1	0	0	1
		AM	Avg	3.25	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
			Max	16	4	0	0	0	0	0	0	0	0	0	0	1
mid		Avg	2.40	0.55	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03	
		Max	15	6	0	1	0	0	0	0	0	1	0	0	1	
PM		Avg	3.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	13	0	0	0	0	0	0	0	0	0	0	0	0	
Weekend		Overall	Avg	4.86	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
			Max	66	35	0	0	0	0	0	0	1	0	0	0	0
		AM	Avg	3.30	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
			Max	20	22	0	0	0	0	0	0	1	0	0	0	0
	mid	Avg	5.34	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	66	35	0	0	0	0	0	0	0	0	0	0	0	
	PM	Avg	7.29	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	51	15	0	0	0	0	0	0	0	0	0	0	0	

\*Includes Main Lot, Single Vehicle Lot, Lower Lot, and Overflow Parking Lot.

### **Recreation Users and Activities**

*Peak Season.* During the peak season, all types of recreation uses were observed in the Marina Main Lot with many visitors participating in activities that were defined in an “other” category (Table 5.4-11). “Other” included such activities as loading and unloading boats, playing organized games, and sitting in a vehicle. The most common observed shoreline recreational activities were walking (3.78 average PAOT, 25 maximum), picnicking/sunbathing (1.26 average PAOT, 16 maximum), swimming (less than 1 average PAOT, 9 maximum), and angling (less than 1 average PAOT, 9 maximum). The highest number of shoreline users were observed

during weekend days, consisting mostly of walkers (6.33 average PAOT, 25 maximum), picnicking/sunbathing activities (2.56 average PAOT, 16 maximum), and swimmers (1.33 average PAOT, 9 maximum). Most often, shoreline users were observed during the morning and mid-day periods.

**Table 5.4-11. Average and maximum observed shoreline activities at Fleming Meadows, Marina Main Lot-Peak Season.**

Type of Day	Time of Day	n Observation Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/ Sunbather	Walker	Other
Total All Day Types	Overall	23	Avg	0.74	0.52	1.26	3.78	5.91
			Max	9	9	16	25	20
	AM	7	Avg	1.57	0.29	0.14	1.57	4.71
			Max	9	2	1	6	12
	mid	14	Avg	0.43	0.71	1.79	5.43	7.36
			Max	3	9	16	25	20
	PM	2	Avg	0.00	0.00	1.50	0.00	0.00
			Max	0	0	3	0	0
Weekday	Overall	10	Avg	0.30	0.00	0.00	0.90	2.50
			Max	3	0	0	6	9
	AM	3	Avg	0.00	0.00	0.00	2.00	2.00
			Max	0	0	0	6	6
	mid	7	Avg	0.43	0.00	0.00	0.43	2.71
			Max	3	0	0	3	9
	PM	0	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekend	Overall	9	Avg	0.33	1.33	2.56	6.33	7.22
			Max	2	9	16	25	20
	AM	3	Avg	0.67	0.67	0.00	1.00	5.00
			Max	2	2	0	3	8
	mid	5	Avg	0.20	2.00	4.60	10.80	10.00
			Max	1	9	16	25	20
	PM	1	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Holiday	Overall	4	Avg	2.75	0.00	1.50	5.25	11.50
			Max	9	0	3	10	20
	AM	1	Avg	9.00	0.00	1.00	2.00	12.00
			Max	9	0	1	2	12
	mid	2	Avg	1.00	0.00	1.00	9.50	17.00
			Max	2	0	2	10	20
	PM	1	Avg	0.00	0.00	3.00	0.00	0.00
			Max	0	0	3	0	0

*Non-Peak.* During the non-peak season, recreation users observed declined in number and different types of activities were observed at the Marina Main Lot (Table 5.4-12). The most common observed shoreline activities were angling, with an average of less than 1 user and a maximum of 9 anglers observed and other activities, with less than one user and a maximum of 9 observed. The highest number of shoreline users was observed during weekend days, consisting mostly of anglers (1.07 average PAOT, 6 maximum), and visitors participating in other activities. Most often, shoreline users were observed during the morning and mid-day periods.

**Table 5.4-12. Average and maximum observed shoreline activities at Fleming Meadows, Marina Main Lot-Non-Peak Season.**

Type of Day	Time of Day	n Observation Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/ Sunbather	Walker	Other
Total All Day Types	Overall	28	Avg	0.75	0.00	0.04	0.04	0.54
			Max	6	0	1	1	9
	AM	8	Avg	1.13	0.00	0.00	0.00	0.50
			Max	6	0	0	0	3
	mid	17	Avg	0.71	0.00	0.06	0.06	0.12
			Max	6	0	1	1	2
	PM	3	Avg	0.00	0.00	0.00	0.00	3.00
			Max	0	0	0	0	9
Weekday	Overall	14	Avg	0.43	0.00	0.00	0.00	0.00
			Max	3	0	0	0	0
	AM	3	Avg	1.00	0.00	0.00	0.00	0.00
			Max	3	0	0	0	0
	mid	10	Avg	0.30	0.00	0.00	0.00	0.00
			Max	3	0	0	0	0
	PM	1	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekend	Overall	14	Avg	1.07	0.00	0.07	0.07	1.07
			Max	6	0	1	1	9
	AM	5	Avg	1.20	0.00	0.00	0.00	0.80
			Max	6	0	0	0	3
	mid	7	Avg	1.29	0.00	0.14	0.14	0.29
			Max	6	0	1	1	2
	PM	2	Avg	0.00	0.00	0.00	0.00	4.50
			Max	0	0	0	0	9

#### 5.4.1.4 The Swim Lagoon

The swim lagoon includes parking and picnic facilities. During the non-peak season, the swim lagoon is only open for a short period after Labor Day weekend before it is closed for use. Therefore, there were no vehicle or recreation users observed during non-peak season.

#### **Vehicle Use**

*Peak Season.* During the peak season, the swim lagoon parking area is used primarily by vehicles without trailers (average 45 VAOT, maximum of 134) (Table 5.4-13). When comparing the average number of vehicles during weekends and weekdays, vehicle use is greatest on weekends (i.e., average of 58 on weekends and 5 on weekdays). When comparing the periods of the day, vehicles were observed throughout the day, with a majority during the morning and evening timeframes during weekends and weekdays during the peak season, with slightly lower use during mid-day.

**Table 5.4-13. Average and maximum number of vehicles observed at Fleming Meadows: Swim Lagoon - Peak Season**

Type of Day	Time of Day	Stats	Vehicles At One Time												
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Total of All Day Types	Overall	Avg	44.65	0.43	0.22	0.04	0.17	0.17	0.13	0.09	0.22	0.00	0.04	0.09	
		Max	134	3	2	1	2	2	1	1	2	0	1	1	
	AM	Avg	37.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00
		Max	100	2	0	0	0	0	0	0	0	2	0	0	0
	mid	Avg	44.23	0.15	0.38	0.08	0.23	0.31	0.23	0.08	0.15	0.00	0.08	0.08	
		Max	132	1	2	1	2	2	1	1	1	0	1	1	
	PM	Avg	62.67	1.00	0.00	0.00	0.33	0.00	0.00	0.33	0.33	0.00	0.00	0.33	
		Max	134	3	0	0	1	0	0	1	1	0	0	1	
Weekday	Overall	Avg	5.10	0.00	0.00	0.00	0.10	0.10	0.00	0.00	0.10	0.00	0.00	0.10	
		Max	20	0	0	0	1	1	0	0	1	0	0	1	
	AM	Avg	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	5	0	0	0	0	0	0	0	0	0	0	0	
	mid	Avg	6.43	0.00	0.00	0.00	0.14	0.14	0.00	0.00	0.14	0.00	0.00	0.14	
		Max	20	0	0	0	1	1	0	0	1	0	0	1	
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
Weekend	Overall	Avg	68.44	0.89	0.22	0.11	0.11	0.11	0.33	0.11	0.44	0.00	0.00	0.11	
		Max	134	3	1	1	1	1	1	1	2	0	0	1	
	AM	Avg	52.67	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	
		Max	91	2	0	0	0	0	0	0	2	0	0	0	
	mid	Avg	69.00	0.50	0.50	0.25	0.00	0.25	0.75	0.00	0.25	0.00	0.00	0.00	
		Max	119	1	1	1	0	1	1	0	1	0	0	0	
	PM	Avg	91.00	1.50	0.00	0.00	0.50	0.00	0.00	0.50	0.50	0.00	0.00	0.50	
		Max	134	3	0	0	1	0	0	1	1	0	0	1	
Holiday	Overall	Avg	90.00	0.50	0.75	0.00	0.50	0.50	0.00	0.25	0.00	0.00	0.25	0.00	
		Max	132	2	2	0	2	2	0	1	0	0	1	0	
	AM	Avg	100.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	100	2	0	0	0	0	0	0	0	0	0	0	
	mid	Avg	127.00	0.00	1.50	0.00	1.00	1.00	0.00	0.50	0.00	0.00	0.50	0.00	
		Max	132	0	2	0	2	2	0	1	0	0	1	0	
	PM	Avg	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	6	0	0	0	0	0	0	0	0	0	0	0	

### **Recreation Users and Activities**

*Peak Season.* During the peak season, the majority of recreation users observed were participating in picnic/sunbathing (125.04 users/508 max.) and swimming (67.17 users /252 max.) at the Swim Lagoon which accounted for nearly all the shoreline activities observed (Table 5.4-14). The highest use occurred during weekend days, consisting of



picnicking/sunbathing activities (199.11 users/508 max.) and swimmers (109.67 users/252 max.). Most often, use levels peaked during the mid-day.

**Table 5.4-14. Average and maximum observed shoreline activities at Fleming Meadows, Swim Lagoon-Peak Season.**

Type of Day	Time of Day	n Observation Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/ Sunbather	Walker	Other
Total All Day Types	Overall	23	Avg	0.00	67.17	125.04	0.00	0.78
			Max	0	252	508	0	18
	AM	7	Avg	0.00	45.86	93.14	0.00	0.00
			Max	0	148	231	0	0
	mid	8	Avg	0.00	74.92	133.38	0.00	1.38
			Max	0	252	508	0	18
	PM	3	Avg	0.00	83.33	163.33	0.00	0.00
			Max	0	206	362	0	0
Weekday	Overall	10	Avg	0.00	8.10	8.70	0.00	0.00
			Max	0	30	33	0	0
	AM	3	Avg	0.00	1.67	2.33	0.00	0.00
			Max	0	5	7	0	0
	mid	7	Avg	0.00	10.86	11.43	0.00	0.00
			Max	0	30	33	0	0
	PM	0	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekend	Overall	9	Avg	0.00	109.67	199.11	0.00	0.00
			Max	0	252	508	0	0
	AM	3	Avg	0.00	88.33	138.00	0.00	0.00
			Max	0	148	212	0	0
	mid	4	Avg	0.00	120.00	225.50	0.00	0.00
			Max	0	252	508	0	0
	PM	2	Avg	0.00	121.00	238.00	0.00	0.00
			Max	0	206	362	0	0
Holiday	Overall	4	Avg	0.00	119.25	249.25	0.00	4.50
			Max	0	217	416	0	18
	AM	1	Avg	0.00	51.00	231.00	0.00	0.00
			Max	0	51	231	0	0
	mid	0	Avg	0.00	209.00	376.00	0.00	9.00
			Max	0	217	416	0	18
	PM	0	Avg	0.00	8.00	14.00	0.00	0.00
			Max	0	8	14	0	0

#### 5.4.1.5 Group Picnic Area

During the non-peak season, the group picnic parking area was not used at all.

#### **Vehicle Use**

*Peak Season.* During the peak season, the group picnic parking area was used primarily by vehicles without trailers (average 1 VAOT, maximum of 11) (Table 5.4-15). The majority of use occurred during holidays, with the most use occurring mid-day on holidays and morning to mid-

day during weekends and weekdays. The Group Picnic Area Parking Lot accommodated some Private Houseboat Parking overflow on busy weekends and holidays.

**Table 5.4-15. Average and maximum number of vehicles observed at Fleming Meadows: Group Picnic Area-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time												
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Total of All Day Types	Overall	Avg	1.04	0.04	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
		Max	11	1	1	1	0	0	0	0	0	0	0	0	1
	AM	Avg	1.75	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
		Max	7	0	1	0	0	0	0	0	0	0	0	0	1
	mid	Avg	1.06	0.06	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	11	1	1	1	0	0	0	0	0	0	0	0	0
PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Max	0	0	0	0	0	0	0	0	0	0	0	0	0	
Weekday	Overall	Avg	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	1	0	0	0	0	0	0	0	0	0	0	0	0
	AM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	1	0	0	0	0	0	0	0	0	0	0	0	0
PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Max	0	0	0	0	0	0	0	0	0	0	0	0	0	
Weekend	Overall	Avg	0.89	0.11	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
		Max	7	1	1	0	0	0	0	0	0	0	0	0	1
	AM	Avg	2.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
		Max	7	0	1	0	0	0	0	0	0	0	0	0	1
	mid	Avg	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	1	1	1	0	0	0	0	0	0	0	0	0	0
PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Max	0	0	0	0	0	0	0	0	0	0	0	0	0	
Holiday	Overall	Avg	3.75	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	11	0	0	1	0	0	0	0	0	0	0	0	0
	AM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	5.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	11	0	0	1	0	0	0	0	0	0	0	0	0
PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Max	0	0	0	0	0	0	0	0	0	0	0	0	0	

### **Recreation Users and Activities**

During the non-peak season, during the days of the week and times of day surveyed, no use was observed at the group picnic parking area.

*Peak Season.* During the peak season, an average of 3.57 PAOT were observed, with a maximum of 82 picnickers (Table 5.4-16). The average was skewed by the one-time high count of 82; during most observations, no picnickers were observed. All of the observed use occurred on weekend days, with all observed groups reported during the morning period.

**Table 5.4-16. Average and maximum observed shoreline activities at Fleming Meadows, Group Picnic Area-Peak Season.**

Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time
				Picnic/Sunbather
Total All Day Types	Overall	23	Avg	3.57
			Max	82
	AM	4	Avg	20.50
			Max	82
	mid	16	Avg	0.00
			Max	0
	PM	3	Avg	0.00
			Max	0
Weekday	Overall	10	Avg	0.00
			Max	0
	AM	1	Avg	0.00
			Max	0
	mid	9	Avg	0.00
			Max	0
	PM	0	Avg	0.00
			Max	0
Weekend	Overall	9	Avg	9.11
			Max	82
	AM	3	Avg	27.33
			Max	82
	mid	4	Avg	0.00
			Max	0
	PM	2	Avg	0.00
			Max	0
Holiday	Overall	4	Avg	0.00
			Max	0
	AM	0	Avg	0.00
			Max	0
	mid	3	Avg	0.00
			Max	0
	PM	1	Avg	0.00
			Max	0

## 5.4.1.6 Amphitheatre Area

During the non-peak season, no use of the Amphitheater parking area was observed.

**Vehicle Use**

*Peak Season.* During the peak season, the Amphitheatre parking area use was primarily vehicles without trailers (average 6 VAOT, 22 maximum) (Table 5.4-17). The majority of use occurred during holidays (average 14 VAOT, 22 maximum).

**Table 5.4-17. Average and maximum number of vehicles observed at Fleming Meadows: Amphitheater-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Total of All Day Types	Overall	Avg	5.65	0.87	0.13	0.13	0.00	0.00	0.00	0.13	0.04	0.09	0.00	0.00
		Max	22	5	2	1	0	0	0	2	1	1	0	0
	AM	Avg	7.75	1.00	0.25	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00
		Max	10	3	1	0	0	0	0	0	1	1	0	0
	mid	Avg	5.19	0.94	0.13	0.19	0.00	0.00	0.00	0.06	0.00	0.06	0.00	0.00
		Max	22	5	2	1	0	0	0	1	0	1	0	0
	PM	Avg	5.33	0.33	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00
		Max	16	1	0	0	0	0	0	2	0	0	0	0
Weekday	Overall	Avg	0.80	0.20	0.00	0.10	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
		Max	5	1	0	1	0	0	0	0	1	0	0	0
	AM	Avg	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
		Max	2	0	0	0	0	0	0	0	1	0	0	0
	mid	Avg	0.67	0.22	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	5	1	0	1	0	0	0	0	0	0	0	0
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
Weekend	Overall	Avg	7.33	0.89	0.11	0.00	0.00	0.00	0.33	0.00	0.22	0.00	0.00	
		Max	21	3	1	0	0	0	2	0	1	0	0	
	AM	Avg	9.67	1.33	0.33	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	
		Max	10	3	1	0	0	0	0	0	1	0	0	
	mid	Avg	5.25	0.75	0.00	0.00	0.00	0.00	0.25	0.00	0.25	0.00	0.00	
		Max	21	3	0	0	0	0	1	0	1	0	0	
	PM	Avg	8.00	0.50	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	
		Max	16	1	0	0	0	0	2	0	0	0	0	

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Holiday	Overall	Avg	14.00	2.50	0.50	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	22	5	2	1	0	0	0	0	0	0	0	0
	AM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	18.67	3.33	0.67	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	22	5	2	1	0	0	0	0	0	0	0	0
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0

### Recreation Users and Activities

During the non-peak season, no visitors were observed at the Amphitheater area.

*Peak Season.* During the peak season, an average of 4 walkers and maximum of 63 walkers were observed in the Amphitheater area (Table 5.4-18). The highest number of users was during weekend days, with an average of 7 PAOT and maximum of 63. Use levels peaked most often during the morning hours.

**Table 5.4-18. Average and maximum observed shoreline activities at Fleming Meadows, Amphitheater-Peak Season.**

Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time	
				Walker	
Total All Day Types	Overall	23	Avg	4.04	
			Max	63	
	AM	4	Avg	16.00	
			Max	63	
	mid	16	Avg	1.63	
			Max	21	
	PM	3	Avg	1.00	
			Max	3	
	Weekday	Overall	10	Avg	0.60
				Max	5
AM		1	Avg	1.00	
			Max	1	
mid		9	Avg	0.56	
			Max	5	
PM		0	Avg	0.00	
			Max	0	

Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time Walker
Weekend	Overall	9	Avg	7.33
			Max	63
	AM	3	Avg	21.00
			Max	63
	mid	4	Avg	0.00
			Max	0
	PM	2	Avg	1.50
			Max	3
Holiday	Overall	4	Avg	5.25
			Max	21
	AM	0	Avg	0.00
			Max	0
	mid	3	Avg	7.00
			Max	21
	PM	1	Avg	0.00
			Max	0

#### 5.4.1.7 Campground Loop B Parking Lot

*Peak Season.* During the peak season, the Campground Loop B Parking Lot was used primarily by vehicles without trailers (average 1.5 VAOT, maximum of 9) (Table 5.4-19). The majority of use occurred during weekends (average 4, 9 maximum), with most use occurring mid-day.

**Table 5.4-19. Average and maximum number of vehicles observed at Fleming Meadows: Campground Loop B parking Lot-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time												
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Total of All Day Types	Overall	Avg	1.48	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.04
		Max	9	2	0	0	0	0	0	0	1	0	0	0	1
	AM	Avg	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	4	0	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	1.63	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.06
		Max	9	2	0	0	0	0	0	0	1	0	0	0	1
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0	0

Type of Day	Time of Day	Stats	Vehicles At One Time												
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Weekday	Overall	Avg	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	
		Max	1	0	0	0	0	0	0	0	0	0	0	0	1
	AM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
		Max	1	0	0	0	0	0	0	0	0	0	0	0	1
PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Max	0	0	0	0	0	0	0	0	0	0	0	0	0	
Weekend	Overall	Avg	2.67	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	9	2	0	0	0	0	0	0	0	0	0	0	
	AM	Avg	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	4	0	0	0	0	0	0	0	0	0	0	0	
	mid	Avg	4.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	9	2	0	0	0	0	0	0	0	0	0	0	
PM	Avg	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Max	3	0	0	0	0	0	0	0	0	0	0	0		
Holiday	Overall	Avg	2.25	0.25	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	
		Max	5	1	0	0	0	0	0	1	0	0	0	0	
	AM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
	mid	Avg	3.00	0.33	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	
		Max	5	1	0	0	0	0	0	1	0	0	0	0	
PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Max	0	0	0	0	0	0	0	0	0	0	0	0		

*Non-Peak Season.* During the non-peak season, the Campground Loop B Parking Lot was used primarily by vehicles without trailers (average less than one VAOT, maximum of 3) (Table 5.4-20). The majority of use occurred during weekends (average less than 1 VAOT, maximum 3), with the most use occurring in the morning.

**Table 5.4-20. Average and maximum number of vehicles observed at Fleming Meadows: Campground Loop B Parking Lot-Non-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Total of All Day Types	Overall	Avg	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	3	0	0	0	0	0	0	0	0	0	0	0
	AM	Avg	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	3	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	2	0	0	0	0	0	0	0	0	0	0	0
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
Weekday	Overall	Avg	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	1	0	0	0	0	0	0	0	0	0	0	0
	AM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	1	0	0	0	0	0	0	0	0	0	0	0
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
Weekend	Overall	Avg	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	3	0	0	0	0	0	0	0	0	0	0	0
	AM	Avg	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	3	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	2	0	0	0	0	0	0	0	0	0	0	0
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0

### **Recreation Users and Activities**

*Peak Season.* During the peak season, a range of activity types of recreation users were observed in Campground Loop B Parking Lot with a majority participating in “other activities” (Table 5.4-21). Aside from the visitor-defined other activities category, the most common observed shoreline recreational activities were picnicking/sunbathing (average 3.61 PAOT, maximum 34), swimming (average 1.65 PAOT, maximum 14), and angling (average less than 1 PAOT, maximum 5). The highest number of users were observed during weekend days and holidays, mostly visiting during the mid-day period. Large groups (20 or more people) on pontoon boats were observed moored at the shoreline on several observation days. Personal watercraft users and anglers also anchored at this day-use area.



**Table 5.4-21. Average and maximum observed shoreline activities at Fleming Meadows, Campground Loop B Day Use Area-Peak Season.**

Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/Sunbather	Walker	Other
Total All Day Types	Overall	23	Avg	0.57	1.65	3.61	0.00	0.65
			Max	5	14	34	0	15
	AM	4	Avg	0.00	0.75	0.50	0.00	3.75
			Max	0	3	2	0	15
	mid	16	Avg	0.81	1.44	4.50	0.00	0.00
			Max	5	14	34	0	0
	PM	3	Avg	0.00	4.00	3.00	0.00	0.00
			Max	0	10	8	0	0
Weekday	Overall	10	Avg	0.30	0.00	0.00	0.00	0.00
			Max	3	0	0	0	0
	AM	1	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	mid	9	Avg	0.33	0.00	0.00	0.00	0.00
			Max	3	0	0	0	0
	PM	0	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekend	Overall	9	Avg	0.56	3.56	6.67	0.00	1.67
			Max	3	14	34	0	15
	AM	3	Avg	0.00	1.00	0.67	0.00	5.00
			Max	0	3	2	0	15
	mid	4	Avg	1.25	4.25	12.25	0.00	0.00
			Max	3	14	34	0	0
	PM	2	Avg	0.00	6.00	4.50	0.00	0.00
			Max	0	10	8	0	0
Holiday	Overall	4	Avg	1.25	1.50	5.75	0.00	0.00
			Max	5	4	18	0	0
	AM	0	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	mid	3	Avg	1.67	2.00	7.67	0.00	0.00
			Max	5	4	18	0	0
	PM	1	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0

*Non-Peak Season.* During the non-peak season, fewer recreation users were observed at the Campground Loop B parking area (Table 5.4-22). The most common observed activities were angling (average less than 1 PAOT, maximum 7) and picnicking/sunbathing (average less than 1, maximum 6), which accounted for nearly all the shoreline activities observed. The highest number of users were observed during weekend days. Use was observed highest during the morning and mid-day periods.

**Table 5.4-22. Average and maximum observed shoreline activities at Fleming Meadows, Campground Loop B Day Use Area-Non-Peak Season.**

Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/Sunbather	Walker	Other
Total All Day Types	Overall	28	Avg	0.57	0.00	0.32	0.00	0.00
			Max	7	0	6	0	0
	AM	8	Avg	0.87	0.00	0.38	0.00	0.00
			Max	7	0	3	0	0
	mid	18	Avg	0.50	0.00	0.33	0.00	0.00
			Max	4	0	6	0	0
PM	2	Avg	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	
Weekday	Overall	14	Avg	0.07	0.00	0.00	0.00	0.00
			Max	1	0	0	0	0
	AM	3	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	mid	10	Avg	0.10	0.00	0.00	0.00	0.00
			Max	1	0	0	0	0
PM	1	Avg	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	
Weekend	Overall	14	Avg	1.07	0.00	0.64	0.00	0.00
			Max	7	0	6	0	0
	AM	5	Avg	1.40	0.00	0.60	0.00	0.00
			Max	7	0	3	0	0
	mid	8	Avg	1.00	0.00	0.75	0.00	0.00
			Max	4	0	6	0	0
PM	1	Avg	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	

#### 5.4.1.8 Campground Loop D Parking Lot

##### **Vehicle Use**

During the non-peak season, no use was observed in the Campground Loop D Parking Lot.

*Peak Season.* During the peak season, the Campground Loop D Parking Lot was used primarily by vehicles without trailers (average 7.4 VAOT, maximum of 35 vehicles) (Table 5.4-23). The majority of use occurred during weekends (average 13 VAOT, 35 maximum), with the highest observed counts on weekdays and holidays occurring during mid-day and evenings on weekends.

**Table 5.4-23. Average and maximum number of vehicles observed at Fleming Meadows: Campground Loop D Parking Lot-Peak Season.**

Type of Day	Time of Day	Stat	Vehicles At One Time												
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Total of All Day Types	Overall	Avg	7.39	0.09	0.17	0.00	0.00	0.00	0.04	0.00	0.13	0.00	0.00	0.00	
		Max	35	1	1	0	0	0	1	0	1	0	0	0	
	AM	Avg	9.67	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	30	0	1	0	0	0	0	0	0	0	0	0	
	mid	Avg	5.50	0.14	0.14	0.00	0.00	0.00	0.07	0.14	0.00	0.00	0.00	0.00	
		Max	25	1	1	0	0	0	1	0	1	0	0	0	
	PM	Avg	11.67	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	
		Max	35	0	1	0	0	0	0	0	1	0	0	0	
	Weekday	Overall	Avg	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Max	1	1	0	0	0	0	0	0	0	0	0	0
		AM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0	0	0	0	0	0	0	0
mid		Avg	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	1	1	0	0	0	0	0	0	0	0	0	0	
PM		Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
Weekend		Overall	Avg	13.11	0.00	0.22	0.00	0.00	0.00	0.11	0.00	0.22	0.00	0.00	0.00
			Max	35	0	1	0	0	0	1	0	1	0	0	0
		AM	Avg	14.50	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Max	30	0	1	0	0	0	0	0	0	0	0	0
	mid	Avg	8.33	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.33	0.00	0.00	0.00	
		Max	25	0	0	0	0	0	1	0	1	0	0	0	
	PM	Avg	17.50	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	
		Max	35	0	1	0	0	0	0	0	1	0	0	0	
	Holiday	Overall	Avg	12.75	0.25	0.50	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00
			Max	22	1	1	0	0	0	0	0	1	0	0	0
		AM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0	0	0	0	0	0	0	0
mid		Avg	17.00	0.33	0.67	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	
		Max	22	1	1	0	0	0	0	0	1	0	0	0	
PM		Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	

#### 5.4.1.9 Private Houseboat Parking Lot

##### **Vehicle Use**

*Peak Season.* During the peak season, the Private Houseboat Parking Lot use was primarily vehicles without trailers (average 21 VAOT, maximum of 85 vehicles) (Table 5.4-24). The

majority of use occurred during holidays (average 48 VAOT, 85 maximum), with the highest counts on holidays occurring during mid-day, mornings on weekends, and spread relatively evenly during weekdays.

**Table 5.4-24. Average and maximum number of vehicles observed at Fleming Meadows: Private Houseboat Parking Lot-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Total of All Day Types	Overall	Avg	21.35	0.22	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	85	1	0	1	0	0	0	0	0	0	0	0
	AM	Avg	21.50	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	51	1	0	0	0	0	0	0	0	0	0	0
	mid	Avg	21.00	0.14	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	85	1	0	1	0	0	0	0	0	0	0	0
	PM	Avg	22.67	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	44	1	0	1	0	0	0	0	0	0	0	0
Weekday	Overall	Avg	5.90	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	13	1	0	0	0	0	0	0	0	0	0	0
	AM	Avg	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	12	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	5.38	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	13	1	0	0	0	0	0	0	0	0	0	0
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
Weekend	Overall	Avg	26.56	0.44	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	51	1	0	1	0	0	0	0	0	0	0	0
	AM	Avg	28.25	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	51	1	0	0	0	0	0	0	0	0	0	0
	mid	Avg	23.67	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	42	1	0	1	0	0	0	0	0	0	0	0
	PM	Avg	27.50	0.50	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	44	1	0	4	0	0	0	0	0	0	0	0
Holiday	Overall	Avg	48.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	85	0	0	0	0	0	0	0	0	0	0	0
	AM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	85	0	0	0	0	0	0	0	0	0	0	0
	PM	Avg	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	13	0	0	0	0	0	0	0	0	0	0	0

*Non-Peak Season.* During the non-peak season, the Private Houseboat Parking Lot use was primarily vehicles without trailers (average 5.61 VAOT, with a maximum of 41 vehicles) (Table

5.4-25). The majority of use occurred during weekends (average 9.79, 41 maximum), with the highest counts on weekends and weekdays occurring during mid-day (11 a.m. to 3 p.m.).

**Table 5.4-25. Average and maximum number of vehicles observed at Fleming Meadows: Private Houseboat Parking Lot-Non-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time												
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Total of All Day Types	Overall	Avg	5.61	0.21	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
		Max	41	2	0	2	0	0	0	0	0	0	0	1	0
	AM	Avg	3.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	11	0	0	1	0	0	0	0	0	0	0	0	0
	mid	Avg	4.80	0.20	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00
		Max	32	2	0	2	0	0	0	0	0	0	0	1	0
	PM	Avg	21.5	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	41	2	0	0	0	0	0	0	0	0	0	0	0
Weekday	Overall	Avg	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00
		Max	4	0	0	0	0	0	0	0	0	0	0	1	0
	AM	Avg	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	1	0	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00
		Max	4	0	0	0	0	0	0	0	0	0	0	1	0
	PM	Avg	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	2	0	0	0	0	0	0	0	0	0	0	0	0
Weekend	Overall	Avg	9.79	0.43	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	41	2	0	2	0	0	0	0	0	0	0	0	
	AM	Avg	4.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	11	0	0	1	0	0	0	0	0	0	0	0	
	mid	Avg	8.89	0.44	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	32	2	0	2	0	0	0	0	0	0	0	0	
	PM	Avg	41.0	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	41	2	0	0	0	0	0	0	0	0	0	0	

### **Recreation Users and Activities**

*Peak Season.* During the peak season, all types of recreation uses were observed in the Private Houseboat Parking Lot with most categorized as “other” (Table 5.4-26). The most common observed shoreline activities were swimming (average 1.13 PAOT, 14 maximum), picnicking/sunbathing (average 2.26 PAOT, maximum 17), walking (average of less than 1 PAOT, maximum of 5), and angling (less than 1 PAOT, maximum of 4). Use was highest during weekend days, with use primarily occurring during the mid-day and afternoon periods.

**Table 5.4-26. Average and maximum observed shoreline activities at Fleming Meadows, Private Houseboat Parking Lot-Peak Season.**

Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/Sunbather	Walker	Other
Total All Day Types	Overall	23	Avg	0.48	1.13	0.83	0.52	1.00
			Max	4	14	8	5	12
	AM	6	Avg	0.67	0.00	1.33	0.00	1.33
			Max	3	0	8	0	6
	mid	14	Avg	0.50	0.86	0.57	0.64	1.07
			Max	4	8	6	5	12
	PM	3	Avg	0.00	4.67	1.00	1.00	0.00
			Max	0	14	3	2	0
Weekday	Overall	10	Avg	0.30	0.00	0.20	0.00	0.50
			Max	3	0	2	0	3
	AM	2	Avg	0.00	0.00	0.00	0.00	1.00
			Max	0	0	0	0	2
	mid	8	Avg	0.38	0.00	0.25	0.00	0.38
			Max	3	0	2	0	3
	PM	0	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekend	Overall	9	Avg	0.44	2.00	1.89	0.78	0.67
			Max	3	14	8	5	6
	AM	4	Avg	1.00	0.00	2.00	0.00	1.50
			Max	3	0	8	0	6
	mid	3	Avg	0.00	1.33	2.00	1.67	0.00
			Max	0	4	6	5	0
	PM	2	Avg	0.00	7.00	1.50	1.00	0.00
			Max	0	14	3	2	0
Holiday	Overall	4	Avg	1.00	2.00	0.00	1.25	3.00
			Max	4	8	0	4	12
	AM	0	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	mid	3	Avg	1.33	2.67	0.00	1.33	4.00
			Max	4	8	0	4	12
	PM	1	Avg	0.00	0.00	0.00	1.00	0.00
			Max	0	0	0	1	0

*Non-Peak Season.* During the non-peak season, fewer users and a change in activities was observed (Table 5.4-27). The most common observed activities were angling (average less than 1 PAOT, maximum 3) and walking (average less than 1 PAOT, maximum 1). Use was observed as highest during weekdays, with most use occurring during morning and mid-day periods.

**Table 5.4-27. Average and maximum observed shoreline activities at Fleming Meadows, Private Houseboat Parking Lot-Non-Peak Season.**

Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/Sunbather	Walker	Other
Total All Day Types	Overall	28	Avg	0.21	0.00	0.00	0.07	0.29
			Max	3	0	0	1	8
	AM	6	Avg	0.33	0.00	0.00	0.17	0.00
			Max	2	0	0	1	0
	mid	20	Avg	0.20	0.00	0.00	0.05	0.40
			Max	3	0	0	1	8
	PM	2	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekday	Overall	14	Avg	0.43	0.00	0.00	0.07	0.00
			Max	3	0	0	1	0
	AM	2	Avg	1.00	0.00	0.00	0.50	0.00
			Max	2	0	0	1	0
	mid	11	Avg	0.36	0.00	0.00	0.00	0.00
			Max	3	0	0	0	0
	PM	1	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekend	Overall	14	Avg	0.00	0.00	0.00	0.07	0.57
			Max	0	0	0	1	8
	AM	4	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	mid	9	Avg	0.00	0.00	0.00	0.11	0.89
			Max	0	0	0	1	8
	PM	1	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0

## 5.4.2 Blue Oaks

### 5.4.2.1 Boat Launch

The Blue Oaks Boat Launch includes the upper and lower parking lots. For vehicle counts, upper and lower lot sites were combined for an overall total. For observed activities, the upper lot was tallied.

### Vehicle Use

*Peak Season.* During the peak season, the majority of vehicles were those with boat trailers (average 18 VAOT, maximum 102) (Table 5.4-28). The majority of vehicles were observed on holidays, followed by weekends. When comparing the periods of the day, the observed number of vehicles was greatest during morning and afternoon.

**Table 5.4-28. Average and maximum number of vehicles observed at Blue Oaks: Boat Launch\*-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time												
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Total of All Day Types	Overall	Avg	6.67	18.26	0.02	0.70	0.02	0.00	0.04	1.63	0.00	0.13	0.00	0.07	
		Max	69	102	1	8	1	0	2	11	0	4	0	3	
	AM	Avg	7.50	14.94	0.06	0.56	0.06	0.00	0.00	1.78	0.00	0.28	0.00	0.00	
		Max	40	58	1	4	1	0	0	6	0	4	0	0	
	mid	Avg	3.00	17.22	0.00	0.56	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.17	
		Max	16	69	0	8	0	0	0	4	0	0	0	3	
	PM	Avg	11.80	26.10	0.00	1.20	0.00	0.00	0.20	2.70	0.00	0.10	0.00	0.00	
		Max	69	102	0	7	0	0	2	11	0	1	0	0	
	Weekday	Overall	Avg	1.75	7.75	0.05	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.15
			Max	9	31	1	0	0	0	0	4	0	0	0	3
		AM	Avg	2.70	8.00	0.10	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00
			Max	9	31	1	0	0	0	0	4	0	0	0	0
mid		Avg	1.00	6.63	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.38	
		Max	5	22	0	0	0	0	0	2	0	0	0	3	
PM		Avg	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	
		Max	0	22	0	0	0	0	0	1	0	0	0	0	
Weekend		Overall	Avg	6.33	22.61	0.00	0.94	0.06	0.00	0.00	1.61	0.00	0.11	0.00	0.00
			Max	25	69	0	8	1	0	0	9	0	1	0	0
		AM	Avg	6.75	19.25	0.00	0.50	0.25	0.00	0.00	1.25	0.00	0.25	0.00	0.00
			Max	24	54	0	2	1	0	0	4	0	1	0	0
	mid	Avg	4.75	24.13	0.00	1.25	0.00	0.00	0.00	1.13	0.00	0.00	0.00	0.00	
		Max	16	69	0	8	0	0	0	4	0	0	0	0	
	PM	Avg	8.17	22.83	0.00	0.83	0.00	0.00	0.00	2.50	0.00	0.17	0.00	0.00	
		Max	25	49	0	5	0	0	0	9	0	1	0	0	
	Holiday	Overall	Avg	19.75	34.75	0.00	1.88	0.00	0.00	0.25	3.50	0.00	0.50	0.00	0.00
			Max	69	102	0	7	0	0	2	11	0	4	0	0
		AM	Avg	20.25	28.00	0.00	2.00	0.00	0.00	0.00	3.75	0.00	1.00	0.00	0.00
			Max	40	58	0	4	0	0	0	6	0	4	0	0
mid		Avg	4.00	32.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	
		Max	8	64	0	0	0	0	0	2	0	0	0	0	
PM		Avg	34.50	51.00	0.00	3.50	0.00	0.00	1.00	5.50	0.00	0.00	0.00	0.00	
		Max	69	102	0	7	0	0	2	11	0	0	0	0	

\*Includes Upper Lot and Lower Lot.

*Non-Peak Season.* During the non-peak season, the boat launch parking area use is primarily vehicles with boat trailers (average 5.55 VAOT, maximum 42) (Table 5.4-29). The majority of use occurred during weekends (average 8 VAOT, maximum 42), with the highest counts observed on weekends, occurring during the morning.



**Table 5.4-29. Average and maximum number of vehicles observed at Blue Oaks: Boat Launch\*-Non-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time													
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle		
Total of All Day Types	Overall	Avg	1.30	5.55	0.00	0.02	0.00	0.00	0.00	0.07	0.20	0.00	0.00	0.00	0.07	
		Max	18	42	0	1	0	0	0	1	1	0	0	0	1	
	AM	Avg	1.33	5.90	0.00	0.00	0.00	0.00	0.00	0.05	0.19	0.00	0.00	0.00	0.10	
		Max	12	42	0	0	0	0	0	1	1	0	0	0	1	
	mid	Avg	1.41	5.41	0.00	0.03	0.00	0.00	0.00	0.10	0.24	0.00	0.00	0.00	0.03	
		Max	18	35	0	1	0	0	0	1	1	0	0	0	1	
	PM	Avg	0.67	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	
		Max	3	19	0	0	0	0	0	0	0	0	0	0	1	
	Weekday	Overall	Avg	0.79	2.79	0.00	0.00	0.00	0.00	0.04	0.18	0.00	0.00	0.00	0.11	
			Max	4	15	0	0	0	0	0	1	1	0	0	0	1
		AM	Avg	0.33	1.89	0.00	0.00	0.00	0.00	0.00	0.11	0.33	0.00	0.00	0.00	0.11
			Max	1	10	0	0	0	0	0	1	1	0	0	0	1
mid		Avg	1.07	3.33	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.07	
		Max	4	15	0	0	0	0	0	0	1	0	0	0	1	
PM		Avg	0.75	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	
		Max	3	7	0	0	0	0	0	0	0	0	0	0	1	
Weekend		Overall	Avg	1.82	8.32	0.00	0.04	0.00	0.00	0.11	0.21	0.00	0.00	0.00	0.04	
			Max	18	42	0	1	0	0	0	1	1	0	0	0	1
		AM	Avg	2.08	8.92	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.08
			Max	12	42	0	0	0	0	0	0	1	0	0	0	1
	mid	Avg	1.79	7.64	0.00	0.07	0.00	0.00	0.00	0.21	0.36	0.00	0.00	0.00	0.00	
		Max	18	35	0	1	0	0	0	1	1	0	0	0	0	
	PM	Avg	0.50	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	1	19	0	0	0	0	0	0	0	0	0	0	0	

\*Includes Upper Lot and Lower Lot.

### **Recreation Users and Activities**

The recreational use at the boat launch parking areas observed was documented by upper and lower lots, primarily due to the proximity of recreational users to the reservoir.

*Peak Season.* During the peak season, all types of recreation uses were observed with the most noted participating in range of activities visitor defined as “other” at the Boat Launch upper lot (Table 5.4-30). The most commonly observed recreational activities were picnicking/sunbathing (average 1.96 PAOT, maximum 22), swimming (average 1.35 PAOT, maximum 16), and walking (average less than 1 PAOT, maximum 7), which accounted for nearly all the activities observed. Use was greatest during weekends and holidays, with most use occurring during mid-day and afternoon periods.

**Table 5.4-30. Average and maximum observed shoreline activities at Blue Oaks, Boat Launch Upper Lot-Peak Season.**

Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/Sunbather	Walker	Other
Total All Day Types	Overall	23	Avg	0.43	1.35	1.96	0.43	4.96
			Max	3	16	22	7	38
	AM	9	Avg	0.67	0.22	0.00	0.78	3.00
			Max	3	2	0	7	13
	mid	9	Avg	0.22	0.00	2.11	0.33	3.22
			Max	2	0	15	2	9
	PM	5	Avg	0.40	5.80	5.20	0.00	11.60
			Max	2	16	22	0	38
Weekday	Overall	10	Avg	0.30	0.00	0.00	0.20	1.20
			Max	2	0	0	2	5
	AM	5	Avg	0.60	0.00	0.00	0.00	1.00
			Max	2	0	0	0	5
	mid	4	Avg	0.00	0.00	0.00	0.50	1.75
			Max	0	0	0	2	5
	PM	1	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekend	Overall	9	Avg	0.22	1.67	2.11	0.89	10.33
			Max	2	13	15	7	38
	AM	2	Avg	0.00	1.00	0.00	3.50	6.50
			Max	0	2	0	7	13
	mid	4	Avg	0.00	0.00	3.75	0.25	5.50
			Max	0	0	15	1	9
	PM	3	Avg	0.67	4.33	1.33	0.00	19.33
			Max	1	13	4	0	38
Holiday	Overall	4	Avg	1.25	4.00	6.50	0.00	2.25
			Max	3	16	22	0	9
	AM	2	Avg	1.50	0.00	0.00	0.00	4.50
			Max	3	0	0	0	9
	mid	1	Avg	2.00	0.00	4.00	0.00	0.00
			Max	2	0	4	0	0
	PM	1	Avg	0.00	16.00	22.00	0.00	0.00
			Max	0	16	22	0	0

*Non-Peak Season.* During the non-peak season, fewer recreation users were observed and there was a change in activity types at the Boat Launch Upper Lot (Table 5.4-31). The most common observed activities were angling (average 1.61 PAOT, maximum 10) and picnicking/sunbathing (average less than 1 PAOT, maximum 6). Use was highest during weekend days, consisting mostly of anglers (average 2.21 users/10 max.) and picnicking/sunbathing activities (average less than 1 PAOT, maximum 6). Use was highest during the morning and mid-day periods.

**Table 5.4-31. Average and maximum observed shoreline activities at Blue Oaks, Boat Launch Upper Lot-Non-Peak Season.**

Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/Sunbather	Walker	Other
Total All Day Types	Overall	28	Avg	1.61	0.04	0.39	0.11	1.50
			Max	10	1	6	3	10
	AM	11	Avg	2.00	0.00	0.55	0.00	1.45
			Max	10	0	6	0	8
	mid	14	Avg	1.64	0.07	0.36	0.21	1.86
			Max	6	1	5	3	10
	PM	3	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekday	Overall	14	Avg	1.00	0.07	0.00	0.00	0.86
			Max	6	1	0	0	7
	AM	5	Avg	0.20	0.00	0.00	0.00	1.60
			Max	1	0	0	0	7
	mid	7	Avg	1.86	0.14	0.00	0.00	0.57
			Max	6	1	0	0	2
	PM	2	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekend	Overall	14	Avg	2.21	0.00	0.79	0.21	2.14
			Max	10	0	6	3	10
	AM	6	Avg	3.50	0.00	1.00	0.00	1.33
			Max	10	0	6	0	8
	mid	7	Avg	1.43	0.00	0.71	0.43	3.14
			Max	6	0	5	3	10
	PM	1	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0

#### 5.4.2.2 Group Picnic Area

No vehicles were observed during the non-peak season at Blue Oaks Group picnic area parking during the observation survey periods.

#### **Vehicle Use**

*Peak Season.* During the peak season, the majority of vehicles were those without trailers (average 4 VAOT/ 31 maximum) (Table 5.4-32). The majority of vehicles observed occurred on weekends (average 7 VAOT), followed by holidays (average of 6.5 VAOT). When comparing the periods of the day, mornings were the busiest time on weekends and holidays, and the number of vehicles was relatively the same throughout the day on weekdays.

**Table 5.4-32. Average and maximum number of vehicles observed at Blue Oaks: Group Picnic Area-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Total of All Day Types	Overall	Avg	4.00	0.09	0.04	0.09	0.00	0.00	0.35	0.00	0.09	0.04	0.00	1.26
		Max	31	1	1	1	0	0	8	0	1	1	0	26
	AM	Avg	5.33	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.22
		Max	31	1	0	0	0	0	0	0	1	0	0	2
	mid	Avg	1.78	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	13	0	0	1	0	0	0	0	0	0	0	0
PM	Avg	5.60	0.20	0.20	0.20	0.00	0.00	1.60	0.00	0.20	0.20	0.00	5.40	
	Max	14	1	1	1	0	0	8	0	1	1	0	26	
Weekday	Overall	Avg	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	1	0	0	0	0	0	0	0	0	0	0	0
	AM	Avg	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	1	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	1	0	0	0	0	0	0	0	0	0	0	0
PM	Avg	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Max	1	0	0	0	0	0	0	0	0	0	0	0	
Weekend	Overall	Avg	6.67	0.11	0.11	0.22	0.00	0.00	0.89	0.00	0.22	0.00	0.00	0.11
		Max	31	1	1	1	0	0	8	0	1	0	0	1
	AM	Avg	16.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00
		Max	31	1	0	0	0	0	0	0	1	0	0	0
	mid	Avg	3.50	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	13	0	0	1	0	0	0	0	0	0	0	0
PM	Avg	4.67	0.00	0.33	0.33	0.00	0.00	2.67	0.00	0.33	0.00	0.00	0.33	
	Max	14	0	1	1	0	0	8	0	1	0	0	1	
Holiday	Overall	Avg	6.50	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	7.00
		Max	13	1	0	0	0	0	0	0	0	1	0	26
	AM	Avg	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
		Max	6	0	0	0	0	0	0	0	0	0	0	2
	mid	Avg	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	1	0	0	0	0	0	0	0	0	0	0	0
PM	Avg	13.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	26.00	
	Max	13	1	0	0	0	0	0	0	0	1	0	26	

### Recreation Users and Activities

Consistent with vehicle use, no recreationists were observed during the non-peak season at Blue Oaks Group picnic area.

*Peak Season.* During the peak season, all types of recreation uses were observed with a majority participating in visitor defined “other activities” at the Group Picnic Area (Table 5.4-33). Aside from the visitor defined “other” activity category, the most common observed activities were picnicking/sunbathing (average 6 VAOT, maximum 65), walking (average 1 VAOT, maximum 12), angling (average of less than 1 VAOT, maximum 4) and swimming (average of less than 1 VAOT, maximum 2). The highest number of users observed was during weekends and holidays, with most use occurring during morning and evening periods.

**Table 5.4-33. Average and maximum observed shoreline activities at Blue Oaks, Group Picnic Area-Peak Season.**

Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/Sunbather	Walker	Other
Total All Day Types	Overall	23	Avg	0.30	0.09	6.00	1.00	1.43
			Max	4	2	65	12	13
	AM	9	Avg	0.33	0.00	7.33	1.33	2.67
			Max	3	0	65	12	13
	mid	9	Avg	0.00	0.22	2.44	0.22	0.89
			Max	0	2	13	2	8
	PM	5	Avg	0.80	0.00	10.00	1.80	0.20
			Max	4	0	48	9	1
Weekday	Overall	10	Avg	0.00	0.00	0.00	0.00	0.10
			Max	0	0	0	0	1
	AM	5	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	mid	4	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	PM	1	Avg	0.00	0.00	0.00	0.00	1.00
			Max	0	0	0	0	1
Weekend	Overall	9	Avg	0.00	0.22	14.78	1.56	2.11
			Max	0	2	65	12	11
	AM	2	Avg	0.00	0.00	32.50	6.00	5.50
			Max	0	0	65	12	11
	mid	4	Avg	0.00	0.50	5.00	0.50	2.00
			Max	0	2	13	2	8
	PM	3	Avg	0.00	0.00	16.00	0.00	0.00
			Max	0	0	48	0	0
Holiday	Overall	4	Avg	1.75	0.00	1.25	2.25	3.25
			Max	4	0	2	9	13
	AM	2	Avg	1.50	0.00	0.50	0.00	6.50
			Max	3	0	1	0	13
	mid	1	Avg	0.00	0.00	2.00	0.00	0.00
			Max	0	0	2	0	0
	PM	1	Avg	4.00	0.00	2.00	9.00	0.00
			Max	4	0	2	9	0

### 5.4.3 Moccasin Point

#### 5.4.3.1 Boat Launch

#### Vehicle Use

*Peak Season.* During the peak season, the majority of vehicles were those with boat trailers (average 14.6 VAOT, maximum of 84) and those without trailers (average 6 VAOT, maximum of 37) (Table 5.4-34). The majority of vehicles noted also occurred on holidays, followed by weekends. When comparing the periods of the day, the greatest number of vehicles were observed during mid-day during holidays and weekends, and during morning and mid-day on weekdays.

**Table 5.4-34. Average and maximum number of vehicles observed at Moccasin Point: Boat Launch\*-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Total of All Day Types	Overall	Avg	5.93	14.59	0.29	0.78	0.06	0.03	0.06	2.35	0.03	0.19	0.00	0.03
		Max	37	84	10	7	1	1	2	19	1	4	0	1
	AM	Avg	2.62	7.43	0.00	0.33	0.00	0.05	0.10	1.71	0.00	0.05	0.00	0.05
		Max	27	37	0	4	0	1	2	18	0	1	0	1
	mid	Avg	6.09	14.18	0.03	0.64	0.06	0.00	0.00	1.94	0.03	0.12	0.00	0.03
		Max	37	49	1	5	1	0	0	15	1	2	0	1
PM	Avg	10.20	25.53	1.27	1.73	0.13	0.07	0.13	4.13	0.07	0.53	0.00	0.00	
	Max	36	84	10	7	1	1	1	19	1	4	0	0	
Weekday	Overall	Avg	0.70	4.83	0.00	0.23	0.03	0.03	0.00	1.03	0.00	0.00	0.00	0.03
		Max	4	19	0	2	1	1	0	7	0	0	0	1
	AM	Avg	0.25	3.75	0.00	0.08	0.00	0.08	0.00	1.17	0.00	0.00	0.00	0.00
		Max	3	13	0	1	0	1	0	4	0	0	0	0
	mid	Avg	1.00	5.56	0.00	0.33	0.06	0.00	0.00	0.94	0.00	0.00	0.00	0.06
		Max	4	19	0	2	1	0	0	7	0	0	0	1
PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Max	0	0	0	0	0	0	0	0	0	0	0	0	

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Weekend	Overall	Avg	8.41	18.93	0.56	1.22	0.07	0.04	0.11	2.67	0.04	0.19	0.00	0.04
		Max	27	60	10	6	1	1	2	18	1	1	0	1
	AM	Avg	5.78	12.33	0.00	0.67	0.00	0.00	0.22	2.44	0.00	0.11	0.00	0.11
		Max	27	37	0	4	0	0	2	18	0	1	0	1
	mid	Avg	12.56	24.44	0.00	1.11	0.11	0.00	0.00	2.56	0.11	0.22	0.00	0.00
		Max	27	48	0	5	1	0	0	12	1	1	0	0
PM	Avg	6.89	20.00	1.67	1.89	0.11	0.11	0.11	3.00	0.00	0.22	0.00	0.00	
	Max	20	60	10	6	1	1	1	13	0	1	0	0	
Holiday	Overall	Avg	13.42	29.25	0.42	1.17	0.08	0.00	0.08	4.92	0.08	0.67	0.00	0.00
		Max	37	84	3	7	1	0	1	19	1	4	0	0
	AM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	11.67	24.67	0.17	0.83	0.00	0.00	0.00	4.00	0.00	0.33	0.00	0.00
		Max	37	49	1	3	0	0	0	15	0	2	0	0
PM	Avg	15.17	33.83	0.67	1.50	0.17	0.00	0.17	5.83	0.17	1.00	0.00	0.00	
	Max	36	84	3	7	1	0	1	19	1	4	0	0	

\*Includes Main Lot, Lower Lot, and Ramp-side

*Non-Peak Season.* During the non-peak season, the majority of vehicles were those with boat trailers (average 3.23 VAOT, maximum of 33) (Table 5.4-35). The majority of vehicles noted also occurred on weekends. When comparing the periods of the day, the greatest number of vehicles were observed during mid-day on weekends, and during mornings on weekdays.

**Table 5.4-35. Average and maximum number of vehicles observed at Moccasin Point: Boat Launch\*-Non-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Total of All Day Types	Overall	Avg	0.46	3.23	0.00	0.06	0.01	0.00	0.00	0.14	0.01	0.01	0.00	0.04
		Max	9	33	0	4	1	0	0	3	1	1	0	1
	AM	Avg	0.63	3.83	0.00	0.04	0.04	0.00	0.00	0.13	0.04	0.00	0.00	0.00
		Max	9	26	0	1	1	0	0	3	1	0	0	0
	mid	Avg	0.34	3.02	0.00	0.09	0.00	0.00	0.00	0.14	0.00	0.02	0.00	0.05

Type of Day	Time of Day	Stats	Vehicles At One Time												
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Weekday	PM	Max	3	33	0	4	0	0	0	0	2	0	1	0	1
		Avg	0.56	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
	Overall	Max	7	23	0	0	0	0	0	0	1	0	0	0	1
		Avg	.017	2.21	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.02	0.00	0.07
		Max	1	13	0	0	0	0	0	0	2	0	1	0	1
		Avg	0.33	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AM	Max	1	10	0	0	0	0	0	0	0	0	0	0	0	
	Avg	0.13	2.22	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.04	0.00	0.09	
mid	Max	1	13	0	0	0	0	0	0	2	0	1	0	1	
	Avg	0.10	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.10	
PM	Max	1	10	0	0	0	0	0	0	1	0	0	0	1	
	Avg	0.10	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.10	
Weekend	Overall	Avg	0.76	4.24	0.00	0.12	0.02	0.00	0.00	0.00	0.19	0.02	0.00	0.00	0.00
		Max	9	33	0	4	1	0	0	0	3	1	0	0	0
	AM	Avg	0.80	4.40	0.00	0.07	0.07	0.00	0.00	0.00	0.20	0.07	0.00	0.00	0.00
		Max	9	26	0	1	1	0	0	0	3	1	0	0	0
	mid	Avg	0.57	3.90	0.00	0.19	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
		Max	3	33	0	4	0	0	0	0	2	0	0	0	0
	PM	Avg	1.33	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
		Max	7	23	0	0	0	0	0	0	1	0	0	0	0

\*Includes Main Lot, Lower Lot, and Ramp-side

### **Recreation Users and Activities**

*Peak Season.* During the peak season, all types of recreation uses were observed with many visitors defining their participation as “other activities” at the Boat Launch Main Lot (Table 5.4-36). The most common recreational observed activities were picnicking/sunbathing (average 3.74 PAOT, maximum 36), swimming (average 2.78 PAOT, maximum 19), walking (average 1.65 PAOT, maximum 18), and angling (average less than 1 PAOT, maximum 5). Use was highest during holidays, followed by weekend and weekday-use. Most use occurred during mid-day and afternoon periods.

**Table 5.4-36. Average and maximum observed shoreline activities at Moccasin Point, Boat Launch Main Lot-Peak Season.**

Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/Sunbather	Walker	Other
Total All Day Types	Overall	23	Avg	0.74	2.78	3.74	1.65	5.65
			Max	5	19	36	18	25
	AM	7	Avg	1.00	0.00	1.29	0.43	2.43
			Max	5	0	5	3	8



Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/Sunbather	Walker	Other
	mid	11	Avg	0.73	3.27	4.73	0.45	5.36
			Max	4	19	36	3	25
	PM	5	Avg	0.40	5.60	5.00	6.00	10.80
			Max	2	14	15	18	20
Weekday	Overall	10	Avg	0.40	1.30	1.20	0.00	2.20
			Max	4	10	9	0	12
	AM	4	Avg	0.00	0.00	0.00	0.00	1.25
			Max	0	0	0	0	3
	mid	6	Avg	0.67	2.17	2.00	0.00	2.83
			Max	4	10	9	0	12
	PM	0	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekend	Overall	9	Avg	1.00	2.89	2.11	3.78	5.22
			Max	5	14	5	18	10
	AM	3	Avg	2.33	0.00	3.00	1.00	4.00
			Max	5	0	5	3	8
	mid	3	Avg	0.00	1.33	1.33	0.67	5.67
			Max	0	4	4	2	9
	PM	3	Avg	0.67	7.33	2.00	9.67	6.00
			Max	2	14	3	18	10
Holiday	Overall	4	Avg	1.00	6.25	13.75	1.00	15.25
			Max	3	19	36	3	25
	AM	0	Avg	0	0	0	0	0
			Max	0.00	0.00	0.00	0.00	0.00
	mid	2	Avg	2.00	9.50	18.00	1.50	12.50
			Max	3	19	36	3	25
	PM	2	Avg	0.00	3.00	9.50	0.50	18.00
			Max	0	6	15	1	20

*Non-peak.* No recreationists were observed during the non-peak season at Boat Launch main lot.

#### 5.4.3.2 Picnic Area Parking

##### **Vehicle Use**

*Peak Season.* During the peak season, the majority of vehicles were those without trailers (average 8 VAOT, maximum of 25) (Table 5.4-37). The majority of vehicles observed occurred on holidays, followed by weekends. When comparing the periods of the day, the greatest number of vehicles were observed during mid-day and afternoons during holidays and weekends, and during mid-day on weekdays.

**Table 5.4-37. Average and maximum number of vehicles observed at Moccasin Point: Picnic Area-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time												
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Total of All Day Types	Overall	Avg	8.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
		Max	25	1	0	0	0	0	0	0	0	0	0	1	0
	AM	Avg	3.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	9	0	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	8.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	25	1	0	0	0	0	0	0	0	0	0	0	0
	PM	Avg	15.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
		Max	24	1	0	0	0	0	0	0	0	0	0	1	0
Weekday	Overall	Avg	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	6	0	0	0	0	0	0	0	0	0	0	0	
	AM	Avg	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	1	0	0	0	0	0	0	0	0	0	0	0	
	mid	Avg	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	6	0	0	0	0	0	0	0	0	0	0	0	
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
Weekend	Overall	Avg	12.67	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	24	1	0	0	0	0	0	0	0	0	0	0	
	AM	Avg	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	9	0	0	0	0	0	0	0	0	0	0	0	
	mid	Avg	16.33	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	22	1	0	0	0	0	0	0	0	0	0	0	
	PM	Avg	14.67	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	24	1	0	0	0	0	0	0	0	0	0	0	
Holiday	Overall	Avg	14.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	
		Max	25	0	0	0	0	0	0	0	0	0	1	0	
	AM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
	mid	Avg	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	25	0	0	0	0	0	0	0	0	0	0	0	
	PM	Avg	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	
		Max	16	0	0	0	0	0	0	0	0	0	1	0	

*Non-Peak Season.* During the non-peak season, the majority of vehicles were those without trailers (average less than 1 VAOT, maximum of 6) (Table 5.4-38). The majority of vehicles observed occurred on weekends. The number of vehicles was low and relatively the same throughout the day.

**Table 5.4-38. Average and maximum number of vehicles observed at Moccasin Point: Picnic Area-Non-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Total of All Day Types	Overall	Avg	0.68	0.04	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
		Max	6	1	0	0	0	1	0	0	0	0	0	0
	AM	Avg	1.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
		Max	6	0	0	0	0	1	0	0	0	0	0	0
	mid	Avg	0.23	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	2	1	0	0	0	0	0	0	0	0	0	0
	PM	Avg	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	6	0	0	0	0	0	0	0	0	0	0	0
Weekday	Overall	Avg	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	1	0	0	0	0	0	0	0	0	0	0	
	AM	Avg	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	1	0	0	0	0	0	0	0	0	0	0	
	mid	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	
Weekend	Overall	Avg	1.29	0.07	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	
		Max	6	1	0	0	0	1	0	0	0	0	0	
	AM	Avg	1.40	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	
		Max	6	0	0	0	0	1	0	0	0	0	0	
	mid	Avg	0.50	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	2	1	0	0	0	0	0	0	0	0	0	
	PM	Avg	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	6	0	0	0	0	0	0	0	0	0	0	

### **Recreation Users and Activities**

No shoreline use was observed during non-peak season.

*Peak Season.* During the peak season, all types of recreation uses were observed and many visitors identified their activity within the “other activities” category at the Picnic Area (Table 5.4-39). The most common observed shoreline activity was picnicking/sunbathing (average 2.91 PAOT, maximum 27). Some swimming (average less than 1 PAOT, maximum 3) and walking (average less than 1 PAOT, maximum 2), were also observed. Use was greatest on weekends. Most use occurred during afternoon and mid-day periods.

**Table 5.4-39. Average and maximum observed shoreline activities at Moccasin Point, Picnic Area-Peak Season.**

Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/Sunbather	Walker	Other
Total All Day Types	Overall	23	Avg	0.00	0.13	2.91	0.09	0.43
			Max	0	3	27	2	7
	AM	7	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	mid	11	Avg	0.00	0.00	3.09	0.00	0.00
			Max	0	0	9	0	0
	PM	5	Avg	0.00	0.60	6.60	0.40	2.00
			Max	0	3	27	2	7
Weekday	Overall	10	Avg	0.00	0.00	0.40	0.00	0.00
			Max	0	0	2	0	0
	AM	4	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	mid	6	Avg	0.00	0.00	0.67	0.00	0.00
			Max	0	0	2	0	0
	PM	0	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekend	Overall	9	Avg	0.00	0.33	5.89	0.22	0.00
			Max	0	3	27	2	0
	AM	3	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	mid	3	Avg	0.00	0.00	6.67	0.00	0.00
			Max	0	0	9	0	0
	PM	3	Avg	0.00	1.00	11.00	0.67	0.00
			Max	0	3	27	2	0
Holiday	Overall	4	Avg	0.00	0.00	2.50	0.00	2.50
			Max	0	0	7	0	7
	AM	0	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	mid	2	Avg	0.00	0.00	5.00	0.00	0.00
			Max	0	0	7	0	0
	PM	2	Avg	0.00	0.00	0.00	0.00	5.00
			Max	0	0	0	0	7

### 5.4.3.3 Marina

#### **Vehicle Use**

*Peak Season.* During the peak season, the majority of vehicles were those without trailers (average 18 VAOT, maximum of 58) (Table 5.4-40). The majority of vehicles observed also occurred on holidays, followed by weekends. The number of vehicles was greatest during the morning and afternoon periods on holidays, weekends, and weekdays.

**Table 5.4-40. Average and maximum number of vehicles observed at Moccasin Point: Marina-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Total of All Day Types	Overall	Avg	17.96	0.26	0.04	0.00	0.00	0.00	0.22	0.52	0.00	0.13	0.09	0.22
		Max	58	1	1	0	0	0	1	2	0	1	1	3
	AM	Avg	12.57	0.29	0.00	0.00	0.00	0.00	0.29	0.43	0.00	0.14	0.00	0.00
		Max	36	1	0	0	0	0	1	2	0	1	0	0
	mid	Avg	14.45	0.27	0.09	0.00	0.00	0.00	0.27	0.55	0.00	0.18	0.18	0.18
		Max	35	1	1	0	0	0	1	2	0	1	1	1
	PM	Avg	33.20	0.20	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.60
		Max	58	1	0	0	0	0	0	2	0	0	0	3
Weekday	Overall	Avg	8.30	0.20	0.10	0.00	0.00	0.00	0.30	0.50	0.00	0.10	0.10	0.10
		Max	16	1	1	0	0	0	1	2	0	1	1	1
	AM	Avg	7.20	0.00	0.00	0.00	0.00	0.00	0.40	0.20	0.00	0.00	0.00	0.00
		Max	12	0	0	0	0	0	1	1	0	0	0	0
	mid	Avg	9.40	0.40	0.20	0.00	0.00	0.00	0.20	0.80	0.00	0.20	0.20	0.20
		Max	16	1	1	0	0	0	1	2	0	1	1	1
	PM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
Weekend	Overall	Avg	22.44	0.44	0.00	0.00	0.00	0.00	0.22	0.44	0.00	0.11	0.11	0.44
		Max	41	1	0	0	0	0	1	2	0	1	1	3
	AM	Avg	26.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.50	0.00	0.00
		Max	36	1	0	0	0	0	0	2	0	1	0	0
	mid	Avg	16.50	0.25	0.00	0.00	0.00	0.00	0.50	0.25	0.00	0.00	0.25	0.25
		Max	24	1	0	0	0	0	1	1	0	0	1	1
	PM	Avg	28.00	0.33	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	1.00
		Max	41	1	0	0	0	0	0	1	0	0	0	3
Holiday	Overall	Avg	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.25	0.00	0.00
		Max	58	0	0	0	0	0	0	2	0	1	0	0
	AM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.50	0.00	0.00
		Max	35	0	0	0	0	0	0	1	0	1	0	0
	PM	Avg	41.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
		Max	58	0	0	0	0	0	0	2	0	0	0	0

*Non-Peak Season.* During the non-peak season, the majority of vehicles were those without trailers (average 6 VAOT, maximum of 16) (Table 5.4-41). The majority of vehicles were observed on weekends. The greatest number of vehicles were observed during the mid-day and afternoon periods.

**Table 5.4-41. Average and maximum number of vehicles observed at Moccasin Point: Marina-Non-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time												
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Total of All Day Types	Overall	Avg	5.68	0.07	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.36	0.32
		Max	16	1	0	0	0	0	1	0	0	0	0	3	1
	AM	Avg	5.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.29
		Max	10	1	0	0	0	0	0	0	0	0	0	1	1
	mid	Avg	6.20	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.20	0.40
		Max	16	0	0	0	0	1	0	0	0	0	0	1	1
	PM	Avg	5.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.17
		Max	7	1	0	0	0	0	0	0	0	0	0	3	1
Weekday	Overall	Avg	3.71	0.07	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.43	0.29	
		Max	8	1	0	0	0	1	0	0	0	0	3	1	
	AM	Avg	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	
		Max	2	0	0	0	0	0	0	0	0	0	1	0	
	mid	Avg	4.33	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.22	0.33	
		Max	8	0	0	0	0	1	0	0	0	0	1	1	
	PM	Avg	3.67	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.33	
		Max	5	1	0	0	0	0	0	0	0	0	3	1	
Weekend	Overall	Avg	7.64	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.36	
		Max	16	1	0	0	0	0	0	0	0	0	1	1	
	AM	Avg	6.80	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.40	
		Max	10	1	0	0	0	0	0	0	0	0	1	1	
	mid	Avg	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.50	
		Max	16	0	0	0	0	0	0	0	0	0	1	1	
	PM	Avg	6.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	
		Max	7	0	0	0	0	0	0	0	0	0	1	0	

#### 5.4.3.4 Entrance Overflow Parking Area

##### **Vehicle Use**

No vehicles were observed in this parking area during the non-peak season.

*Peak Season.* During the peak season, the majority of vehicles were those without trailers (average less than 1 VAOT, maximum of 2) (Table 5.4-42). The only time vehicles were observed in this parking area was during holidays.

**Table 5.4-42. Average and maximum number of vehicles observed at Moccasin Point: Entrance Overflow Lot-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time												
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Total of All Day Types	Overall	Avg <sub>avg</sub>	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
		Max	2	0	0	0	0	0	0	0	1	0	0	0	0
	AM	Avg <sub>avg</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg <sub>avg</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	Avg <sub>avg</sub>	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	
	Max	2	0	0	0	0	0	0	0	1	0	0	0	0	
Weekday	Overall	Avg <sub>avg</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
	AM	Avg <sub>avg</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
	mid	Avg <sub>avg</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
PM	Avg <sub>avg</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Max	0	0	0	0	0	0	0	0	0	0	0	0		
Weekend	Overall	Avg <sub>avg</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
	AM	Avg <sub>avg</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
	mid	Avg <sub>avg</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
PM	Avg <sub>avg</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Max	0	0	0	0	0	0	0	0	0	0	0	0		
Holiday	Overall	Avg <sub>avg</sub>	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	
		Max	2	0	0	0	0	0	0	1	0	0	0	0	
	AM	Avg <sub>avg</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
	mid	Avg <sub>avg</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
PM	Avg <sub>avg</sub>	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00		
	Max	2	0	0	0	0	0	0	1	0	0	0	0		

## 5.4.3.5 Additional Parking Areas, Main Lot

**Vehicle Use**

*Peak Season.* During the peak season, the majority of vehicles were those with boat trailers (average less than 1 VAOT, maximum of 27), followed by vehicles without trailers (average less than 1 VAOT, maximum of 9) (Table 5.4-43). The majority of vehicles observed also occurred on weekends. The greatest number of vehicles were observed during the afternoon period.

**Table 5.4-43. Average and maximum number of vehicles observed at Moccasin Point: Additional Parking\*-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time												
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Total of All Day Types	Overall	Avg	0.57	0.70	0.00	0.04	0.00	0.02	0.00	0.37	0.00	0.02	0.00	0.02	
		Max	9	27	0	1	0	1	0	3	0	1	0	1	
	AM	Avg	0.14	0.07	0.00	0.07	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.00	
		Max	2	1	0	1	0	0	0	3	0	0	0	0	
	mid	Avg	0.27	1.36	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.05	
		Max	3	27	0	0	0	0	0	2	0	0	0	1	
	PM	Avg	1.80	0.10	0.00	0.10	0.00	0.10	0.00	0.60	0.00	0.10	0.00	0.00	
		Max	9	1	0	1	0	1	0	2	0	1	0	0	
	Weekday	Overall	Avg	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.05
			Max	2	0	0	0	0	0	0	3	0	0	0	1
AM		Avg	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	
		Max	2	0	0	0	0	0	0	3	0	0	0	0	
mid		Avg	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.10	
		Max	1	0	0	0	0	0	0	2	0	0	0	1	
PM		Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Max	0	0	0	0	0	0	0	0	0	0	0	0	
Weekend		Overall	Avg	1.00	0.17	0.00	0.11	0.00	0.06	0.00	0.33	0.00	0.06	0.00	0.00
			Max	9	1	0	1	0	1	0	2	0	1	0	0
	AM	Avg	0.00	0.25	0.00	0.25	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	
		Max	0	1	0	1	0	0	0	0	0	0	0	0	
	mid	Avg	0.63	0.13	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	
		Max	3	1	0	0	0	0	0	1	0	0	0	0	
	PM	Avg	2.17	0.17	0.00	0.17	0.00	0.17	0.00	0.67	0.00	0.17	0.00	0.00	
		Max	9	1	0	1	0	1	0	2	0	1	0	0	



Type of Day	Time of Day	Stats	Vehicles At One Time												
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Holiday	Overall	Avg	0.63	3.62	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
		Max	3	27	0	0	0	0	0	0	2	0	0	0	0
	AM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	0	0	0	0	0
	mid	Avg	0.00	7.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Max	0	27	0	0	0	0	0	0	0	0	0	0	0
	PM	Avg	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
		Max	3	0	0	0	0	0	0	0	2	0	0	0	0

\*Includes Main Lot and Overflow Lot.

*Non-Peak Season.* During the non-peak season, the majority of vehicles were those without trailers (average less than 1 VAOT, maximum of 4) (Table 5.4-44). Use was very low during the non-peak season, with a maximum of 4 vehicles noted during a weekday, mid-day.

**Table 5.4-44. Average and maximum number of vehicles observed at Moccasin Point: Additional Parking\*-Non-Peak Season.**

Type of Day	Time of Day	Stats	Vehicles At One Time											
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle
Total of All Day Types	Overall	Avg	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
		Max	4	0	0	0	0	0	0	2	0	0	0	0
	AM	Avg	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
		Max	1	0	0	0	0	0	0	1	0	0	0	0
	mid	Avg	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
		Max	4	0	0	0	0	0	0	2	0	0	0	0
	PM	Avg	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
		Max	3	0	0	0	0	0	0	1	0	0	0	0

Type of Day	Time of Day	Stats	Vehicles At One Time												
			Vehicle Without Trailer	Vehicle with Boat Trailer	Vehicle with Recreation Trailer	Vehicle with PWC/Kayak Trailer	Vehicle with Camper	Vehicle with Boat Roof Racks	RV/ Camper	Trailer Only-Boat	Trailer Only-Recreation	Trailer Only-PWC/Kayak	Motorcycle	Other Vehicle	
Weekday	Overall	Avg	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
		Max	4	0	0	0	0	0	0	0	2	0	0	0	0
	AM	Avg	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
		Max	1	0	0	0	0	0	0	0	1	0	0	0	0
	mid	Avg	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
		Max	4	0	0	0	0	0	0	0	2	0	0	0	0
	PM	Avg	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
		Max	1	0	0	0	0	0	0	0	1	0	0	0	0
Weekend	Overall	Avg	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	
		Max	3	0	0	0	0	0	0	1	0	0	0	0	
	AM	Avg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
		Max	0	0	0	0	0	0	0	0	1	0	0	0	0
	mid	Avg	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
		Max	1	0	0	0	0	0	0	0	1	0	0	0	0
	PM	Avg	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
		Max	3	0	0	0	0	0	0	0	1	0	0	0	0

\*Includes Main Lot and Overflow Lot.

### **Recreation Users and Activities**

No shoreline users were observed during non-peak season.

*Peak Season.* During the peak season, relatively little recreation use was observed at the Additional Main Lot (Table 5.4-45). The most common observed activities were swimming (average less than 1 PAOT, maximum 5), walking (average less than 1 PAOT, maximum 5), picnic/sunbathing (average less than 1 PAOT, maximum 5), and angling (average less than 1 PAOT, maximum 2) which accounted for nearly all the shoreline activities observed. Use was greatest during holidays, followed by weekend and weekday-use. Most shoreline use occurred during afternoon and mid-day periods.

**Table 5.4-45. Average and maximum observed shoreline activities at Moccasin Point, Additional Parking Main Lot-Peak Season.**

Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/Sunbather	Walker	Other
Total All Day Types	Overall	23	Avg	0.09	0.74	0.48	0.65	2.13
			Max	2	5	3	5	18
	AM	7	Avg	0.00	0.00	0.00	0.14	1.86
			Max	0	0	0	1	13
	mid	11	Avg	0.00	0.00	0.36	1.18	1.64
			Max	0	0	0	0	0

Type of Day	Time of Day	n Observed Days	Statistic	Persons At One Time				
				Angler	Swimmer	Picnic/Sunbather	Walker	Other
			Max	0	0	2	5	15
	PM	5	Avg	0.40	3.40	1.40	0.20	3.60
			Max	2	5	3	1	18
Weekday	Overall	10	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	AM	5	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	mid	5	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	PM	0	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
Weekend	Overall	9	Avg	0.00	0.78	0.67	0.78	3.44
			Max	0	5	2	4	15
	AM	2	Avg	0.00	0.00	0.00	0.50	6.50
			Max	0	0	0	1	13
	mid	4	Avg	0.00	0.00	1.00	1.50	4.50
			Max	0	0	2	4	15
	PM	3	Avg	0.00	2.33	0.67	0.00	0.00
			Max	0	5	2	0	0
Holiday	Overall	4	Avg	0.50	2.50	1.25	2.00	4.50
			Max	2	5	3	5	18
	AM	0	Avg	0.00	0.00	0.00	0.00	0.00
			Max	0	0	0	0	0
	mid	2	Avg	0.00	0.00	0.00	3.50	0.00
			Max	0	0	0	5	0
	PM	2	Avg	1.00	5.00	2.50	0.50	9.00
			Max	2	5	3	1	18

### 5.5 Inventory and Evaluation of the Use Impacts at Recurrent Dispersed Shoreline Recreation Use Locations along Don Pedro Reservoir Shoreline

DPRA staff recorded locations of dispersed recreation in 2012 during regularly scheduled boat patrols. This information from 2012, along with DPRA staff knowledge of past use patterns, was mapped and provided to the study team (Figure 5.5-1). The study team inventoried and evaluated the recurrent dispersed recreation use locations along the Don Pedro Reservoir shoreline outside of the Project developed recreation facilities and within the FERC Project Boundary on October 8-9, 2012 by boat and November 8, 2012 by car. Twenty-three discrete locations showing signs of recurrent dispersed shoreline recreation use were documented within the FERC Project Boundary. At each location, the study team photographed and mapped the location with a GPS device. The results of this inventory and impact evaluation are summarized in Table 5.2-1 including location relative to the normal maximum water surface elevation (NMWSE) of the reservoir as evidenced by the persistent vegetation line or watermark on exposed rock; and the locations (by site ID) of each site are shown in Figure 5.5-2.

**Table 5.5-1. Use impact inventory at recurrent dispersed shoreline recreation use locations at Don Pedro Reservoir.**

Site ID	Site Description/ Name	Use Impact Category	Location Relative to NMWSE	Signs of Overnight Use	Key Recreation Use Impacts Observed
01	Ward's Ferry Bridge (north shoreline)	Moderate	Below	Yes	Some litter; user-created trails; large areas of bare/compacted ground
02	Ward's Ferry Bridge (south shoreline <sup>1</sup> )	Moderate	Below	Yes	Moderate litter; user-created trails; toilet paper (>5 occurrences)
03	Woods Creek arm	Low	Below	Yes	Toilet paper (>5 occurrences)
04	Woods Creek arm	Moderate	Below	Yes	Some litter; toilet paper (>5 occurrences)
05	Shawmut Road	High	Above	Yes	Fire ring without adequate clearance; toilet paper (>5 occurrences); some litter and tree cutting
06	Upper Bay (north shoreline)	Low	Below	Yes	Some litter
07	Upper Bay (island)	High	Above	Yes	Tree cutting; some litter; large areas of bare/compacted ground; toilet paper (<5 occurrences)
08	Upper Bay (island)	Moderate	Above	Yes	Some litter, tree cutting and toilet paper (<5 occurrences)
09	Gardiner Falls	Low	Below	No	Litter
10	Upper Bay (south shoreline)	Low	Above	No	None
11	Green Bay	Low	Below	Yes	None
12	Rock Island	Moderate	Above	No	Litter; toilet paper (<5 occurrences)
13	Rock Island	Low	Below	No	Toilet paper (<5 occurrences)
14	Graveyard Creek Dispersed Toilet	Low	Above	No	Litter
15	Jenkins Hill	Low	Below	Yes	Toilet paper (<5 occurrences)
16	Rogers Creek arm	Low	Below	Yes	Toilet paper (<5 occurrences)
17	Rogers Creek arm	Low	Below	No	Litter
18	Laughlin Island	Low	Above	Yes	None
19	Lucas Bay	Low	Below	No	User-created trails; toilet paper (<5 occurrences)
20	Mine Island	Low	Above	Yes	Large areas of bare/compacted ground; toilet paper (<5 occurrences)
21	Mud Flats	Low	Below	Yes	None
22	Mud Flats	Low	Above	No	Toilet paper (<5 occurrences)
23	49er Bay	Low	Below	No	Some litter; user-created trails

<sup>1</sup> Adjacent to the vault toilet building at Ward's Ferry Bridge.

Nine of the 23 recurrent dispersed recreation sites inventoried were located above the NMWSE and the remainder (14 sites) were located below the NMWSE. Fourteen of the recurrent dispersed recreation sites had at least one user-created fire ring (i.e., a rock ring). However, half of these sites had poor quality areas for tent pads; and, even the sites with level areas for potential tent pads did not show obvious signs of actual tent pads (e.g., clear and level tent pad sites).

Of the 23 recurrent dispersed recreation sites, the majority of the sites (70 percent or 16 sites) showed “low” impact; five sites (22 percent) showed “moderate” impact; and two sites showed “high” impact. The “low” impact sites either showed no signs of use impact or only a few signs with minimal scope. At the “moderate” impact sites, one to three signs of impact were typically observed with at least a few signs of litter and toilet paper, but also some cutting and hacking damage to shoreline woody vegetation, large areas of bare/compacted ground and/or user-created trails. At the “high” impact sites, four signs of use impact were observed, but most were significant or widespread impacts such as toilet paper (more than 5 occurrences); large areas of bare/compacted ground with trampled vegetation; user-created trails to satellite areas; and/or a fire ring without adequate clearances.



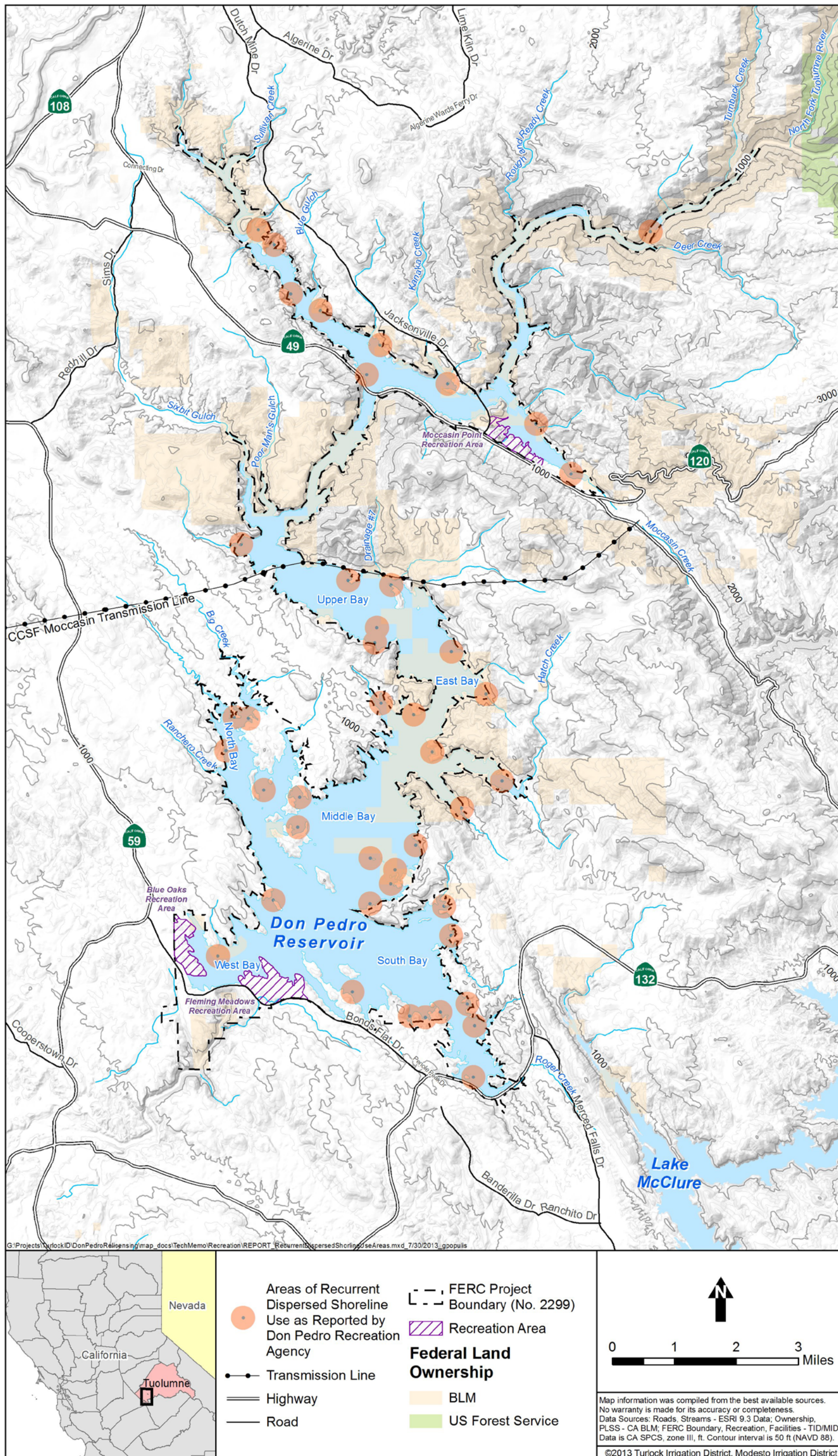


Figure 5.5-1. Areas of recurrent dispersed shoreline recreation use reported by Don Pedro Recreation Agency.



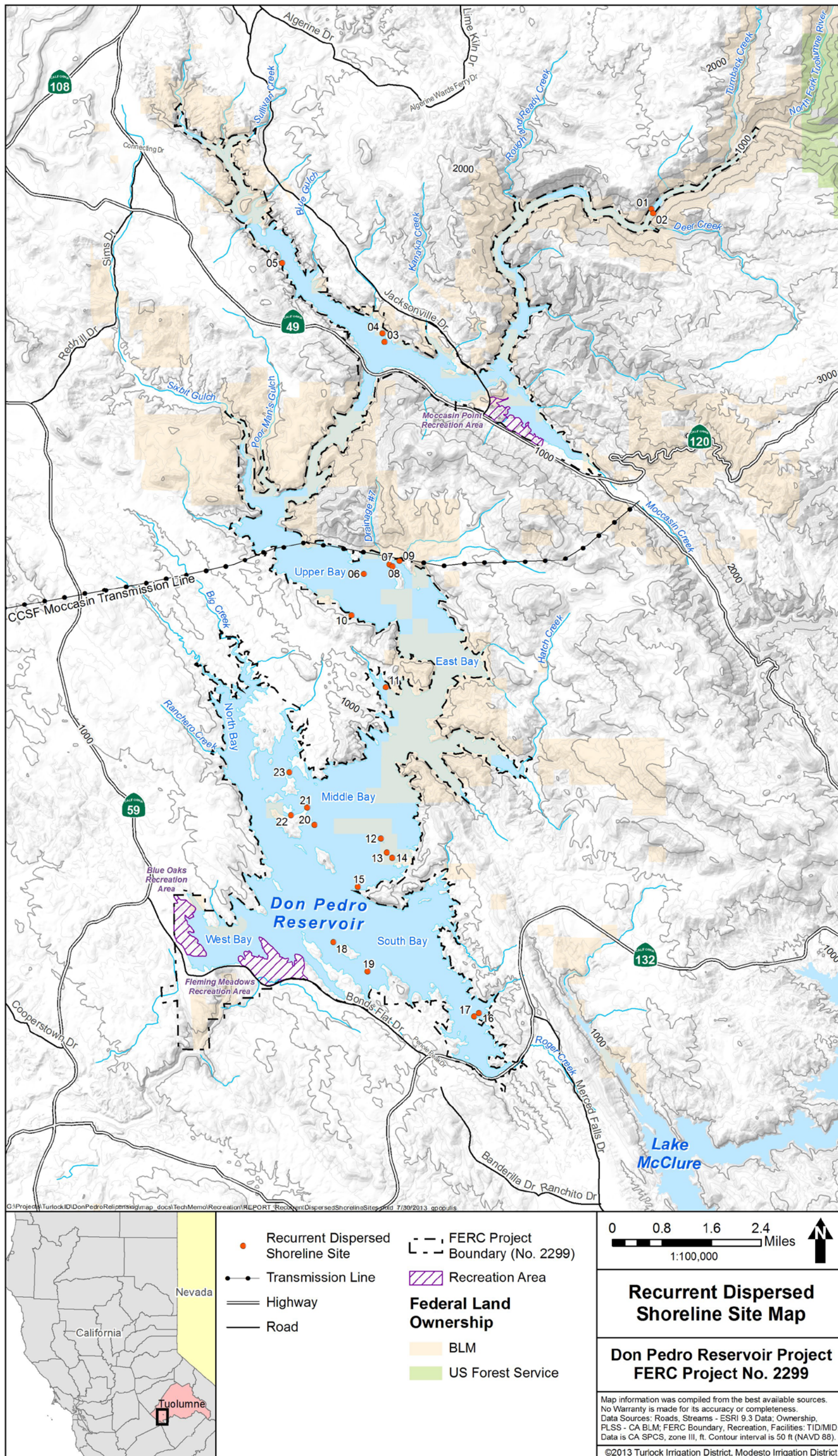


Figure 5.5-2. Recurrent dispersed shoreline recreation sites where impacts were observed.



## 5.6 Visitor Survey Questionnaire Results

The following sections address responses to the visitor survey questionnaire conducted from January 21, 2012 through December 19, 2012. The number of responses to each item may vary because some respondents did not respond to all the questions presented in the survey. Additionally, all open-ended responses within tables are verbatim and unedited.

### 5.6.1 Survey Population

Overall, 56 percent of respondents were overnight visitors (Table 5.6-1). The average age of respondents was 46 years; 67 percent were male, and the majority of white ethnicity, and English speaking (Table 5.6-2). More than a half of the visitors came from Stanislaus, San Joaquin, or Santa Clara County (Table 5.6-3).

**Table 5.6-1. Number of overnight and day-use visitors surveyed.**

Type of Visitor	N	Percentage
Overnight	318	56.2
Day Use	248	43.8
<b>Total</b>	<b>566</b>	<b>100.0</b>

**Table 5.6-2. Socio-demographic characteristics of survey respondents in the Don Pedro Project.**

Characteristics				
Age	Mean	Std. Deviation	Minimum	Maximum
	45.75	14.50	18	88
<b>Gender</b>	N		Percentage	
Male	379			67.0
Female	187			33.0
<b>Total</b>	<b>566</b>			<b>100.0</b>
<b>Ethnicity</b>	N		Percentage	
White	421			75.2
Hispanic or Latino	62			11.1
Spanish Hispanic or Latino	24			4.3
Asian	16			2.9
American Indian/Alaskan Native	13			2.3
Other	11			2.0
Native Hawaiian or other Pacific Islander	7			1.3
Black/African-American	6			1.1
<b>Total</b>	<b>560</b>			<b>100.0</b>
<b>Language</b>	N		Percentage	
English	525			93.4
Spanish	25			4.4
English and Spanish	5			.9
Hungarian	2			.4
German	1			.2
Chinese	1			.2
Tagalog	1			.2
English and Portuguese	1			.2
Tegalo	1			.2
<b>Total</b>	<b>562</b>			<b>100.0</b>



**Table 5.6-3. County of residence for survey respondents to the Don Pedro Project.**

<b>County</b>	<b>N</b>	<b>Percentage</b>
Stanislaus	83	32.5
San Joaquin	75	13.3
Santa Clara	51	9.1
Alameda	48	8.5
Merced	31	5.5
Tuolumne	30	5.3
Contra Costa	25	4.4
San Mateo	14	2.5
Sacramento	11	2.0
Solano	8	1.4
Fresno	7	1.2
Los Angeles	7	1.2
Kern	6	1.1
Santa Cruz	6	1.1
Monterey	5	.9
Tulare	5	.9
Calaveras	4	.7
Marin	4	.7
Mariposa	4	.7
Orange	4	.7
San Francisco	4	.7
Madera	3	.5
Kings	2	.4
Lake	2	.4
Nevada	2	.4
Riverside	2	.4
San Benito	2	.4
Ventura	2	.4
Alpine	1	.2
Amador	1	.2
Clark, NV	1	.2
Dallas, TX	1	.2
El Dorado	1	.2
El Paso, CO	1	.2
Jackson, MO	1	.2
Keith, NE	1	.2
Lyon, NV	1	.2
Park, CO	1	.2
San Bernardino	1	.2
San Diego	1	.2
San Luis Obispo	1	.2
Santa Barbara	1	.2
Yolo	1	.2
Yuba	1	.2
<b>Total</b>	<b>563</b>	<b>100.0</b>

## 5.6.2 Fleming Meadows

### 5.6.2.1 Recreation Visitors Trip Characteristics

#### Visitor Characteristics

The majority of visitors to Fleming Meadows stayed overnight (61.2 percent) with the remainder coming for day-use activities (Table 5.6-4).

**Table 5.6-4. Day-use and Overnight Visitor use at Fleming Meadows.**

Type of Visitor	N	Percentage
Day-Use	102	38.8
Overnight	161	61.2
<b>Total</b>	<b>263</b>	<b>100.0</b>

#### Day-use Visitors

Among day-use visitors, the majority were male, of white ethnicity, spoke English as their primary language, and were an average age of 42 years old (Table 5.6-5). Half of day-use respondents came from Stanislaus County (Table 5.6-6).

**Table 5.6-5. Socio-demographic characteristics of day-use visitors at Fleming Meadows.**

Characteristic				
<b>Age</b>	<b>Mean</b>	<b>Std. Deviation</b>	<b>Minimum</b>	<b>Maximum</b>
	42.42	15.32	18	81
<b>Gender</b>	<b>N</b>	<b>Percentage</b>		
Male	72	70.6		
Female	30	29.4		
<b>Total</b>	<b>102</b>	<b>100.0</b>		
<b>Ethnicity</b>	<b>N</b>	<b>Percentage</b>		
White	71	69.6		
Hispanic or Latino	18	17.6		
Asian	4	3.9		
American Indian/Alaskan Native	4	3.9		
Spanish Hispanic or Latino	3	2.9		
Black/African-American	1	1.0		
Other	1	1.0		
<b>Total</b>	<b>102</b>	<b>100.0</b>		
<b>Primary Language</b>	<b>N</b>	<b>Percentage</b>		
English	91	89.2		
Spanish	8	7.8		
Chinese	1	1.0		
English and Spanish	1	1.0		
Hungarian	1	1.0		
<b>Total</b>	<b>102</b>	<b>100.0</b>		

**Table 5.6-6. County of residence for day-use visitors at Fleming Meadows.**

County	N	Percentage
Stanislaus	50	49.5
San Joaquin	12	11.9
Merced	11	10.9
Alameda	3	2.3
Fresno	3	2.3
Kern	3	2.3
Sacramento	3	2.3
Los Angeles	2	2.0
Tuolumne	2	2.0
Calaveras	1	1.0
Clark, NV	1	1.0
Contra Costa	1	1.0
Dallas, TX	1	1.0
Madera	1	1.0
Mariposa	1	1.0
Orange	1	1.0
Riverside	1	1.0
San Mateo	1	1.0
Santa Clara	1	1.0
Tulare	1	1.0
Yuba	1	1.0
<b>Total</b>	<b>101</b>	<b>100.0</b>

### **Overnight Visitors**

Overnight visitors to Fleming Meadows were similar to day-use visitors. More than a half of visitors surveyed were male (58 percent), of white ethnicity (68 percent), and spoke English (94 percent) as their primary language (Table 5.6-7). The average age of overnight visitors was 46 years old and more than half resided in Stanislaus, Alameda, or Santa Clara County (Table 5.6-8).

**Table 5.6-7. Socio-demographic characteristics of overnight visitors at Fleming Meadows.**

Characteristic				
Age	Mean	Std. Deviation	Minimum	Maximum
	45.83	14.29	19	88
<b>Gender</b>	<b>N</b>		<b>Percentage</b>	
Male	93		57.8	
Female	68		42.2	
<b>Total</b>	<b>161</b>		<b>100.0</b>	
<b>Ethnicity</b>	<b>N</b>		<b>Percentage</b>	
White	109		68.1	
Hispanic or Latino	20		12.5	
Spanish Hispanic or Latino	13		8.1	
Asian	7		4.4	
American Indian/Alaskan Native	4		2.5	
Other	3		1.9	

<b>Characteristic</b>		
Black/African-American	2	1.3
Native Hawaiian or other Pacific Islander	2	1.3
<b>Total</b>	<b>160</b>	<b>100.0</b>
<b>Primary Language</b>	<b>N</b>	<b>Percentage</b>
English	150	93.8
Spanish	7	4.4
English and Spanish	3	1.9
<b>Total</b>	<b>160</b>	<b>100.0</b>

**Table 5.6-8. County of residence for overnight visitors at Fleming Meadows.**

<b>County</b>	<b>N</b>	<b>Percentage</b>
Stanislaus	44	27.5
Alameda	21	13.1
Santa Clara	21	13.1
San Joaquin	15	9.4
Contra Costa	11	6.9
Merced	6	3.8
San Mateo	6	3.8
Sacramento	5	3.1
Kern	3	1.9
Monterey	3	1.9
Fresno	2	1.3
Madera	2	1.3
Nevada	2	1.3
San Benito	2	1.3
San Francisco	2	1.3
Santa Cruz	2	1.3
Solano	2	1.3
Sonoma	2	1.3
Los Angeles	1	.6
Lyon, NV	1	.6
Mariposa	1	.6
Riverside	1	.6
San Diego	1	.6
San Luis Obispo	1	.6
Santa Barbara	1	.6
Tuolumne	1	.6
Ventura	1	.6
<b>Total</b>	<b>160</b>	<b>100.0</b>

### *Trip Characteristics*

Visitors were asked a variety of questions about their visits to Fleming Meadows. Responses are separated by day-use and overnight visitation.

### **Day-Use Visitors**

Day-use visitors arrived at Fleming Meadows early in the morning and departed in the early afternoon. They stayed, on average, 6 hours at the reservoir. Most day-use visitors (67 percent) are regular visitors, with only 16 percent visiting for the first time (Table 5.6-9).

**Table 5.6-9. Day-use visitor trip characteristics at Fleming Meadows.**

<b>Characteristic</b>			
<b>Length of Stay</b>	<b>Mean</b>	<b>Minimum</b>	<b>Maximum</b>
Number of hours	6.00	2:00	12:00
<b>Time</b>	<b>Mean</b>	<b>Earliest</b>	<b>Latest</b>
Time of arrival	09:26	04:00	15:00
Time of departure	15:28	11:00	21:00
<b>Historical Information</b>		<b>N</b>	<b>Percentage</b>
Regular Visitor (3 or more times per year)		68	66.7
Occasional Visitor (1-2 times per year)		11	10.8
Infrequent Visitor (less than 1 time per year)		7	6.9
This is my first visit		16	15.7
<b>Total</b>		<b>102</b>	<b>100.0</b>

### **Overnight Visitors**

The majority of overnight visitors arrived and departed around early afternoon and spent an average of 7 days at the reservoir (Table 5.6-10). Most overnight visitors were regular visitors (50 percent), with approximately 12 percent visiting for the first time.

**Table 5.6-10. Overnight visitor trip characteristics at Fleming Meadows.**

<b>Characteristic</b>			
<b>Length of Stay</b>	<b>Mean</b>	<b>Minimum</b>	<b>Maximum</b>
Number of days	6.67	1	83
<b>Time</b>	<b>Mean</b>	<b>Minimum</b>	<b>Maximum</b>
Time of arrival	14:30	01:00	23:00
Time of departure	13:25	09:00	22:00
<b>Historical Information</b>		<b>N</b>	<b>Percentage</b>
Regular Visitor		80	49.7
Occasional Visitor		43	26.7
Infrequent Visitor		19	11.8
This is my first visit		19	11.8
<b>Total</b>		<b>161</b>	<b>100.0</b>

When asked about overnight accommodations, the majority of overnight visitors to Fleming Meadows reported camping at the RV park or campground (70 percent) (Table 5.6-11).

**Table 5.6-11. Where overnight visitors stayed at Fleming Meadows.**

<b>Location</b>	<b>N</b>	<b>Percentage</b>
RV Park or Campground	112	69.6
Houseboat owned	27	16.8
Houseboat rented	6	3.7
Dispersed Shoreline Camping at Don Pedro Reservoir (permit required)	5	3.1
Camping outside of designated camping area (dispersed site/area)	2	1.2

Location	N	Percentage
Other	9	5.6
<b>Total</b>	<b>161</b>	<b>100.0</b>

Day-use visitors to Fleming Meadows reported recreating primarily with just family or family and friends during their visit (Table 5.6-12). On average, day-use visitors reported having an average of 3 adults, 1 child, and 1 vehicle in their group (Table 5.6-13).

**Table 5.6-12. Day-use visitors' type of recreation group at Fleming Meadows.**

Type of Group	N	Percentage
Alone	9	8.9
Friends	18	17.8
Family and Friends	34	33.7
Family	38	37.6
Multiple Families	1	1.0
Organized Group Outing	1	1.0
<b>Total</b>	<b>101</b>	<b>100.0</b>

**Table 5.6-13. Number of people, vehicles, boats, and water-related equipment included in day-use groups' current trip at Fleming Meadows.**

Person/Item	Mean	Minimum	Maximum
Adults	2.95	1	11
Children	1.08	0	7
Vehicles	1.22	0	5
Boat/PWC/Raft Trailers	.46	0	2
RV/Campers	.01	0	1
Tents	.03	0	3
<15 hp Powerboats	.06	0	1
>15 hp Powerboats	.37	0	2
PWCs	.05	0	1
Canoes/Kayaks	.01	0	1
Skis, wakeboard, other tow-behind toys	.45	0	9
Other	.06	0	2

Overnight visitors to Fleming Meadows reported recreating primarily with family or family and friends during their visit (Table 5.6-14). Overnight visitors most often reported having an average of nearly 6 adults and nearly 4 children, and an average of nearly 3 vehicles in their group (Table 5.6-15). RV campers averaged 30 feet in length, with camper trailers averaging 24 feet in length.

**Table 5.6-14. Overnight visitors' type of recreation group at Fleming Meadows.**

Type of Group	N	Percentage
Alone	5	3.1
Friends	8	5.0
Family and Friends	73	45.6
Family	70	43.8
Multiple Families	1	.6
Organized Group Outing	3	1.9
<b>Total</b>	<b>160</b>	<b>100.0</b>

**Table 5.6-15. Number of people, vehicles, boats, and water-related equipment included in overnight groups' current trip at Fleming Meadows.**

Person/Item	Mean	Minimum	Maximum
Adults	5.71	1	70
Children	3.58	0	105
Vehicles	2.56	0	35
Boat/PWC/Raft Trailers	0.83	0	9
RV Campers	0.28	0	3
Length of RVs or campers	30.03	21	38
Camper Trailers	0.13	0	3
Length of camper trailers	24.00	8	36
Tents	1.69	0	40
<15 hp Powerboats	0.04	0	2
>15 hp Powerboats	0.73	0	11
PWCs	0.30	0	6
Canoes/Kayaks	0.12	0	6
Fishing Tubes	0.11	0	4
Skis, wakeboard, other tow-behind toys	1.27	0	30
Other	0.24	0	10

### 5.6.2.2 Recreation Activity Participation

Visitors to Fleming Meadows were asked to indicate which activities they participated in during their current visit. Responses were analyzed by day-use and overnight visitor type where applicable.

#### Day-use Visitors

The majority of day-use visitors participated in fishing, swimming, and picnicking (Table 5.6-16). Flat-water motorized boating, wildlife viewing, and hiking or walking were also identified by a number of day-use visitors (Table 5.6-16). When asked about their primary activity, fishing, boating and swimming were the most common responses. Several individuals identified a combination of recreation activities as well, such as fishing, boating, and relaxing (Table 5.6-17).

**Table 5.6-16. Activity participation of day-use visitors at Fleming Meadows.**

Activity	N	Percentage
Fishing	56	54.9
Swimming	40	39.2
Picnicking	30	29.4
Flat-water, motorized boating	27	26.5
Wildlife viewing (e.g. birding)	24	23.5
Hiking or walking	17	16.7
Wakeboarding	16	15.7
Other	15	14.7
<i>Boat Prepping</i>	--	--
<i>Family Reunion</i>	--	--
<i>Horseshoes</i>	--	--
<i>Pleasure boat</i>	--	--
<i>Relaxing</i>	--	--

Activity	N	Percentage
<i>Sailing</i>	--	--
<i>Wake Surfing</i>	--	--
<i>Youth group church group</i>	--	--
Water skiing	10	9.8
Other tow-behind toys	8	7.8
Personal watercraft use (e.g. jetskiing)	4	3.9
Camping	2	2.0
Driving for pleasure	2	2.0
Houseboating	1	1.0
Flat-water, non-motorized (e.g. kayak, canoe)	1	1.0
River/stream boating (e.g. raft, kayak, canoe)	1	1.0
Mountain biking	0	0.0

\*Respondents could check more than one activity.

**Table 5.6-17. Day-use visitors' primary recreation activity for current visit to Fleming Meadows.**

Activity	N	Percentage
Fishing	53	53.0
Boating	15	15.0
Swimming	8	8.0
Relaxing	6	6.0
Picnic	5	5.0
Water sports	3	3.0
Family reunion	2	2.0
Boat maintenance	2	2.0
Personal watercraft	1	1.0
Picnic/Swimming	1	1.0
Youth group	1	1.0
Swimming/relaxing	1	1.0
Fishing/knitting	1	1.0
Visit family	1	1.0
<b>Total</b>	<b>100</b>	<b>100.0</b>

### **Overnight Visitors**

A majority of overnight visitors participated in camping along with several other activities including: swimming, hiking/walking, fishing, wildlife viewing, picnicking, flatwater boating, wakeboarding, and other tow-behind water activities (Table 5.6-18). Camping and Houseboating were the most common primary activities of overnight visitors (Table 5.6-19).

**Table 5.6-18. Activity participation of overnight visitors at Fleming Meadows.**

Activity	N	Percentage
Camping	126	78.3
Swimming	115	71.4
Hiking or walking	100	62.1
Wildlife viewing (e.g. birding)	90	55.9
Picnicking	82	50.9
Fishing	81	50.9
Flat-water, motorized boating	57	35.4
Wakeboarding	42	26.1
Other tow-behind toys	40	24.8



Activity	N	Percentage
Water skiing	36	22.4
Houseboating	34	21.1
Personal watercraft use (e.g. jetskiing)	20	12.4
Other	18	11.2
<i>Annual church event</i>	--	--
<i>Baseball</i>	--	--
<i>Bicycling</i>	--	--
<i>Boat maintenance</i>	--	--
<i>Family Reunion</i>	--	--
<i>Pool floats</i>	--	--
<i>Relaxing</i>	--	--
<i>Rented Houseboat</i>	--	--
<i>Sailboating</i>	--	--
<i>Scooter</i>	--	--
<i>Scouting property to buy in the area</i>	--	--
<i>Testing boat for summer use.</i>	--	--
<i>Tournament fishing</i>	--	--
Mountain biking	7	4.3
Driving for pleasure	6	3.7
River/stream boating (e.g. raft, kayak, canoe)	1	.6

\*Respondents could check more than one activity.

**Table 5.6-19. Overnight visitors' primary activity at Fleming Meadows.**

Activity	N	Percentage
Camping	67	41.6
Houseboating	28	17.4
Relaxing	11	6.8
Boating	10	6.2
Fishing	10	6.2
Swimming	4	2.5
Camping/Fishing	4	2.5
Boating/Camping	6	3.8
Watersports	3	1.9
Camping/Relaxing	2	1.2
Party	2	1.2
Fireworks	2	1.2
Family Reunion	1	.6
Personal Watercraft	1	.6
Camping/Watersports	1	.6
More than 3 activities	1	.6
Camping/Fireworks	1	.6
Camping/Youth Education	1	.6
Camping/Drinking	1	.6
Fishing/Camping/Swimming	1	.6
Camping/Swimming	1	.6
Camping/Personal Watercraft	1	.6
Bachelor Party	1	.6
Boat maintenance	1	.6
<b>Total</b>	<b>161</b>	<b>100.0</b>

### *How Visitors Learned About Fleming Meadows Recreation Area*

When asked how visitors learned about Fleming Meadows, the majority learned through word of mouth (Table 5.6-20).

**Table 5.6-20. How visitors learned about the recreation area at Fleming Meadows.**

Source	N	Percentage
Word of Mouth	220	83.7
Internet	9	3.4
Other	55	20.9

\*Respondents could check more than one answer.

#### 5.6.2.3 Visitor Preferences and Expectations

### **Reservoir Water Level**

Visitors were asked to indicate whether the level of the reservoir was a problem for a variety of different activities at Fleming Meadows. For both overnight and day-use visitors, the level of the reservoir was not perceived as a problem for different types of activities. The vast majority of visitors reported the reservoir level was either “not a problem” or selected “no opinion/not applicable” (Table 5.6-21).

**Table 5.6-21. Perceptions of water levels as a problem for different types of activities at Fleming Meadows.**

Activity	Not a Problem		A Small Problem		Neither		A Moderate Problem		A Large Problem		No Opinion/ Not Applicable	
	N	%	N	%	N	%	N	%	N	%	N	%
Ability to use beach area	118	45.6	22	8.5	6	2.3	16	6.2	7	2.7	90	34.7
Ability to safely swim	137	52.3	14	5.3	2	.8	6	2.3	5	1.9	98	37.4
Ability to launch or take out boat	143	54.4	11	4.2	1	.4	7	2.7	3	1.1	98	37.3
Ability to safely boat	147	55.9	9	3.4	1	.4	8	3.0	3	1.1	94	35.7
Ability to utilize trails	88	33.5	12	4.6	7	2.7	5	1.9	2	.8	143	54.4
Ability to access shoreline campgrounds	45	17.1	10	3.8	4	1.5	2	.8	2	.8	190	72.2
Ability to fish along the shoreline	108	42.5	12	4.7	3	1.2	5	2.0	0	.0	126	49.6
Ability to access the shoreline	154	59.0	29	11.1	4	1.5	8	3.1	7	2.7	59	22.6
Scenic quality of shoreline	184	71.0	28	10.8	6	2.3	15	5.8	9	3.5	17	6.6
Other	13	28.9	0	.0	1	2.2	3	6.7	4	8.9	24	53.3

#### 5.6.2.4 Conflict, Crowding, Safety

Visitors were asked a series of questions to assess their perceptions of crowding, conflict, and safety while recreating at Fleming Meadows. Responses to these questions were evaluated for each recreation site.

## **Conflict**

Eleven percent of respondents to recreation sites within Fleming Meadows experienced negative interactions with other recreationists (Table 5.6-22). Of those that did experience negative interactions, sites included the campground, boat launch, swim lagoon, private houseboat, marina, and group picnic area.

**Table 5.6-22. Number and location of visitors who experienced a negative interaction with other recreationists at Fleming Meadows.**

<b>Conflict</b>	<b>N</b>	<b>Percentage</b>
Yes	27	10.3
No	235	89.7
<b>Total</b>	<b>262</b>	<b>100.0</b>

The type of negative conflict was generally motorized boater and other campers' proximity and loudness (Table 5.6-23).

**Table 5.6-23. Type of negative conflict visitors experienced with other recreationists at Fleming Meadows.**

<b>Activity/Type of Recreational User</b>	<b>Proximity to Where We Were</b>		<b>Rowdiness</b>		<b>Loudness</b>		<b>Other</b>	
	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Motorized Boater	7	46.7	2	22.2	5	35.7	7	53.8
Walker/Hiker	1	6.7	0	.0	0	.0	0	.0
Camper	6	40.0	7	77.8	9	64.3	4	30.8
Other	1	6.7	0	.0	0	.0	2	15.4
<b>Total</b>	<b>15</b>	<b>100.0</b>	<b>9</b>	<b>100.0</b>	<b>14</b>	<b>100.0</b>	<b>13</b>	<b>100.0</b>

***Other Reasons contributing to conflicts:***

*Could not get a table. Had to wait for people to leave.*

*Cow manure at shoreline.*

*Driving too fast in campground.*

*Drunks.*

*Drunken disorderly behavior.*

*Lack of etiquette. Boating too fast in areas where swimmers are.*

*Mostly after 10pm. Need some regulation regarding loud speakers mounted on boats. Loud noises across lake. Especially boat renters can create occasional nuisances. Friday nights seem the worst nights.*

*Alcoholic behavior abounding.*

*Music volume too high on lake.*

*People will swim over and get on your boat without permission. Earlier experience with drunken campers swimming over to ask for access to docks, slides, etc.*

*Pot smokers in women's restroom aren't acceptable.*

*Speeding PWCs that were rented. We were run out of cove.*

*Tried to pick fights when we asked other campers to please be quiet.*

*Vomiting.*

### Perceptions of Crowding

When asked to rate the level of crowding at Fleming Meadows, the majority of visitors perceived Fleming Meadows as not at all crowded (Table 5.6-24). A substantial portion of visitors at each recreation site also thought the question was not applicable.

**Table 5.6-24. Perceptions of crowding at Fleming Meadows.**

Location/Area	Not at all Crowded		Slightly Crowded		Moderately Crowded		Extremely Crowded		Not Applicable	
	N	%	N	%	N	%	N	%	N	%
Camping area	105	40.6	17	6.6	6	2.4	2	.8	129	49.8
Shoreline camping area	54	21.1	8	3.1	1	.4	2	.8	192	74.7
Picnic area	97	37.9	9	3.5	2	.8	2	.8	146	57.0
Boat launch	139	53.3	18	6.9	11	4.2	3	1.2	90	34.5
Trail	91	37.2	3	1.2	0	.0	1	.4	164	63.3
Trailhead	69	27.0	3	1.2	0	.0	1	.4	182	71.4
Other shoreline area	161	63.4	9	3.6	2	.8	2	.8	80	31.5
Water surface	180	68.7	12	4.5	12	4.5	2	.8	56	21.4
Other	10	22.2	0	.0	1	2.2	4	8.9	30	66.7
<i>Campsites are small but we knew all campers around us.</i>										
<i>Crowding around houseboat rental.</i>										
<i>Renters of jet skis on lake.</i>										
<i>Restroom.</i>										
<i>Restrooms limited to one toilet in men's and only 2 for women's.</i>										

### Recreation Behavior Modification

Based on their perceptions of crowding, visitors were asked if they modified their behavior as a result of feeling crowded. As reported earlier, a majority of visitors did not feel crowded. However, among those who did feel crowded, a majority said they did not modify their recreation behavior (Table 5.6-25). Visitors that did modify their behavior generally moved to a new location (Table 5.6-26).

**Table 5.6-25. Number of visitors by site who modified recreation behavior because they felt crowded, Fleming Meadows.**

Modification	N	Percentage
Yes	14	5.4
No	37	14.2
Did Not Feel Crowded	209	80.4
<b>Total</b>	<b>260</b>	<b>100.0</b>

**Table 5.6-26. Behavior modification of visitors who felt crowded, Fleming Meadows.**

Modification	N	Percentage
Moved to a new location	9	50.0
Changed the time of day	2	11.1
Choose not to recreate	1	5.6
Did nothing	2	11.1
Other	4	22.2
<b>Total</b>	<b>18</b>	<b>100.0</b>

### **Recreating at Preferred Location**

The majority of visitors (92 percent) to Fleming Meadows indicated they were recreating at their preferred location (Table 5.6-27). However, there were some visitors who generally could not utilize a preferred site due to sites being full and other varied reasons. (Tables 5.6-27 and 5.6-28).

**Table 5.6-27. Number of visitors recreating at preferred location at, Fleming Meadows.**

Preferred location	N	Percentage
Yes	243	94.2
No	15	5.8
<b>Total</b>	<b>258</b>	<b>100.0</b>

**Table 5.6-28. Preferred locations and why they were unable to recreate there at, Fleming Meadows.**

Preferred Location	Reason Unable to Recreate at Preferred Location
A-34	Full/Reserved
A-47	Full/Reserved
Any picnic table	No tables
Cove near Jenkins Hill	Water level is too low
D area	Full/Reserved
Fleming Meadows	No water in sections that we used last year
H-5	H-5 has a flatter parking spur and campground
H-84	Full/Reserved
Houseboat	Cove already occupied
Melones	Just for fun
Site 26	Phone reservation staff confused us on actual campsite assigned and wasn't helpful

### **Safety**

Visitors were asked if there were any locations at Fleming Meadows where they felt unsafe. The majority of visitors indicated they felt safe at the reservoir (Table 5.6-29). Among those who did feel unsafe, the reasons were wild animals, other items, other visitors behavior and locations identified by respondents (Tables 5.6-30 through 32).

**Table 5.6-29. Number of visitors who perceived locations as unsafe at, Fleming Meadows.**

Unsafe location	N	Percentage
Yes	39	14.9
No	223	85.1
<b>Total</b>	<b>258</b>	<b>100.0</b>

**Table 5.6-30. Why visitors felt unsafe by site, Fleming Meadows.**

Wild Animals		Speeding boats/PWC		Unattended Campfires		Firearm Discharge		Unleashed Dogs		Speeding Vehicles		Other		Other visitors behavior	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
16	6.1	4	1.5	3	1.1	0	.0	1	.4	4	1.5	15	5.7	10	3.8

**Table 5.6-31. Other reasons why visitors felt unsafe at, Fleming Meadows.**

<b>Other Reasons</b>
Check in is too slow
Concerned about marina walkway. Our daughter almost fell through. Railings to marina need to be improved for barriers for small kids.
Insufficient lighting in campground loop area
Insufficient lighting. Roads at night too dark. No lights for pedestrians.
Late night/middle night people around marina. Would not feel comfortable walking at night alone or with kids.
Lost child, no protocol.
Marina dock is 12" which is too narrow.
Marina ramp area
No light on breakwater buoy
Other people/drivers
Raccoon.
Snakes
Steep Hills/conditions
The dock is uneven in Fleming Meadows Marina.
<b>Behaviors of Others</b>
Bad boating/Too close
Belligerent and fighting
Concern over campground thefts including gasoline
Congested boat ramp
Drinking and profanity from gang members
Drunkenness
Large group of girls hanging out in the bathroom
Loud radio and language
Rowdy campers

**Table 5.6-32. Unsafe location identified by visitors, Fleming Meadows.**

<b>Unsafe Location</b>
A-80
Anywhere jet skiers speed on entire lake.
At gate-need new system.
At neighboring campsite.
Bathrooms
Campgrounds
Campsite; surrounding weeds and grasses.
Grassy areas.
Group picnic area at Fleming Meadows in the D camping area.
H Loop
Houseboat area
Houseboat marina has no light
Launch ramp
Loop A
Marina walkway
Next to our campsite.
On water-improper driving procedures, drunk and rowdy people at night.
On water.
Private houseboat marina ramp loading and unloading every time.
Raccoons and spiders
Shoreline and trails-rattlesnakes.

<b>Unsafe Location</b>
Snakes in the tall grass and on muddy trails.
Snakes near campsites.
Tent campground in Loop D

### 5.6.2.5 Acceptability Ratings for Condition of Facilities, Access, and Information

Visitors were asked to rate the acceptability of existing conditions related to facilities, access, and information resources. Responses to these questions were analyzed by recreation site areas (i.e., Fleming Meadows, Blue Oaks, Moccasin Point).

#### **Facilities**

The majority of visitors recreating at Fleming Meadows rated the facilities in an acceptable range or did not have an opinion or use the facility (Table 5.6-33). Table 5.6-34 addresses reasons why visitors rated facilities as unacceptable.

**Table 5.6-33 Acceptability ratings of facility conditions, Fleming Meadows.**

Activity	Acceptable		Slightly Acceptable		Neither		Slightly Unacceptable		Unacceptable		No Opinion/ Did Not Use	
	N	%	N	%	N	%	N	%	N	%	N	%
Campsites	108	41.5	19	7.3	2	.8	6	2.3	3	1.2	122	46.9
Camp site parking spur size	95	36.7	26	10.0	0	.0	11	4.2	3	1.2	124	47.9
Picnic sites	109	42.2	18	7.0	4	1.6	4	1.6	3	1.2	120	46.5
Food storage locker	66	25.8	13	5.1	10	3.9	4	1.6	1	.4	162	63.3
Restroom	142	54.4	41	15.7	5	1.9	18	6.9	11	4.2	44	16.9
Potable water	85	33.3	22	8.6	30	11.8	4	1.6	3	1.2	111	43.5
Trash receptacle	169	64.5	31	11.8	10	3.8	4	1.5	6	2.3	42	16.0
Vehicle parking area(s)	206	79.2	23	8.8	4	1.5	7	2.7	6	2.3	14	5.4
Trailer parking area(s)	142	54.8	15	5.8	2	.8	5	1.9	5	1.9	90	34.7
Boat ramp parking area	155	59.8	9	3.5	1	.4	4	1.5	1	.4	89	34.4
Boat launch/take out	153	59.1	6	2.3	2	.8	5	1.9	0	.0	93	35.9
Other	8	13.6	1	1.7	1	1.7	2	3.4	14	23.7	33	55.9
<i>Traffic</i>												
<i>Weeds/flattening</i>												

**Table 5.6-34. Visitor comments regarding facility unacceptable conditions, Fleming Meadows.**

Theme	Unacceptable Facility Condition Comments
Boat Launch/ Dock/Ramp	Access
	Far from water
	On busy days, it would be helpful to have a director at the launch to keep people loading and unloading efficiently and moving their vehicles out of the way more quickly.
	Other boaters do not observe annual pass with the dedicated third lane at the boat launch.
	Otter feces on boat

Theme	Unacceptable Facility Condition Comments
	Ramp walk down needs to be paved at top. It is a hazard. Someone's going to get hurt.
	Too steep, unsafe.
Campsites	Camp sites need drainage for water. It runs through trailer area. Camp site parking spur size needs to be a little longer. Some of the trash receptacles have mice. Mice can get into equipment in the trailer parking area. There's rubbish from people leaving shoreline/banks.
	Feels that taller grasses/weeds need to be flattened as close to shore as possible from campsite. Witnessed snakes in the area.
	Needs to be flatter. Trim grass near campsites.
	Raccoons are taking over campsite in the evening and keep us awake. Ants and flies are excessive. Level picnic areas are needed and empty trash and BBQ pits in between each camp group.
	To walk down to camp site, kid fell on a rock.
	Unlevel sites and all dirt very difficult. Spurs too short and too narrow. Tables too far away from campsite. Toilet seats falling apart. Facility outdated.
	Upgrade BBQ stand
	Campfire pit is too close to motorhome.
Fee	Fees unacceptable for camp visitors/day-use, especially motorcycles. Raised from last year and are too steep
Food Lockers	More ramps in accessible area. Food storage lockers are hard to open. Seats in restrooms are too low for disabled.
Parking	Need to pave parking areas. Vehicles all muddy since lots are unpaved.
	Fire ring too close to RV parking area and propane tank.
	Parking should be for 2 cars. Not enough bathrooms.
	Single car versus trailer should be marked.
Picnic Areas	Shade over picnic table might be nice. sometimes it's hard to get around campground due to people who don't park 100% in their site.
	Level picnic area. More picnic tables and BBQ pits.
Restrooms and Showers	Mirrors. Bench in showers. Light over stools. Too dark at night. Restroom needed soap.
	Restroom faucets leak all the time which is a waste of water.
	Restrooms do not get much attention. Often filthy down by fish cleaning station.
	Restrooms need soap.
	Restrooms need to upkeep with toilet paper; need soap; need showers.
	Restrooms: not enough shower facility, need mirrors replaced, also need toilet seat covers, spray walls and ceilings with pest spray to keep bugs at bay.
	Would like soap in the bathrooms, floor mats and curtains in the showers.
The bathrooms are extremely dirty.	
Trash Management	Dumpsters too far from private marina.
	Need more trash receptacles.
	No adequate place to dispose of biosolids. More even distribution of dumps.
	Too many fishermen leaving trash everywhere
	Trash receptacles-none nearby
Water	Keep an eye on water cleanliness of the lagoon.

### Access

When asked about access conditions at Fleming Meadows, the majority of visitors reported that access conditions were acceptable (Table 5.6-35). Visitors provided reasons for unacceptable ratings on access conditions in Table 5.6-36.



**Table 5.6-35. Acceptability ratings of access conditions at Fleming Meadows.**

Activity	Acceptable		Slightly Acceptable		Neither		Slightly Unacceptable		Unacceptable		No Opinion/ Did Not Use	
	N	%	N	%	N	%	N	%	N	%	N	%
Width of roads within the site	218	82.9	25	9.5	4	1.5	7	2.7	3	1.1	6	2.3
Condition of roads within the site	225	85.9	17	6.5	4	1.5	3	1.1	5	1.9	8	3.1
Foot trails to the shoreline	113	43.1	28	10.7	9	3.4	12	4.6	6	2.3	94	35.9
Foot trails around the shoreline	108	41.4	27	10.3	9	3.4	13	5.0	7	2.7	97	37.2
Signage to the recreation site	199	76.5	17	6.5	7	2.7	6	2.3	6	2.3	25	9.6
Signage from Project to adjacent communities	177	74.1	14	5.9	10	4.2	5	2.1	5	2.1	28	11.7

**Table 5.6-36. Visitor comments regarding unacceptable access conditions.**

Theme	Unacceptable Access Condition Comments
Road Conditions	Roads should be wider.
	Slightly unacceptable due to safety, challenging, need handrails, guardrails on ramp. Need to remove 20 feet off of level and create parallel parking for 25% more spaces. Cut mountain back. Dangerous path, with no steps from group picnic parking.
	Steep/uneven. Scary to walk or park.
	Too narrow, no parking at private houseboat marina. Too dangerous to move over. I personally know another houseboat owner who lost his truck in the lake due to danger of steep ramp. Need more private boundary signs posted.
	Unsafe parking, entering and exiting marina. Way too steep and unsafe.
	Width of roads within the site should be wider with bike/pedestrian lane. Signage to recreation site needs to be better/bigger.
Signage	For new visitors, road signs are too small and infrequent.
	Got lost. Bad signs. Only way we found our way to marina parking lot was by looking it up on Google maps.
	Larger signs on Bards Flat Road
	Need a large sign corner of J59 and Bond Flat Road.
	Need better signage for identifying camping signs. Also need better signage from Bonds Flat
	Should be better/more clear signage coming off the main road.
	Signs to La Grange Road are unacceptable because its so hard to see. Sign should be bigger with better reflective lettering and a sign should be placed well before turnoff on La Grange Road.
Very bad signs. None for C and B.	
Trail Conditions	Grass needs to get cut-snakes.
	Need more trails to and around shoreline. How about some information about restaurants/eateries in the area.
	Same issue with weeds.

## **Information**

When asked about information resources, the majority of visitors to Fleming Meadows indicated that information was acceptable or “no opinion/did not use” (Table 5.6-37). Visitors’ reasons for unacceptable ratings are located in Table 5.6-38.

**Table 5.6-37. Acceptability ratings on information resources, Fleming Meadows.**

Activity	Acceptable		Slightly Acceptable		Neither		Slightly Unacceptable		Unacceptable		No Opinion/ Did Not Use	
	N	%	N	%	N	%	N	%	N	%	N	%
Interpretive/education information	72	27.5	12	4.6	7	2.7	0	.0	3	1.1	168	64.1
Recreation visitor information brochures	71	27.1	8	3.1	9	3.4	1	.4	1	.4	172	65.6
Don Pedro Recreation Agency website	105	39.9	14	5.3	5	1.9	4	1.5	5	1.9	130	49.4
Reservoir water surface elevation information	64	24.5	11	4.2	9	3.4	4	1.5	1	.4	112	65.9
River/stream flow information	49	21.0	7	3.0	6	2.6	3	1.3	2	.9	166	71.2

**Table 5.6-38. Visitor comments regarding unacceptable information conditions.**

Theme	Unacceptable Information Resources Condition
Direction/Water	I especially appreciate the wind/weather information.
	Like to use elevation info.
	Need creek flow information. Would prefer more real-time information and stations.
	Need stocking information.
	No notification about timing of fireworks display, but overall the DPRA website is excellent. Just needed more holiday information. Planned group to view fireworks but dates didn't correlate with July 3rd show. Disappointed!
	Read Modesto Bee for fishing information.
Reservation	4 pm closure for reservations was difficult. No human contact to troubleshoot adding on an extra night. Not convenient. Why not available 7 days?
	Rather talk to a live person
Rules and Regulation	Credit did not show up online at website.
	Raised camp fees, but still no wifi.
Website	Bad directions from website.
	Is website updated? I was not confident.
	Website doesn't tell you when lagoon opens. Wasted a month of pass time.
	Website is great. Like the Don Pedro Rec Agency. Need water temperature information.
	Website should have wind, water temp, lake level, level rising or descending.
	Would like refund capabilities.

### 5.6.2.6 Constraints or Barriers Preventing Desired Recreation

Visitors were asked whether there were any constraints or barriers that prevented them or a member of their group from participating in desired recreation activities at Don Pedro Reservoir. Results indicated that a majority of visitors (91 percent) (Table 5.6-39) to Fleming Meadows did not experience constraints or barriers to their desired recreation. Of those that did experience a

constraint or barrier, reasons were varied, however 9 respondents identified the inability to bring pets as a barrier (Table 5.6-40).

**Table 5.6-39. Constraints or barriers to desired recreation, Fleming Meadows.**

Constraints or Barriers	N	Percentage
Yes	23	8.8
No	239	91.2
<b>Total</b>	<b>262</b>	<b>100.0</b>

**Table 5.6-40. Reasons preventing participation, Fleming Meadows.**

What Prevented Participation	Location
Access for people any age is challenging due to extreme danger/steepness of ramp.	Access ramp.
Bring a dog!	N/A
Can't bring dog.	N/A
Day use area not accessible for family member in a wheelchair.	All day-use except swim lagoon.
During previous trips, lots of boats going over speed limits	N/A
Fees-day-use visits. Dogs-cannot bring little dogs. Perhaps allow dogs in day-use only?	N/A
High weeds/grasses have snakes.	Walking paths, area around campsite.
Inability to more safely within campsite. Too much erosion. Too steep.	Within campground loop.
Lagoon was closed	N/A
Loop D campground public drunken behavior at Fleming Meadows campgrounds, especially D area.	Wanted to camp in tent camping area but occupants at campground highly undesirable to feel safe enough to camp there.
No available tables.	Swim Lagoon
No dogs allowed prevents me from bringing pets	N/A
No handicap ramps at houseboat marina. No ladders to get out of the water at houseboat main. Unsafe for older people. Would not be able to get out of the water if they fell in.	N/A
Not being able to bring dog	Everywhere at Don Pedro
Pets!	N/A
Sheriff is over zealous here. Hardcore patrolling here.	N/A
Some closed gates, but not a problem	N/A
SUP width at the marina.	N/A
Threatening behavior by other campers.	N/A
Too steep for elders at private houseboating access ramp. Older family members no longer able to join us.	Houseboat marina for private owners.
Walking my dogs in recreation area.	N/A
Want to bring my dog.	N/A
We want to bring our pets with us but we cannot.	N/A
Windy	N/A
Would like to bring dog camping	Don Pedro

Notes by Survey/Observation Team:

IN GENERAL—recreational users expressed lots of discontent over animal ban in developed campgrounds, especially at Fleming Meadows.

### 5.6.2.7 Potential New Recreation Improvements

Visitors to Fleming Meadows were asked to rate their preferences for new recreation facility improvements. The vast majority of day-use visitors (Tables 5.6-41) and overnight visitors (Tables 5.6-42) neither preferred nor not preferred any improvements.

### **Camping and Picnic Area Improvements**

The majority of day-use visitors felt that items relative to camp and picnic improvements were not applicable or had no opinion. In general, responses were approximately one-third of respondents at “highly preferred”, one-third at “neither,” and one-third of respondents at “not preferred at all” (Table 5.6-41).

### **Boating Improvements**

The majority of day-use visitors responded “not applicable” or “had no opinion” when asked for boating improvements (i.e., launches, boat-in campsites, boat trailer parking). In general, among responses leaned towards neither improvement on boating facilities (Table 5.6-41).

### **Parking and Other Improvements**

Similar to parking improvements, the majority of day-use visitors felt that items relative to parking and other improvements were not applicable or had no opinion. In general, responses leaned towards neither improvement on parking nor other facility improvement (Table 5.6-41).

**Table 5.6-41. Day use visitors’ preferences for potential new recreation facility improvements at Fleming Meadows.**

Improvement	Highly Preferred		Slightly Preferred		Neither		Slightly Not Preferred		Not Preferred At All		No Opinion/ Not Applicable	
	N	%	N	%	N	%	N	%	N	%	N	%
<b>Camping and Picnic Area Improvements</b>												
Campsites	13	13.4	2	2.1	14	14.4	2	2.1	13	13.4	53	54.6
Group campsites	11	11.3	0	.0	16	16.5	2	2.1	14	14.4	54	55.7
Pull-through parking spurs in campsites	7	7.3	3	3.1	14	14.6	1	1.0	14	14.6	57	59.4
Longer parking spurs in campsites	6	6.3	4	4.2	14	14.6	2	2.1	13	13.5	57	59.4
Group picnic sites	11	11.5	5	5.2	20	20.8	3	3.1	13	13.5	44	45.8
Picnic sites	13	14.0	6	6.5	20	21.5	2	2.2	13	14.0	39	41.9
Restrooms	21	21.6	10	10.3	23	23.7	0	.0	12	12.4	31	32.0
Potable water	11	11.3	2	2.1	24	24.7	2	2.1	13	13.4	45	46.4
Showers	10	10.4	4	4.2	22	22.9	1	1.0	14	14.6	45	46.9
Food storage locker	2	2.1	3	3.2	22	23.4	1	1.1	13	13.8	53	56.4
Trash receptacles	13	13.5	5	5.2	28	29.2	1	1.0	15	15.6	34	35.4
Other	7	23.3	0	.0	0	.0	0	.0	4	13.3	19	63.3
<b>Boating Improvements</b>												
Boat-In campsites	9	9.0	6	6.0	19	19.0	2	2.0	16	16.0	48	48.0
Boat launches	15	15.0	7	7.0	25	25.0	1	1.0	19	19.0	33	33.0
Boat launch lanes	16	16.2	7	7.1	25	25.3	0	.0	19	19.2	32	32.3
Boat trailer parking	16	16.0	9	9.0	22	22.0	0	.0	19	19.0	34	34.0
Other	3	10.3	0	.0	2	6.9	0	.0	6	20.7	18	62.1
<b>Parking and Other Improvements</b>												
Vehicle parking	22	22.0	15	15.0	32	32.0	2	2.0	21	21.0	8	8.0
Trailer parking	12	12.1	14	14.1	27	27.3	1	1.0	21	21.2	24	24.2

Improvement	Highly Preferred		Slightly Preferred		Neither		Slightly Not Preferred		Not Preferred At All		No Opinion/ Not Applicable	
	N	%	N	%	N	%	N	%	N	%	N	%
Accessible fishing pier	14	14.1	7	7.1	25	25.3	3	3.0	22	22.2	28	28.3
Dump station	7	7.1	3	3.0	29	29.3	1	1.0	19	19.2	40	40.4
Foot trails to the shoreline	12	12.0	8	8.0	26	26.0	1	1.0	19	19.0	34	34.0
Foot trails around the shoreline	13	13.0	7	7.0	27	27.0	1	1.0	19	19.0	33	33.0
Signage to the recreation area	6	6.0	5	6.0	36	36.0	2	2.0	27	27.0	24	24.0
Signage within recreation area	7	7.1	5	5.1	35	35.7	2	2.0	26	26.5	23	23.5
Other	5	22.7	1	4.5	0	.0	1	4.5	5	22.7	11	50.0

### **Camping and Picnic Improvements**

The majority of overnight visitors to Fleming Meadows had no opinion with respect to camping and picnic improvements. Approximately one-third of respondents identified campsite, longer spur lengths, restrooms, showers, and trash receptacles as preferred. Approximately one-third of respondents did not have an opinion or felt the improvement was not applicable, and nearly one-third were indifferent with a “neither” response over all (Table 5.6-43).

### **Boating Improvements**

The majority of overnight visitors to Fleming Meadows had no opinion with respect to boating improvements. Among respondents, equally distribute from highly preferred boating improvement to not preferred at all at boating improvement (Table 5.6-42).

### **Parking and Other Improvements**

Overnight visitors’ preferences for parking and other improvements were again split—with a majority replying the question was not applicable, and nearly one-third reporting they had no preference (“neither”) (Table 5.6-42).

**Table 5.6-42. Overnight visitors’ preferences for potential new recreation facility improvements at Fleming Meadows.**

Improvement	Highly Preferred		Slightly Preferred		Neither		Slightly Not Preferred		Not Preferred At All		No Opinion/ Not Applicable	
	N	%	N	%	N	%	N	%	N	%	N	%
<b>Camping and Picnic Area Improvements</b>												
Campsites	45	28.1	25	15.6	27	16.9	4	2.5	20	12.5	39	24.4
Group campsites	25	16.1	14	9.0	28	18.1	2	1.3	24	15.5	62	40.0
Pull-through parking spurs in campsites	26	16.5	18	11.4	40	25.3	2	1.3	18	11.4	54	34.2
Longer parking spurs in campsites	31	19.6	20	12.7	37	23.4	2	1.3	18	11.4	50	31.6

Improvement	Highly Preferred		Slightly Preferred		Neither		Slightly Not Preferred		Not Preferred At All		No Opinion/ Not Applicable	
	N	%	N	%	N	%	N	%	N	%	N	%
Group picnic sites	14	8.9	17	10.8	41	26.1	3	1.9	21	13.4	61	38.9
Picnic sites	23	14.6	17	10.8	41	26.1	2	1.3	21	13.4	53	33.8
Restrooms	56	35.2	29	18.2	27	17.0	2	1.3	22	1.38	23	14.5
Potable water	21	13.1	18	11.3	57	35.6	2	1.3	17	10.6	45	28.1
Showers	42	26.3	26	16.3	29	18.1	3	1.9	18	11.3	42	26.3
Food storage locker	19	11.9	16	10.1	41	25.8	2	1.3	25	15.7	56	35.2
Trash receptacles	30	18.9	34	21.4	40	25.2	1	.6	26	16.4	28	17.6
Other	20	40.8	2	4.1	3	6.1	0	.0	5	10.2	19	38.8
<b>Boating Improvements</b>												
Boat-In campsites	24	14.9	10	6.2	19	11.8	1	.6	21	13.0	86	53.4
Boat launches	26	16.1	16	9.9	42	26.1	2	1.2	27	16.8	48	29.8
Boat launch lanes	26	16.1	14	8.7	45	28.0	2	1.2	26	16.1	48	29.8
Boat trailer parking	24	14.9	14	8.7	45	28.0	3	1.9	26	16.1	49	30.4
Other	5	11.6	3	7.0	6	14.0	0	.0	3	7.0	26	60.5
<b>Parking and Other Improvements</b>												
Vehicle parking	33	20.6	24	15.0	49	30.6	3	1.9	32	20.0	19	11.9
Trailer parking	29	18.1	16	10.0	44	27.5	2	1.3	30	18.8	39	24.4
Accessible fishing pier	22	13.9	15	9.5	40	25.3	2	1.3	24	15.2	55	34.8
Dump station	19	11.9	17	10.7	44	27.7	1	.6	24	15.1	54	34.0
Foot trails to the shoreline	25	15.8	25	15.8	35	22.2	1	.6	20	12.7	52	32.9
Foot trails around the shoreline	24	15.0	25	15.6	36	22.5	1	.6	20	12.5	54	33.8
Signage to the recreation area	24	15.0	18	11.3	58	36.3	2	1.3	28	17.5	30	18.8
Signage within recreation area	22	13.8	15	9.4	60	37.7	2	1.3	29	18.2	31	19.5
Other	10	26.3	2	5.3	5	13.2	0	.0	5	13.2	16	42.1

### 5.6.3 Blue Oaks Recreation Area

#### 5.6.3.1 Recreation Visitors and Their Trip Characteristics

Slightly more than half of users at Blue Oaks stayed overnight (Table 5.6-43).

**Table 5.6-43. Type of visitor use at Blue Oaks.**

Type of Visitor	N	Percentage
Day-Use	89	51.4
Overnight	84	48.6
<b>Total</b>	<b>173</b>	<b>100.0</b>

Among day-use visitors, the majority were male (83 percent), of white ethnicity (81 percent), spoke English as their primary language (97 percent), and averaged 50 years old in age (Table 5.6-44). Nearly half of visitors surveyed were from Stanislaus County, with some representation from San Joaquin and Merced, and a host of other Central Valley counties, with a few Bay Area counties represented (Table 5.6-45).

**Table 5.6-44. Socio-demographic characteristics of day-use visitors at Blue Oaks.**

Characteristic				
Age	Mean	Std. Deviation	Minimum	Maximum
	50.28	13.93	22	76
Gender	N		Percentage	
Male	74		83.1	
Female	15		16.9	
<b>Total</b>	<b>89</b>		<b>100.0</b>	
Ethnicity	N		Percentage	
White	71		80.8	
Hispanic or Latino	5		5.7	
Spanish Hispanic or Latino	4		4.5	
Other	4		4.5	
American Indian/Alaskan Native	2		2.3	
Black/African-American	1		1.1	
Native Hawaiian or other Pacific Islander	1		1.1	
<b>Total</b>	<b>88</b>		<b>100.0</b>	
Primary Language	N		Percentage	
English	86		96.6	
Spanish	2		2.2	
English and Portuguese	1		1.1	
<b>Total</b>	<b>89</b>		<b>100.0</b>	

**Table 5.6-45. County of residence for day-use visitors at Blue Oaks.**

County	N	Percentage
Stanislaus	42	47.2
San Joaquin	18	20.2
Merced	11	12.4
Tuolumne	4	4.5
Alameda	2	2.2
Calaveras	2	2.2
Sacramento	2	2.2
Fresno	1	1.1
Kings	1	1.1
Lake	1	1.1
Mariposa	1	1.1
San Mateo	1	1.1
Santa Cruz	1	1.1
Tulare	1	1.1
Yolo	1	1.1
<b>Total</b>	<b>89</b>	<b>100.0</b>

Among overnight visitors, there was a slightly higher number of male respondents (56 percent) versus female, with a majority of white ethnicity (74 percent), who spoke English as their primary language (93 percent), and had an average age of nearly 39 years (Table 5.6-46). Approximately one-fourth of respondents visited from Stanislaus County, with some representation from Bay Area counties of Alameda, Santa Clara, and other Central Valley counties represented (Table 5.6-47).

**Table 5.6-46. Socio-demographic characteristics of overnight visitors at Blue Oaks.**

Characteristic				
Age	Mean	Std. Deviation	Minimum	Maximum
		38.83	11.62	18
Gender		N	Percentage	
Male		47	56.0	
Female		37	44.0	
<b>Total</b>		<b>84</b>	<b>100.0</b>	
Ethnicity		N	Percentage	
White		62	73.8	
Hispanic or Latino		10	11.9	
Asian		4	4.8	
Native Hawaiian or other Pacific Islander		3	3.6	
American Indian/Alaskan Native		2	2.4	
Black/African-American		2	2.4	
Spanish Hispanic or Latino		1	1.2	
<b>Total</b>		<b>84</b>	<b>100.0</b>	
Primary Language		N	Percentage	
English		77	92.8	
Spanish		3	3.6	
Tagalog		1	1.2	
English and Spanish		1	1.2	
Hungarian		1	1.2	
<b>Total</b>		<b>83</b>	<b>100.0</b>	

**Table 5.6-47. County of residence for overnight visitors at Blue Oaks.**

County	N	Percentage
Stanislaus	23	27.4
Santa Clara	12	14.3
Alameda	11	13.1
San Joaquin	10	11.9
Contra Costa	8	9.5
Solano	4	4.8
Los Angeles	2	2.4
Orange	2	2.4
San Francisco	2	2.4
San Mateo	2	2.4
Tulare	2	2.4
Jackson	1	1.2
Kings	1	1.2
Merced	1	1.2
San Bernardino	1	1.2
Santa Cruz	1	1.2
Ventura	1	1.2
<b>Total</b>	<b>84</b>	<b>100.0</b>

Day-use visitors arrived at Blue Oaks between the hours of 02:00 and 15:00, and departed between 09:00 and 21:00. They stayed, on average 6 hours at Blue Oaks, with the majority of day-use visitors visiting on a regular basis (Table 5.6-48).



**Table 5.6-48. Day-use visitor trip characteristics at Blue Oaks.**

Characteristic			
Length of Stay	Mean	Minimum	Maximum
Number of hours	6.01	2:00	14:00
Time	Mean	Earliest	Latest
Time of arrival	08:20	02:00	15:00
Time of departure	14:22	09:00	21:00
Historical Information		N	Percentage
Regular Visitor		76	85.4
Occasional Visitor		4	4.5
Infrequent Visitor		4	4.5
This is my first visit		5	5.6
<b>Total</b>		<b>89</b>	<b>100.0</b>

Overnight visitors stayed, on average, 3 days at Blue Oaks, with the majority visiting on regular and an occasional basis. Overnight visitors generally arrive and depart early afternoon (1-230 p.m.), however of arrival and departure times were well dispersed throughout the day (Table 5.6-49).

**Table 5.6-49. Overnight visitor trip characteristics at Blue Oaks.**

Characteristic			
Length of Stay	Mean	Minimum	Maximum
Number of days	3.29	1	35
Time	Mean	Earliest	Latest
Time of arrival	14:26	05:00	23:00
Time of departure	12:55	10:00	20:00
Historical Information		N	Percentage
Regular Visitor		37	44.6
Occasional Visitor		23	27.7
Infrequent Visitor		7	8.4
This is my first visit		16	19.3
<b>Total</b>		<b>83</b>	<b>100.0</b>

When asked about overnight accommodations, the majority of overnight respondents reported staying at an RV Park or Campground (Table 5.6-50).

**Table 5.6-50. Where overnight visitors stayed at Blue Oaks.**

Location	N	Percentage
RV Park or Campground	66	78.6
Houseboat owned	12	14.3
Dispersed Shoreline Camping at Don Pedro Reservoir (permit required)	3	3.6
Other	3	3.6
<b>Total</b>	<b>84</b>	<b>100.0</b>

Day-use visitors to Blue Oaks recreation area reported recreating primarily with a combination of friends and family (Table 5.6-51). On average, day-use visitors traveled with nearly 3 adults and 1 child, 1 vehicle, and recreation equipment including a boat less than 15 horsepower, and trailer, and some water recreation gear (Table 5.6-52)

**Table 5.6-51. Day use visitors' type of recreation group at Blue Oaks.**

Type of Group	N	Percentage
Alone	14	15.7
Friends	27	30.3
Family	12	13.5
Family and Friends	34	38.2
Organized Group Outing	1	1.1
Other	1	1.1
<b>Total</b>	<b>89</b>	<b>100.0</b>

**Table 5.6-52. Number of people, vehicles, boats, and water-related equipment included in day-use groups' current trip at Blue Oaks.**

Person/Item	Mean	Minimum	Maximum
Adults	2.56	1	20
Children	.61	0	7
Vehicles	1.29	0	10
Boat/PWC/Raft Trailers	.70	0	7
Tents	.04	0	3
<15 hp Powerboats	.03	0	1
>15 hp Powerboats	.69	0	7
PWCs	.02	0	2
Canoes/Kayaks	.02	0	1
Fishing Tubes	.04	0	3
Skis, wakeboard, other tow-behind toys	.25	0	5

Overnight visitors to Blue Oaks reported primarily recreating with family and friends, or family (Table 5.6-53). The average number of adults is larger than day-use visitors, at nearly 10 adults and 8 children, utilizing an average of 4 vehicles, 4 tents, and a powerboat less than 15 hp (Table 5.6-54). RVs and Camper Trailers averaged 24 feet in length.

**Table 5.6-53. Overnight visitors' type of recreation group at Blue Oaks.**

Type of Group	N	Percentage
Friends	12	14.3
Family and Friends	34	40.5
Family	28	33.3
Multiple Families	1	1.2
Organized Group Outing	8	9.5
Other	1	1.2
<b>Total</b>	<b>84</b>	<b>100.0</b>

**Table 5.6-54. Number of people, vehicles, boats, and water-related equipment included in overnight groups' current trip at Blue Oaks.**

Person/Item	Mean	Minimum	Maximum
Adults	9.58	1	80
Children	8.42	0	200
Vehicles	4.12	0	35
Boat/PWC/Raft Trailers	1.30	0	15
RVs or Campers	.40	0	10
Length of RVs or Campers	24.21	12	39
Camper Trailers	.06	0	1

Person/Item	Mean	Minimum	Maximum
Length of Camper Trailers	24.40	10	40
Tents	4.05	0	50
<15 hp Powerboats	.08	0	2
>15 hp Powerboats	1.13	0	15
PWCs	.23	0	3
Canoes/Kayaks	.11	0	5
Fishing Tubes	.02	0	1
Skis, wakeboard, other tow-behind toys	1.62	0	50
Other	.40	0	15

### **Recreation Activity Participation**

Visitors to Blue Oaks were asked to indicate which activities they participated in during their visit. Responses were analyzed by day-use and overnight visitor type where applicable.

Day-use visitors participated in a variety of recreational activities, with a large interest in fishing, and wildlife viewing. Visitors identified some interest in flatwater motorized boating, swimming, hiking or walking, waterskiing, and picnicking (Table 5.6-55).

**Table 5.6-55. Activity participation of day-use visitors at Blue Oaks.**

Activity	N	Percentage
Fishing	73	82.0
Wildlife viewing (e.g. birding)	34	38.2
Flat-water, motorized boating	21	23.6
Swimming	11	12.4
Hiking or walking	9	10.1
Wakeboarding	8	9.0
Water skiing	8	9.0
Picnicking	7	7.9
Other tow-behind toys	5	5.6
Houseboating	4	4.5
Camping	3	3.4
River/stream boating (e.g. raft, kayak, canoe)	3	3.4
Other	2	2.2
Personal watercraft use (e.g. jetskiing)	2	2.2
Driving for pleasure	2	2.2
Mountain biking	1	1.1

\*Visitors could check more than one activity.

The majority of day-use visitors identified their primary activity as fishing (79 percent) (Table 5.6-56).

**Table 5.6-56. Day use visitors' primary recreation activity for current visit to Blue Oaks.**

Activity	N	Percentage
Fishing	70	79.5
Water Sports	5	5.7
Boating	4	4.5
Boat Maintenance	2	2.2
Houseboating	2	2.2

Activity	N	Percentage
Swimming	1	1.1
PWC	1	1.1
Relaxing/Jet Ski	1	1.1
Relax	1	1.1
Fishing/Picnic	1	1.1
<b>Total</b>	<b>88</b>	<b>100.0</b>

The primary recreational activities identified by overnight visitors were camping, followed by swimming, hiking or walking, and picnicking (Table 5.6-57). Fishing, flat-water motorized boating, wildlife viewing, wakeboarding, and waterskiing were also identified by overnight respondents.

**Table 5.6-57. Activity participation of overnight visitors at Blue Oaks.**

Activity	N	Percentage
Camping	69	82.1
Swimming	66	78.6
Hiking or walking	56	66.7
Picnicking	46	54.8
Flat-water, motorized boating	45	53.6
Fishing	43	51.2
Wildlife viewing (e.g. birding)	42	50.0
Wakeboarding	31	36.9
Water skiing	23	27.4
Other tow-behind toys	22	26.2
Personal watercraft use (e.g. jetskiing)	12	14.3
Other	12	14.3
Houseboating	11	13.1
Flat-water, non-motorized (e.g. kayak, canoe)	4	4.8
Mountain biking	3	3.6
Driving for pleasure	1	1.2
River/stream boating (e.g. raft, kayak, canoe)	1	1.2

\*Visitors could check more than one activity.

For overnight visitors to Blue Oaks, camping was the most prominent activity identified (Table 5.6-58). Camping, houseboating, and boating were amongst the other primary recreational activities identified by overnight respondents.

**Table 5.6-58. Overnight visitors' primary activity at Blue Oaks.**

Activity	N	Percentage
Camping	33	40.1
Houseboating	9	11.0
Boating	8	9.8
Fishing	5	6.1
Boating/Camping	5	6.1
Relax	4	4.9
Water Sports	3	3.7
Swimming	2	2.4
Camping/Water Sports	2	2.4
Camping/Boating/Fishing	1	1.2
Church Group	1	1.2

Activity	N	Percentage
PWC	1	1.2
Camping/Fireworks	1	1.2
Fireworks/Family	1	1.2
Boating/Relaxing	1	1.2
Outdoor Fun	1	1.2
Camping/Swimming	1	1.2
Fireworks/Relaxing	1	1.2
Camping/Swimming	1	1.2
Home/Residence	1	1.2
<b>Total</b>	<b>82</b>	<b>100.0</b>

### **How Visitors Learned About Blue Oaks Recreation Area**

The majority of Blue Oaks visitors surveyed learned about the recreation area through word of mouth (Table 5.6-59).

**Table 5.6-59. How visitors learned about the recreation area at Blue Oaks.**

Source	N	Percentage
Word of Mouth	131	75.7
Internet	8	4.6
Other	46	26.6

#### 5.6.3.2 Visitor Preferences and Expectations

### **Reservoir Water Level**

Visitors to Blue Oaks were asked to indicate whether the level of the reservoir was a problem for a variety of different activities. For both overnight and day-use visitors, the level of the reservoir was perceived as generally not a problem for different types of activities. The vast majority of visitors reported the reservoir level was either “not a problem” or checked “no opinion/not applicable” (Table 5.6-60).

**Table 5.6-60. Perceptions of water levels as a problem for different types of activities at Blue Oaks.**

Activity	Not a Problem		A Small Problem		Neither		A Moderate Problem		A Large Problem		No Opinion/ Not Applicable	
	N	%	N	%	N	%	N	%	N	%	N	%
Ability to use beach area	64	35.6	10	6.0	4	2.4	12	7.2	10	6.0	66	39.8
Ability to safely swim	67	39.4	6	3.5	6	3.5	8	4.7	3	1.8	80	47.1
Ability to launch or take out boat	109	64.1	9	5.3	5	2.9	5	2.9	1	.6	41	24.1
Ability to safely boat	109	64.5	7	4.1	5	3.0	5	3.0	2	1.2	41	24.3
Ability to utilize trails	42	25.1	7	4.2	6	3.6	4	2.4	3	1.8	105	62.9
Ability to access shoreline campgrounds	20	11.9	8	4.8	5	3.0	3	1.8	2	1.2	130	77.4
Ability to fish along the shoreline	83	48.5	12	7.0	6	3.5	6	3.5	1	0.6	63	36.8

Activity	Not a Problem		A Small Problem		Neither		A Moderate Problem		A Large Problem		No Opinion/ Not Applicable	
	N	%	N	%	N	%	N	%	N	%	N	%
Ability to access the shoreline	99	58.6	12	7.1	6	3.6	16	9.5	6	3.6	30	17.8
Scenic quality of shoreline	115	66.9	23	13.4	7	4.1	14	8.1	7	4.1	6	3.5
Other	5	16.1	0	0.0	2	6.5	2	6.5	7	22.6	15	48.4

### 5.6.3.3 Conflict, Crowding, Safety

Visitors were asked a series of questions to assess their perceptions of crowding, conflict, and safety while recreating at Blue Oaks. Responses to these questions were evaluated for each recreation area.

#### Conflict

Nine percent of visitors to recreation sites within Blue Oaks Recreation Area experienced negative interactions with other recreationists (Table 5.6-61). The type of negative conflict was motorized boater and camper with proximity and rowdiness. Of those that did experience negative interactions, site locations where these occurred included the boat launch and picnic area (Table 5.6-62).

**Table 5.6-61. Number of visitors who experienced a negative interaction with other recreationists at Blue Oaks.**

Conflict	N	Percentage
Yes	16	9.3
No	156	90.7
<b>Total</b>	<b>172</b>	<b>100.0</b>

**Table 5.6-62. Type of negative conflict visitors experienced with other recreationists at Blue Oaks.**

Type of Recreationist	Proximity to Where We Were		Rowdiness		Loudness		Other	
	N	%	N	%	N	%	N	%
Motorized Boater	4	50.0	1	33.3	0	0.0	5	41.7
Camper	3	37.5	2	66.7	6	85.7	7	58.3
Unsure	1	12.5	0	0.0	1	14.3	0	0.0
<b>Total</b>	<b>8</b>	<b>100.0</b>	<b>3</b>	<b>100.0</b>	<b>7</b>	<b>100.0</b>	<b>12</b>	<b>100.0</b>

#### Perceptions of Crowding

When asked to rate the level of crowding at Blue Oaks, the majority of visitors perceived the area as not at all crowded (Table 5.6-63). A substantial portion of visitors at each recreation site also thought the question was not applicable.

**Table 5.6-63. Perceptions of crowding at Blue Oaks.**

Location/Area	Not at all Crowded		Slightly Crowded		Moderately Crowded		Extremely Crowded		Not Applicable	
	N	%	N	%	N	%	N	%	N	%
Camping area	68	40.0	4	2.4	4	2.2	1	0.6	93	54.7
Shoreline camping area	31	18.4	2	1.2	2	1.2	1	0.6	133	78.7
Picnic area	55	32.6	5	3.0	1	0.6	0	0.0	108	63.9
Boat launch	115	66.4	11	6.3	7	4.1	2	1.2	38	22.0
Trail	53	31.2	3	1.8	0	0.0	0	0.0	114	67.1
Trailhead	41	24.3	3	1.8	0	0.0	0	0.0	125	74.0
Other shoreline area	105	61.7	6	3.5	2	1.2	1	0.6	56	32.9
Water surface	124	70.5	11	6.4	4	2.4	2	1.2	30	17.5
Other	7	33.4	2	9.6	0	0.0	0	0.0	12	57.1

### **Recreation Behavior Modification**

Based on their perceptions of crowding, visitors were asked if they modified their behavior as a result of feeling crowded. As reported earlier, a majority of visitors did not feel crowded. However, among those who did feel crowded, most said they did not modify their recreation behavior (Table 5.6-64). Visitors that did modify their behavior generally moved to a new location and chose not to recreate (Table 5.6-65).

**Table 5.6-64. Number of visitors who modified recreation behavior because they felt crowded, Blue Oaks.**

Modification	N	Percentage
Yes	4	2.3
No	18	10.4
Did Not Feel Crowded	151	87.3
<b>Total</b>	<b>173</b>	<b>100.0</b>

**Table 5.6-65. Behavior modification of visitors who felt crowded, Blue Oaks.**

Modification	N	Percentage
Moved to a new location	2	33.3
Changed the time of day	1	16.7
Choose not to recreate	2	33.3
Did nothing	1	16.7
Other	--	--
<b>Total</b>	<b>6</b>	<b>100.0</b>

### **Recreating at Preferred Location**

The majority of visitors (88 percent) to Blue Oaks indicated they were recreating at their preferred location (Table 5.6-66). However, there were some visitors who generally could not utilize a preferred site due to it being occupied or full (Table 5.6-67).

**Table 5.6-66. Number of visitors recreating at preferred location by site, Blue Oaks.**

Preferred Location	N	Percentage
Yes	153	88.4
No	20	11.6
<b>Total</b>	<b>173</b>	<b>100.0</b>

**Table 5.6-67. Preferred locations and why respondents were unable to recreate there, Blue Oaks.**

Preferred Location	Reason Unable to Recreate at Preferred Location
C17	Full/Reserved
C-25	Full/Reserved
Closer to water	Full/Reserved
D loop, but already closed.	Closed
Fleming Meadow	Crowded, Full/Reserved, Inconvenient from camping site.
Fleming Meadow	Crowded
Group Campsite	Full/Reserved
H8 or C-24	Full/Reserved
Moccasin Point	Want to try something new
Shoreline campgrounds	Full/Reserved
Trailer Park	Couldn't get trailer in without falling off road.

## Safety

Visitors were asked if there were any locations at Blue Oaks where they felt unsafe. The majority of visitors (89 percent) indicated they felt safe at the reservoir (Table 5.6-68). Among the very small amount of those who did feel unsafe, the reasons varied between wild animals, boats, other visitors, and trash, etc. (Tables 5.6-69 through 71).

**Table 5.6-68. Number of visitors who perceived locations as unsafe by site, Blue Oaks.**

Unsafe location	N	Percentage
Yes	18	10.5
No	153	89.5
<b>Total</b>	<b>171</b>	<b>100.0</b>

**Table 5.6-69. Why visitors felt unsafe by site, Blue Oaks.**

Wild Animals		Speeding boats/PWC		Unattended Campfires		Firearm Discharge		Unleashed Dogs		Speeding Vehicles		Other		Other visitors behavior	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
7	4.1	7	4.1	0	0.0	0	0.0	0	0.0	2	1.2	10	5.8	5	2.9

**Table 5.6-70. Additional visitor comments regarding safety, Blue Oaks.**

Other Reasons
Glass and trash on shoreline.
Launching boats
On water, there are submerged objects and underwater trees.
Rattlesnakes
Snakes
Steepness and tree growth along shoreline and tree roots.



<b>Behaviors of Others</b>
Drunk campers in large groups.
Inconsiderate campers
Language and rowdiness
Others coming onto our houseboat
Stranded jet-skiers in water. I've picked up very young children off water with no parental supervision.

**Table 5.6-71. Unsafe locations identified by visitors, Blue Oaks.**

<b>Unsafe Locations</b>
At campsite.
Blue Oaks bathroom at entrance-parking on the hill.
Boats were yelling at them through mics.
Campground C
Just beyond buoy line
Near tent camps next to bathrooms
Nearby campers.
North shoreline area.
On lake
On water.
Private houseboat marina and Fleming Meadows boat launch lanes
Swimming areas and trails

#### 5.6.3.4 Acceptability Ratings for Condition of Facilities, Access, and Information

Visitors were asked to rate the acceptability of existing conditions related to facilities, access, and information resources. Responses to these questions were analyzed by recreation area.

### **Facilities**

The majority of visitors recreating at Blue Oaks rated the facilities in an acceptable range or did not have an opinion or use the facility (Table 5.6-72). Table 5.6-73 addresses reasons why respondents found facilities unacceptable.

**Table 5.6-72. Acceptability ratings of facility conditions, Blue Oaks.**

Activity	Acceptable		Slightly Acceptable		Neither		Slightly Unacceptable		Unacceptable		No Opinion/ Did Not Use	
	N	%	N	%	N	%	N	%	N	%	N	%
Campsites	62	36.5	11	6.5	4	2.4	0	0.0	2	1.2	91	53.5
Camp site parking spur size	59	34.7	7	4.1	6	3.5	3	1.8	3	1.8	92	54.1
Picnic sites	64	37.9	7	4.1	7	4.1	1	0.6	0	0.0	90	53.3
Food storage locker	36	21.2	14	8.2	7	4.1	3	1.8	2	1.2	108	63.5
Restroom	89	51.7	26	15.1	8	4.7	11	6.4	9	5.2	29	16.9
Potable water	50	29.8	11	6.5	33	19.6	0	0.0	0	0.0	74	44.0
Trash receptacle	113	66.5	18	10.6	9	5.3	2	1.2	3	1.8	25	14.7
Vehicle parking area(s)	132	76.7	14	8.1	4	2.3	7	4.1	4	2.3	11	6.4
Trailer parking area(s)	98	57.6	14	8.2	3	1.8	6	3.5	3	1.8	46	27.1
Boat ramp parking	107	62.2	13	7.6	5	2.9	5	2.9	4	2.3	38	22.1

Activity	Acceptable		Slightly Acceptable		Neither		Slightly Unacceptable		Unacceptable		No Opinion/ Did Not Use	
	N	%	N	%	N	%	N	%	N	%	N	%
area												
Boat launch/take out	99	57.6	14	8.1	3	1.7	6	3.5	3	1.7	47	27.3
Other	7	20.0	0	0.0	2	5.7	0	0.0	11	31.4	15	42.9
<i>Dike Trail</i>												
<i>Fish Cleaning</i>												
<i>Fish grinder</i>												
<i>Need lighting on walkway of marina</i>												
<i>Need a new fish cleaning station garbage disposal.</i>												
<i>Pumpout time</i>												

**Table 5.6-73. Visitor comments regarding unacceptable facility conditions, Blue Oaks.**

Theme	Unacceptable Facility Condition Comments
Boat Launch/ Dock Ramp/Marina	Don't like that we have to wait as lower priority to houseboat renter's pumpout
	Need to improve all boat launch parking area. Should be wider.
	Needs to be straightened at launch. Tires can slide off.
	Not light at top of houseboat marina
	Takes too long at entrance gate. Staff is nice but too long to wait.
	Too dangerous at launch as lake is too low.
Campsites/ Picnic Area	No high charcoal pit for cooking.
	Rubbish around campsite
Parking	Camp site parking spur size is not long enough. In the picnic sites, the campfire pit is too close to parking with propane.
	Hard to back in and out of parking space with trailer
	It's unpaved. Boat ramp parking should have a waiting area for people (benches, trash) while people are waiting for boat loading and unloading.
	Parking doesn't fit 2 vehicles.
	Shouldn't have a handicapped parking spot at ramp.
	Vehicle parking areas need repair
Restrooms and Showers	Cleaning turnover could be better in restrooms. Trash receptacles could be emptied/serviced more often.
	Everything in bathroom was wet-toilet seats, toilet paper, everything.
	More showers and restrooms on the other side.
	Need closer restrooms to shoreline at boat ramp
	Need more bathrooms, toilets, and showers with group site.
	Need restroom near launch
	Plumbing in women's restroom sinks were clogged. And the shower in men's restroom clogged.
	Prefer closer access and nearby restroom to shoreline fishing.
	Rattlesnakes access restrooms, overflow urinals, toilets and broken plumbing.
	Restrooms flooded and filthy. No toilet paper in several stalls.
	Restrooms were clogged/nonflushing in campsite.
Restrooms were dirty and needed seat covers, soap, and toilet paper. Food storage locker was dirty.	
Toilet didn't flush in Blue Oaks women's restroom in the first stall.	
Toilet paper and cleanliness.	
Trash Management	Lots of floating trash on the reservoir
	Overflowing garbage and recycling containers. Overflowing BBQ pits. Ashes need removal.

Theme	Unacceptable Facility Condition Comments
Water/Fishing	Jammed up when I was cleaning fish.
	Station was stuffed with bass; unclean.

### Access

When asked about access conditions at Blue Oaks, the majority of visitors reported that access conditions were acceptable (Table 5.6-74). Visitors provided reasons for unacceptable ratings on access conditions (Table 5.6-75).

**Table 5.6-74. Acceptability ratings of access conditions, Blue Oaks.**

Activity	Acceptable		Slightly Acceptable		Neither		Slightly Unacceptable		Unacceptable		No Opinion/ Did Not Use	
	N	%	N	%	N	%	N	%	N	%	N	%
Width of roads within the site	142	82.1	16	9.2	1	0.6	6	3.5	2	1.2	6	3.5
Condition of roads within the site	148	86.0	14	8.1	3	1.7	0	0.0	2	1.2	5	2.9
Foot trails to the shoreline	62	36.3	17	9.9	3	1.8	5	2.9	3	1.8	81	47.4
Foot trails around the shoreline	62	36.5	17	10.0	4	2.4	5	2.9	3	1.8	79	46.5
Signage to the recreation site	117	68.4	16	9.4	4	2.3	8	4.7	2	1.2	24	14.0
Signage from Project to adjacent communities	111	76.6	14	9.7	1	0.7	0	0.0	2	1.4	10	6.9

**Table 5.6-75. Visitor comments regarding unacceptable access conditions, Blue Oaks**

Theme	Unacceptable Access Condition Comments
Road Conditions	Roads are not wide enough.
	There isn't enough campsite parking.
	Too narrow. Hard to get in and out.
	Unable to walk down to the beach area. Feel unsafe for family children swimming with boats.
Signage	Difficult to find route to campsite. Not easy to find. Also, need one way signs more easily marked within campgrounds.
	First time we came out, signage was confusing.
	Hard to see signs, especially at night.
	It was hard to find our campsite. The directions painted on roadway are faded.
	Prefer better signs for all roads
	Sign needed from ranger hut to area C.
	Signs to boat launch
	Signs to recreation site should be larger
Trail Conditions	For shore fishing at boat launch, it was rocky to get down to the shore with kids.
	Need to clean up bushes.
	North end grown over
	Ramps need more gravel and rocks. Hard on trailer and equipment to launch and take-out here. Please maintain and upgrade. I cannot hike up steeper Fleming Meadows ramp.
	Too rocky and need more trees.

## **Information**

When asked about information resources, the majority of visitors to Blue Oaks indicated that information was acceptable or for the majority, “no opinion/did not use” (Table 5.6-76). Reasons for unacceptable information ratings were addressed in open-ended responses (Table 5.6-77).

**Table 5.6-76. Visitor acceptability ratings on information resources, Blue Oaks.**

Activity	Acceptable		Slightly Acceptable		Neither		Slightly Unacceptable		Unacceptable		No Opinion/ Did Not Use	
	N	%	N	%	N	%	N	%	N	%	N	%
Interpretive/education information	40	23.3	6	3.5	8	4.7	4	2.3	0	0.0	114	66.3
Recreation visitor information brochures	43	25.0	3	1.7	6	3.5	1	0.6	0	0.0	119	69.2
Don Pedro Recreation Agency website	71	41.3	5	2.9	8	4.7	3	1.7	1	0.6	84	48.8
Reservoir water surface elevation information	43	25.0	2	1.2	9	5.2	2	1.2	2	1.2	114	66.3
River/stream flow information	36	24.8	4	2.8	3	2.1	2	1.4	3	2.1	97	66.9

**Table 5.6-77. Visitor comments regarding unacceptable information conditions, Blue Oaks.**

Theme	Unacceptable Information Resources Condition
Direction/ Water/fishing info	Iron ranger signs are a tad unclear.
	Need more interpretive/education information signs.
	Need water temperature and wind directions added to the DPRA website
	Use the Modesto Bee for fishing information.
	Want to know day the DFG stocks this lake
	Was given wrong directions. Would have taken an extra hour. Different location. When called staff, unable to provide driving directions.
Reservation	Confusion over campsites happened with reservation system.
	Holiday weekends reservations policy is difficult. Too far in advance required.
Websites	Moon was wrong on website. Work at power plant. Got info on our own.
	Positive: website was very informational.
	Want to purchase annual pass at agency website. Western Outdoor News is my news source.
	Would like the flow information on the DWR website. Would also like a webcam.

### 5.6.3.5 Constraints or Barriers Preventing Desired Recreation

Visitors were asked whether there were any constraints or barriers that prevented them or a member of their group from participating in desired recreation activities at Don Pedro Reservoir. Results indicated that a majority of visitors (92 percent) (Table 5.6-78) to Blue Oaks did not experience constraints or barriers to their desired recreation. Of those that did experience a constraint or barrier, reasons were varied (Table 5.6-79).

**Table 5.6-78. Constraints or barriers to desired recreation, Blue Oaks.**

Constraints or Barriers	N	Percentage
Yes	14	8.2
No	156	91.8
<b>Total</b>	<b>170</b>	<b>100.0</b>

**Table 5.6-79. Reasons preventing participation, Blue Oaks.**

What Prevented Participation	Location
Bathroom at boat launch proper	No response
Camp	
Dogs at campgrounds	Any campsites
Hiking-came across two poisonous snakes	From campsite to lake in grassy spot
Need traffic controls at FM boat launch. Don't feel safe to launch at FM boat launch. It scares me.	FM Boat launch. We drive all the way over to Blue Oaks boat launch. Less dangerous.
Not letting dogs into the campgrounds	Letting dogs into the campgrounds
Showers closer to each campsite	Campsite C-25
Swim lagoon at Blue Oaks campsite. Fee parking for everyone and all cars. Concession stand at Blue Oaks	Fleming Meadows
The water level access is very low, which hinders immediate access for fishing, swimming, boat launching, etc.	No response
Too dark at campground at night. Need lighting	Campgrounds
Too dark at campgrounds at night. Need lighting.	Campgrounds
Too rowdy	Camp
Trails needed to access coves	No response
While Dad was fishing, I tried to let kids play, but there were too many sharp rocks	Little playground for kids anywhere in the recreation area to keep kids busy and safe from water while other parent is fishing
Would like the addition of a safe handgun range. Think a designated gun discharging area is a healthy way to teach youth and to practice.	Any designated area within recreation areas available.

#### 5.6.3.6 Potential New Recreation Improvements

Visitors to Blue Oaks were asked to rate their preferences for new recreation facility improvements. The majority of day-use visitors (Table 5.6-80) and overnight visitors (Table 5.6-81) respondents did not have a preference for improvements.

#### **Camping and Picnic Area Improvements**

The majority of day-use visitors surveyed felt that items relative to camping and picnic area improvements were not applicable or had no opinion. In general, approximately half of visitor respondents did not prefer or had no opinion with respect to camping and picnic area improvement. (Table 5.6-80).

#### **Boating Improvements**

The majority of day-use visitors had no preference for boat launch improvements (Table 5.6-80).

## Parking and Other Improvements

Similar to other improvements, the majority of day-use visitors surveyed identified items relating to parking and other improvements as “neither” or “no opinion/not applicable” (Table 5.6-80).

**Table 5.6-80. Day-use visitors’ preferences for potential new recreation facility improvements at Blue Oaks.**

Improvement	Highly Preferred		Slightly Preferred		Neither		Slightly Not Preferred		Not Preferred At All		No Opinion/ Not Applicable	
	N	%	N	%	N	%	N	%	N	%	N	%
<b>Camping and Picnic Area Improvements</b>												
Campsites	8	9.5	3	3.6	16	19.0	0	0.0	16	19.0	41	48.8
Group campsites	6	7.0	0	0.0	22	25.6	0	0.0	16	18.6	42	48.8
Pull-through parking spurs in campsites	7	8.1	1	1.2	20	23.3	0	0.0	15	17.4	43	50.0
Longer parking spurs in campsites	7	8.1	0	0.0	21	24.4	0	0.0	15	17.4	43	50.0
Group picnic sites	4	4.7	1	1.2	25	29.1	0	0.0	12	14.0	44	51.2
Picnic sites	2	2.4	1	1.2	28	33.3	1	1.2	10	11.9	42	50.0
Restrooms	16	18.6	10	11.6	25	29.1	0	0.0	9	10.5	26	30.2
Potable water	4	4.8	1	1.2	32	38.1	0	0.0	7	8.3	40	47.6
Showers	8	9.4	2	2.4	20	23.5	1	1.2	12	14.1	42	49.4
Food storage locker	3	3.5	0	0.0	23	27.1	0	0.0	11	12.9	48	56.5
Trash receptacles	5	5.8	8	9.3	30	34.9	0	0.0	13	15.1	30	34.9
Other	12	42.9	1	3.6	0	0.0	1	3.6	1	3.6	14	50.0
<b>Boating Improvements</b>												
Boat-In campsites	6	6.9	4	4.6	17	19.5	2	2.3	15	17.2	42	48.3
Boat launches	18	20.7	13	14.9	26	29.9	1	1.1	11	12.6	18	20.7
Boat launch lanes	18	20.7	11	12.6	25	28.7	2	2.3	13	14.9	18	20.7
Boat trailer parking	19	21.8	13	14.9	27	31.0	1	1.1	10	11.5	17	19.5
Other	7	36.8	0	0.0	3	15.8	0	0.0	1	5.3	8	42.1
<b>Parking and Other Improvements</b>												
Vehicle parking	15	17.4	11	12.8	32	37.2	2	2.3	16	18.6	10	11.6
Trailer parking	14	16.3	7	8.1	32	37.2	1	1.2	15	17.4	17	19.8
Accessible fishing pier	15	17.4	4	4.7	29	33.7	0	0.0	15	17.4	23	26.7
Dump station	5	6.0	2	2.4	27	32.1	0	0.0	9	10.7	41	48.8
Foot trails to the shoreline	7	8.3	5	6.0	23	27.4	1	1.2	12	14.3	36	42.9
Foot trails around the shoreline	6	7.1	5	6.0	23	27.4	1	1.2	13	15.5	36	42.9
Signage to the recreation area	4	4.8	0	0.0	38	45.2	2	2.4	20	23.8	20	23.8
Signage within recreation area	5	5.9	1	1.2	36	42.4	2	2.4	21	24.7	20	23.5
Other	5	26.3	0	0.0	4	21.1	1	5.3	4	21.1	5	26.3

Notes from Survey/Observation Team:

BLUE OAKS visitors were extremely appreciative and often expressed gratitude for the mobile ice and firewood concessions during the peak season and times of extreme heat and busy weekends. They hoped this would be an ongoing opportunity for campers at Blue Oaks especially as no marina or concessions are conveniently nearby as with other two recreation areas.

### **Camping and Picnic Area Improvements**

Almost half of respondents scored camping and picnic area improvement as “slightly” to “highly” preferred. The highest improvement areas are the shower, restroom, food storage locker and trash receptacles (Table 5.6-81).

### **Boating Improvements**

Overnight visitors’ preferences were similar to day-use visitors. Approximately one-third of respondents preferred (slightly to highly) various improvements to boating facilities, with one-third of respondents identifying neither preference, and approximately one-third of respondents with non opinion/or not applicable responses (Table 5.6-81).

### **Parking and Other Improvements**

When considering parking and other improvements, foot trails to and around the shoreline were identified by nearly 40 percent of visitors responding with “slightly” to highly” preferred. Most other facilities were identified as neither (approximately one-third) or no opinion/not applicable (approximately one-third) (Table 5.6-81).

**Table 5.6-81. Overnight visitors’ preferences for potential new recreation facility improvements at Blue Oaks.**

Improvement	Highly Preferred		Slightly Preferred		Neither		Slightly Not Preferred		Not Preferred At All		No Opinion/ Not Applicable	
	N	%	N	%	N	%	N	%	N	%	N	%
<b>Camping and Picnic Area Improvements</b>												
Campsites	19	23.2	8	9.8	28	34.1	3	3.7	13	15.9	11	13.4
Group campsites	16	19.5	8	9.8	26	31.7	2	2.4	12	14.6	18	22.0
Pull-through parking spurs in campsites	12	14.8	8	9.9	23	28.4	5	6.2	12	14.8	21	25.9
Longer parking spurs in campsites	15	18.5	9	11.1	24	29.6	4	4.9	11	13.6	18	22.2
Group picnic sites	12	14.6	6	7.3	29	35.4	1	1.2	13	15.9	21	25.6
Picnic sites	13	15.9	6	7.3	30	36.6	1	1.2	13	15.9	19	23.2
Restrooms	31	37.8	18	22.0	15	18.3	2	2.4	7	8.5	9	11.0
Potable water	14	17.3	9	11.1	36	44.4	0	0.0	8	9.9	14	17.3
Showers	34	41.5	9	11.0	17	20.7	2	2.4	7	8.5	13	15.9
Food storage locker	20	24.4	10	12.2	23	28.0	2	2.4	12	14.6	15	18.3
Trash receptacles	20	24.4	6	7.3	33	40.2	2	2.4	13	15.9	8	9.8
Other	10	41.7	1	4.2	3	12.5	1	4.2	2	8.3	7	29.2
<i>Dirt/ground/dust</i>												
<i>Group campsites close to water.</i>												
<i>Increase power to campsite-more electrical.</i>												
<i>Level campsites. Shale rock is hard on tents.</i>												
<i>Lighting</i>												
<i>More showers. More leveling for tents.</i>												
<i>More sinks and mirrors in women's bathrooms.</i>												
<i>Overall maintenance of all facilities.</i>												

Improvement	Highly Preferred		Slightly Preferred		Neither		Slightly Not Preferred		Not Preferred At All		No Opinion/ Not Applicable	
	N	%	N	%	N	%	N	%	N	%	N	%
<i>Store</i>												
<i>Wider parking at campsites.</i>												
<b>Boating Improvements</b>												
Boat-In campsites	13	16.3	5	6.3	14	17.5	0	0.0	11	13.8	37	46.3
Boat launches	15	18.5	9	11.1	24	29.6	1	1.2	10	12.3	22	27.2
Boat launch lanes	14	17.3	8	9.9	25	30.9	2	2.5	10	12.3	22	27.2
Boat trailer parking	14	17.5	6	7.5	24	30.0	4	5.0	9	11.9	23	28.7
Other	2	7.7	0	0.0	1	3.8	0	0.0	4	15.4	19	73.1
<i>Add lighting to trails to cove and boat launch.</i>												
<i>Pumpout equipment needs maintenance.</i>												
<i>Too narrow to launch at Blue Oaks ramp.</i>												
<b>Parking and Other Improvements</b>												
Vehicle parking	19	23.2	12	14.6	36	43.9	0	0.0	13	15.9	2	2.4
Trailer parking	15	18.3	8	9.8	32	39.0	0	0.0	14	17.1	13	15.9
Accessible fishing pier	15	18.3	5	6.1	25	30.5	0	0.0	16	19.5	21	25.3
Dump station	10	12.2	7	8.5	25	30.5	1	1.2	18	22.0	21	25.6
Foot trails to the shoreline	25	30.5	10	12.2	27	32.9	1	1.2	9	11.0	10	12.2
Foot trails around the shoreline	22	26.8	12	14.6	27	32.9	1	1.2	9	11.0	11	13.4
Signage to the recreation area	12	14.8	5	6.2	35	43.2	1	1.2	19	23.5	9	11.1
Signage within recreation area	16	19.5	4	4.9	32	39.0	1	1.2	20	24.4	9	11.0
Other	3	23.1	0	0.0	1	7.7	0	0.0	3	23.1	6	46.2

Notes from Survey/Observation Team:

FISHERMAN consistently expressed frustration regarding the fish grinder needing repair and maintenance at Blue Oaks Fish-Cleaning station. Night boat launchers described difficulty seeing to safely negotiate launch, requesting lighting introduced at launch for night fishing.

## 5.6.4 Moccasin Point

### 5.6.4.1 Recreation Visitors and Their Trip Characteristics

#### Visitor Characteristics

A more than a half (56 percent) of visitors to Moccasin Point stayed overnight (Table 5.6-82).

**Table 5.6-82. Type of visitor use at Moccasin Point.**

Type of Visitor	N	Percentage
Day-Use	57	43.8
Overnight	73	56.2
<b>Total</b>	<b>130</b>	<b>100.0</b>

#### Day-use Visitors

Among day-use visitors, the majority were male (68 percent), of white ethnicity (86 percent), spoke English as their primary language (93 percent), and were an average age of 49 years old



(Table 5.6-83). Just over half of day-use visitors came from Tuolumne and San Joaquin Counties (Table 5.6-84).

**Table 5.6-83. Socio-demographic characteristics of day-use visitors at Moccasin Point.**

Characteristic				
<b>Age</b>	<b>Mean</b>	<b>Std. Deviation</b>	<b>Minimum</b>	<b>Maximum</b>
	49.00	13.75	20	80
<b>Gender</b>	<b>N</b>		<b>Percentage</b>	
Male	39		68.4	
Female	18		31.6	
<b>Total</b>	<b>57</b>		<b>100.0</b>	
<b>Ethnicity</b>	<b>N</b>		<b>Percentage</b>	
White	47		85.5	
Hispanic or Latino	5		9.1	
Spanish Hispanic or Latino	2		3.6	
Asian	1		1.8	
<b>Total</b>	<b>55</b>		<b>100.0</b>	
<b>Primary Language</b>	<b>N</b>		<b>Percentage</b>	
English	52		92.9	
Spanish	4		7.1	
<b>Total</b>	<b>56</b>		<b>100.0</b>	

**Table 5.6-84. County of residence for day-use visitors at Moccasin Point.**

County	N	Percentage
Tuolumne	18	31.6
San Joaquin	12	21.1
Stanislaus	8	14.1
Alameda	7	12.3
Contra Costa	3	5.3
Santa Clara	2	3.5
Marin	2	3.5
Santa Clara	2	3.5
Mariposa	1	1.8
Alpine	1	1.8
Sacramento	1	1.8
<b>Total</b>	<b>57</b>	<b>100.0</b>

### **Overnight Visitors**

Overnight visitors to Moccasin Point were similar to day-use visitors. The vast majority were male (74 percent), of white ethnicity (89 percent), and spoke English as their primary language (96 percent) with the average age of 50 years old (Table 5.6-85). Over half the visitors came from Stanislaus, Santa Clara, and San Joaquin counties (Table 5.6-86).

**Table 5.6-85. Socio-demographic characteristics of overnight visitors at Moccasin Point.**

Characteristic				
<b>Age</b>	<b>Mean</b>	<b>Std. Deviation</b>	<b>Minimum</b>	<b>Maximum</b>
	50.15	14.22	22	79
<b>Gender</b>	<b>N</b>		<b>Percentage</b>	
Male	54		74.0	
Female	19		26.0	

<b>Characteristic</b>		
<b>Total</b>	<b>73</b>	<b>100.0</b>
<b>Ethnicity</b>	<b>N</b>	<b>Percentage</b>
White	63	88.7
Hispanic or Latino	4	5.6
Asian	1	1.4
American Indian/Alaskan Native	1	1.4
Spanish Hispanic or Latino	1	1.4
Native Hawaiian or other	1	1.4
<b>Total</b>	<b>71</b>	<b>100.0</b>
<b>Primary Language</b>	<b>N</b>	<b>Percentage</b>
English	69	95.8
Spanish	1	1.4
German	1	1.4
Tagalo	1	1.4
<b>Total</b>	<b>72</b>	<b>100.0</b>

**Table 5.6-86. County of residence for overnight visitors at Moccasin Point.**

<b>County</b>	<b>N</b>	<b>Percentage</b>
Stanislaus	16	22.8
Santa Clara	13	18.1
San Joaquin	8	11.1
Tuolumne	5	6.9
Alameda	4	5.6
San Mateo	4	5.6
Contra Costa	2	2.8
Los Angeles	2	2.8
Marin	2	2.8
Merced	2	2.8
Monterey	2	2.8
Santa Cruz	2	2.8
Amador	1	1.4
Calaveras	1	1.4
El Paso, CO	1	1.4
Eldorado	1	1.4
Fresno	1	1.4
Keith, NE	1	1.4
Lake	1	1.4
Orange	1	1.4
Park, CO	1	1.4
Tulare	1	1.4
<b>Total</b>	<b>72</b>	<b>100.0</b>

### *Trip Characteristics*

Visitors were asked a variety of questions about their visits to Moccasin Point. For each recreation area, responses were analyzed for day-use and overnight visitors, where applicable.

### **Day-Use Visitors**

Day-use visitors arrived at Moccasin Point between 05:00 hours and 16:00, and departed in the afternoon between 10:00 hours and 20:00 hours. They stayed, on average, nearly 6 hours at the reservoir. Most day-use visitors (68 percent) are regular visitors, with 25 percent visiting occasionally (Table 5.6-87).

**Table 5.6-87. Day-use visitor trip characteristics at Moccasin Point.**

<b>Characteristic</b>			
<b>Length of Stay</b>	<b>Mean</b>	<b>Minimum</b>	<b>Maximum</b>
Number of hours	5.67	1.00	10.00
<b>Time</b>	<b>Mean</b>	<b>Minimum</b>	<b>Maximum</b>
Time of arrival	10:05	05:00	16:00
Time of departure	15:46	10:00	20:00
<b>Historical Information</b>		<b>N</b>	<b>Percentage</b>
Regular Visitor		39	68.4
Occasional Visitor		14	24.6
Infrequent Visitor		1	1.8
This is my first visit		3	5.3
<b>Total</b>		<b>57</b>	<b>100.0</b>

### **Overnight Visitors**

The majority of overnight visitors arrived and departed around 12 noon and spent an average of nearly 15 days at the reservoir. Most overnight visitors were regular visitors (57 percent), with approximately 25 percent visiting occasionally (Table 5.6-88).

**Table 5.6-88. Overnight visitor trip characteristics at Moccasin Point.**

<b>Characteristic</b>			
<b>Length of Stay</b>	<b>Mean</b>	<b>Minimum</b>	<b>Maximum</b>
Number of days	14.73	1	213
<b>Time</b>	<b>Mean</b>	<b>Minimum</b>	<b>Maximum</b>
Time of arrival	14:32	06:00	21:00
Time of departure	12:45	09:00	20:00
<b>Historical Information</b>		<b>N</b>	<b>Percentage</b>
Regular Visitor		41	56.9
Occasional Visitor		18	25.0
Infrequent Visitor		4	5.6
This is my first visit		9	12.5
<b>Total</b>		<b>72</b>	<b>100.0</b>

When asked about overnight accommodations, the majority of overnight visitors to Moccasin Point reported camping at the RV park or campground (67 percent), followed by houseboats owned (Table 5.6-89).

**Table 5.6-89. Where overnight visitors stayed at Moccasin Point.**

<b>Location</b>	<b>N</b>	<b>Percentage</b>
RV Park or Campground	49	67.1
Houseboat owned	18	24.7
Houseboat rented	3	4.1

Location	N	Percentage
Other	3	4.1
<b>Total</b>	<b>73</b>	<b>100.0</b>

Day-use visitors to Moccasin Point reported recreating primarily with family during their visit (Table 5.6-90). On average, day-use visitors reported having an average of 3 adults, 1 child, and an average of 1 vehicle per group (Table 5.6-91).

**Table 5.6-90. Day use visitors' type of recreation group at Moccasin Point.**

Type of Group	N	Percentage
Alone	7	12.3
Friends	14	24.6
Family and Friends	10	17.5
Family	25	43.9
Organized Group Outing	1	1.8
<b>Total</b>	<b>57</b>	<b>100.0</b>

**Table 5.6-91. Number of people, vehicles, boats, and water-related equipment included in day-use groups' current trip at Moccasin Point.**

Person/Item	Mean	Minimum	Maximum
Adults	3.00	1	10
Children	1.40	0	30
Vehicles	1.44	0	7
Boat/PWC/Raft Trailers	.82	0	3
RVs/Campers	.02	0	1
Length of RVs	26.00	26	26
Tents	.11	0	5
<15 hp Powerboats	.07	0	1
>15 hp Powerboats	.63	0	3
PWCs	.19	0	3
Canoes/Kayaks	.02	0	1
Fishing Tubes	.18	0	10
Skis, wakeboards, other tow-behind toys	.51	0	10
Other	.05	0	3

Overnight visitors to Moccasin Point reported recreating primarily with family or family and friends during their visit (Table 5.6-92). Overnight visitors most often reported having an average of nearly 5 adults and 5 children, and an average of nearly 3 vehicles and 1 boat per group (Table 5.6-93).

**Table 5.6-92. Overnight visitors' type of recreation group at Moccasin Point.**

Type of Group	N	Percentage
Alone	6	8.2
Friends	9	12.3
Family and Friends	18	24.7
Family	36	49.3
Organized Group Outing	4	5.5
<b>Total</b>	<b>73</b>	<b>100.0</b>

**Table 5.6-93. Number of people, vehicles, boats, and water-related equipment included in overnight groups' current trip at Moccasin Point.**

Person/Item	Mean	Minimum	Maximum
Adults	5.33	1	30
Children	5.18	0	125
Vehicles	2.77	0	30
Boat/PWC/Raft Trailers	.95	0	7
RV Campers	.30	0	4
Length: Camper Trailers	27.56	23	34
Length: Tents	.11	0	1
Length: >15 hp Powerboats	25.29	11	39
PWCs	1.12	0	10
Canoes/Kayaks/non-motorized water craft	.96	0	7
Fishing Tubes	.12	0	2
Skis, wakeboards, other tow-behind toys	.15	0	3
Other	.04	0	1
	1.26	0	15
	.18	0	7

#### 5.6.4.2 Recreation Activity Participation

Visitors to Moccasin Point were asked to indicate which activities they participated in during their current visit. Responses were analyzed by day-use and overnight visitor type where applicable.

#### Day-use Visitors

The majority of day-use visitors participated in fishing, flat-water motorized boating, wildlife viewing, swimming and picnicking (Table 5.6-94). When asked about their primary activity, a majority of respondents identified, fishing and boating, with some also noting picnicking and relaxing activities (Table 5.6-95).

**Table 5.6-94. Activity participation of day-use visitors at Moccasin Point.**

Activities	N	Percentage
Fishing	31	54.4
Flat-water, motorized boating	22	38.6
Wildlife viewing (e.g. birding)	20	35.1
Swimming	19	33.3
Picnicking	15	26.3
Hiking or walking	13	22.8
Wakeboarding	6	10.5
Personal watercraft use (e.g. jet skiing)	5	8.8
Water skiing	5	8.8
Other	4	7.0
<i>Dog Walking</i>	--	--
<i>Photography</i>	--	--
<i>Pleasure boating.</i>	--	--
<i>Scuba diving for lost anchor</i>	--	--
Driving for pleasure	3	5.3
Other tow-behind toys	3	5.3

Activities	N	Percentage
Camping	2	3.5
Houseboating	2	3.5

**Table 5.6-95. Day-use visitors' primary recreation activity for current visit to Moccasin Point.**

Activity	N	Percentage
Fishing	24	43.6
Boating	10	18.2
Picnicking	4	7.3
Relaxing	4	7.3
Swimming	4	7.3
PWC	3	5.5
Water Sports	1	1.8
Pleasure Driving	1	1.8
Picnic/Swimming	1	1.8
Youth Group	1	1.8
Boat Maintenance	1	1.8
Salvage Operations	1	1.8
<b>Total</b>	<b>55</b>	<b>100.0</b>

### **Overnight Visitors**

As might be expected, a majority of overnight visitors participated in camping along with several other activities including: wildlife viewing, fishing, hiking or walking, swimming, flatwater boating, and picnicking activities (Table 5.6-96). Camping, houseboating, and fishing were the most common primary activities identified by overnight visitors (Table 5.6-97).

**Table 5.6-96. Activity participation of overnight visitors at Moccasin Point.**

Activity	N	Percentage
Camping	50	68.5
Wildlife viewing (e.g. birding)	44	60.3
Hiking or walking	43	58.9
Fishing	41	56.2
Swimming	38	52.1
Flat-water, motorized boating	33	45.2
Picnicking	23	31.5
Other tow-behind toys	20	27.4
Wakeboarding	20	27.4
Houseboating	20	27.4
Other	14	19.4
<i>Boat rental</i>	--	--
<i>Deer Hunting</i>	--	--
<i>Dog Walking</i>	--	--
<i>Escape home.</i>	--	--
<i>Fireworks</i>	--	--
<i>Fishing Guide</i>	--	--
<i>Pleasure cruiser bike</i>	--	--
<i>Relaxation</i>	--	--
<i>Relaxing</i>	--	--
<i>Stargazing</i>	--	--
<i>Tubing</i>	--	--

Activity	N	Percentage
<i>Visiting friends in the Sonoma area</i>	--	--
<i>Yosemite Tour</i>	--	--
Water skiing	13	17.8
Driving for pleasure	6	8.2
Personal watercraft use (e.g. jet skiing)	3	4.1
Flat-water, non-motorized (e.g. kayak, canoe)	3	4.1
Mountain biking	2	2.7
River/stream boating (e.g. raft, kayak, canoe)	2	2.7

**Table 5.6-97. Overnight visitors' primary activity at Moccasin Point.**

Activity	N	Percentage
Camping	26	37.7
Houseboating	13	18.8
Fishing	11	15.9
Relax	4	5.8
Boating	4	5.8
Boating/Camping	3	4.3
Camping/Fishing	2	2.9
Fishing/Relaxing	1	1.4
Boat Maintenance	1	1.4
Houseboat/Reunion	1	1.4
Boating/Biking	1	1.4
Boat Camping	1	1.4
Visit Yosemite	1	1.4
<b>Total</b>	<b>69</b>	<b>100.0</b>

### *How Visitors Learned About Moccasin Point Recreation Area*

When asked how visitors learned about Moccasin Point, the majority learned through word of mouth (Table 5.6-98).

**Table 5.6-98. How visitors learned about the recreation area at Moccasin Point.**

Source	N	Percentage
Word of Mouth	99	76.2
Internet	4	3.1
Other	37	28.5

#### 5.6.4.3 Visitor Preferences and Expectations

### **Reservoir Water Level**

Visitors were asked to indicate whether the level of the reservoir was a problem for a variety of different activities at Moccasin Point. For all respondents, the level of the reservoir was not perceived as a problem for different types of activities. The vast majority of visitors reported the reservoir level was either “not a problem” or checked “no opinion/not applicable” (Table 5.6-99).

**Table 5.6-99. Perceptions of water levels as a problem for different types of activities at Moccasin Point.**

Activity	Not a Problem		A Small Problem		Neither		A Moderate Problem		A Large Problem		No Opinion/ Not Applicable	
	N	%	N	%	N	%	N	%	N	%	N	%
Ability to use beach area	61	47.3	6	4.7	0	0.0	4	3.1	6	4.7	52	40.3
Ability to safely swim	61	47.3	1	0.8	2	1.6	2	1.6	1	0.8	62	48.1
Ability to launch or take out boat	82	64.1	12	9.4	0	0.0	2	1.6	1	0.8	31	24.2
Ability to safely boat	88	68.2	5	3.9	1	0.8	2	1.6	2	1.6	31	24.0
Ability to utilize trails	37	28.5	3	2.3	2	1.5	0	0.0	2	1.5	86	66.2
Ability to access shoreline campgrounds	19	15.2	1	0.8	2	1.6	3	2.4	1	0.8	99	79.2
Ability to fish along the shoreline	41	32.3	3	2.4	1	0.8	2	1.6	0	0.0	80	63.0
Ability to access the shoreline	75	57.7	7	5.4	1	0.8	8	6.2	4	3.1	35	26.9
Scenic quality of shoreline	92	71.9	19	14.8	1	0.8	6	4.7	5	3.9	5	3.9
Other	2	11.8	2	11.8	0	0.0	0	0.0	4	23.5	9	52.9

#### 5.6.4.4 Conflict, Crowding, Safety

Visitors were asked a series of questions to assess their perceptions of crowding, conflict, and safety while recreating at Moccasin Point. Responses to these questions were evaluated for each recreation site.

#### **Conflict**

Nearly eleven percent of respondents to recreation sites within Moccasin Point experienced negative interactions with other recreationists (Table 5.6-100). Of those that did experience negative interactions, the reasons ranged from proximity to loudness (Table 5.6-101).

**Table 5.6-100. Number of visitors who experienced a negative interaction with other recreationists at Moccasin Point.**

Conflict	N	Percentage
Yes	14	10.8
No	116	89.2
<b>Total</b>	<b>130</b>	<b>100.0</b>

**Table 5.6-101. Type of negative conflict experienced with other recreationists at Moccasin Point.**

Activity/Type of Recreational User	Proximity to Where We Were		Rowdiness		Loudness		Other	
	N	%	N	%	N	%	N	%
Motorized Boater	4	66.7	0	0.0	4	57.1	5	83.3
Camper	2	33.3	1	100.0	3	42.9	1	16.7
<b>Total</b>	<b>6</b>	<b>100.0</b>	<b>1</b>	<b>100.0</b>	<b>7</b>	<b>100.0</b>	<b>6</b>	<b>100.0</b>

#### **Other Reasons contributing to conflicts:**

*Inexperienced boat launchers*



Activity/Type of Recreational User	Proximity to Where We Were		Rowdiness		Loudness		Other	
	N	%	N	%	N	%	N	%
<i>Loud offensive rap music at marina. Not observing no-wake zone. Property stolen off our houseboat at marina. Marina lost videotape of thief.</i>								
<i>Not adhering 5 mph zone. Surfing behind boats with large wakes.</i>								
<i>Prior trips, we've had issues with groups of teens blocking boat launch dock. Late at night typically.</i>								
<i>Speeding</i>								

### **Perceptions of Crowding**

When asked to rate the level of crowding at Moccasin Point, the majority of visitors perceived Moccasin Point as not at all crowded (Table 5.6-102). A substantial portion of visitors at each recreation site also thought the question was not applicable.

**Table 5.6-102. Perceptions of crowding at Moccasin Point.**

Location/Area	Not at all Crowded		Slightly Crowded		Moderately Crowded		Extremely Crowded		Not Applicable	
	N	%	N	%	N	%	N	%	N	%
Camping area	56	44.1	3	2.4	2	1.6	2	1.6	64	50.4
Shoreline camping area	31	24.6	3	2.4	0	0.0	0	0.0	92	73.0
Picnic area	56	44.1	2	1.3	0	0.0	0	0.0	69	54.3
Boat launch	92	71.9	6	4.7	1	0.8	1	0.8	28	21.9
Trail	42	33.4	2	1.6	0	0.0	0	0.0	82	65.1
Trailhead	37	29.6	1	0.8	0	0.0	0	0.0	87	69.6
Other shoreline area	79	63.2	2	1.6	0	0.0	0	0.0	44	35.2
Water surface	99	77.3	2	1.6	0	0.0	1	0.8	25	19.5
Other	5	33.3	0	0.0	0	0.0	0	0.0	10	66.7

### **Recreation Behavior Modification**

Based on their perceptions of crowding, visitors were asked if they modified their behavior as a result of feeling crowded. As reported earlier, a majority of visitors did not feel crowded and did not change their behavior (Table 5.6-103). However, among those who did feel crowded, one changed the time of day and the other did nothing (Table 5.6-104).

**Table 5.6-103. Number of visitors by site who modified recreation behavior because they felt crowded, Moccasin Point.**

Modification	N	Percentage
Yes	1	0.8
No	8	6.2
Did Not Feel Crowded	120	93.0
<b>Total</b>	<b>129</b>	<b>100.0</b>

**Table 5.6-104. Behavior modification of visitors who felt crowded, Moccasin Point.**

Modification	N	Percentage
Changed the time of day	1	50.0
Did nothing	1	50.0
<b>Total</b>	<b>2</b>	<b>100.0</b>

### **Recreating at Preferred Location**

The majority of visitors (92 percent) to Moccasin Point indicated they were recreating at their preferred location (Table 5.6-105). However, a handful of respondents were not at their preferred site for reasons that varied and presented no clear trend (Table 5.6-106).

**Table 5.6-105. Number of visitors recreating at preferred location by site, Moccasin Point.**

Preferred location	N	Percentage
Yes	119	92.2
No	10	7.8
<b>Total</b>	<b>129</b>	<b>100.0</b>

**Table 5.6-106. Preferred locations and why respondents were unable to recreate there, Moccasin Point.**

Preferred Location	Reason Unable to Recreate at Preferred Location
Closer to water or not by edge	No response
Staying here instead but already reserved at Moccasin Point	Too hot. We don't have good timing on camping this weekend due to weather spike in heat that's extreme to us
No response	I have a favorite spot, but snow is too heavy to go there
Fleming Meadows	Choice to change lake take out
Melones	This is closer
New Melones	Location-prefer NM due to lower costs
No ski zone	Impassable due to low lake level today.
A-13	Not level enough, so we changed to our current site.

### **Safety**

Visitors were asked if there were any locations at Moccasin Point where they felt unsafe. The majority of visitors indicated they did not feel unsafe (89 percent) at the reservoir (Table 5.6-107). Among those who did feel unsafe, the reasons were speeding boats, wild animals, firearm discharge, speeding vehicles, behavior of others, and "other" items identified by respondents (Tables 5.6-108 through 109). Unsafe location at Moccasin Point was identified at Table 5.6-110.

**Table 5.6-107. Number of visitors who perceived locations as unsafe, Moccasin Point.**

Unsafe location	N	Percentage
Yes	14	10.8
No	116	89.2
<b>Total</b>	<b>130</b>	<b>100.0</b>

**Table 5.6-108. Why visitors felt unsafe, Moccasin Point.**

Wild Animals		Speeding boats/PWC		Unattended Campfires		Firearm Discharge		Unleashed Dogs		Speeding Vehicles		Other		Other visitors behavior	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1	0.8	6	4.6	0	0.0	2	1.5	1	0.8	1	0.8	4	3.1	5	3.8

**Table 5.6-109. Other reasons why visitors felt unsafe by site, Moccasin Point.**

Other Reasons	
Bathroom	Observed firearms on others campers at the campground.
Rattlesnakes	Stick ups due to low water
Behaviors of Others	
Big wakes from wakeboarders.	Loud music and drinking.
Rude boaters.	Unruly campers late at night.

**Table 5.6-110. Unsafe location, Moccasin Point.**

Unsafe Locations	
1st bridge	5 mph zone in C marina
No Response	Blue Oaks boat launch and Moccasin Point boat launch. During a prior trip, gun brandishing man at Blue Oak boat launch.
Boat launch	Canyons
Fleming Meadows	On lake and speeding boater in no wake area.
Railroad Canyon during peak season.	Too dark in bathrooms
Ward's Ferry Bridge	

#### 5.6.4.5 Acceptability Ratings for Condition of Facilities, Access, and Information

Visitors were asked to rate the acceptability of existing conditions related to facilities, access, and information resources. Responses to these questions were analyzed by recreation site grouping.

#### **Facilities**

The majority of visitors recreating at Moccasin Point rated the facilities in an acceptable range or did not have an opinion or use the facility (Table 5.6-111). Table 5.6-112 addresses for reasons visitors rated facilities as unacceptable.

**Table 5.6-111. Acceptability ratings of facility conditions, Moccasin Point.**

Activity	Acceptable		Slightly Acceptable		Neither		Slightly Unacceptable		Unacceptable		No Opinion/ Did Not Use	
	N	%	N	%	N	%	N	%	N	%	N	%
Campsites	53	42.1	5	4.0	1	0.8	1	0.8	1	0.8	65	51.6
Camp site parking spur size	47	37.0	10	7.9	1	0.8	2	1.6	3	2.4	64	50.4
Picnic sites	58	46.0	1	0.8	0	0.0	1	0.8	1	0.5	65	51.6
Food storage locker	36	28.6	3	2.4	2	1.6	2	1.6	2	1.6	81	64.3

Activity	Acceptable		Slightly Acceptable		Neither		Slightly Unacceptable		Unacceptable		No Opinion/ Did Not Use	
	N	%	N	%	N	%	N	%	N	%	N	%
Restroom	82	63.6	11	8.5	3	2.3	9	7.0	4	3.1	20	15.5
Potable water	46	36.8	4	3.2	11	8.8	1	0.8	2	1.6	61	48.8
Trash receptacle	97	75.8	11	8.6	2	1.6	1	0.8	0	0.0	17	13.3
Vehicle parking area(s)	107	82.3	9	6.9	2	1.5	4	3.1	0	0.0	8	6.2
Trailer parking area(s)	85	65.9	7	5.4	2	1.6	3	2.3	1	0.8	31	24.0
Boat ramp parking area	90	69.8	6	4.7	1	0.8	1	0.8	2	1.6	29	22.5
Boat launch/take out	84	65.6	12	9.4	1	0.8	1	0.8	0	0.0	30	23.4
Other	3	23.1	0	0.0	0	0.0	1	0.8	0	0.0	9	69.2

**Table 5.6-112. Comments regarding facility unacceptable conditions, Moccasin Point.**

Theme	Unacceptable Facility Condition Comments
Boat Launch	RV pad is much too narrow. Add at least 2 more feet.
Campsites	Camp sites need to be more level
	Campsites are sloped; not level
	Need lighting for safety at campsites for night and restrooms.
	Prefer standup grill to ground pits. Restrooms need mirror.
	Some campsites are uneven. Trailer parking is tricky for some spaces.
	They really need something besides portapotties in E.
Parking	A-13 needs rock moved to have better parking. Roads need to be crack sealed.
	Squirrels damaged my trailer. Ripping up carpeting while parked in boat launch lot.
Picnic Areas	Fees collected at picnic area, but inadequate tables for visitors
	Fire pit is really close to the picnic table in C-25
Restrooms and Showers	Cleaner restrooms please.
	Lights in bathroom needed.
	More faucets
	No soap in restroom
	Restroom lighting needs updates.
	Restrooms are messy
Restrooms need electricity. Need closer potable water.	

### Access

When asked about access conditions at Moccasin Point, the majority of visitors reported that access conditions were acceptable (Table 5.6-113). Visitors provided reasons for unacceptable ratings on access conditions in Table 5.6-114.

**Table 5.6-113. Acceptability ratings of access conditions at Moccasin Point.**

Activity	Acceptable		Slightly Acceptable		Neither		Slightly Unacceptable		Unacceptable		No Opinion/ Did Not Use	
	N	%	N	%	N	%	N	%	N	%	N	%
Width of roads within the site	109	83.8	12	9.2	1	0.8	5	3.8	0	0.0	3	2.3
Condition of roads within the site	113	86.9	12	9.2	0	0.0	2	1.5	1	0.8	2	1.5
Foot trails to the shoreline	59	45.7	7	5.4	4	3.1	6	4.7	0	0.0	53	41.1
Foot trails around the shoreline	45	34.9	12	9.3	4	3.1	5	3.9	0	0.0	63	48.8
Signage to the recreation site	107	82.3	10	7.7	1	0.8	4	3.1	0	0.0	8	6.2
Signage from Project to adjacent communities	90	76.9	9	7.7	2	1.7	3	2.6	0	0.0	13	11.1

**Table 5.6-114. Comments regarding unacceptable access conditions at Moccasin Point.**

Theme	Unacceptable Access Condition Comments
Road Conditions	Very narrow and eroded at transition campground to boat parking area.
	Wider sites!
	Width could be larger.
Signage	Bigger signs are needed.
	No signage to Jamestown. Told by ranger how to get to Jamestown.

## **Information**

When asked about information resources, the majority of visitors to Moccasin Point indicated that information was acceptable or “no opinion/did not use” (Table 5.6-115). Reasons for unacceptable ratings with respect to information are located in Table 5.6-116.

**Table 5.6-115. Acceptability ratings of information resource, Moccasin Point.**

Activity	Acceptable		Slightly Acceptable		Neither		Slightly Unacceptable		Unacceptable		No Opinion/ Did Not Use	
	N	%	N	%	N	%	N	%	N	%	N	%
Interpretive/education information	35	26.9	4	3.1	2	1.5	0	0.0	0	0.0	89	68.5
Recreation visitor information brochures	32	24.8	3	2.3	1	0.8	0	0.0	0	0.0	93	72.1
Don Pedro Recreation Agency website	51	39.2	7	5.4	1	0.8	0	0.0	3	2.3	68	52.3
Reservoir water surface elevation information	34	26.4	8	6.2	0	0.0	1	0.8	0	0.0	86	66.7
River/stream flow information	24	22.9	3	2.9	0	0.0	0	0.0	0	0.0	78	74.3

**Table 5.6-116. Comments regarding unacceptable information conditions, Moccasin Point.**

Theme	Unacceptable Information Resources Condition
Direction/Water	Lake levels needed
	Need better map information
Rules and Regulation	Horrible wi-fi. Paid \$69 and it's worthless, slow, and unacceptable. No good.
	Like the webcam at the marina
Website	CDEC.org website was great for scheduled releases and has the best information.
	We checked the website to research reservoir levels - acceptable.
	We know how to find this info if necessary.
	Website might be small font/maps. Hard time printing maps.

#### 5.6.4.6 Constraints or Barriers Preventing Desired Recreation

Visitors were asked whether there were any constraints or barriers that prevented them or a member of their group from participating in desired recreation activities at Don Pedro Reservoir. Results indicated that a majority of visitors (95 percent) (Table 5.6-117) to Moccasin Point did not experience constraints or barriers to their desired recreation. Of the small number that did experience a constraint or barrier, reasons included steep access, interested in expanded access, and that they were unable to bring a dog.

**Table 5.6-117. Constraints or barriers to desired recreation, Moccasin Point.**

Constraints or Barriers	N	Percentage
Yes	6	4.7
No	123	95.3
<b>Total</b>	<b>129</b>	<b>100.0</b>

#### 5.6.4.7 Potential New Recreation Improvements

Visitors to Moccasin Point were asked to rate their preferences for new recreation facility improvements. The majority of day-use visitors (Table 5.6-118) and overnight visitors (Table 5.6-119) did not prefer any improvements.

#### **Camping and Picnic Area Improvements**

The majority of day-use visitors felt that items relative to camp and picnic improvements were not applicable or had no opinion (Table 5.6-118). Among respondents, some respondents to Moccasin Point identified neither improvement at camping and picnic area.

#### **Boating Improvements**

The majority of day-use visitors had no preference for boat launch improvements. Results indicated a mix of responses from no opinion or neither improvement at boating area (Table 5.6-118).

#### **Parking and Other Improvements**

Similar to other improvements, the majority of day-use visitors felt that items relative to parking and other improvements were “neither” or not applicable/had no opinion (Table 5.6-118). In

general, responses leaned towards nearly 40 percent or higher expressed “neither” preference level or had no opinion/not applicable at parking and other improvements.

**Table 5.6-118. Day-use visitors’ preferences for potential new recreation facility improvements at Moccasin Point.**

Improvement	Highly Preferred		Slightly Preferred		Neither		Slightly Not Preferred		Not Preferred At All		No Opinion/ Not Applicable	
	N	%	N	%	N	%	N	%	N	%	N	%
<b>Camping and Picnic Area Improvements</b>												
Campsites	5	9.1	2	3.6	9	16.4	2	3.6	7	12.7	30	54.5
Group campsites	3	5.5	1	1.8	10	18.2	2	3.6	7	12.7	32	58.2
Pull-through parking spurs in campsites	3	5.5	1	1.8	12	21.8	1	1.8	7	12.7	31	56.4
Longer parking spurs in campsites	2	3.6	3	5.5	12	21.8	1	1.8	6	10.9	31	56.4
Group picnic sites	3	5.4	2	3.6	13	23.2	0	0.0	8	14.3	30	53.6
Picnic sites	6	10.7	1	1.8	4	25.0	0	0.0	8	14.3	27	48.2
Restrooms	8	14.3	7	12.5	19	33.9	1	1.8	8	14.3	13	23.2
Potable water	6	10.9	0	0.0	16	29.1	2	3.6	6	10.9	25	45.5
Showers	7	12.5	2	3.6	11	19.6	0	0.0	7	12.5	29	51.8
Food storage locker	2	3.6	2	3.6	11	20.0	0	0.0	6	10.9	34	61.8
Trash receptacles	5	9.1	5	9.1	18	32.7	0	0.0	10	18.2	17	30.9
Other	4	40.0	0	0.0	1	10.0	0	0.0	0	0.0	5	50.0
<b>Boating Improvements</b>												
Boat-In campsites	5	9.1	3	5.5	18	32.7	0	0.0	8	14.5	21	38.2
Boat launches	2	3.6	10	17.9	30	53.6	1	1.8	5	8.9	8	14.3
Boat launch lanes	4	7.1	10	17.9	27	48.2	2	3.6	5	8.9	8	14.3
Boat trailer parking	7	12.5	8	14.3	27	48.2	1	1.8	5	8.9	8	14.3
Other	0	0.0	1	9.1	4	36.4	0	0.0	0	0.0	6	54.5
<i>Lower fees at the boat launch</i>												
<b>Parking and Other Improvements</b>												
Vehicle parking	7	12.5	10	17.9	28	50.0	1	1.8	7	12.5	3	5.4
Trailer parking	7	12.5	7	12.5	26	46.4	0	0.0	6	10.7	10	17.9
Accessible fishing pier	7	12.5	3	5.4	19	33.9	1	1.8	9	16.1	17	30.4
Dump station	3	5.4	3	5.4	17	30.4	0	0.0	9	16.1	24	42.9
Foot trails to the shoreline	5	8.9	6	10.7	20	35.7	1	1.8	4	7.1	20	35.7
Foot trails around the shoreline	5	8.9	6	10.7	20	35.7	1	1.8	4	7.1	20	35.7
Signage to the recreation area	2	3.6	4	7.1	27	48.2	1	1.8	10	17.9	12	21.4
Signage within recreation area	2	3.8	2	3.8	27	50.9	1	1.9	9	17.0	12	22.6
Other	3	30.0	0	0.0	1	10.0	0	0.0	0	0.0	6	60.0

### **Camping and Picnic Area Improvements**

One-third of overnight visitors felt that items relative to camp and picnic improvements were not applicable or had no opinion, another one-third of visitors responded that Moccasin Point identified neither improvement at camping and picnic area.

## **Boating Improvements**

Results indicated a mix of responses from highly preferred, no opinion or neither improvements at boating area (Table 5.6-119).

## **Parking and Other Improvements**

The majority of overnight visitors felt that items relative to parking and other improvements were “neither” or not applicable/had no opinion (Table 5.6-119).

**Table 5.6-119. Overnight visitors’ preferences for potential new recreation facility improvements at Moccasin Point.**

Improvement	Highly Preferred		Slightly Preferred		Neither		Slightly Not Preferred		Not Preferred At All		No Opinion/ Not Applicable	
	N	%	N	%	N	%	N	%	N	%	N	%
<b>Camping and Picnic Area Improvements</b>												
Campsites	19	26.0	9	12.3	15	20.5	3	4.1	12	16.4	15	20.5
Group campsites	9	12.5	6	8.3	20	27.8	2	2.8	11	15.3	24	33.3
Pull-through parking spurs in campsites	12	16.9	4	5.6	19	26.8	3	4.2	11	15.5	22	31.0
Longer parking spurs in campsites	18	25.0	6	8.3	19	26.4	1	1.4	9	12.5	19	26.4
Group picnic sites	5	7.1	2	2.9	23	32.9	2	2.9	12	17.1	26	37.1
Picnic sites	7	9.9	4	5.6	22	31.0	1	1.4	14	19.7	23	32.4
Restrooms	18	25.0	12	16.7	18	25.0	2	2.8	10	13.9	12	16.7
Potable water	14	19.7	5	7.0	23	32.4	2	2.8	8	11.3	19	26.8
Showers	15	21.1	7	9.9	16	22.5	2	2.8	10	14.1	21	29.6
Food storage locker	8	11.3	5	7.0	20	28.2	2	2.8	13	18.3	23	32.4
Trash receptacles	13	18.3	11	15.5	24	33.8	2	2.8	10	14.1	11	15.5
Other	7	41.2	1	5.9	3	17.6	1	5.9	1	5.9	4	23.5
<i>Add doors to restrooms. Had a bear in restroom last year in D area campground.</i>												
<i>Black pipes make for rusty water</i>												
<i>Fees are too high.</i>												
<i>Handicap Parking</i>												
<i>Lights in campsites and hot water in showers.</i>												
<i>Lights needed in C Loop. Poison oak creeping in on campsites.</i>												
<i>Marina improvements</i>												
<i>More campgrounds for all.</i>												
<i>Move trash receptacles between campsite</i>												
<i>Parking at Private Houseboat Marina</i>												
<i>Power and hot water.</i>												
<i>Really want and prefer to have Wi-Fi.</i>												
<i>Should have hot water.</i>												
<i>Soap in bathroom</i>												
<b>Boating Improvements</b>												
Boat-In campsites	17	23.6	3	4.2	8	11.1	0	0.0	7	9.7	37	51.4
Boat launches	17	23.6	8	11.1	14	19.4	1	1.4	12	16.7	20	27.8
Boat launch lanes	16	22.2	8	11.1	17	23.6	0	0.0	12	16.7	19	26.4
Boat trailer parking	19	26.0	9	12.3	16	21.9	0	0.0	11	15.1	18	24.7
Other	6	31.6	0	0.0	2	10.5	0	0.0	2	10.5	9	47.4



Improvement	Highly Preferred		Slightly Preferred		Neither		Slightly Not Preferred		Not Preferred At All		No Opinion/ Not Applicable	
	N	%	N	%	N	%	N	%	N	%	N	%
<i>Handicap Parking</i>												
<i>Level campsites and full hook-ups</i>												
<i>Mark parking lanes</i>												
<i>More marina courtesy parking spots on water.</i>												
<i>More security at launch.</i>												
<i>Need wider spaces</i>												
<i>Signs for no parking at launch.</i>												
<i>Water level</i>												
Parking and Other Improvements												
Vehicle parking	17	23.6	8	11.1	22	30.6	2	2.8	14	19.4	9	12.5
Trailer parking	19	26.4	4	5.6	20	27.8	2	2.8	14	19.4	13	18.1
Accessible fishing pier	7	10.0	4	5.7	21	30.0	2	2.9	13	18.6	23	32.9
Dump station	5	7.0	5	7.0	24	33.8	1	1.4	16	22.5	20	28.2
Foot trails to the shoreline	8	11.1	9	12.5	21	29.2	2	2.8	12	16.7	20	27.8
Foot trails around the shoreline	6	8.3	9	12.5	21	29.2	3	4.2	11	15.3	22	30.6
Signage to the recreation area	13	17.8	4	5.5	26	35.6	1	1.4	16	21.9	13	17.8
Signage within recreation area	13	18.1	4	5.6	25	34.7	1	1.4	15	20.8	14	19.4
Other	6	37.5	0	0.0	0	0.0	0	0.0	3	18.8	7	43.8

## 5.7 Angling Use and Preferences

The angler survey was conducted at all three recreation areas: Fleming Meadows, Blue Oaks, and Moccasin Point. The results combine use and preferences of all anglers responding to the visitor survey. This section describes angler behaviors, attitudes, and opinions. All anglers were asked to self-report type and number of fish caught; and forty-five anglers agreed to weighing, measuring, and identifying by species the fish they had caught. Results from this creel survey component of the recreation survey are reported in the Reservoir Fish Population Study Report (W&AR17).

Among 511 respondents visitors at Don Pedro, 67 percent identified they had fished at the reservoir (Table 5.7-1). Of those who had fished, the majority had fished 1-5 times during the previous 12 months (Table 5.7-2). The majority (91 percent) of those who had fished had not participated in fishing tournaments during the previous 12 months (Table 5.7-3), of those who had participated, a wide variety of tournaments were noted (Table 5.7-4).

**Table 5.7-1. Have you fished in the Don Pedro Reservoir area before?**

Response	N	Percentage
Yes	342	66.9
No	169	33.1
<b>Total</b>	<b>511</b>	<b>100.0</b>

**Table 5.7-2. If you fished here before how many times in the previous 12 months?**

Number of times	N	Percentage
1 to 5	135	50.6
6 to 10	46	17.2
11 to 15	16	6.0
16 to 20	19	7.1
More than 20	51	19.1
<b>Total</b>	<b>267</b>	<b>100.0</b>

**Table 5.7-3. Have you participated in fishing tournaments in the Don Pedro Reservoir area in the last 12 months?**

Fishing Tournament?	N	Percentage
Yes	42	8.8
No	437	91.2
<b>Total</b>	<b>479</b>	<b>100.0</b>

Anglers were asked how crowded they felt in the area they fished. The vast majority of respondents did not feel crowded during their fishing experience at Don Pedro (Table 5.7-4). Of those who did feel crowded (rating of 2 or higher), there were a range of specific sites identified (Table 5.7-5).

**Table 5.7-4. Anglers' perceptions of crowding by recreation area.**

Site	Not at all		Not at all/ slightly		Slightly		Slightly to Mod.		Mod. to slightly		Mod.		Mod. to extreme		Extreme to Mod.		Extreme	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Fleming Meadows (N=114)	93	81.6	10	8.8	7	6.1	2	1.8	2	1.8	0	0.0	0	0.0	0	0.0	0	0.0
Blue Oaks (N=96)	78	81.3	4	4.2	7	7.3	3	3.1	1	1.0	0	0.0	0	0.0	0	0.0	1	1.0
Moccasin Point (N=62)	47	75.8	6	9.7	4	6.5	1	1.6	0	0.0	2	3.2	0	0.0	1	1.6	1	1.6

**Table 5.7-5. Anglers' responses to crowding rating of 2 or higher.**

Recreation Area	Crowding Rating (1-10)	Site
Fleming Meadows	2	Angel Island
	2	Blue Oaks and Fleming shore
	2	Grasslands
	2	Main marina at lower lot
	2	Middle Bay
	2	Middle Bay, Ramos Creek, Graveyard
	2	Private houseboat in marina and main marina shoreline.
	2	Six Bit Gulch
	3	49er Bay, Upper Bay, Hatch Creek
	3	Fish Rock Island
	3	Middle Bay
	3	Shoreline and Jenkins Hill
	4	Middle Bay, Six Bit Gulch
4	Shoreline from campground A	

Recreation Area	Crowding Rating (1-10)	Site
Blue Oaks	5	Marina shoreline
	2	All over
	2	Just beyond Blue Oaks Boat Launch area.
	2	Middle Bay and Jenkins Hill
	2	Shoreline by boat launch
	3	Arms left of Blue Oaks recreation area
	3	Everything from Blue Oaks nearby Jenkins Hill
	3	Shoreline at Blue Oaks
	3	Jenkins Hill
	3	Just outside rec area.
	3	Middle Bay
	4	All
	4	Jenkins Hill, Private Houseboat, Mexican Gulch
	4	Jenkins, Middle Bay
	5	All over.
	6	From launch to powerlines
	6	West Bank, nudist colony, Jenkins Hill
	9	Jenkins Hill
Moccasin Point	2	Arms near MP launch
	2	Shoreline
	2	Six Bit Gulch
	2	Tuolumne River Arm, Ward's Ferry Bridge
	2	White Rock, Ramos, Big Creek
	3	End of river and beginning of lake
	3	Shoreline by campground and near hatchery.
	3	Woods Creek area
	3	Woods Creek; Tuolumne Upper River
	4	Upper Middle Bay Wood Creek
	6	Up river Karaka Creek area
	6	Middle Bay, Shoreline off Tuolumne Arm
	8	Woods Creek
9	Railroad Canyon, Tuolumne Canyon	

Anglers had an average of nearly 3 persons in their fishing party (Table 5.7-6), fishing an average of nearly 6 hours (Table 5.7-7).

**Table 5.7-6. Number Angling Party (n=274)**

Mean	Minimum	Maximum
2.64	1	27
Number of party	N	Percentage
1	71	25.9
2	122	44.5
3	34	12.4
4	19	6.9
5	12	4.4
6	3	1.1
7	5	1.8
8	1	0.4
10	1	0.4
12	2	0.7
15	2	0.7

Mean	Minimum	Maximum
20	1	0.4
27	1	0.4
<b>Total</b>	<b>274</b>	<b>100.0</b>

**Table 5.7-7. Hours Fished**

Average starting time	Average ending time	Average hours fished
08:36	13:08	5.9 hours

Anglers were also asked about various aspects of their fishing style (Table 5.7-8). Just over half (57 percent) of those surveyed utilized a boat to fish from. Most anglers used artificial lures (56 percent) and used a casting method (54 percent).

**Table 5.7-8. Angler Fishing Style**

Style	Type	N	Percentage
Mode (N=302)	Boat	150	56.8
	Shore	95	36.0
	All	19	7.2
Lure (N = 306)	Bait	39	15.0
	Artificial	146	56.2
	All	75	28.8
Method (N=256)	Casting	139	54.3
	Trolling	53	20.7
	Still	13	5.1
	Casting and Trolling	26	10.2
	Casting and Still	11	4.3
	All	14	5.5

More than a half of anglers reported being satisfied to extremely satisfied, with approximately 18 percent expressing some level of dissatisfaction (Table 5.7-9).

**Table 5.7-9. Overall, are you satisfied with your fishing experience on this trip to Don Pedro Reservoir?**

Extremely Dissatisfied		Mostly Dissatisfied		Moderately Dissatisfied		Somewhat Dissatisfied		Moderately Satisfied		Satisfied		Somewhat Satisfied		Mostly Satisfied		Extremely Satisfied	
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
6	2.5	4	1.6	14	5.8	19	7.8	50	20.6	23	9.5	43	17.7	32	13.2	52	21.4

## 5.8 Uniqueness of the Project-Related Recreation Opportunities

To identify the regional uniqueness and significance of the Project's reservoir recreation opportunities, two parameters were used. The first analyzed visitor responses to survey questions that asked visitors to rate the relative uniqueness of the recreation area they visited. The exact survey questions were:

- Please rate the relative uniqueness of the recreation opportunities at this recreation area relative to similar opportunities within the Central California area:

Extremely Common Opportunity		Extremely Unique Opportunity		
1	2	3	4	5

- Please explain, what, if anything is special or unique about this recreation area relative to other recreation areas in Central California.

The first question had pre-set responses using a 5-point scale. A rating of 1 meant the reservoir provided an “extremely common” opportunity, and a rating of 5 meant the reservoir provided an “extremely unique” opportunity. The average responses were sorted to provide a general uniqueness category. These categories were:

- Rating of 0 to 1.0 = extremely common
- Rating of 1.1 to 2.0 = common
- Rating of 2.1 to 3.0 = common/unique (neutral rating)
- Rating of 3.1 to 4.0 = unique
- Rating of 4.1 to 5.0 = extremely unique

Second, for the Project’s most popular primary recreation activities, the study team identified if these recreation opportunities are of local, regional, or state significance. The level of significance was assigned based on the county where visitors reside using the following definitions.

- Local Significance: visitors from Tuolumne County (where the Project is located)
- Regional Significance: visitors from counties surrounding Tuolumne County
- State-Wide Significance: visitors from all other counties outside of the local and regional counties

In addition, what is unique and special about the most popular recreation opportunities is described based on the comments provided by the visitors.

The following section describes the regional uniqueness and significance of each of the Project recreation areas.

### 5.8.1 Fleming Meadows

Overall, visitors rated Fleming Meadows as “unique,” with an average uniqueness rating of 3.74 (Table 5.8-1) Most visitors identified general and unique attributes of Fleming Meadows (See Attachment F, Table 1, for verbatim responses):

- Access.
- Natural conditions.
- Operations (staff and facilities).

- Fishing.
- Less congested.

With respect to visitors' origins, Fleming Meadows draws primarily from the region and outside the region (including SF Bay Area), therefore has statewide significance overall.

**Table 5.8-1. Rating of recreation area uniqueness, Fleming Meadows.**

<b>Rating</b>	<b>N</b>	<b>Percentage</b>
1 (Extremely Common Opportunity)	4	1.9
2	17	7.9
3	66	30.8
4	71	33.2
5 (Extremely Unique Opportunity)	56	26.2
<b>Total</b>	<b>214</b>	<b>100.0</b>

### 5.8.2 Blue Oaks

Overall, visitors rated Blue Oaks as “unique,” with an average uniqueness rating of 3.34 (Table 5.8-2). Most visitors identified general and unique attributes of Fleming Meadows (See Attachment F, Table 2, for verbatim responses)

- Access.
- Natural conditions.
- Operations (staff and facilities).
- Fishing.
- Less congested.

With respect to visitors' origins, similar to Fleming Meadows, Blue Oaks draws primarily from the region and outside the region (including SF Bay Area), therefore has statewide significance overall.

**Table 5.8-2. Rating of recreation area uniqueness, Blue Oaks.**

<b>Rating</b>	<b>N</b>	<b>Percentage</b>
1 (Extremely Common Opportunity)	6	4.1
2	20	13.5
3	65	43.9
4	32	21.6
5 (Extremely Unique Opportunity)	25	16.9
<b>Total</b>	<b>148</b>	<b>100.0</b>

Overall, visitors rated Moccasin Point as “unique,” with an average uniqueness rating of 3.41 (Table 5.8-3). Most visitors identified general and unique attributes of Moccasin Point (See Attachment F, Table 3, for verbatim responses):

- Access.
- Natural conditions.
- Operations (staff and facilities).
- Fishing.
- Less congested.

With respect to visitors' origins, similar to the other Don Pedro facilities, Moccasin Point draws primarily from local, regional and areas outside the region (including SF Bay Area), therefore has statewide significance overall.

**Table 5.8-3. Rating of recreation area uniqueness, Moccasin Point.**

Rating	N	Percentage
1 (Extremely Common Opportunity)	4	3.6
2	14	12.5
3	41	36.6
4	38	33.9
5 (Extremely Unique Opportunity)	15	13.4
<b>Total</b>	<b>112</b>	<b>100.0</b>

## 5.9 Existing Unmet Demand Assessment

Potential activities with high unmet demand in the Project Area were identified based on a review of unmet demand information derived from the California Department of Parks and Recreation (CDPR), including the 2008 California Outdoor Recreation Plan and the 2008 Survey on Public Opinions and Attitudes on Outdoor Recreation in California. The analysis also attempted to identify likely barriers or constraints to participation, and whether these are related to Project operations or recreation management decisions.

### 5.9.1 Information Related to Statewide and Regional Recreation Demand

#### 5.9.1.1 California Outdoor Recreation Plan

The California State Parks 2008 California Outdoor Recreation Planning Program (CORP) identifies trends and challenges in providing recreation opportunities to Californians. Trends identified by the 2008 CORP include:

- Rapid population growth
- Greater population densities in urbanized areas
- Demographic shifts in California such as:
  - Increased ethnic and cultural diversity
  - Estimated doubling of Californians aged 55 to 75 by the year 2030
  - Increased income inequality
- Increased rates of obesity combined with a decrease in children actively recreating outdoors

- Increased high-tech-related recreation, such as geocaching
- Decline in participation of some traditional outdoor activities such as hunting and fishing
- Increased use by Californians' of their state's park and recreation areas, due to a combination of the economic downturn, the rise in home foreclosures, and fluctuating gasoline prices
- Continued interest in the pursuit of adventure activities (e.g., mountain biking, scuba diving, kite surfing, and wilderness backpacking) and high-risk activities (e.g., rock climbing, bungee jumping, and hang gliding).

#### 5.9.1.2 2008 Public Opinions and Attitudes in Outdoor Recreational (POAOR) Survey Report

A critical component of the 2008 CORP is to determine the current attitudes, opinions, and beliefs of Californians regarding their experiences using outdoor recreation areas, facilities, and programs. This is achieved through the administration of the POAOR Survey (California State Parks, 2009). The survey was conducted in 2007 and differed from previous surveys by including surveys for both adult and youth populations. Similar to previous CORP reports, responses from Hispanic and non-Hispanic adult residents were compared in order to identify key differences and needs between these two groups.

To understand latent demand, Californians were asked to identify which activities they would like to participate in more often. A list of the activities with the highest latent demand for each of these subgroups is found in Tables 5.9-1 through 5.9-3.

**Table 5.9-1. Activities with highest latent demand – adult survey.**

Ranking	Activity	Ranking	Activity
1	Walking for fitness or pleasure	9	Attending outdoor cultural events
2	Camping in developed sites	10	Off-highway vehicle use
3	Bicycling on paved surfaces	11	Driving for pleasure, sightseeing
4	Day hiking on trails	12	Swimming in a pool
5	Picnicking in picnic areas	13	Wildlife viewing
6	Beach activities	14	Outdoor photography
7	Visiting outdoor nature museums	15	Swimming in freshwater lakes, rivers
8	Visiting historic or cultural sites	--	--

Source: California State Parks, Public Opinions and Attitudes on Outdoor Recreation in California, 2009, p. 38

**Table 5.9-2. Activities with highest latent demand – youth survey.**

Ranking	Activity	Ranking	Activity
1	Horseback riding	9	Surfing, boogie boarding
2	Sledding, ice acting, snow play	10	Waterskiing or wakeboarding
3	Snowboarding	11	Swimming in oceans, lakes, rivers and streams
4	Swimming in a pool	12	Archery
5	Jet skis or wave runners	13	Camping
6	Rock climbing	14	Attending outdoor events
7	Beach activities	15	Paddle sports
8	Off-road vehicle use	--	--

Source: California State Parks, Public Opinions and Attitudes on Outdoor Recreation in California, 2009, pp.112-114



**Table 5.9-3. Activities with highest latent demand – Hispanic adults.**

Ranking	Activity	Ranking	Activity
1	Bicycling on paved surfaces	9	Attending outdoor cultural events
2	Walking for fitness or pleasure	10	Off-highway vehicle use
3	Day hiking on trails	11	Driving for pleasure, sightseeing
4	Picnicking in picnic areas	12	Swimming in a pool
5	Visiting outdoor nature museums	13	Wildlife viewing
6	Camping in developed sites	14	Outdoor photography
7	Beach activities	15	Swimming in freshwater lakes, rivers
8	Visiting historical or cultural sites	--	--

Source: California State Parks, Public Opinions and Attitudes on Outdoor Recreation in California, 2009, pp.86-87

Additionally, there are primarily four types of outdoor recreation areas as outlined in the 2008 CORP. These included the following: highly developed park and recreation areas, developed nature-orientated park and recreation areas, historical or cultural buildings, sites and areas, and natural or undeveloped areas. Californians visit all four types of outdoor recreation areas, with the most popular being highly developed parks and recreation areas.

In summary, the Project Area currently provides opportunities for visitors to participate in many of the outdoor activities that they indicated they would like to participate in more frequently (i.e., have high latent demand). These opportunities are listed below.

- Camping in developed sites
- Day hiking on trails
- Picnicking in picnic areas
- Beach activities
- Wildlife viewing
- Outdoor photography
- Swimming in freshwater lakes, rivers
- Jet skiing or wave runner use
- Waterskiing or wakeboarding
- Paddle sports (canoeing, kayaking, row boating)

In addition, the Project Area provides opportunities and amenities for all types of visitors; house boating; picnic sites for large groups; developed nature areas; and natural or undeveloped areas.

### **5.9.2 Bureau of Land Management Sierra Resource Management Plan**

The BLM Sierra Resource Management Plan (RMP) was adopted in February 2008. The Sierra RMP has two recreation-oriented goals: 1) to ensure the continued availability of outdoor recreational opportunities while protecting other resources and uses; and 2) to ensure adequate river flows for boating, fishing, swimming, etc. In addition to the aforementioned recreation goals, five recreation objectives have also been adopted in the Sierra RMP: 1) develop recreation management strategies for large blocks of BLM land in wild and scenic river corridors; 2)

develop recreation sites that meet public health and safety standards; 3) mitigate conflicts between competing uses; 4) maintain existing visitor center, campground, trail, and day-use facilities to accepted BLM standards; and 5) manage recreation for a remote experience on the wild segments of the North Fork American, Tuolumne, and Merced rivers pursuant to the Wild and Scenic Rivers Act (USDOI BLM 2008).

### **5.10 Unmet Project Area Recreation Demand Information from Visitor Use Surveys**

The visitor use survey asked visitors about their recreational use preferences and expectations, their perceptions regarding the acceptability of facility conditions, and their interest regarding potential new recreation improvements. Additionally, visitors were asked to specify whether the levels of the water at the reservoir hindered them from participating in any of their desired activities. Overall, respondents indicated that the water levels had minimal or no impact on their ability to participate in recreational activities at the Project reservoir.

The majority of respondents to the Project Area indicated that they were camping/recreating at their preferred location. In addition, the majority of respondents indicated that there were no activities that they felt they were unable to participate in at the Project. There are a range of opportunities within the Project area and this diversity provides ample opportunities for the types of activities preferred by most respondents. Of those who did say they were unable to participate in recreational activities, the ability to have dogs on site was the most prevalent, followed by the desire for more foot trails.

Based on the information gathered in the visitor use surveys, potential activities with high unmet demand within the Project area do not exist. The Don Pedro Project Area provides a wide range of recreational opportunities throughout diverse geographic settings and locations. There are numerous opportunities for developed camping, picnicking, shoreline and boat fishing, water skiing, jet skiing, flat-water paddling, beach activities, swimming in lakes and streams, hiking or walking, wildlife viewing, and outdoor photography.

While the statewide POAOR Survey (California State Parks, 2009) did not identify what barriers prevented adults from increasing their participation in outdoor activities, California youth indicated that they are too busy; they would rather be on the internet, and it is too hot or cold outside. Californian adults, youths, and Hispanics also tend to participate in outdoor recreation activities that are close to home, while most of the Project's outdoor recreation opportunities require travel time.

### **5.11 Future Recreation Demand Assessment**

This section focuses on roughly estimating future recreation demand within the Study Area through 2050 by examining trends in relevant populations and recreation activities, registrations, licenses, and statistics. Obviously, projecting the future is a speculative activity, especially over a 40-year period; however, these projections are valuable for general planning purposes as they can provide a snapshot of what the future may look like related to the magnitude and composition of the Project's recreation use and activities.

### 5.11.1 Existing Recreation Use Trends

Californians actively pursue a variety of outdoor recreation activities (Table 5.11-1). Participation in these activities generates 46 billion dollars annually to California's economy, and provides 28.1 billion dollars annually in retail sales and services throughout the state (Outdoor Industry Foundation, 2008).

**Table 5.11-1. Outdoor recreation activity participation in California.**

Activity	# of Participants	% of Population
Trail Sports	8,905,167	34
Bicycling	7,467,740	28
Wildlife Viewing	5,336,000	19
Camping	4,862,899	18
Paddling (whitewater and flat-water)	2,956,918	11
Snow Sports	2,324,238	9
Fishing	2,212,496	8
Hunting	256,563	1

Source: Outdoor Industry Foundation (2008)

#### 5.11.1.1 Existing Population and Recreation Activity Participation Projections

Participation in outdoor recreation on public lands throughout the United States has remained relatively stable since the mid-1990s (Cordell et al, 2008); but the way in which Americans participate on public land has changed. Traditional outdoor recreation activities such as fishing are in decline, but participation in wildlife-associated recreation is increasing. According to the 2006 National Survey of Fishing, Hunting, and Wildlife Associated Recreation (FHWAR), participation in wildlife recreation grew during 2001–2006, or, by 6 percent, despite decreases in certain activities (such as hunting and fishing).

The growth in participation of wildlife recreation nationwide can be attributed to an increase in activities related to wildlife watching (e.g., observing, photographing, or feeding wildlife), which increased 8 percent during this same period. Additionally, participation in outdoor recreation activities such as mountain biking, rafting, and horseback riding on trails has also been in decline (Cordell et al, 2008). In contrast, participation in nature-based recreation such as snow shoeing, backpacking, and hiking are growing in California (Table 5.11-2).

**Table 5.11-2. Increased participation in nature-based, Project-related outdoor recreation activities in California.**

Outdoor Activity	2007 Participation	2008 Participation	Percent Increase
Backpacking	6,637,000	7,867,000	19
Hiking	29,965,000	32,511,000	9
Backyard/Local Car Camping	31,375,000	33,686,000	7
Recreational Kayaking	4,702,000	5,025,000	7
Bouldering/ Sport/Indoor Climbing	4,514,000	4,769,000	6
Bird watching	11,783,000	12,417,000	5
Wildlife Viewing	22,974,000	24,113,000	5

Source: Outdoor Industry Foundation (2012).

According to the Outdoor Industry Report (2009) published by Outdoor Industry Foundation in 2012, outdoor recreation participation in California is consistent with national trends. Participation in fishing among Californians decreased in the period between 2007 and 2010. For example, the number of fishing licenses sold in the state to both residents and non-residents dropped 13.4 percent (Table 5.11-3).

There is also evidence to suggest that wildlife-viewing-related recreation is increasing in California. According to the California Outdoor Recreation Economy Report, wildlife viewing was rated third among outdoor recreation activity participation, with 19 percent of respondents indicating participation in wildlife viewing. Participation in motorboating remains relatively stable throughout California with a decline in many counties offset by an increase in others. Registration of boating vessels registered between 2008 and 2009 in California increased slightly (5.6 percent).

**Table 5.11-3. Registration and license statistics for California residents and non-residents.**

Visitor Type	Fishing License Sold		
	2007	2010	% Change
<b>Resident</b>	1,283,454	1,112,783	-13.3%
<b>Non- Resident</b>	28,710	24,023	-16.3%
<b>Total</b>	1,312,164	1,136,806	-13.4%
Other	Boating Vessel Registrations		
	2008	2009	% Change
<b>Total</b>	857,158	905,146	5.6%

Sources: California Department of Boating and Waterways (2010); California Department of Fish and Wildlife (2013b).

#### 5.11.1.2 Existing Project Area Use Trends

For this study, the participation rates (by county of residence) were determined for the Don Pedro Project. Counties that accounted for 79 percent of participation at the Project (9 California counties) were examined to determine growth projections, fishing licenses sold, and recreation club participation.

#### **Fishing License and Boating Vessel Registration Trends**

The most current statistics for fishing license sales and boating vessel registration per county are displayed in Table 5.11-4. The national outdoor recreation trends of decreased fishing are also relevant to the rates of participation of recreation users at the Project.

**Table 5.11-4. Fishing license sales and boating registration.<sup>1</sup>**

County/CA	Fishing License Sold			Boating Vessel Registration		
	2000	2005*	% Change	2000	2010	% Change
Stanislaus	30,932	26,826	-13%	17,898	17,121	-4%
Santa Clara	39,000	28,095	-28%	32,242	23,686	-27%
Alameda	40,096	31,719	-21%	30,758	22,489	-27%
San Joaquin	43,399	38,354	-12%	24,297	23,597	-3%
Merced	12,276	11,619	-5%	6,271	6,211	-1%
Contra Costa	37,672	30,944	-18%	38,799	32,384	-17%
Tuolumne	11,239	10,594	-6%	5,727	5,842	2%
San Mateo	12,636	9,487	-25%	14,218	10,418	-27%

County/CA	Fishing License Sold			Boating Vessel Registration		
	2000	2005*	% Change	2000	2010	% Change
Sacramento	80,213	70,630	-12%	44,409	41,020	-8%
<b>Overall</b>	<b>307,463</b>	<b>258,268</b>	<b>-16%</b>	<b>214,619</b>	<b>182,768</b>	<b>-15%</b>

<sup>1</sup> Counties listed represent the majority (79 percent) of visitors to the Don Pedro Recreation Area.

\*Last recorded statistics by county.

Fishing License Source: California Department of Fish and Wildlife (2013a) (Note: Resident and non-resident sales combined).

Boating Source: California Department of Boating and Waterways (2012) (Note: PWC and all other boating vessels combined).

The number of fishing licenses sold decreased from the year 2000 to the year 2005 in all counties (Table 5.11-4). The counties where the sale of fishing licenses decreased the most included Santa Clara (-28 percent), San Mateo (-25 percent), and Alameda (-21 percent). The number of boating vessel registrations in counties decreased between 2000 and 2010, with the exception of Tuolumne County, which experienced a slight increase of 2 percent. The counties with the greatest percent decrease in boating registrations were Alameda, Santa Clara, and San Mateo (-27 percent).

Despite trends of decreased participation in some activities (e.g., fishing and boating), residents of these 13 counties are members of outdoor recreation groups with a focus on activities that are available at the Don Pedro reservoir. See Table 5.11-5 for a list of outdoor recreation clubs by county.

**Table 5.11-5. Outdoor recreation clubs by county by visitors within the Project Area.**

County	Fly Fishing Club	Hiking Clubs	Paddling Clubs
Alameda	Grizzly Peak Fly Fishers, El Cerrito	Women's East Bay Hiking Club	California Floaters Society
	Tri Valley Fishers, Livermore	Delta Group, Sierra Club	
	Oakland Casting Club, Oakland	North Alameda Group, Sierra Club	
	Mission Peak Fly Anglers, Fremont	South Alameda Group, Sierra Club	
Contra Costa	Diablo Valley Fly Fisherman, Walnut Creek	Antioch Trail Masters, Antioch	None found.
		California Adventure Club, Pittsburg	
		Mount Diablo Group Sierra Club	
		West Contra Costa Group, Sierra Club	
		Central Valley Hiking Group	
San Joaquin	Delta Fly Fishers, Stockton	Sierra Club Delta Sierra Group Stockton, CA	None found.
San Mateo	Peninsula Fly casters	San Carlos/Belmont Group Sierra Club	None found.
	Palo Alto Fly Fishers, Los Altos	None found.	
Santa Clara	Fly casters Inc of San Jose	South Bay Ramblers	Loma Prieta Paddlers
		Guadalupe Group, Sierra Club	Stanford Kayak Club
		Loma Prieta Group, Sierra Club	
Stanislaus	None found.	Central Valley Adventure Group	None found.
Tuolumne	None found.	Tehipite Group, Sierra Club	None found.

County	Fly Fishing Club	Hiking Clubs	Paddling Clubs
Sacramento	Granite Bay Fly Catsers, Granite Bay	Sierra Club, Sacramento	Motherlode Sierra Club Paddling Section
	California Fly Fishers Unlimited, Sacramento		

Sources: Flycaster.com (2011); Ask About Fly-fishing (2011); Sierra Club (Nov. 25, 2009). Meetup.com (May 14, 2011). Wetdawg (May 12, 2011). Adventure Sports Online (May 14, 2011).

### **Non-Motorized Boating Trends**

Non-motorized boating has increased significantly in California and is now considered the fastest growing segment of recreational boating in the state (CDBW 2009). Based on the 2009 California Department of Boating and Waterways report (*Non-Motorized Boating in California*), the total participation days for the Central Valley (includes the majority of the most common counties where Project visitors reside) is nearly 7.4 million (over 15 percent) of California's non-motorized boating population. The report does not quantify the growth of non-motorized boating beyond 2010; however, the report does identify several relevant general conclusions about non-motorized boating trends as follows (CDBW 2009, p. 9-11).

- The majority of those who do participate in non-motorized boating expect to either keep participating at the same levels, or increase participation, over the next five years.
- The number of non-motorized boat-owning households, and participants within those households, has increased at an estimated annual compound rate of growth of 3.84 percent from 2002 to 2006.
- The number of non-motorized boating participants is expected to continue to increase.
- The largest share of new non-motorized boaters is young adults and those in their 40s and 50s.

#### **5.11.2 Existing Population and Recreation Activity Participation Projections**

California is projected to continue to increase in population; this is mirrored in Stanislaus, San Joaquin, Santa Clara, Alameda, Merced, Tuolumne, Contra Costa, and San Mateo counties (Table 5.11-6). Even though a small percentage of survey respondents were from southern California, two southern California counties – Los Angeles and Orange - are included in these projection analyses based on DPRA gate receipts that report visitors from southern California, which is a heavily populated area with the potential to affect future use of recreation areas throughout the state. All counties are projected to increase in population. The counties projected to increase the most between 2010 and 2050 are Merced (94 percent), San Joaquin (77 percent), and Stanislaus (67 percent). These projections are meant only as a guide, as the recent financial downturn and housing crisis may affect the growth of some of the listed counties (California Department of Finance 2013).

**Table 5.11-6. Population projections of counties of recreation participants in the Project area.**

County	2010	2020		2030		2040		2050	
	Estimated Population	Projected Population	% Change (2010-2020)	Projected Population	% Change (2010-2030)	Projected Population	% Change (2010-2040)	Projected Population	% Change (2010-2050)
Alameda	1,513,236	1,608,204	6%	1,657,567	10%	1,678,565	11%	1,684,761	11%
Contra Costa	1,052,211	1,147,399	9%	1,254,205	19%	1,392,509	32%	1,489,068	42%
Merced	255,937	301,376	18%	366,352	43%	436,188	70%	496,787	94%
San Joaquin	686,588	810,845	18%	1,004,147	46%	1,213,708	77%	1,379,333	101%
Santa Clara	1,786,429	1,899,898	6%	1,986,545	11%	2,083,710	17%	2,152,199	20%
San Mateo	719,729	747,563	4%	803,288	12%	850,112	18%	895,603	24%
Stanislaus	515,205	589,156	14%	674,859	31%	759,027	47%	861,984	67%
Tuolumne	55,144	55,938	1%	57,982	5%	60,593	10%	61,678	12%
Los Angeles	9,824,906	10,441,441	6%	10,950,335	11%	11,243,022	14%	11,434,565	16%
Orange County	3,017,327	3,198,279	6%	3,286,100	9%	3,321,037	10%	3,324,920	10%
<b>California</b>	<b>37,309,382</b>	<b>40,643,643</b>	<b>9%</b>	<b>44,279,354</b>	<b>19%</b>	<b>47,690,186</b>	<b>28%</b>	<b>50,365,074</b>	<b>35%</b>

Source: California Department of Finance 2013.

### 5.11.3 Future Project Recreation Use and Occupancy

#### 5.11.3.1 Future Recreation Use Estimate through 2050

#### Methodology

The following methodology was used to project the recreation use estimates for the Project. The basic approach was to use the 2012 recreation use figures for the Project from January 1-December 31 as the baseline and apply county population growth rates to each use estimate. California county population projections were obtained from the State of California Department of Finance.<sup>3</sup> Information gathered by DPRA in recent years was used as the basis for the visitation levels and selecting the counties to be included. Next, the weighted percentage for each county was multiplied by the growth rate for each decade and the 2012 use estimate. For the “Other” category, the average growth rate index from for the state overall was calculated, and this average was incorporated as the weighted estimate for that group of visitors.

**Table 5.11-7. Recreation days by county of origin.**

COUNTY	Recreation Participants 2012	%
Stanislaus	71,015	27.07%
Tuolumne	16,892	6.44%
San Joaquin (est. 60% of 38,208)	22,925	8.74%
Merced (est. 40% of 38,208)	15,283	5.83%
S. California (Los Angeles County)	6,546	2.50%
S. California (Orange County)	6,546	2.50%

<sup>3</sup> <http://www.dof.ca.gov/research/demographic/reports/projections/p-3>

COUNTY	Recreation Participants 2012	%
Bay Area (Santa Clara)	23,253	8.86%
Bay Area (Alameda)	23,253	8.86%
Bay Area (Contra Costa)	23,253	8.86%
Bay Area (San Mateo)	23,253	8.86%
Other (remainder of state, out of state, out of country, undetermined)	30,090	11.47%
<b>Total</b>	<b>262,309</b>	<b>100%</b>

### **Annual Recreation Use Projections**

In 2012, the total number of visitor days was 262,309. Recreation days were highest during April through September, the peak season at the reservoir, comprising 93% of the use overall (Table 5.11-8). The highest number of visitor days occurred during July, with 33% of use overall. The lowest month overall was December.

**Table 5.11-8. Visitor Days by month.**

Month	# Visitor Days	%
January	2,221	1%
February	3,802	1%
March	5,147	2%
April	11,477	4%
May	29,331	11%
June	51,898	20%
July	86,940	33%
August	44,680	17%
September	19,735	8%
October	4,295	2%
November	1,748	1%
December	1,035	<1%
Total	262,309	100%

Source: Tables 5.2-1 and 5.2-3.

Annual recreation use estimate is projected to increase to 384,225 RDs by 2050, approximately a 46 percent increase from current annual use levels, based on population projections from 2010 to 2050 and Don Pedro Project 2012 use estimates (Table 5.11-9).

**Table 5.11-9. Annual recreation use estimate projections through 2050 based on county population growth rates.**

County	January-December 2012 Use	2020		2030		2040		2050	
		Projected Use	% Change Index	Projected Use	% Change Index	Projected Use	% Change Index	Projected Use	% Change Index
			2012-2020		2012-2030		2012-2040		2012-2050
Alameda	23,253	24,648	6%	25,388	10%	27,926	11%	30,719	11%
Contra Costa	23,253	24,183	9%	25,392	19%	29,455	32%	37,997	42%



County	January-December 2012 Use	2020		2030		2040		2050	
		Projected Use	% Change Index	Projected Use	% Change Index	Projected Use	% Change Index	Projected Use	% Change Index
			2012-2020		2012-2030		2012-2040		2012-2050
Merced	15,283	17,575	18%	20,739	43%	29,242	70%	43,278	94%
San Joaquin	22,925	26,364	18%	29,791	46%	39,324	77%	56,234	101%
Santa Clara	23,253	24,648	6%	26,374	11%	30,857	17%	37,028	20%
San Mateo	23,253	24,183	4%	24,909	12%	27,150	18%	29,594	24%
Stanislaus	71,015	80,247	14%	90,679	31%	119,696	47%	167,575	67%
Tuolumne	16,892	17,061	1%	17,743	5%	19,340	10%	21,468	12%
Los Angeles	6,546	6,939	6%	7,286	11%	8,233	14%	9,385	16%
Orange County	6,546	6,873	6%	7,286	9%	7,941	10%	8,656	10%
Other	30,090	32,487	9%	35,086	19%	42,806	28%	53,935	35%
<b>Projected Total</b>	<b>262,309</b>	<b>288,604</b>	--	<b>321,403</b>	--	<b>353,859</b>	--	<b>384,225</b>	--

### 5.11.3.2 Future Recreation Facility Utilization through 2050

The following section details the projected increase in campground, picnic area, and parking area occupancy rates for the peak season when recreation use is most concentrated and capacity issues are most likely to occur. First, the projections are based on specific activity projections developed by Cordell, et al. (1999) for each decade from 2020 through 2050. Of note, Cordell based the growth rate indices on the base year of 1995. For this report, the Districts adjusted the growth rates for 2020 through 2050 based on the current use levels. The following adjusted Cordell et al. growth rates for each type of facility were used:

- Developed Campgrounds - developed camping index
- Picnic Areas – average of picnic, non-pool swimming, and visiting waterside indices
- Developed Parking Areas- combination of motorized boating, visiting waterside areas, fishing, and non-pool indices

#### Campgrounds

At Don Pedro, the developed campgrounds (Fleming Meadows, Blue Oaks, and Moccasin Point) are all projected to be between 1 and 42 percent of overall occupancy during peak season by 2050. When examining weekend occupancies at these three campground areas, all are projected to be between 1 and 60 percent of overall occupancy during peak season by 2050. Weekday

occupancies during peak season are projected to all be 35 percent or lower by 2050. (Table 5.11-10)

**Table 5.11-10. Projected occupancy, by day type, for the Project campgrounds through 2050.**

Recreation Area	Season	Day Type	2012 Occupancy	2020 Proj.	2030 Proj.	2040 Proj.	2050 Proj.
Fleming Meadows	Peak	Overall	20%	32%	36%	39%	42%
		Weekday	25%	27%	30%	32%	35%
		Weekend	35%	46%	50%	55%	60%
	Non-Peak	Overall	4%	6%	6%	7%	7%
		Weekday	4%	5%	6%	6%	7%
		Weekend	5%	6%	7%	8%	8%
Blue Oaks	Peak	Overall	12%	15%	17%	19%	20%
		Weekday	8%	11%	12%	13%	14%
		Weekend	20%	27%	29%	32%	35%
	Non-Peak	Overall	0.60%	0.85%	0.94%	1.03%	1.12%
		Weekday	0.60%	0.80%	0.88%	0.96%	1.05%
		Weekend	0.70%	0.97%	1.06%	1.16%	1.27%
Moccasin Point	Peak	Overall	23%	31%	34%	37%	40%
		Weekday	20%	26%	28%	31%	34%
		Weekend	32%	42%	46%	50%	55%
	Non-Peak	Overall	6%	8%	9%	10%	11%
		Weekday	6%	8%	9%	10%	11%
		Weekend	7%	9%	10%	11%	12%

<sup>1</sup> This projection is based on Cordell's growth rates for developed camping (1.32 by 2020; 1.45 by 2030; 1.59 by 2040; and 1.73 by 2050).

## **Developed Picnic Areas**

### ***Don Pedro Reservoir***

In 2012, the overall picnic area occupancy rates for Don Pedro picnic facilities ranged from 0 to 42 percent (Table 5.11-11). Picnic sites with zero observed occupancy were not included in this analysis. Of those sites that did have observed participation, holidays have the highest overall occupancy, followed by weekends and weekdays. Projected use based on participation rates which included picnicking, visiting a waterside, and non-pool swimming, demonstrate occupancy below 75 percent in 2050, with the exception of holidays at Moccasin Point.

**Table 5.11-11. Projected peak season picnic area occupancy through 2050 by day type at Don Pedro picnic facilities.**

Recreation Area	Picnic Facility	Day Type	2012 Occupancy	2020 Proj.	2030 Proj.	2040 Proj.	2050 Proj.
Fleming Meadows	Swim Lagoon (19 VAOT)	Overall	22%	29%	31%	34%	37%
		Weekday	3%	4%	4%	5%	5%
		Weekend	20%	27%	29%	32%	34%
		Holiday	42%	55%	61%	66%	71%
Blue Oaks	Group Picnic Area (19 VAOT)	Overall	5%	6%	7%	8%	8%
		Weekday	0%	0%	0%	0%	0%
		Weekend	5%	6%	7%	7%	8%
		Holiday	5%	7%	8%	8%	9%

Recreation Area	Picnic Facility	Day Type	2012 Occupancy	2020 Proj.	2030 Proj.	2040 Proj.	2050 Proj.
Moccasin Point	Picnic Area (12 VAOT)	Overall	35%	45%	50%	54%	58%
		Weekday	8%	11%	12%	13%	14%
		Weekend	8%	10%	11%	12%	13%
		Holiday	88%	115%	126%	137%	148%

Picnic area projections are based on an average of Cordell's growth rates for non-pool swimming, visiting waterside area, and picnicking (1.29 by 2020; 1.44 by 2030; 1.57 by 2040; and 1.69 by 2050).

## **Parking Areas**

### ***Fleming Meadows***

In 2012, the overall occupancy rates for Fleming Meadows parking areas ranged from 0.2 percent to 146 percent (Table 5.11-13). By 2050, the only area projected to exceed capacity is the houseboat marina parking (VAOT 33). This has the highest occupancy rate (146 percent on holidays) of all the parking areas, and is projected to exceed weekend capacity by 2020, and overall capacity by 2040. The other parking areas are not projected to exceed the capacity of the parking area, with the highest projected occupancy at the swim lagoon reached on holidays (82 percent) by 2050.

### ***Blue Oaks***

In 2012, the overall occupancy rates for Blue Oaks parking areas ranged from 1.3 percent to nearly 44 percent (Table 5.8-13). On average, parking capacity overall is not expected to exceed 73 percent by 2050, with the highest expected average use on holidays (Table 5.11-13).

### ***Moccasin Point***

At Moccasin Point, the occupancy of parking areas ranged from 0 to 157 percent. The highest occupancy levels were reached at the group picnic area (85.9 percent) and marina (157 percent) on holidays (Table 5.11-12). The marina appears to be exceeding capacity currently, reaching 92.6 overall in 2012. The group picnic area is nearing capacity on holidays (98.3 percent) and weekends (85.9 percent). The group picnic area and marina are expected to exceed parking capacity by 2050 on weekends and holidays. However, the entrance overflow and main lot overflow parking areas will reach less than 25 percent by 2050 overall.

**Table 5.11-12. Current and projected average occupancy levels for parking areas at Don Pedro Reservoir.**

Recreation Area	Parking Facility	Day Type	% 2012 Occupancy	% 2020 Proj.	% 2030 Proj.	% 2040 Proj.	% 2050 Proj.
Fleming Meadows	Boat Launch Parking (376 VAOT)	Overall	23.9%	30.8%	34.1%	36.7%	40.1%
	The Lots Overflow (131 VAOT)	Weekday	7.3%	9.5%	10.5%	11.3%	12.3%
	<b>Total 510 VAOT</b>	Weekend	33.1%	42.7%	47.4%	51.0%	55.6%
		Holiday	44.4%	57.2%	63.5%	68.3%	74.5%

Recreation Area	Parking Facility	Day Type	% 2012 Occupancy	% 2020 Proj.	% 2030 Proj.	% 2040 Proj.	% 2050 Proj.
	Marina (72 VAOT)	Overall	22.7%	29.3%	32.5%	35.0%	38.2%
		Weekday	11.3%	14.5%	16.1%	17.3%	18.9%
		Weekend	26.0%	33.5%	37.2%	40.0%	43.7%
		Holiday	44.0%	56.8%	62.9%	67.8%	73.9%
	Swim Lagoon (190 VAOT)	Overall	24.3%	31.4%	34.8%	37.5%	40.9%
		Weekday	2.9%	3.7%	4.1%	4.5%	4.9%
		Weekend	37.3%	48.1%	53.4%	57.5%	62.7%
		Holiday	48.8%	63.0%	69.8%	75.2%	82.0%
	Loop D (106 VAOT)	Overall	7.4%	9.5%	10.5%	11.4%	12.4%
		Weekday	0.2%	0.2%	0.3%	0.3%	0.3%
		Weekend	12.9%	16.6%	18.4%	19.8%	21.6%
		Holiday	13.0%	16.7%	18.5%	20.0%	21.8%
	Loop B (71 VAOT)	Overall	2.4%	3.1%	3.4%	3.7%	4.0%
		Weekday	0.3%	0.4%	0.4%	0.4%	0.5%
		Weekend	4.1%	5.3%	5.8%	6.3%	6.8%
		Holiday	3.9%	5.0%	5.5%	6.0%	6.5%
	Group Picnic (25 VAOT)	Overall	5.0%	6.5%	7.2%	7.7%	8.4%
		Weekday	0.4%	0.5%	0.6%	0.6%	0.7%
		Weekend	5.3%	6.9%	7.6%	8.2%	8.9%
		Holiday	16.0%	20.6%	22.9%	24.6%	26.9%
	Amphitheater (71 VAOT)	Overall	9.9%	12.8%	14.2%	15.3%	16.7%
		Weekday	1.7%	2.2%	2.4%	2.6%	2.8%
		Weekend	12.5%	16.2%	17.9%	19.3%	21.1%
		Holiday	24.6%	31.8%	35.2%	38.0%	41.4%
	Houseboat Marina (33 VAOT)	Overall	65.6%	84.7%	93.9%	101.1%	110.3%
		Weekday	18.2%	23.5%	26.0%	28.0%	30.5%
		Weekend	82.5%	106.4%	118.0%	127.0%	138.6%
		Holiday	146.2%	188.6%	209.1%	225.2%	245.6%
Blue Oaks	Boat Launch Parking (140 VAOT)	Overall	19.7%	25.4%	28.1%	30.3%	33.0%
		Weekday	7.6%	9.8%	10.8%	11.7%	12.7%
		Weekend	22.6%	29.2%	32.3%	34.8%	38.0%
		Holiday	43.3%	55.9%	61.9%	66.7%	72.8%
	Group Picnic Area (45 VAOT)	Overall	2.8%	3.6%	4.0%	4.3%	4.7%
		Weekday	1.3%	1.7%	1.9%	2.1%	2.2%
		Weekend	18.5%	23.9%	26.5%	28.5%	31.1%
		Holiday	31.1%	40.1%	44.5%	47.9%	52.3%

Recreation Area	Parking Facility	Day Type	% 2012 Occupancy	% 2020 Proj.	% 2030 Proj.	% 2040 Proj.	% 2050 Proj.
Moccasin Point	Boat Launch Parking (220 VAOT) (Developed-115; Undeveloped 33; Boat Launch Overflow Developed-64; Boat Launch Overflow Undeveloped-8)	Overall	11.06%	14.27%	15.82%	17.04%	18.59%
		Weekday	3.13%	4.03%	4.47%	4.82%	5.25%
		Weekend	14.67%	18.93%	20.98%	22.60%	24.65%
		Holiday	22.77%	29.37%	32.56%	35.06%	38.25%
	Group Picnic Area (15 VAOT)	Overall	54.80%	70.69%	78.36%	84.39%	92.06%
		Weekday	9.33%	12.04%	13.35%	14.37%	15.68%
		Weekend	85.93%	110.85%	122.88%	132.34%	144.37 %
		Holiday	98.33%	126.85%	140.62%	151.43%	165.20 %
	Marina (21 VAOT)	Overall	92.57%	119.42%	132.38%	142.56%	155.52 %
		Weekday	46.19%	59.59%	66.05%	71.13%	77.60%
		Weekend	115.24%	148.66%	164.79%	177.47%	193.60 %
		Holiday	157.14%	202.71%	224.71%	242.00%	264.00 %
	Entrance Overflow Lot (8 VAOT)	Overall	1.63%	2.10%	2.32%	2.50%	2.73%
		Weekday	0.00%	16.13%	17.88%	19.25%	21.00%
		Weekend	0.00%	16.13%	17.88%	19.25%	21.00%
		Holiday	9.38%	12.09%	13.41%	14.44%	15.75%
	Main Lot, Overflow Lot (64 VAOT)	Overall	2.72%	3.51%	3.89%	4.19%	4.57%
		Weekday	1.02%	1.31%	1.45%	1.56%	1.71%
		Weekend	2.70%	3.49%	3.87%	4.16%	4.54%
		Holiday	7.03%	9.07%	10.05%	10.83%	11.81%

Parking area projections are based on an average of Cordell's growth rates for power boating, fishing, visiting waterside area, and non-pool swimming (1.29 by 2020; 1.43 by 2030; 1.57 by 2040; and 1.72 by 2050).

## **6.0 DISCUSSION AND FINDINGS**

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This section presents a summary of the data collected regarding current recreation use patterns and projected future use, demand, and need at the Don Pedro Reservoir. Overall, the DPRA maintains recreation sites and manages dispersed use to provide quality outdoor recreation experiences enjoyed by visitors. Existing facilities appear to meet current demand, and are generally in good condition with partial accessibility for persons with disabilities. Overall demand is being met for a wide range of outdoor recreation activities typical of reservoirs in central California.

### **6.1 Fleming Meadows Recreation Area**

#### **6.1.1 Facility Capacity**

Use levels through 2050 at Fleming Meadows Recreation Area are not projected to exceed the capacity of the campgrounds, picnic areas, and parking areas (including boat launch, marina, and overflow lots), except for the houseboat marina parking facility. The houseboat marina parking facility experienced over 80% occupancy on weekends in 2012. Based on population and general recreation use projections, weekend use is projected to exceed capacity by 2020 and overall use is projected to exceed capacity by 2040 as marina users continue to seek to park as close to the marina as possible. It is notable that this parking facility is used primarily by visitors to the marina slips; future parking demand will be driven by the number of marina slips. No marina expansion is proposed at this time. Use of the Overflow Parking Lot is projected to remain below capacity through 2050.

#### **6.1.2 Evaluation of the Condition, Accessibility, and Use Impacts**

##### **6.1.2.1 Facility Condition Assessment**

Fleming Meadows Recreation Area consists of 256 campsites, one group picnic area, one swim lagoon, one boat launch ramp, one fish cleaning station, and 14 toilet buildings (5 with showers). All of these facilities and site elements, as well as the condition of roads and parking facilities were evaluated.

Overall, roads and parking areas are in good to excellent condition, with only the marina parking area in fair condition. Campground features are also in good to excellent condition with a few exceptions including campsite shelters of wood construction in Campground Area A, and water faucets, which were identified as being in fair condition. With respect to day-use areas, overall, facilities are good to excellent conditions, with the exception of tables and faucets, which were found to be in fair condition.

The site buildings (toilet facilities, the entrance and fish cleaning stations) exteriors and roofs are in good to excellent condition, with interiors rated as fair to good overall. Just over half of the signs are new and constructed of synthetic materials in excellent condition. The remaining signs are constructed of wood and in good condition.

### 6.1.2.2 Accessibility Assessment

Fleming Meadows facilities are partially accessible with at least some accessible features, such as trash bins, toilets, and parking spaces while other buildings and facilities, including campsites and water spigots, are not accessible.

### 6.1.2.3 Recreation Use Impact Evaluation

The overall recreation use impact was low due to the fact most recreational facilities and sites are hardened (i.e., paved) from further impacts, which is typical of most developed sites. The type of impacts observed included trace amounts of litter, bare and compacted ground, and user created trails to the shoreline. Large contiguous areas of bare/compacted ground are typical of highly developed, high density campgrounds.

## 6.1.3 Visitor Use and Preferences

The majority of survey respondents visiting Fleming Meadows came from Stanislaus, Santa Clara, Alameda, San Joaquin, Merced, Contra Costa, or Tuolumne County, and learned about the area through word of mouth. More than half of survey respondents (62.3 percent) came as overnight visitors to Fleming Meadows. While day-use respondents came from a variety of locations, the majority resided in Stanislaus and Merced counties; whereas the majority of overnight respondents visiting Fleming Meadows resided in Stanislaus, Alameda, Santa Clara, and Contra Costa counties. And, of those overnight visitors, the majority of respondents reported staying in RV parks or campgrounds (67.4 percent), with about 23 percent utilizing houseboats.

Most frequently identified activities of day-use respondents visiting Fleming Meadows included fishing swimming, picnicking, flat-water, motorized boating, wildlife viewing, hiking or walking, and wakeboarding. Day-use visitor's primary recreation activities included fishing (44.9 percent), boating (14.1 percent), and swimming (10.3 percent). Whereas most frequent activities of overnight visitors primarily included camping, swimming, hiking and walking, fishing, wildlife viewing, picnicking, flat-water motorized boating. Primary activities identified by overnight respondents included camping (36.4 percent), houseboating (20.2 percent), and fishing, boating, and relaxing (7 percent). All of these activities are common to the area and to the Central Valley region.

With respect to respondents' impressions of whether or not the level of the reservoir was a problem at Fleming Meadows, the majority of both day-use and overnight respondents did not perceive the water level as a problem or indicated that they had no opinion or the question was not applicable to their visit.

Issues of safety and conflict were explored with visitors at Fleming Meadows. Results suggest that most visitors (89 percent) did not experience negative interactions, barriers to their desired recreation experience, or had activities they were unable to participate in that they would have liked to. Respondents also indicated that they did not experience crowding or had no opinion about crowding at the access areas, campgrounds, and facilities they utilized. A majority of respondents (92 percent) did not feel the need to adjust their behavior or move their location

while visiting Fleming Meadows, as most were recreating at their preferred location. Finally, when considering the recreation experience overall, respondents (84 percent) generally felt safe at Fleming Meadows. In addition, a majority of respondents (89 percent) did not experience any barriers or constraints that prevented them or a member of their group from participating in their desired recreation activities at Don Pedro Reservoir.

Overnight and day-use respondents generally felt either that facilities were acceptable overall, or they did not use or have an opinion concerning facilities. In addition, the majority of respondents felt that access within the project, such as the condition of the roads and foot trails were either acceptable or they did not have an opinion or did not use them. And, when asked about information sources, respondents generally reported the information resources were either acceptable or they had no opinion or did not utilize them.

With respect to facilities at Fleming Meadows, a majority of day-use respondents rated facilities within the acceptable range or had no opinion or did not use the facilities surveyed. Access was also rated within the acceptable range, as well as information sources overall. With respect to potential new recreation improvements, the majority of day-use visitors had no clear desire for specific improvements. However, based on the range of preference scores on facilities, the highest average improvement preference score was for restrooms (mean of 3.55 on a scale of 1-5).

Overnight respondents' preferences were similar overall. However, specific to campsite preferences, facilities with preference for improvements (i.e., the highest preference scores) included campsites (3.52), restrooms (3.67), and showers (3.66).

#### **6.1.4 Regional Uniqueness and Unmet Demand**

Fleming Meadows Recreation Area was viewed as a relatively unique recreation experience. Respondents generally felt that Fleming Meadows offered easy access, natural conditions, had a great staff and facilities, good fishing, and was less congested than comparable recreation facilities in central California.

In summary, the majority of respondents to Fleming Meadows did not identify recreational activities they would like to participate but could not within this area. Camping, houseboating, hiking and walking, fishing, and boating were the primary activities identified.

### **6.2 Blue Oaks Recreation Area**

#### **6.2.1 Facility Capacity**

Use levels through 2050 at Blue Oaks Recreation Area are not projected to exceed the capacity of the campgrounds, picnic areas, and parking areas (including boat launch and group picnic area parking).



## **6.2.2 Evaluation of the Condition, Accessibility, and Use Impacts**

### **6.2.2.1 Facility Condition Assessment**

Blue Oaks Recreation Area consists of 195 campsites, one group picnic area, one boat launch ramp, one fish cleaning station, 11 toilet buildings (5 with showers), and one sewage dump station facility. The evaluation included all of these facilities and site elements, as well as the condition of roads and parking facilities.

Overall, roads and parking areas are in good to excellent condition. Campground features are in good condition overall. The asphalt at the boat ramp main lot was the only parking area found to be in fair condition. With respect to day-use areas, the parking and roads are in excellent condition.

All of the campground facility features are in good or excellent condition, with the exception of a few wood campsite shelters, water faucets, and some trash receptacles in fair condition. Similar to Fleming Meadows, day-use facilities are in good or excellent condition, with the exception of tables and water faucets at the group picnic area and the boat launch, which are in fair condition.

With respect to the site buildings (toilet buildings and the entrance station), the condition assessments were similar to Fleming Meadows. With respect to toilet facilities, the exteriors are in good to excellent condition, while the interiors are in fair to good condition.

Signs within the Blue Oaks Recreation Area are generally in excellent to good condition. The signs constructed of synthetic materials are newer and in excellent condition. Whereas the signs constructed of wood material are in good condition overall.

### **6.2.2.2 Accessibility Assessment**

Blue Oaks facilities are partially accessible with at least some accessible features, such as trash bins, toilets, and parking spaces while other buildings and facilities, including water spigots and most campsites, are not accessible.

### **6.2.2.3 Recreation Use Impact Evaluation**

The overall recreation use impact was relatively high due to large contiguous areas of bare and compacted grounds, some litter, and some tree cutting occurring at sites. These impacts are typical of high density campgrounds such as the ones found in Blue Oaks.

## **6.2.3 Visitor Use and Preferences**

More than half of survey respondents (52.5 percent) came as overnight visitors to Blue Oaks. While day-use survey respondents came from a variety of locations, the majority resided in Stanislaus, San Joaquin, and Merced counties; whereas the majority of overnight respondents visiting Blue Oaks resided in Stanislaus, Santa Clara, Alameda, and San Joaquin counties. And,

of those overnight visitors, the majority of respondents reported staying in RV parks or campgrounds (79.5 percent), with about 12 percent utilizing houseboats.

Most frequently identified activities of day-use respondents visiting Blue Oaks were fishing, wildlife viewing, flat-water, motorized boating, swimming, hiking or walking, waterskiing and wakeboarding. Day-use visitors' primary recreation activities included fishing (75.8 percent), watersports (7.6 percent), and boating (6.1 percent). Whereas most frequent activities of overnight visitors primarily included camping, swimming, hiking and walking, picnicking, fishing, flat-water motorized boating, wildlife viewing, wakeboarding, and waterskiing. Primary activities identified by overnight respondents included camping (38.4 percent), boating (11 percent), houseboating (8.2 percent), and fishing (6.8), and relaxing (5.5 percent). All of these activities are common to the area and to the Central Valley region.

With respect to respondents' impressions of whether or not the level of the reservoir was a problem at Blue Oaks, the majority of both day-use and overnight respondents did not perceive the water level as a problem or indicated that they had no opinion or the question was not applicable to their visit.

Issues of safety and conflict were explored with visitors at Blue Oaks Recreation Area. Results suggest that most visitors (91 percent) did not experience negative interactions, barriers to their desired recreation experience, or had activities they were unable to participate in that they would have liked to. Respondents also indicated that they did not experience crowding, or had no opinion about crowding, at the access areas, campgrounds, and facilities they utilized. Therefore, a majority of respondents (98.6 percent) did not feel the need to adjust their behavior or move their location while visiting Blue Oaks, as most (88 percent) were recreating at their preferred location. Finally, when considering the recreation experience overall, respondents (89.2 percent) generally felt safe at Blue Oaks. In addition, a majority of respondents (89 percent) did not experience any barriers or constraints that prevented them or a member of their group from participating in their desired recreation activities at Don Pedro Reservoir.

Very similar to Fleming Meadows, overnight and day-use respondents generally felt that either facilities were acceptable overall, or they did not use or have an opinion concerning facilities. In addition, the majority of respondents felt that access within the project, such as the condition of the roads and foot trails were either acceptable or they did not have an opinion or did not use them. And, when asked about information sources, respondents generally agreed the information resources were either acceptable or they had no opinion or did not utilize them.

With respect to facilities at Blue Oaks, a majority of respondents rated access within the acceptable range or had no opinion or did not use the facilities surveyed. Access and information sources were also rated in the acceptable range overall. With respect to potential new recreation improvements, the majority of day-use visitors had no clear desire for specific improvements. The highest preference score was for restrooms 3.51 on a scale of 1-5.

Overnight respondents' preferences were similar overall. However, specific to campsite preferences, facilities with preference for improvements (i.e., the highest preference scores) include restrooms (3.85), and showers (3.82). In addition, overnight respondents identified

higher average preference scores for improvements to foot trails to the shoreline (3.57) and around the shoreline (3.51).

#### **6.2.4 Regional Uniqueness and Unmet Demand**

Blue Oaks Recreation Area was viewed as a relatively unique recreation experience, however, slightly less so than Fleming Meadows. Nonetheless, respondents cited very similar reasons for their uniqueness ratings similar to Fleming Meadows, identifying easy access, natural conditions, a great staff and facilities, good fishing, and less congestion as primary themes.

In summary, the majority of respondents to Blue Oaks did not identify recreational activities they would like to participate but could not within this area. Camping, houseboating, and fishing were the primary activities identified.

### **6.3 Moccasin Point Recreation Area**

#### **6.3.1 Parking Capacity**

Use levels projected through 2050 at Moccasin Point Recreation Area are not projected to exceed the capacity of the campgrounds, picnic areas, and parking areas (including boat launch, marina, and overflow lots), except for the marina and group picnic parking facilities. The marina parking facility experienced over 100 percent occupancy on holidays and weekends in 2012, and overall use is projected to exceed capacity by 2020 as marina users seek to park as close to the marina as possible. Use of the entrance overflow and main lot overflow parkings lot are projected to remain below capacity through 2050.

#### **6.3.2 Evaluation of the Condition, Accessibility, and Use Impacts**

##### **6.3.2.1 Facility Condition Assessment**

Moccasin Point Recreation Area is the smallest of the three primary recreation areas and consists of 96 campsites, two group picnic areas, one boat launch ramp, one fish cleaning station, and 8 toilet buildings (2 with showers). The evaluation included all of these facilities and site elements, as well as the condition of roads and parking facilities.

Overall, roads and parking areas are in good to fair condition. The parking areas are generally in good condition, with the gravel parking area (marina lower lot) in fair condition. The Boat Launch Overflow Parking Lot is recently constructed and in excellent condition. Campground features are also in good to excellent condition with one exception, food lockers in Campground areas B and C, some water faucet features in area B, and trash receptacles in area A, which were identified as being in fair condition. Similar to both Fleming Meadows and Blue Oaks, day-use area facilities overall are in good to excellent condition, with the exception of the trash facilities at the boat launch and group picnic area, which were found to be in fair condition.

The site buildings (toilet facilities, the entrance and fish cleaning stations, the marina store/office) exteriors and roofs are in good to excellent condition, with interiors also rated as

good to excellent, with the exception of fair at Campground A. Signs within the recreation area were also inventoried and assessed. Unlike the other recreation areas, signs at Moccasin Point have not been replaced in some time, and were found mostly constructed of wood—which overall were found to be in fair condition. The signs constructed of metal were in good condition overall.

#### 6.3.2.2 Accessibility Assessment

Moccasin Point facilities are partially accessible with at least some accessible features, such as trash bins, toilets, and parking spaces while other buildings and facilities, including campsites, water spigots, and toilets in the campground, are not accessible.

#### 6.3.2.3 Recreation Use Impact Evaluation

The overall recreation use impact was relatively high, with large contiguous areas of bare and compacted ground. These impacts are typical of high density campgrounds such as the ones found in Moccasin Point.

### 6.3.3 Visitor Use and Preferences

More than half of survey respondents (57.8 percent) came as overnight visitors to Moccasin Point. While day-use survey respondents came from a variety of locations, the majority resided in Tuolumne, Stanislaus, and San Joaquin counties; whereas the majority of overnight respondents visiting Moccasin Point resided in Stanislaus, Santa Clara, Alameda, and San Mateo counties. Similar to other recreation areas within the Project, the majority of overnight respondents reported staying in RV parks or campgrounds (72.9 percent), with about 24 percent utilizing houseboats.

Most frequently identified activities of day-use respondents visiting Moccasin Point included fishing swimming, flat-water motorized boating, wildlife viewing, and picnicking. Day-use visitors' primary recreation activities included fishing (39.5 percent), boating (18.6 percent), and picnicking and relaxing (9.3 percent). Whereas most frequent activities of overnight visitors primarily included camping, wildlife viewing, fishing, hiking or walking, swimming, flat-water motorized boating, and picnicking. Primary activities identified by overnight respondents included camping (39.0 percent), fishing (18.6 percent), and houseboating (11.9 percent). All of these activities are common to the area and to the Central Valley region. The majority of respondents (76.5 percent) learned about the Moccasin Point Recreation Area through word of mouth.

Similar to respondents who visited other recreation areas within the Project, respondents' impressions of whether or not the level of the reservoir was a problem at Moccasin Point, the majority of both day-use and overnight respondents did not perceive the water level as a problem or indicated that they had no opinion or the activity was not applicable to their visit.

Issues of safety and conflict were explored with visitors at Moccasin Point. Results are consistent with respondents from other recreation areas within the Project: most visitors (91

percent) did not experience negative interactions, barriers to their desired recreation experience, or had activities they were unable to participate in that they would have liked to. Respondents also indicated that they did not experience crowding, or had no opinion about crowding, at the access areas, campgrounds, and facilities they utilized. Therefore, a majority of respondents (98.0 percent) did not feel the need to adjust their behavior or move their location while visiting Moccasin Point, as most (92 percent) were recreating at their preferred location. Finally, when considering the recreation experience overall, respondents (91 percent) generally felt safe at Moccasin Point.

Very similar to Fleming Meadows and Blue Oaks Recreation Areas, overnight and day-use respondents generally felt that either facilities were acceptable overall, or they did not use or have an opinion concerning facilities. In addition, the majority of respondents felt that access within the project, such as the condition of the roads and foot trails were either acceptable or they did not have an opinion or did not use them. And, when asked about information sources, respondents generally agreed the information resources were either acceptable or they had no opinion or did not utilize them.

With respect to facilities at Moccasin Point, a majority of respondents rated access within the acceptable range or had no opinion or did not use the facilities surveyed. Access and information sources were also rated in the acceptable range overall. With respect to potential new recreation improvements, the majority of day-use visitors had no clear desire for specific improvements. The highest average preference score was less than 3.5 on a scale of 1-5, with only restrooms identified slightly higher, with a preference score of 3.51.

Overnight respondents' preferences were similar overall. However, facilities with preference for improvements (i.e., the highest preference scores) include boat-in campsites (3.76), boat trailer parking (3.52), and longer parking spurs in campsites (3.58).

A majority of respondents (96 percent) at Moccasin Point did not experience any barriers or constraints that prevented them or a member of their group from participating in their desired recreation activities at Don Pedro Reservoir.

#### **6.3.4 Regional Uniqueness and Unmet Demand**

Moccasin Point Recreation Area was viewed as a relatively unique recreation experience, similar to Fleming Meadows and Blue Oaks overall. Respondents cited very similar reasons for their uniqueness ratings to Fleming Meadows and Blue Oaks, identifying easy access, natural conditions, a great staff and facilities, good fishing, and less congestion as primary themes.

In summary, the majority of respondents to Moccasin Point did not identify recreational activities they would like to participate but could not within this area. Camping, fishing, boating and houseboating appear to be the primary activities identified overall.

## **6.4 Angling Use and Preference**

The results of the angler survey combine respondents from all three Recreation Areas. The majority (56 percent) of anglers surveyed had fished at Don Pedro Reservoir previously, and generally between 1-10 times overall within the past year. Most (91.5 percent) of the anglers surveyed had not participated in tournaments at Don Pedro Reservoir.

With respect to crowding, similar to respondents overall, anglers did not feel crowded during their fishing experience. A slight majority (55.6 percent) of anglers fished via boat, used artificial lures (57.5 percent), and cast as their primary fishing method (52.4 percent). With respect to catch, the majority reported catching 2-3 fish, including black bass, trout, and salmon. Anglers reported being satisfied overall with their fishing experience at Don Pedro Reservoir. Results of these creel survey questions are included in the Reservoir Fish Population Survey (W&AR-17) Study Report.

## **6.5 Boat-in and Dispersed Recreation Areas**

### **6.5.1 Wreck Bay Boat-in Camping**

The Wreck Bay Boat-in Camping Area which consists of 6 campsites with a picnic table and two toilet buildings was evaluated. The condition of the site elements is excellent overall. The site buildings (toilets) varied, with the concrete building in good condition and the plastic construction toilet in fair condition.

Signage at Wreck Bay was in fair condition overall. Evaluation of the facilities suggests they are inaccessible, yet overall, in good condition. The recreation use impact was found to be low, with only small amounts of impact directly surrounding the tables or campsite areas.

### **6.5.2 Ward's Ferry Bridge**

The Ward's Ferry site consists of a vault toilet, unimproved trails to the river, and undeveloped parking areas. The vault toilet was found in good condition and the parking areas along the road were found to be in fair condition. The site received a high use impact rating due to the observed presence of graffiti, litter, and toilet paper litter.

### **6.5.3 Dispersed Developed Toilet Facilities**

Don Pedro Reservoir has 11 developed toilet facilities dispersed throughout the reservoir, including 8 floating toilets and 3 land-based toilets. Overall the floating toilets are in good condition; the Graveyard Creek toilet in excellent condition; and the Lucas Bay and Mud Flats toilets in fair condition. The dispersed toilets were not designed to be accessible.

Signage in the dispersed area toilet facilities was limited, but signs that were located were of metal material and in good condition overall.

#### **6.5.4 Dispersed Shoreline Recreation Areas**

The study team inventoried and evaluated the recurrent dispersed recreation locations along the Don Pedro reservoir shoreline. These areas are outside the Project developed recreation facilities and within the FERC Project Boundary. Twenty-three locations that showed signs of recreational use were identified, and impact assessments were conducted at these sites. The majority of these sites (70 percent) showed low impacts; with 22 percent showing moderate impact; and, two sites showing high impact. The high impact sites had signs of high use and widespread impacts such as frequent signs of toilet paper, user created trails, bare and compacted ground, and trampled vegetation, and fire rings without adequate clearances. All of the sites were mapped for continued reference and monitoring by DPRA as part of their routine maintenance and recreation management patrols.

## **7.0 STUDY VARIANCES AND MODIFICATIONS**

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The study was performed without variance from the FERC-approved study plan and the objectives for this study have been met.



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**STUDY REPORT RR-01  
RECREATION FACILITY CONDITION AND PUBLIC ACCESSIBILITY  
ASSESSMENT, AND RECREATION USE ASSESSMENT**

**ATTACHMENT A**

**RECREATION FACILITY INVENTORY FORM**

**Attachment A – Study RR-01 Example Evaluation Form for Recreation Facility Inventory, Condition & Accessibility**

<b>ENTRANCE STATION</b>			
<u>Exterior Material:</u> Wood/Metal/Synthetic/Concrete		<u>Condition:</u> 0 1 2 3	
<u>Roof Material:</u> Wood/Metal/Synthetic/Concrete		<u>Condition:</u> 0 1 2 3	
<b>SIGNS</b>			
<u>Type:</u> Facility ID/Info-Regs/Directional/Other		<u>Material:</u> Wood/Metal/Synthetic/Concrete	
<u>Condition:</u> 0 1 2 3		<u>Location:</u> <input type="text"/>	
		<u>Description:</u> <input type="text"/>	
<b>RESTROOM BUILDING</b>			
<u>Exterior Type:</u> CXT/Wood/Concrete/Other		<u>Condition:</u> 0 1 2 3	
<u>Roof</u> CXT/Shingle/Metal		<u>Condition:</u> 0 1 2 3	
<u>Access Route</u> <u>ORAR:</u> Y/N			
<u>Interior Type:</u> Flush/Vault/Pit		<u># Toilets:</u> <input type="text"/>	
<u># Urinals:</u> <input type="text"/>		<u># Sinks:</u> <input type="text"/>	
<u># Showers:</u> <input type="text"/>		<u>Condition:</u> 0 1 2 3	
		<u>ADA:</u> Y/N	
<b>TRASH</b>			
<u>Type:</u> Dumpster/Receptacle		<u>Condition:</u> 0 1 2 3	
<u>ADA:</u> Y/N		<u>Access Route</u> <u>ORAR:</u> Y/N	
<b>WATER FAUCET</b>			
<u>Type:</u> Metal / Concrete		<u>Condition:</u> 0 1 2 3	
<u>ADA:</u> Y/N		<u>Access Route</u> <u>ORAR:</u> Y/N	
<b>PARKING AREA - STRIPED (not associated with an individual site)</b>			
<u>Material:</u> Asphalt/Gravel/Dirt		<u>Condition:</u> 0 1 2 3	
<u># of Standard Spaces:</u> <input type="text"/>		<u>Size (ft):</u> L <input type="text"/> W <input type="text"/>	
		<u># ADA:</u> <input type="text"/>	
<u># of RV Spaces:</u> <input type="text"/>		<u>Size (ft):</u> L <input type="text"/> W <input type="text"/>	
		<u># ADA:</u> <input type="text"/>	
<b>PARKING AREA – GENERAL/NO STRIPING (not associated with an individual site)</b>			
<u>Material:</u> Asphalt/Gravel/Dirt		<u>Condition:</u> 0 1 2 3	
<u>Size (ft):</u> L <input type="text"/> W <input type="text"/>		<u>ADA:</u> Y/N	
<b>BOAT RAMP</b>			
<u>Material:</u> Asphalt/Concrete/Gravel/Dirt		<u>Condition:</u> 0 1 2 3	
<u># Lanes:</u> <input type="text"/>		<u>Dock:</u> Y/N	
<u>Material:</u> Wood/Synthetic/Other		<u>Condition:</u> 0 1 2 3	
		<u>ADA:</u> Y/N	
<b>PICNIC SITE</b>			
<u>Site #</u> <input type="text"/>		<u>Marker Type:</u> Wood/Metal/Synthetic	
		<u>Condition:</u> 0 1 2 3	
<u>Access Routes</u> a. Parking to Group Area: <u># ORARs:</u> <input type="text"/>			
<u>Table Type:</u> Wood/Concrete/Synthetic/Metal/Wood-Metal		<u>Condition:</u> 0 1 2 3	
		<u>ADA:</u> Y/N	
<u>Grill Type:</u> Metal / Concrete / None		<u>Condition:</u> 0 1 2 3	
		<u>ADA:</u> Y/N	
<b>CAMPSITE</b>			
<u>Site #</u> <input type="text"/>		<u>Type:</u> Single/Double/Triple/Host	
		<u>Marker Type:</u> Wood/Metal/Synthetic	
		<u>Condition:</u> 0 1 2 3	
<u>Parking Spur Type:</u> Asphalt/Gravel/Dirt		<u>Barriers:</u> Wood/Rock/Log/None	
		<u>Condition:</u> 0 1 2 3	
		<u>ADA:</u> Y/N	
		<u>Size (ft):</u> L <input type="text"/> W <input type="text"/>	
<u>Tent Pad No. 1:</u> <u>Size (ft):</u> L <input type="text"/> W <input type="text"/>		<u>Raised:</u> Y/N	
		<u>ADA:</u> Y/N	
<u>No. 2:</u> <u>Size (ft):</u> L <input type="text"/> W <input type="text"/>		<u>Raised:</u> Y/N	
		<u>ADA:</u> Y/N	
<u>Access Routes</u> a. Parking to Living Area: <u>ORAR:</u> Y/N		b. Living Area to Tent Pads: <u>ORAR:</u> Y/N	
<u>Table Type:</u> Wood/Concrete/Synthetic/Metal/Wood-Metal		<u>Condition:</u> 0 1 2 3	
		<u>ADA:</u> Y/N	
<u>Food Locker Type:</u> Wood / Metal / Other		<u>Size:</u> <30 cu. ft / 30+ cu. ft.	
		<u>Bear-Proof:</u> Y/N	
		<u>Condition:</u> 0 1 2 3	
		<u>ADA:</u> Y/N	
<u>Fire Ring Type:</u> Metal / Rock-Metal / Rock		<u>Condition:</u> 0 1 2 3	
		<u>ADA:</u> Y/N	
<u>Pedestal Grill Type:</u> Metal / Rock-Metal / Rock		<u>Condition:</u> 0 1 2 3	
		<u>ADA:</u> Y/N	
<u>Shelter Type:</u> Wood / Metal / Other		<u>Condition:</u> 0 1 2 3	
		<u>ADA:</u> Y/N	
<u>RV Hookup Type:</u> None / H <sub>2</sub> O / Elec / H <sub>2</sub> O+Elec		<u>Condition:</u> 0 1 2 3	
		<u>ADA:</u> Y/N	

**STUDY REPORT RR-01**  
**RECREATION FACILITY CONDITION AND PUBLIC ACCESSIBILITY**  
**ASSESSMENT, AND RECREATION USE ASSESSMENT**

**ATTACHMENT B**

**SAMPLE VISITOR SURVEY INSTRUMENT**

**Recreation Visitor Survey for the Don Pedro Project (FERC Project No. 2299)**

The following survey has been designed to help the MID and TID understand the needs of users of the recreational facilities and opportunities it provides at Don Pedro Reservoir. The survey takes approximately 15 minutes to complete.

These questions are generally for the overall recreation area (e.g., reservoir and associated facilities) you are currently visiting. However, some questions are for the specific recreation facility or site you are currently visiting (e.g., campground, picnic area, boat launch, shoreline camping area, etc.). Please be aware of this distinction when reading each question.

**Your Trip Characteristics**

**1. Name of the recreation site/facility where survey is being conducted (survey administrator can enter this).**

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**2. Which other areas/facilities in the Don Pedro Reservoir area do you plan to visit on this trip? Refer to map if necessary.**

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**3. If you are staying overnight, where are you staying or camping today? (Check One)**

- Not staying overnight, this is a day visit only.
- Dispersed shoreline camping at Don Pedro Reservoir (permit required)
- Houseboat? Owned \_\_\_\_\_ Rented\_\_\_\_\_
- Camping outside of a designated camping area (dispersed site/area)?
- RV park or campground. If so, what is the name of the campground you are staying at? \_\_\_\_\_
- Other (please specify): \_\_\_\_\_

**4. When did you arrive and plan to depart this recreation area?**

Arrival		Estimated Departure	
Date:	AM / PM (circle one)	Date:	AM / PM (circle one)

**5. Regarding Don Pedro Reservoir, do you consider yourself:**

- A regular visitor (3 or more times per year)
- An occasional visitor (1-2 times per year)
- An infrequent visitor ( Less than 1 time per year)
- This is my first visit

**6. Which of the following best describes your recreation group? (Check One)**

- Alone
- Friends
- Family & Friends
- Family
- Multiple Families
- Organized Group Outing
- Other (specify): \_\_\_\_\_.

**7. How many people, vehicles, boats, and water-related equipment are included with the group you traveled with during your current visit to this recreation area? (Write a number for each)**

- |   |  |
|---|--|
| _____ People (include yourself)<br>Adults: _____<br>Children _____          | _____ Powerboats (under 15 hp)                     |
| _____ Vehicles used to travel to the area (include Trucks, cars, TVs, etc.) | _____ Powerboats (15 hp or larger)                 |
| _____ Trailer for Boat/PWC/Raft   | _____ Personal Watercraft (PWC)                    |
| _____ RV/Camper (Length in ft: _____)<br>(If more than 1 give range)        | _____ Canoes/kayaks/other non-motorized Watercraft |
| _____ Camper Trailer (Length in ft: _____)<br>(If more than 1 give range)   | _____ Fishing tubes                                |
| _____ Tents   | _____ Skis, wakeboards, other tow-behind toys      |
|   | _____ Other, specify: _____                        |

**8. Which of these activities do you expect to participate in during your current visit to this recreation area? (Check All That Apply)**

<input type="checkbox"/> Camping	<input type="checkbox"/> Swimming
<input type="checkbox"/> Driving for pleasure	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Fishing	<input type="checkbox"/> Wakeboarding
<input type="checkbox"/> Houseboating	<input type="checkbox"/> Other tow-behind toys
<input type="checkbox"/> Flat-water, motorized boating	<input type="checkbox"/> Flat-water, non-motorized boating (e.g., kayaks, canoes)
<input type="checkbox"/> Personal watercraft use (e.g. jetskiing)	<input type="checkbox"/> River/stream boating (e.g., raft, kayak, canoe)
<input type="checkbox"/> Mountain biking	<input type="checkbox"/> Wildlife viewing (e.g., birding)
<input type="checkbox"/> Picnicking	<input type="checkbox"/> Other (specify): _____
<input type="checkbox"/> Hiking or walking	

**9. Please list your primary recreation activity for your current visit:**

---

**If you have fished or expect to fish in this area on this trip please complete the following questions**

F1. Have you fished in the Don Pedro Reservoir area before this trip?

- Yes. Approximately how many times over the past 12 months? \_\_\_\_\_
- No

F2. Have you participated in fishing tournaments in the Don Pedro Reservoir area in the last 12 months?

- Yes. Which ones? \_\_\_\_\_
- No

F3. Please indicate how crowded you felt at the area you fished today.

1-----2-----3-----4-----5-----6-----7-----8-----9  
Not at all                      Slightly                                      Moderately                                      Extremely

F4. Please describe your fishing trip today.

Number of anglers in your party \_\_\_\_\_

Area(s) Fished \_\_\_\_\_

Hours Fished \_\_\_\_\_

F5. Please circle all of the following techniques that apply to your trip today:

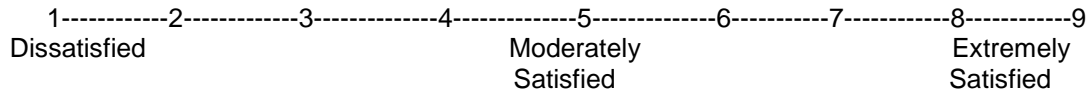
- Mode:**     Boat             Shore
- Lure:**     Bait                Artificial
- Method:** Casting     Trolling     Still



F6. Complete the following table about the species you are fishing for today and whether or not you caught any fish.

Are you fishing for:	Number of fish caught in each size category			# Released
	0 -11"	12-24"	>24"	
Black Bass				
Bluegill				
Catfish				
Crappie				
Trout				
Salmon				
Other				

F7. Overall, are you satisfied with your fishing experience on this trip to Don Pedro Reservoir?



F8. May I measure, weigh, and identify the fish you and others in your party have with you?

- Yes. (Record on separate sheet.)
- No

**Your Thoughts on Existing Conditions at this Recreation Area...**

**10. Please indicate whether or not the level of the reservoir or river was a problem for each of the following at the recreation area you are currently visiting.**

(Circle one number for each)	Not a problem	A small problem	Neither	A moderate problem	A large problem	No Opinion/ Not Applicable
Ability to use beach area	5	4	3	2	1	<input type="checkbox"/>
Ability to safely swim	5	4	3	2	1	<input type="checkbox"/>
Ability to launch or take out boat	5	4	3	2	1	<input type="checkbox"/>
Ability to safely boat	5	4	3	2	1	<input type="checkbox"/>
Ability to utilize trails	5	4	3	2	1	<input type="checkbox"/>

<i>(Circle one number for each)</i>	Not a problem	A small problem	Neither	A moderate problem	A large problem	No Opinion/ Not Applicable
Ability to access shoreline campgrounds	5	4	3	2	1	<input type="checkbox"/>
Ability to fish along the shoreline	5	4	3	2	1	<input type="checkbox"/>
Ability to access the shoreline	5	4	3	2	1	<input type="checkbox"/>
Scenic quality of shoreline	5	4	3	2	1	<input type="checkbox"/>
Other (specify):	5	4	3	2	1	<input type="checkbox"/>

11. A) Did you experience any conflict with other recreation users in this recreation area (i.e., anyone who negatively impacted your experience)?

Yes  No

B) If YES, what was the activity of the other recreation user? (Check One)

- Motorized boater       Hiker       Unsure  
 Non-motorized boater       Camper       Other (specify): \_\_\_\_\_  
 Mountain biker       Wildlife Viewer

C) If you experienced conflict, please check the reasons that contributed to the conflict. (Check All That Apply)

Proximity to where we       Rowdiness       Loudness       Other (specify): \_\_\_\_\_

12. Please rate the acceptability of the following Existing Conditions at the Recreation Facility / Site you are currently visiting (this site is identified at the start of the survey).

**Important:** Please only circle a number for the items that you used during your visit to this Specific Recreation Facility / Site. Please check the "Did Not Use" box, if you did not use the item or it does not exist at the Specific Recreation Facility / Site.

FACILITIES	Acceptable	Slightly Acceptable	Neither	Slightly Unacceptable	Unacceptable	Did Not Use/ Not Applicable
Camp sites	5	4	3	2	1	<input type="checkbox"/>
Camp site parking spur size	5	4	3	2	1	<input type="checkbox"/>
Picnic sites	5	4	3	2	1	<input type="checkbox"/>
Food storage locker	5	4	3	2	1	<input type="checkbox"/>
Restroom	5	4	3	2	1	<input type="checkbox"/>
Potable water	5	4	3	2	1	<input type="checkbox"/>
Trash receptacle	5	4	3	2	1	<input type="checkbox"/>

<b>FACILITIES</b>	<b>Acceptable</b>	<b>Slightly Acceptable</b>	<b>Neither</b>	<b>Slightly Unacceptable</b>	<b>Unacceptable</b>	<b>Did Not Use/ Not Applicable</b>
Vehicle parking areas	5	4	3	2	1	<input type="checkbox"/>
Trailer parking areas	5	4	3	2	1	<input type="checkbox"/>
Boat ramp parking area	5	4	3	2	1	<input type="checkbox"/>
Boat launch/take out	5	4	3	2	1	<input type="checkbox"/>
Other (specify):	5	4	3	2	1	<input type="checkbox"/>

If you rated a condition “unacceptable”, please identify the item from the table & describe the location and nature of the unacceptable condition:

<b>ACCESS</b>	<b>Acceptable</b>	<b>Slightly Acceptable</b>	<b>Neither</b>	<b>Slightly Unacceptable</b>	<b>Unacceptable</b>	<b>Did Not Use/ Not Applicable</b>
Width of roads within the site	5	4	3	2	1	<input type="checkbox"/>
Condition of roads within the site	5	4	3	2	1	<input type="checkbox"/>
Foot trails to the shoreline	5	4	3	2	1	<input type="checkbox"/>
Foot trails around the shoreline	5	4	3	2	1	<input type="checkbox"/>
Signage to the recreation site	5	4	3	2	1	<input type="checkbox"/>
Signage from Project to adjacent communities	5	4	3	2	1	<input type="checkbox"/>

If you rated a condition “unacceptable”, please identify the item from the table & describe the location and nature of the unacceptable condition:

<b>INFORMATION RESOURCES</b>	<b>Acceptable</b>	<b>Slightly Acceptable</b>	<b>Neither</b>	<b>Slightly Unacceptable</b>	<b>Unacceptable</b>	<b>Did Not Use/ Not Applicable</b>
Interpretive/education information	5	4	3	2	1	<input type="checkbox"/>
Recreation visitor information brochures	5	4	3	2	1	<input type="checkbox"/>
Don Pedro Recreation Agency website	5	4	3	2	1	<input type="checkbox"/>
Reservoir water surface elevation information	5	4	3	2	1	<input type="checkbox"/>
River/stream flow information	5	4	3	2	1	<input type="checkbox"/>

If you rated a condition “unacceptable”, please identify the item from the table & describe the location and nature of the unacceptable condition:

13. A) Did/do you feel crowded at any of the following locations during your visit to this recreation area today? (Circle One Number For Each Item)

LOCATION/AREA	Not At All Crowded		Slightly Crowded		Moderately Crowded			Extremely Crowded		Did Not Use Not Applicable
	1	2	3	4	5	6	7	8	9	
Campground	1	2	3	4	5	6	7	8	9	<input type="checkbox"/>
Shoreline camping area	1	2	3	4	5	6	7	8	9	<input type="checkbox"/>
Picnic area	1	2	3	4	5	6	7	8	9	<input type="checkbox"/>
Boat launch	1	2	3	4	5	6	7	8	9	<input type="checkbox"/>
Trail	1	2	3	4	5	6	7	8	9	<input type="checkbox"/>
Trailhead	1	2	3	4	5	6	7	8	9	<input type="checkbox"/>
Other shoreline area	1	2	3	4	5	6	7	8	9	<input type="checkbox"/>
Water surface	1	2	3	4	5	6	7	8	9	<input type="checkbox"/>
Other (specify):	1	2	3	4	5	6	7	8	9	<input type="checkbox"/>

B) If you felt crowded, did you modify your recreation plans because you felt crowded?  Yes  No  Did Not Feel Crowded

C) If YES, what did you do?

- Moved to a new location       Changed the time of day  
 Changed your activity       Choose not to recreate  
 Did nothing       Other (specify):

14. A) Are you recreating at your preferred location today?  Yes  No

B) If NOT, what was your preferred location?

C) Why were you unable to use or go to your preferred location? \_\_\_\_\_

15. A) Are there any places in this recreation area where you feel unsafe?  Yes  No

B) If YES, please identify why you feel unsafe. (Check All That Apply)

- Wild animals       Speeding boats/PWC       Speeding vehicles  
 Speeding boats/PWC       Firearm discharge       Other (specify): \_\_\_\_\_  
 Unattended campfires       Unleashed dogs       Other visitors behavior (specify): \_\_\_\_\_

C) If YES, please identify the location where you feel unsafe \_\_\_\_\_

16. Are there any constraints or barriers that prevent you or a member of your group from participating in desired recreation activities at Don Pedro Reservoir?  
 Yes  No If YES, please describe what prevented you from participating: \_\_\_\_\_

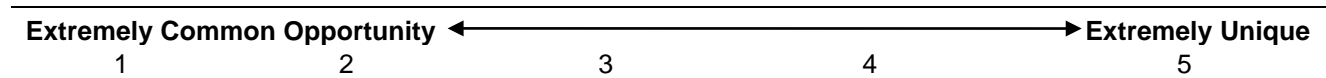
If YES, please describe the location where you would have liked to participate in desired recreation activities. Refer to the map if necessary.

\_\_\_\_\_  
 \_\_\_\_\_

17. Please list (up to 3) other areas in Central California where you visit to participate in your primary recreation activity.

1) \_\_\_\_\_ 2) \_\_\_\_\_ 3) \_\_\_\_\_

18. A) Please rate the relative uniqueness of the recreation opportunities at this recreation area relative to similar to opportunities at the above Central California areas:



B) Please explain, what, if anything is special or unique about this recreation area relative to other recreation areas in Central California.

**Your Thoughts on Potential New Recreation Improvements at the Recreation Area...**

19. Please rate your preference for the following Potential New Recreation Facility Improvements for the recreation area you are currently visiting.

<i>(Please circle one number for each item)</i>	Highly Preferred	Slightly Preferred	Neither	Slightly Not Preferred	Not At All Preferred	No Opinion/ Not Applicable
<b>BOATING IMPROVEMENTS</b>						
Boat-in campsites	5	4	3	2	1	<input type="checkbox"/>
Boat launches	5	4	3	2	1	<input type="checkbox"/>
Boat launch lanes	5	4	3	2	1	<input type="checkbox"/>
Boat trailer parking	5	4	3	2	1	<input type="checkbox"/>
Other (specify):	5	4	3	2	1	<input type="checkbox"/>

<i>(Please circle one number for each item)</i>	Highly Preferred	Slightly Preferred	Neither	Slightly Not Preferred	Not At All Preferred	No Opinion/ Not Applicable
<b>CAMPING &amp; PICNIC AREA IMPROVEMENTS</b>						
Campsites	5	4	3	2	1	<input type="checkbox"/>
Group campsites	5	4	3	2	1	<input type="checkbox"/>
Pull-through camping parking spurs	5	4	3	2	1	<input type="checkbox"/>
Longer camping parking spurs	5	4	3	2	1	<input type="checkbox"/>
Group picnic sites	5	4	3	2	1	<input type="checkbox"/>
Picnic sites	5	4	3	2	1	<input type="checkbox"/>
Restrooms	5	4	3	2	1	<input type="checkbox"/>
Potable water	5	4	3	2	1	<input type="checkbox"/>
Showers	5	4	3	2	1	<input type="checkbox"/>
Food storage lockers	5	4	3	2	1	<input type="checkbox"/>
Trash receptacles	5	4	3	2	1	<input type="checkbox"/>
Other (specify):	5	4	3	2	1	<input type="checkbox"/>
<b>PARKING &amp; OTHER IMPROVEMENTS</b>						
Vehicle parking	5	4	3	2	1	<input type="checkbox"/>
Trailer parking	5	4	3	2	1	<input type="checkbox"/>
Accessible fishing pier	5	4	3	2	1	<input type="checkbox"/>
Dump station	5	4	3	2	1	<input type="checkbox"/>
Foot trails to the shoreline	5	4	3	2	1	<input type="checkbox"/>
Foot trails around the shoreline	5	4	3	2	1	<input type="checkbox"/>
Signage to the recreation area	5	4	3	2	1	<input type="checkbox"/>
Signage within recreation area	5	4	3	2	1	<input type="checkbox"/>
Other (specify):	5	4	3	2	1	<input type="checkbox"/>

---

**About You**

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20. How did you learn about this recreation area?

Word of mouth     Internet     BLM    Other: \_\_\_\_\_

21. What is the zip code for your primary residence? \_\_\_\_\_ **OR** \_\_\_\_\_  
(Zip Code) (Postal Code/Country)

22. Your Age: \_\_\_\_\_.

23. Are you?  Male  Female

24. Please tell us which of the following categories best represents your ethnicity:

American Indian/Alaskan Native         Asian  
 Native Hawaiian/other Pacific Islander     White  
 Spanish Hispanic/Latino                       Black/African-American  
 Hispanic/Latino                                  Other (specify): \_\_\_\_\_

25. What is your primary spoken language? \_\_\_\_\_.

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**Any Additional Comments?**

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26. Please let us know if you have any additional comments regarding your recreation experience during your visit in the space below.

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**STUDY REPORT RR-01**  
**RECREATION FACILITY CONDITION AND PUBLIC ACCESSIBILITY**  
**ASSESSMENT, AND RECREATION USE ASSESSMENT**

**ATTACHMENT C**

**OTHER OBSERVATION CATEGORIES FOR VEHICLES**  
**AND SHORELINE USE**



## Fleming Meadows

**Table 1. Vehicle: Other Category Observed Vehicles at Fleming Meadows Boat Launch, Main Lot**

<b>Fleming Meadows: Boat Launch, Main Lot</b>	<b>Other Vehicles Observed</b>
	DPRV Vehicle Coke Delivery Truck Sherriff Vehicle

**Table 2. Shoreline: Other Category Observed Shoreline Users at Fleming Meadows Boat Launch, Main Lot**

<b>Fleming Meadows: Boat Launch, Main Lot</b>	<b>Other Users Observed</b>
	DPRV Staff Bicycles People loading/unloading boats

**Table 3. Shoreline: Other Category Observed Shoreline Users at Fleming Meadows Lot 6**

<b>Fleming Meadows: Lot 6</b>	<b>Other Users Observed</b>
	Softball Players

**Table 4. Other Category Observed Vehicles at Fleming Meadows Marina, Lower Lot**

<b>Fleming Meadows: Marina, Lower Lot</b>	<b>Other Vehicles Observed</b>
	Sheriff Vehicle Truck with OHV in Bed

**Table 5. Shoreline: Other Category Observed Shoreline Users at Fleming Meadows Marina, Main Lot**

<b>Fleming Meadows: Marina, Main Lot</b>	<b>Other Users Observed</b>
	People loading/unloading boats

**Table 6. Vehicle: Other Category Observed Vehicles at Fleming Meadows Swim Lagoon**

<b>Fleming Meadows: Swim Lagoon</b>	<b>Other Vehicles Observed</b>
	DPRV Vehicle Storage Trailer

**Table 7. Shoreline: Other Category Observed Shoreline Users at Fleming Meadows Swim Lagoon**

<b>Fleming Meadows: Swim Lagoon</b>	<b>Other Users Observed</b>
	People waiting in parking area.

**Table 8. Vehicle: Other Category Observed Vehicles at Fleming Meadows Group Picnic Area**

<b>Fleming Meadows: Group Picnic Area</b>	<b>Other Activities Observed</b>
	Moving truck.

**Table 9. Vehicle: Other Category Observed Vehicles at Fleming Meadows Campground, Loop B Day Use Area**

<b>Fleming Meadows: Campground, Loop B Day Use Area</b>	<b>Other Activities Observed</b>
	DPRV Vehicle

**Table 10. Shoreline: Other Category Observed Shoreline Users at Fleming Meadows Campground, Loop B Day Use Area**

<b>Fleming Meadows: Campground, Day Use Area</b>	<b>Other Users Observed</b>
	People loading/unloading boats.

**Table 11. Other Category Observed Shoreline Users at Fleming Meadows Private Houseboat Parking Lot**

<b>Fleming Meadows: Private Houseboat Parking Lot</b>	<b>Other Users Observed</b>
	People loading/unloading boats.

## **Blue Oaks**

**Table 12. Vehicle: Other Category Observed Vehicles at Blue Oaks Boat Launch, Lower Lot**

<b>Blue Oaks: Boat Launch, Lower Lot</b>	<b>Other Vehicles Observed</b>
	DPRV Vehicle

**Table 13. Shoreline: Other Category Observed Shoreline Users at Blue Oaks Boat Launch, Upper Lot**

<b>Blue Oaks: Boat Launch, Upper Lot</b>	<b>Other Users Observed</b>
	People loading/unloading boats.

**Table 14. Vehicle: Other Category Observed Vehicles at Blue Oaks Group Picnic Area**

<b>Blue Oaks: Group Picnic Area</b>	<b>Other Vehicles Observed</b>
	Church Group Campers
	Moving Truck
	Work Vehicles

**Table 15. Shoreline: Other Category Observed Shoreline Users at Blue Oaks Group Picnic Area**

<b>Blue Oaks: Group Picnic Area</b>	<b>Other Users Observed</b>
	Lions Club Volunteers People loading/unloading boats Volleyball Players

**Moccasin Point**

**Table 16. Vehicle: Other Category Observed Vehicles at Moccasin Point Boat Launch, Main Lot**

<b>Moccasin Point: Boat Launch, Main Lot</b>	<b>Other Vehicles Observed</b>
	Moving Van

**Table 17. Shoreline: Other Category Observed Shoreline Users at Moccasin Point Boat Launch, Main Lot**

<b>Moccasin Point: Boat Launch, Main Lot</b>	<b>Other Users Observed</b>
	Person relaxing in car People loading/unloading boats

**Table 18. Shoreline: Other Category Observed Shoreline Users at Moccasin Point Picnic Area**

<b>Moccasin Point: Picnic Area</b>	<b>Other Users Observed</b>
	People loading/unloading boats

**Table 19. Vehicle: Other Category Observed Vehicles at Moccasin Point Marina**

<b>Moccasin Point: Marina</b>	<b>Other Vehicles Observed</b>
	DPRV Vehicle Work Truck

**Table 20. Vehicle: Other Category Observed Vehicles at Moccasin Point Marina**

<b>Moccasin Point: Marina</b>	<b>Other Vehicles Observed</b>
	Back Hoe

**Table 21. Vehicle: Other Category Observed Vehicles at Moccasin Point Additional Parking, Main Lot**

<b>Moccasin Point: Additional Parking, Main Lot</b>	<b>Other Vehicles Observed</b>
	DPRV Vehicle

**Table 22. Shoreline: Other Category Observed Shoreline Users at Moccasin Point Additional Parking, Main Lot**

<b>Moccasin Point: Additional Parking, Main Lot</b>	<b>Other Users Observed</b>
	People loading/unloading boats

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**ATTACHMENT D**

**OTHER WAYS OF LEARNING ABOUT THE PROJECT**

**Table 1. Other ways visitors learned about Fleming Meadows.**

Theme	Source	n	%
History	Been around	1	.5
	Been coming forever	2	1.0
	Born in area	2	1.0
	Camped here as a child	1	.5
	Grew up here	2	1.0
	Fishing here	1	.5
	Long time visitor	4	2.0
	Third generation of my family at lake	1	.5
	Worked as a driver for boating camp over 20 years ago. Come back for camp (Koinonia) every year and do all our other boating here.	1	.5
Exploring area	Drove by	2	1.0
	Exploring area	4	2.0
Family/Friends	Family	5	2.4
	Family has come here for over 20 years.	1	.5
	Family live nearby	1	.5
	Family Tradition	1	.5
	Friend	1	.5
	Husband	1	.5
Local	Live nearby	4	1.9
	Lived here for over 50 years	1	.5
	Local resident	6	3.0
	Local; have explored for 50 years.	1	.5
	We live in this area.	1	.5
Literature/Research	Recreation map	1	.5
	Research	1	.5

**Table 2. Other ways visitors learned about Blue Oaks.**

Theme	Source	n	%
History	Annual camping	1	.7
	Been coming for years	1	.7
	Coming for a year	1	.7
	Grew up here	1	.7
	Years of experience.	1	.7
	Since 1974	1	.7
	Worked here and was raised nearby.	1	.7
Exploring area	Exploring	1	.7
	Exploring by boat since 1959.	1	.7
Family/Friends	Family	8	5.8
	Family has come here since I was born	1	.7
	Friends	3	2.1

Theme	Source	n	%
Local	Live in area	1	.7
	Live nearby	1	.7
	Local	5	3.6
	Local from Modesto	2	1.4
	Local resident	1	.7
	Local who lives nearby.	1	.7
	Locals	1	.7
	Locals; live nearby.	1	.7
	Locals, Discovered on our own; live nearby.	1	.7
	Summer house in La Grange	1	.7
Literature/Research	Newspaper	1	.7
	Signs and hunting/fishing magazines	1	.7
	CA Recreation Camping Book	1	.7
	California area maps	1	.7
Other	Took fishing tour first time	1	.7

**Table 3. Other ways visitors learned about Moccasin Point.**

Theme	Source	n	%
History	Born and raised	1	1.0
	Dad brought me as a child	1	1.0
	Regular houseboaters	1	1.0
	I've been coming here for years.	1	1.0
	Family worked for TID in the 1930's	1	1.0
	Father brought us here 45 years ago.	1	1.0
Exploring	Driving	1	1.0
	Drove past sign on Highway 120	1	1.0
	Exploring	3	3.0
	Exploring. Driving nearby.	1	1.0
	Exploring. Former gold panner here.	1	1.0
Family/Friends	Family	2	2.0
Local	Live here.	1	1.0
	Live nearby	3	3.0
	Local	1	1.0
	Local resident	1	1.0
	Local resident - Oakdale. Explored on own for more than 4 years.	1	1.0
	Local-Live 6 miles from here	1	1.0
	Locals	1	1.0
	Long time visitors	1	1.0
Literature/Research	CA lake book	2	2.0
Other	Road Signs	1	1.0
	Boat camping	1	1.0

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**ATTACHMENT E**

**REASONS FOR UNACCEPTABLE RATINGS**

**Table 1. Reason for unacceptable ratings of facilities, access, and information – Fleming Meadows**

Theme	Comments
<b>FACILITIES</b>	
Access	To walk down to camp site, kid fell on a rock.
	Ramp walk down needs to be paved at top. It is a hazard. Someone's going to get hurt.
	Far from water
	More ramps in accessible area.
	Access
Parking	Single car versus trailer should be marked.
	Parking should be for 2 cars.
	Sometimes it's hard to get around campground due to people who don't park 100% in their site.
	Camp site parking spur size needs to be a little longer.
Restrooms	The bathrooms are extremely dirty.
	Restrooms: not enough shower facility, need mirrors replaced, also need toilet seat covers, spray walls and ceilings with pest spray to keep bugs at bay.
	Restrooms need to upkeep with toilet paper; need soap; need showers.
	Restrooms need soap.
	Restroom faucets leak all the time which is a waste of water.
	Not enough bathrooms.
	Seats in restrooms are too low for disabled.
Mirrors. Bench in showers. Light over stools. Too dark at night. Restroom needed soap.	
Nuisance Wildlife	Raccoons are taking over campsite in the evening and keep us awake. Ants and flies are excessive. Level picnic areas are needed and empty trash and BBQ pits in between each camp group.
	Otter feces on boat
	Witnessed snakes in the area.
	Some of the trash receptacles have mice.
	Mice can get into equipment in the trailer parking area.
Boat Launches	Other boaters do not observe annual pass with the dedicated third lane at the boat launch.
	On busy days, it would be helpful to have a director at the launch to keep people loading and unloading efficiently and moving their vehicles out of the way more quickly.
Trash and waste	No adequate place to dispose of bio-solids. More even distribution of dumps.
	Need more trash receptacles.
	Dumpsters too far from private marina.
	Keep an eye on water cleanliness of the lagoon. There's rubbish from people leaving shoreline/banks.
Vegetation and shading	Shade over picnic table might be nice.
	Needs to be flatter. Trim grass near campsites.
	Taller grasses/weeds need to be flattened as close to shore as possible from campsite.
Campsite equipment and layout	Food storage lockers are hard to open.
	Camp sites need drainage for water. It runs through trailer area.
	Level picnic area. More picnic tables and BBQ pits.
	Fire ring too close to RV parking area and propane tank
	Campfire pit is too close to motorhome.
Fees	Fees unacceptable for camp visitors/day-use, especially motorcycles. Raised from last year and are too steep.



Theme	Comments
<b>ACCESS</b>	
Road width	Width of roads within the site should be wider with bike/pedestrian lane.
	Too narrow, no parking at private houseboat marina. Too dangerous to move over. I personally know another houseboat owner who lost his truck in the lake due to danger of steep ramp. Need more private boundary signs posted.
	Width of roads within the site should be wider with bike/pedestrian lane.
	Roads should be wider.
Signage	Signage to recreation site needs to be better/bigger.
	Very bad signs. None for C and B.
	Signs to La Grange Road are unacceptable because it's so hard to see. Sign should be bigger with better reflective lettering and a sign should be placed well before turnoff on La Grange Road.
	Need a large sign corner of J59 and Bond Flat Road.
	For new visitors, road signs are too small and infrequent.
	Larger signs on Bards Flat Road
Parking	Should be better/more clear signage coming off the main road.
	Unsafe parking, entering and exiting marina. Way too steep and unsafe.
Trails	Slightly unacceptable due to safety, challenging, need handrails, guardrails on ramp. Need to remove 20 feet off of level and create parallel parking for 25% more spaces. Cut mountain back. Dangerous path, with no steps from group picnic parking.
	Steep/uneven. Scary to walk or park.
	Grass needs to get cut-snakes.
	Need more trails to and around shoreline.
<b>INFORMATION</b>	
Website	Issue with weeds.
	Website should have wind, water temp, lake level, level rising or descending.
	Website doesn't tell you when lagoon opens. Wasted a month of pass time.
	Would like refund capabilities.
	Raised camp fees, but still no wifi.
	No notification about timing of fireworks display, but overall the DPRA website is excellent. Just needed more holiday information. Planned group to view fireworks but dates didn't correlate with July 3 <sup>rd</sup> show. Disappointed!
Water, fishing, weather, other information	Is website updated? I was not confident.
	Read Modesto Bee for fishing information.
	Need stocking information.
	Need creek flow information. Would prefer more real-time information and stations.
	Like to use elevation info.
	How about some information about restaurants/eateries in the area. I especially appreciate the wind/weather information.

Theme	Comments
<b>SURVEY/OBSERVATION TEAM NOTES</b>	
Survey/Observation Team	<p>Many large groups (e.g., area church groups) use the swim lagoon and never enter reservoir for their day use. These respondents had no opinions about the actual reservoir and its amenities; however, they appreciated shallow water for all ages, shade, bathrooms in proximity, ample parking and concessions.</p> <p>Respondents were frustrated over lack of picnic tables and insufficient pits for outdoor grilling and inadequate or improperly maintained compressor at bath area preventing them from inflating their flotation devices.</p> <p>Many visitors to the lagoon used portable canopies for shade.</p>

**Table 2. Reason for unacceptable ratings of facilities, access, information-Blue Oaks**

Theme	Comments
<b>FACILITIES</b>	
Access	<p>Takes too long at entrance gate. Staff is nice but too long to wait.</p> <p>Shouldn't have a handicapped parking spot at ramp.</p> <p>Needs to be straightened at launch. Tires can slide off.</p> <p>It's unpaved. Boat ramp parking should have a waiting area for people (benches, trash) while people are waiting for boat loading and unloading,</p>
Parking	<p>Vehicle parking areas need repair</p> <p>Parking doesn't fit 2 vehicles.</p>
Restrooms	<p>Toilet paper and cleanliness.</p> <p>Toilet didn't flush in Blue Oaks women's restroom in the first stall.</p> <p>Restrooms were dirty and needed seat covers, soap, and toilet paper. Food storage locker was dirty.</p> <p>Restrooms were clogged/non-flushing in campsite.</p> <p>Restrooms flooded and filthy. No toilet paper in several stalls.</p> <p>Plumbing in women's restroom skinks were clogged. And the shower in men's restroom clogged.</p> <p>Need restroom near launch</p> <p>Need more bathrooms, toilets, and showers with group site.</p> <p>Need closer restrooms to shoreline at boat ramp</p> <p>Cleaning turnover could be better in restrooms.</p> <p>More showers and restrooms on the other side.</p> <p>Access, overflowing urinals, toilets and broken plumbing.</p> <p>Everything in bathroom was wet-toilet seats, toilet paper, everything.</p>
Nuisance Wildlife	Rattlesnakes.
Trash and waste	<p>Rubbish around campsite.</p> <p>Overflowing garbage and recycling containers.</p> <p>Overflowing BBQ pits. Ashes need removal.</p> <p>Lots of floating trash on the reservoir</p> <p>Trash receptacles could be emptied/serviced more often.</p>
Fish cleaning station	<p>Station was stuffed with bass; unclean.</p> <p>Jammed up when I was cleaning fish.</p>
<b>ACCESS</b>	
Road width/conditions	<p>Roads are not wide enough.</p> <p>Ramps need more gravel and rocks. Hard on trailer and equipment to launch and take-out here. Please maintain and upgrade. I cannot hike up steeper Fleming Meadows ramp.</p>

Theme	Comments
Signage	Signs to recreation site should be larger.
	Signs to boat launch.
	Sign needed from ranger hut to area C.
	Prefer better signs for all roads.
	It was hard to find our campsite. Directions painted on roadway are faded.
	Hard to see signs, especially at night.
	Difficult to find route to campsite. Not easy to find. Also, need one way signs more easily marked within campgrounds.
	First time we came out, signage was confusing.
Parking	There isn't enough campsite parking.
Trails	Unable to walk down to the beach area. Feel unsafe for family children swimming with boats.
	Too rocky and need more trees.
	For shore fishing at boat launch, it was rocky to get down to shore with kids.
	North end grown over.
	Need to clean up bushes.
<b>INFORMATION</b>	
Website	Want to purchase annual pass at agency website. Western Outdoor News is my news source.
	Positive: website was very informational.
	Moon was wrong on website. Work at power plant. Got information on our own.
Water, fishing, weather information	Use the Modesto Bee for fishing information.
	Like the "Sonora Democrat" lake and fishing in [illegible].
Interpretive signs	Iron ranger signs are a tad unclear.
	Need more interpretive/education information signs.
Staff	Was given wrong directions. Would have taken an extra hour. Different location. When called staff, unable to provide driving directions.
Reservations	Holiday weekends reservations policy is difficult. Too far in advance required.
	Confusion over campsites happened with reservation system.
<b>SURVEY/OBSERVATION TEAM NOTES</b>	
<b>Survey/Observation Team</b>	<p>Throughout the survey season, anglers professional fishing guides and tournament participants to casual anglers—all expressed frustration over the fish-cleaning station at Blue Oaks not being in working order—namely, the fish grinder/disposal feature at the station.</p> <p>Day use boat launching anglers especially expressed a general preference for more live staff at the entrance gate—specifically, to pay for entry/launching fees and not leave overpayment in an iron ranger and not receiving change immediately.</p> <p>The closest bathroom facility to Blue Oaks' entrance gate seems to catch largest volume of right off Bonds Flat road traffic, as a result women's restroom with some overflow and plumbing maintenance required. This gives the restroom more of a rest area bathroom exposure than a recreation area, and maintenance that is highly adequate overall is challenged due to heavy roadside use.</p> <p>Occasionally the dumpsters were overflowing at the Blue Oaks Boat Launch area due to what appears to be improper use of these dumpsters by residents of nearby areas. This use was not observed at Fleming Meadows or Moccasin Point.</p> <p>Group campers expressed stronger preference for more dedicated and solitary setting than the Blue Oaks Group area afforded and especially proximity to annual Fireworks display over Fleming Meadows group camp by comparison. Despite dirt parking lot style camping, an overall lack of central facility for cooking, cleanup or upgraded electricity for larger group or a marina for convenience items, visitors seemed to prefer Blue Oaks Group Camp over Fleming options. More Scouts, family reunions, annual church campers, etc., concentrated at Blue Oaks and drove to Fleming marina for lagoon or day use.</p>

**Table 3. Reasons for unacceptable rating of facilities, access, and information – Moccasin Point**

Theme	Comments
<b>FACILITIES</b>	
Parking	Trailer parking is tricky for some spaces.
Restrooms	They really need something besides portapotties in E.
	Restrooms are messy.
	Restroom lighting needs updates.
	More faucets.
	Need lighting for safety at campsites for night and restrooms.
	Lights in bathroom needed.
	Restrooms need mirror.
Campsite Layout and Equipment	Cleaner restrooms please.
	Some campsites are uneven.
	Prefer standup grill to ground pits.
	Fire pit is really close to the picnic table in C-25.
	Campsites are sloped; not level.
	Campsites need to be more level.
	A-13 needs rock moved to have better parking. Roads need to be crack sealed.
	No high charcoal pit for cooking.
	Camp site parking spur size is not long enough. In the picnic sites, the campfire pit is too close to parking with propane.
<b>ACCESS</b>	
Road width	Width could be larger.
	Wider sites!
Signage	Bigger signs are needed.
<b>INFORMATION</b>	
Website	Website might be small font/maps. Hard time printing maps.
Other	We know how to find this info if necessary.
<b>SURVEY/OBSERVATION TEAM NOTES</b>	
<b>Survey/Observation Team</b>	Observed a pattern of shoreline users with boats moored in coves, camping in overflow campgrounds C, D and E areas during peak season. These overflow campers expressed a strong draw to Moccasin for this very reason; they only had to launch the boat one time, camp in overflow loop, park in Boat Ramp or Picnic Area parking lot(s) for entire visit.

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**ATTACHMENT F**

**REASONS IDENTIFIED FOR DON PEDRO'S UNIQUENESS**

**Table 1. Reasons for Uniqueness-Fleming Meadows**

Theme	Verbatim Response
Access	Access to water is great. Not as crowded on shoreline.
	Close to home. Very familiar with Don Pedro Lake.
	Don Pedro is closer.
	Don Pedro Lake is closest.
	Like the size of Don Pedro Lake the best. Better shore access.
	Near family.
	Pedro is closer to Modesto than Melones Reservoir.
	Proximity to home.
	The lake is close to home.
	Less expensive here.
Natural Conditions	Beautiful here. We love it.
	Best here. Large lake. Prefer Don Pedro overall.
	Big lake, great wind for sailing.
	Clean water clarity.
	Clean water, warm water and great glassy water.
	Don Pedro is bigger. Better spots. Favorite lake.
	Each place is unique-terrain, amenities
	Large and not crowded for shoreline camping.
	Lake size bigger, but different opportunities.
	Large lake for boating.
	Like the Don Pedro Lake scenery
	Love size of lake, but loud here.
	Shade trees, cleaner lake, no fumes or motor oil slicks on water.
	Scenery
	Remote and secluded.
	Size of lake and recreation area here is great.
	Size of lake is great.
	Size of lake, easy access, good staff
	Size of place is more open.
	Size of reservoir.
	Size, water temp., shade, respectful fellow campers.
	Size: so large that it makes it hard to feel crowded.
	The clean lake.
	Warmer water here.
	Water is choppiest.
	Water temperature is best here.
Water temperature.	
Warm water, large lake, great facilities.	
Warm water, smooth skiing	
Water is clean, warm, and enjoyable for water sports.	
Water is cleaner here, especially compared to the Delta. Love this lake.	
Operations (Staff and Facilities)	Because the water is great family fun. Swimming, jet skiing, wake boarding, fishing, being with friends
	Better facilities and recreators at Don Pedro Reservoir.
	Bigger-like the marina here
	Briceburg has lower fees. Also has fresher and cleaner water. We do like fire rings here at campsites.
	Camp areas and conditions of them/paved spurs.

Theme	Verbatim Response
	Clean, opportunities for lots of different recreation activities, safe, stocked whitefish
	Comfort and nice appearance. Well managed.
	Dock is much better here than the other 3 areas I previously listed; easier to take my boat in and out.
	Facilities at Don Pedro are better. Shading is great. Beach area is wonderful. Picnic tables are clean.
	Facilities better here. Working facilities. Especially like handy lake to home (live in Modesto). Nice variety of fish here. Did run into underwater obstacle. No sign on lake. Did \$1500 worth of damage to my boat.
	Lagoon
	Lagoon area. More facilities.
	Lagoon is great.
	Lagoon is high point here at Don Pedro.
	Lagoon makes this place unique.
	Lagoon. Campsites are more developed at Don Pedro Lake.
	I put my houseboat here because of large lake size, clean water, friendly staff; all amenities that I need are here.
	Like swim lagoon accessibility here. More convenient.
	Like the staff here.
	Well maintained facilities for boating and camping.
	Would like to be able to camp on the water.
	You can keep the boat in the water overnight while camping.
	Unlike Woodward, you can dock a boat here
	Up to date facilities
	The lagoon is special and unique.
	Swim area nicer here. Same fees.
	Swim Lagoon
	Swim lagoon and softball field.
	Swim lagoon is the best here.
	Swim lagoon. Cleaner facilities.
	Swimming area.
	Full hook-ups at H Loop. Swim lagoon.
	Group site, large area of water, great Don Pedro staff, very accommodating.
	Houseboat in marina here so we come to Don Pedro Lake since we are renting here.
	Just like it, available for large groups
	Linda and Kim are wonderful. All staff doing reservations does a great job.
	Location, familiarity, staff, size of lake.
	Man-made lagoon. More spacious campsites.
	More lake compared to others and floatable restrooms.
	More shaded camping here. No bugs or raccoons here.
	More space/facilities. Better boat docking/shoreline anchoring.
	Kid friendly lagoon.
	Need full hookups to compare.
	New Hogan is cleaner and closer water access for

Theme	Verbatim Response
	<p>campers and better gas and amenities available.</p> <p>Prefer here for warmer water. More shallow water is safer for younger children here.</p> <p>Water is good-hookups</p> <p>Love the lagoon for swimming. Easy access from home. Warm water. Nice green grass. Maintenance is great here.</p> <p>Like spaciousness of lake, water temperature preferred, love the swim lagoon.</p> <p>Like the lagoon.</p> <p>This place has everything.</p> <p>Very affordable at \$16/night we can stay longer.</p> <p>Shoreline, camping, facilities.</p> <p>We can make reservation one year in advance. Lots to do for kids. Safe and police protected. Swimming.</p>
Fishing	<p>Less Fall fishermen here. New Melones is always busy. Prefer docks here too.</p> <p>Fishing is usually good, bass fishing in particular.</p> <p>Fishing, restrooms, small numbers of people. Stores are good.</p> <p>Lake is a lot bigger and better fishing</p> <p>The fish quality. Great water levels maintained throughout the year.</p> <p>Too many fishing tournaments here.</p> <p>Usually catch. Seems pretty fail safe.</p> <p>Like quality of the fish. Clear lakes are best for fish.</p> <p>Like the Florida strain large mouth bass</p>
Less Congestion	<p>Clean here. Not as crowded. More spread out.</p> <p>A lot of room</p> <p>Larger, not as crowded. Safer for wakeboarding or any activities.</p> <p>Views are beautiful. Size of lake means it's less crowded.</p> <p>Less congested. Weather good here. Easy access.</p> <p>No crowds</p> <p>Prefer New Bullards Bar reservoir-prettier water. Like the peace and quiet at NBBR and Don Pedro Recreation Area.</p> <p>Quiet here.</p> <p>Smooth water conditions. Warm temperatures. Lack of crowds. Jet ski friendly.</p>
Other/General	<p>It's our second home; been coming here for 25 years.</p> <p>Like to know about job postings</p> <p>Shoreline. Fees are too high to launch boat.</p> <p>This location is our preferred family tradition lake over Lake McClure (MID).</p> <p>We only come here.</p>



**Table 2. Reasons for Uniqueness-Blue Oaks**

Theme	Verbatim Response
Access	Blue Oaks is much closer access. Better launch ramp versus Fleming Meadows-launch too steep for elderly.
	Close by. Very convenient access.
	Close to home
	Closer to home at DPRA.
	Easy access. Live only 10 minutes.
	Like the access.
	More expensive here
	Parking is too expensive.
	Proximity better here.
	Water access is more challenging here than other areas we visit.
	Don Pedro lake is closer. More convenient. Family has a cabin nearby.
	Not so far off the beaten path.
	Natural Conditions
Cleaner Lake	
DPRA has more coves.	
It's clean, secluded, and beautiful.	
Lake, boating, nature, scenery.	
Looks different scenery wise.	
Love no crowds here and natural beauty.	
Large lake.	
Out of the ordinary	
The lagoon is awesome.	
Submerged obstacles are a concern.	
Lots of species.	
Space on the lake for wakeboarding/water skiing is plentiful.	
Same elevation. Similar experiences at all.	
Water temp in summer is very warm at Don Pedro-very good	
Lake is big.	
Operations (Staff and Facilities)	Best boating of all. Good for kids. Water temperature and access.
	Better fishing results at New Melones and Don Pedro Lake.
	Blue Oaks is older but like the quality of the fishing and facilities here.
	Floating restrooms are good.
	Hot showers are great. Electricity. Gazebo structure.
	Lake gives more area to fish and move.
	Like campgrounds that allow pets and DPRA does not so we prefer other campgrounds more. Eliminates some members joining. Staff friendlier at DPRA though.
	More activity going on here at Don Pedro. Shade awning at Don Pedro are nice.
	More amenities. Large lake.
	More development here plus more access to conveniences to access like gas, ice, etc.
	Clean bathrooms.
	Needs a boat launch.

Theme	Verbatim Response
	<p>Swimming area.</p> <p>Terrain, large size of reservoir. This makes it fun. Spread out campsites. Not too crowded together is nice.</p> <p>We like that we can book a specific camp site. Woodward is too windy and no gas on Lake Comanche. We just like Pedro better and we love the soft serve cones.</p> <p>We like the privacy and the cleanliness of the grounds. Size and cleanliness is good here at Don Pedro compared to others mentioned.</p> <p>Good amenities. Friendlier people here and staff here.</p> <p>Like power and water here and size of lake. Less security here versus Comanche.</p> <p>Open hours and self-registration is awesome. Love the huge group sites for large groups of family and friends.</p> <p>Love camping waterside. Love the websites. Staff is very nice to talk to and helpful. Campsites are well priced. Staff is pleasant. Campfires are nice here.</p> <p>This lake is larger, which allows for greater opportunities for water sports.</p>
Fishing	<p>Fishing was better in our camping area.</p> <p>Fishing. Better quality of visitors as compared to other areas I camp. Prefer the co-campers at Don Pedro areas.</p> <p>Lots of fish here compared to other lakes. I almost always catch more here.</p> <p>More room fishing. The bass fishing is especially excellent here and lots of room on the lake.</p>
Less Congestion	<p>Less crowded at Blue Oaks versus Fleming Meadows. Great cove for waterskiing.</p> <p>Less crowded here Prefer Blue Oaks because it's less crowded. Prefer lower crowds like now. Avoid summer crowds and heat.</p>
Other/General	<p>All are about the same. Best lake around here is Don Pedro Lake. Can't beat this. Love it here. Like this place. Love this lake. Yearly pass-holder here at Don Pedro</p>

**Table 3. Reasons for Uniqueness-Moccasin Point**

Theme	Verbatim Response
Access	Better proximity.
	Close to home; ease to conveniences in Oakdale
	Convenient
	Marina is close.
	Houseboat waste, we're non-boaters, lack of beach access.
	Big lake and boating. Also better access here.
Natural Conditions	Very pristine, well-maintained, and more natural than other DPRA areas
	Water high quality here and not busy. More family oriented too. Prefer Don Pedro.
	Water is warm
	Water level acceptable here, for now anyway
	All the coves
	Beautiful here.
	More options available. Bigger lake.
	Shoreline and wildlife. Peace and quite.
Operations (Staff and Facilities)	Better docks here versus New Melones. Easy, nice, and wide ramps here.
	Better fish cleaning station
	Great staff here.
	Campsites have good space/vegetation between.
	Kelly the park ranger is hard to beat; Roy Calio (retired ranger who trained Kelly) is awesome too
	Good all inclusive campground.
	Happy employees
	Helpful staff, especially on holidays.
	Better restrooms. Good for kids. Great campsites. Big lake.
	Love long term RV
	Nice campgrounds here. Scenic beauty.
	Nice facilities: marina store, restrooms.
	Nicer facilities at Moccasin Point
	MP has a lake, security here, and fishing. Less occupancy. Appreciate ranger patrols.
	Staff is friendly and get to know you by name.
	Larger site.
	Don Pedro has a lot more bathrooms and is less crowded.
	Electrical and sewer hook-ups are great here
	Facilities well maintained; comprehensive patrol; active well known; excellent services; marina staff are excellent and well versed
	Great rangers and staff very friendly here.
Laid back nice rangers.	
Shoreline camping, atmosphere, marine.	
Size of lake, easy to find good water to wakeboard, ski, etc.	
The picnic areas and access to the lake.	
	The rangers are very inviting and make us comfortable and welcome.

Fishing	Always catch here. Love it.
	Prefer Don Pedro Lake. Great fishing here. Not crowded.
Less Congestion	Calm, quiet, low crowds here.
	Friend's houseboat location. Low crowds.
	Not crowded in springtime. Peaceful.
	Isolated. Relatively unknown. Not many people.
	Less crowded.
Other	Less people.
	About the same level of uniqueness.
	Distance from. Warm water. Family vacation for 30 years.
	Family prefers Moccasin Point. Tend to go to other lakes when alone.
	Great family place to come.
	Hard to compare.
	Love it here.
Nice	
Safe.	