



# Visitor Survey of Day-use and Overnight Visitors at Detroit Lake State Recreation Area

Final Report

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*Nature*  
**HISTORY**  
*Discovery*

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## ***EXECUTIVE SUMMARY***

### **Objectives**

Understanding opinions of park users about issues such as the quality of facilities, social and resource conditions, and how they use these parks is critical to providing adequate programs and services. Project objectives were to describe day and overnight user activities, demographic characteristics, and opinions about conditions and management at this park and provide recommendations for maintaining or improving conditions at this park.

### **Methods**

Data were obtained from questionnaires administered to random samples of day users and overnight visitors to the park between July 4 and September 1, 2013. Separate methods were used for each of these visitor types. The total number of completed questionnaires was  $n = 813$  with a response rate of 74%. Completed questionnaires were received from  $n = 280$  day users (52% response rate) and  $n = 533$  overnight users (84% response rate). These combined sample sizes across survey methods allow generalizations about the population of day users at Detroit Lake State Recreation Area at a margin of  $\pm 5.8\%$ , overnight users at  $\pm 4.2\%$ , and both day and overnight users at  $\pm 3.4\%$  at the 95% confidence level. The day-use visitor survey involved on-site intercepts. The overnight visitor survey involved an internet survey of visitors who stayed overnight at the park during the survey period and made a reservation through Reservations Northwest. Data were weighted by day-use and overnight user population proportions calculated from a three year average of park visitation statistics to ensure that responses were representative of the total population of all users at this park.

### **Results**

#### ***Personal and Visit Characteristics***

- The most popular activities were swimming / wading (83%), picnicking or barbecuing (69%), and boating (52%); the least popular were ranger-led programs (6%), running or jogging (7%), bird or wildlife watching (11%), and bicycling on local roads (12%). Overnight users were more likely to participate in most activities, which is not surprising given that they had more time at the park. Picnicking or barbecuing was the only activity measured that was more popular among day users (77%) than overnight users (57%).
- The most common main activity groups were swimming / wading (30%), boating (motor, canoe, kayak; 23%), and picnicking or barbecuing (13%). The least common groups were ranger-led programs, bird or wildlife watching, outdoor photography and running or jogging (all < 1%). Day users were more likely to consider swimming / wading and picnicking or barbecuing, whereas overnight users were more likely to consider camping, and boating as their primary activity.
- Day users spent an average of over five hours in the park, with 51% of users spending up to five hours in the park. The majority of day users (44%), however, spent six to nine hours. Overnight users spent an average of almost four nights at the park, although the largest proportions spent two (24%) or three (25%) nights at the park and an additional 15% spent four nights at the park, 9% spent five nights, and another 18% spent six or more nights.
- Most visitors to the park were non-locals (95%), driving 31 miles or more to reach the park. Both day and overnight users traveled similar distances to get to the park ( $M = 127.01$ ) miles. Most overnight users (29%) traveled 91 to 120 miles to reach the park, whereas most day users (51%) traveled 31 to 60 miles to reach the park.

- In total, 76% of respondents had visited this park before with 73% of overnight users and 78% of day users indicating they have visited the park before. Although users had visited an average of over two and a half times in the past 12 months, the highest proportion (32%) had only made one trip in the past year with 44% visiting between two to five times in the past year. On average, day users had visited significantly more times ( $M = 3.39$ ) than overnight users ( $M = 1.72$ ).
- Average group size was just over eight people, but this average was skewed by a few extremely large groups (e.g., weddings, reunions). Groups most commonly consisted of five to ten (42%) and three to four people (24%). There was no significant difference in average group size between overnight users ( $M = 7.84$ ) and day users ( $M = 8.29$ ). The majority of day users visited in groups of five to ten people (46%), whereas a majority of overnight users visited in groups of three to four people (27%).
- In total, 56% of park users did not bring dogs with them; 44% brought dogs. Overnight users (59%) were significantly more likely than day users (34%) to bring dogs.
- Most users arrived at the park in their family's personal vehicle (96%), 3% arrived in somebody else's vehicle, 1% arrived by boat, and another 1% arrived in another form of transportation. On average, there were 3.72 people in each personal family vehicle, 4.46 people in somebody else's vehicle, 5.00 people by boat, and 10.21 people in other forms of transportation (i.e., by bus). For all day-use vehicles, there was an average of 4.30 people in the vehicle. For all overnight vehicles, there was an average of 3.39 people in the vehicle.
- Over three quarters (81%) of users considered this park their main destination with significantly more overnight users (92%) than day users (73%) considering it the main reason for their trip.
- If they had been unable to go to Detroit Lake State Recreation Area for this visit, most park visitors would have either gone somewhere else for the same activity (57%), stayed home (17%), or come back another time (13%).
- If they had been unable to go to Detroit Lake State Recreation Area for this visit, many day users would have gone to Devil's Lake State Park, Fisherman's Bend Recreation Site, Foster Lake / Reservoir, Silver Falls State Park, Henry Hagg Lake Park, North Santiam Recreation Areas, North Fork Park, Suttle Lake, Lake Billy Chinook at the Cove Palisades State Park, Green Peter Reservoir, and the coast or any lake that allows boating; whereas overnight users would have gone to Beverly Beach State Park, Lake Billy Chinook at the Cove Palisades State Park, Cape Lookout State Park, Devil's Lake State Park, Diamond Lake, Fisherman's Bend Recreation Site, Fort Stevens State Park, Foster Lake / Reservoir, Green Peter Reservoir, Jessie Honeyman State Park, Prineville Reservoir, Silver Falls State Park, South Beach State Park, Trillium Lake, and coastal state parks.

### ***Physical Activity***

- A majority of all visitors indicated that they participated in moderate physical activity (56%), while 19% indicated participating in vigorous physical activity. Overnight users were significantly more likely to participate in moderate physical activity (79%) than day users (40%) and spent more minutes ( $M = 162$ ) than day users ( $M = 71$ ) participating in moderate physical activity. Overnight users, ( $M = 117$ ), however, spent a similar amount of minutes as day users ( $M = 100$ ) participating in vigorous physical activity during their visit.

- Over a quarter (28%) of all visitors indicated that their level of physical activity during their visit to Detroit Lake State Recreation Area was more than their daily life, whereas 41% indicated it was about the same, and 31% indicated it was less.
- Park visitors reported their visit helped to reduce stress (83%), improve mental health (80%), and reduce anxiety (74%), whereas only 42% reported their visit improved physical health or level of physical fitness (37%). Day users reported significantly more physical and mental benefits from their visit than overnight users, whereas overnight users were least likely to report health benefits related to improving their level of physical fitness (32%) and physical health (37%).

### ***Visitor Spending***

- The majority of local day users reported spending \$1-\$25 (46%) and \$151-\$350 (31%), while the majority of local overnight users reported spending \$51-\$150 (50%) and \$351-\$550 (50%).
- The majority of non-local day users reported spending \$51-\$150 (32%) and \$151-\$350 (24%), while the majority of non-local overnight users reported spending \$151-\$350 (41%) and \$51-\$150 (26%).
- Most visitors reported spending some money on park entry, parking, or recreation use fees (72%), groceries (70%), and gasoline and oil (62%).
- Most visitors were non-local (95%), with the majority of these day users reported spending some money on park entry, parking or recreation use fees (84%), and groceries (66%); whereas the majority of these overnight users reported spending some money on camping (91%), and groceries (78%).
- Day users reported that they would spend no more than an average of \$83 than they already spent before deciding not to visit the park, whereas overnight users reported that they would spend an average of no more than \$143 than they already spent before deciding not to visit the park. The largest percentage of day users (25%) reported they would spend no more than \$26 to \$50 before deciding not to visit; whereas the largest percentage of overnight users (27%) reported they would spend no more than \$51 to \$150 before deciding not to visit the park.
- Almost one half (47%) of all visitors were staying away from home within 30 miles of the park with significantly more overnight users (71%) than day users (32%) staying away from home. Of those users staying away from home within 30 miles of the park, respondents indicated staying an average of three and a half nights (3.50), with overnight users (3.89) staying more nights on average than day users (2.91).

### ***Obtaining Information about the Parks***

- Almost all users (96%) were able to find the information they needed when planning their visit to this park, and the few (4%) who did not find it would like better descriptions of policies and about campsite / park attributes on website, water levels and forest fire conditions nearby, GPS coordinates, directions for how to navigate OPRD and Reserve America websites.
- The most heavily used sources of information were previous visits (78% used sometimes or often), official internet websites (e.g., Oregon State Parks, Travel Oregon; 77%), and friends or family members (72%). The least used sources were health care providers (8%), videos or DVDs (10%), radio (14%), television (14%), community organizations or church (15%), and books (15%). Day users utilized most sources much more often, but

overnight users were significantly more likely than day users to obtain information from official internet websites (92%) and brochures (43%).

- Official internet websites (e.g., Oregon State Parks, Travel Oregon; 69%) were overwhelmingly the first primary source used by most respondents, followed by friends or family members (19%), and previous visits (6%). Overnight users were almost entirely dependent on official websites as their primary source (83%). Day users were also heavily dependent on these websites (59%), but also used other sources such as friends and family (25%) and previous visits (6%).

### ***Satisfaction with Experiences and Conditions***

- Users considered the most important characteristics at this park were the park's cleanliness (e.g., lawn care, lack of graffiti; 98%), cleanliness of toilets (96%), absence of litter (96%), a good value for the fee(s) paid (92%), personal safety (91%), and courteousness of rangers / personnel (90%). The least important attributes were the amount and quality of educational information (42%, to 44%), ease of movement or access (e.g., wheelchair, elderly, baby stroller; 53%), facilities for groups to gather (54%), and park trails (56%). Day users considered signs with directions in and to the park, facilities for groups to gather, and ease of movement or access to be more important. Overnight users considered the courteousness and presence of rangers / personnel, and the quality and amount of educational information to be more important. Almost all (94%) overnight users considered comfort of campsites to be important and 93% believed that shading provided by trees and other structures was important.
- Overall satisfaction among users was extremely high, as 95% were satisfied with the highest proportion of users being "very satisfied" (53%). Users were most satisfied with the park cleanliness (94%), absence of litter (91%), number of toilets / bathrooms (89%), courteousness and presence of rangers / personnel (89% to 87%), personal safety (89%), and being a good value for the fee(s) paid (87%). Users were least satisfied with the amount and quality of educational information provided (both 54%), number of park trails (63%), facilities for groups to gather (64%), information about conditions / hazards (65%), and ease of movement / access (wheelchair, elderly, stroller; 65%). Day users were more satisfied with the parking for vehicles, and the group facilities, whereas overnight users were more satisfied with the cleanliness of park, absence of litter, having a variety of things to do, signs with directions in the park, condition / maintenance of trails, information about conditions / hazards, and the amount and quality of educational information. Overnight users were also satisfied with the shading provided by trees, and the comfort of campsites (both 88%).
- An Importance – Performance analysis showed that all park attributes were in the "keep up the good work" category, indicating that users thought that staff were doing a good job managing conditions and experiences. There were, however, three attributes that were important to day users, and two attributes that were important to overnight users, but these attributes fell into the "concentrate here" category, indicating that users were only slightly satisfied with these important attributes. Therefore, managers should consider monitoring attributes such as the opportunity to escape crowds or people, signs with directions in the park, and parking for vehicles in the day use areas, and the opportunity to escape crowds of people, and parking for vehicles in the overnight use areas.
- Most respondents were also satisfied with the natural environment (94%), facilities and services (87%), and with the fee(s) paid (88%).

- Most respondents (93%) said they were likely to return to this park in the future.
- Almost all visitors (97%) to Detroit Lake State Recreation Area would recommend the park to their friends or family, with more day users (99%) willing to recommend the park than overnight users (94%). Reasons respondents indicated they would not recommend the park were because it is too crowded with people, extremely noisy from nearby highway and/or other campers, not enough parking, must book too far in advance to get a campsite, campsites are too small, and there are too many inconsiderate campers.
- The most commonly reported outstanding features and things to do at Detroit Lake State Recreation Area involved: (a) access to the lake and facilities; (b) multiple activities associated with the lake (e.g., boating, swimming, fishing, sailing, jet skiing); (c) the beauty of the lake and natural scenery; (d) easily accessible; (e) friendly staff; (f) boat docks and lake side campsites; and (g) the family environment.
- Both day users (63%) and overnight users (75%) felt slightly crowded with 68% of all park users feeling some degree of crowding on their visit. These results suggest that crowding in the overnight-use areas are at “more than capacity”, and may soon or already exceed social carrying capacity, indicating more studies may be needed to allow management to preserve experiences. However, crowding in the day-use area is in the “high normal” range, where carrying capacity may not be exceeded, but may be trending in that direction.

#### ***Attitudes About Programs and Management Strategies***

- About half of all users (47%), including 52% of day users and 41% of overnight users, indicated they would consider participating in a Let’s Go program. Programs with the most interest were fishing, (51%), kayaking (51%), rafting (48%), canoeing (47%), and hiking (47%), while programs with the least interest were scenic bicycling on roads (19%), geocaching (19%), disc golfing (19%), and birding (19%). Overnight and day users were similarly interested in each of the programs with overnight users significantly more interested in stargazing (53%), birding (28%), and geocaching (27%) than day users, and more day users significantly more interested in rafting (52%) than overnight users.
- Only 10% of day and overnight users utilized a concession service or activity (e.g., fishing, rafting, bicycling, scenic or historic tour) while at Detroit Lake State Recreation Area. The most popular concession service/activities were boat rentals (e.g., Jet Ski, pontoon, paddle boat, kayak, raft, canoe), camp store (firewood, ice, coffee), and fishing.
- Users most strongly supported management strategies that would provide more opportunities at the park for escaping crowds (74%), requiring all dogs be kept on a leash at all times (69%), improve maintenance of facilities / services (67%), provide more recycling containers (66%), opportunities for viewing wildlife (65%), trash cans (65%), and natural buffers to block view of development (64%). The least supported strategies were to close park to all recreation / tourism activities (10%), limit the number of people allowed per day (31%), limit the number of large groups allowed (35%), provide more programs led by park rangers (37%), and provide more paved trails (42%). Day users were more supportive of providing more opportunities for escaping crowds, information / education, enclosed shelters, paved trails, improved maintenance of facilities and services, providing more recycling containers, trash cans, group picnic areas, making park more pet friendly, closing park to all recreation / tourism activities, and not changing anything. Overnight users were more supportive of more natural buffers to block view of

development, wireless internet access in the park, and limiting the number of large groups allowed.

- A majority of overnight users supported providing more campsites with both RV and tent camping (68%), more space between campsites (58%), and increasing the enforcement of quiet hours (53%). They were least supportive of more walk-in / cart-in campsites (21%), group camping areas (33%), and tent camping in the campgrounds (37%).
- There was overall low support for service reductions in the park. The highest support was for reducing ranger-led programs (28%) and fewer ranger patrols (13%) with the lowest support for reducing janitorial services (4%) scaled down facilities (e.g., restrooms, shelters; 6%), and fewer hours open (9%). There were no significant differences between day and overnight users in their support for possible service reductions at the park.
- The most popular type of campsites were RV campsites (58%) and tent campsites (48%). Few overnight users (i.e., 1% or less) stayed in the group tent or group RV sites, cabins, yurts, and the hiker / biker sites.
- Overnight users reported that if they were to stay at an RV or tent campsite, 54% would need 30 amps, 24% would need 50 amps, and 16% would need no electrical power. Few users (5%) would need 100 amps.
- Overnight users reported that electric (90%) and water (84%) hookups to be more important than sewer (62%) hookups.
- In total, 87% of overnight users reserved their visit using the internet reservation system, 13% used the telephone reservation system, and < 1% had someone else make the reservation. Satisfaction with the reservation system was high, as 84% were satisfied and only 16% were not satisfied, with the highest proportion of overnight users being “very satisfied” (47%).

### ***Sociodemographic Characteristics of Users***

- There were a few more female (63%) than male (37%) users at this park.
- The average age of users was approximately 44 years old, and the largest proportions of users were 30 to 39 years old (29%) and 40 to 49 years old (23%).
- The average annual household income before taxes of respondents was \$69,800, and the largest proportion of users had incomes from \$50,000 to \$69,999 (21%) and \$70,000 to \$89,999 (18%). Visitors to Detroit Lake State Recreation Area are generally wealthier than the Oregon population at large (Oregon median household income in 2010 was \$51,994).
- Most respondents were white (i.e., Caucasian; 88%) with few Hispanic / Latinos (6%), Asians (2%), American Indian / Alaska Natives (1%), and Blacks / African Americans (1%).
- There was a significant difference in ethnicity between day and overnight users with a greater number of whites (Caucasian) at the overnight areas (91%) than at day areas (86%).
- Almost all respondents (96%) reported English as their primary language spoken in their homes.
- About 88% of users lived in Oregon, 7% resided in Washington State, 1% were from California, and < 1% were from British Columbia (Canada). Among park users, 55% resided in the Willamette Valley of Oregon, 28% resided in the Portland Metro region, and 3% or fewer lived in each of the other regions of the state (i.e., Coastal, Southern,

Eastern, Central, and Mt. Hood / Gorge). The largest percentage of overnight users was from the Portland Metro region (40%) and from the Willamette Valley (35%), whereas day users came primarily from the Willamette Valley (66%) and Portland Metro regions (20%). A majority of day users primarily lived in Oregon (90%), and Washington State (4%). Overnight users also primarily resided in Oregon (85%), and Washington State (12%).

- In total, 81% of users said that nobody in their group had a disability, whereas 19% had at least one group member with a disability. Of those who had a disability, the most common was associated with walking (10% of park users), while 3% had a hearing disability, 3% had learning disabilities, and 1% had impaired sight.

## **Recommendations**

### ***Management Recommendations***

- Almost all day and overnight users traveled to this park in their own vehicles (96%), so adequate parking is important and should be considered in planning and management.
- The average number of visitors per vehicle for Detroit Lake State Recreation Area day-use visitors (4.30) was higher than the current FMS assumption of 4.0 visitors per vehicle. Park managers may want to use this updated figure in future day-use visitation calculations for the park.
- Over half of overnight users (59%) and 34% of day users brought dogs with them to this park, so it will be important to ensure adequate facilities to accommodate dogs and their owners (e.g., pick up bags, signs specifying regulations or restrictions), especially in the overnight camping areas. There were also various concerns in the narrative portions of the survey (Appendix A) regarding off leash dogs, and the noise or mess left behind by dogs. Managers may want to consider examining enforcement of existing pet regulations in the day and overnight areas as 74% of all visitors supported requiring dogs be on leash at all times and 50% supported making the park more pet friendly.
- Almost all users (95%) were satisfied with their experiences and the conditions at this park. Satisfaction, however, was consistently lower for the amount (54%) and quality (54%) of information and education materials and programs. Managers may wish to evaluate these services to users to ensure they are meeting visitor needs.
- Users were also somewhat less satisfied with the ease of movement and access around the park (e.g., wheelchair, stroller, elderly; 65%). Given that over 14% of park visitors were over the age of 60 and 19% of users had disabilities (10% with disabilities related to walking), managers may want to consider evaluating access throughout the park and perhaps even obtaining a current ADA or related audit.
- Approximately 63% of day and 75% of overnight users felt crowded at the park. These results suggest that crowding in the overnight-use areas are at “more than capacity”, and may soon or already exceed social carrying capacity, indicating more studies may be needed to allow management to preserve experiences. Furthermore, crowding in the day-use area is in the “high normal” range, where carrying capacity may not be exceeded, but may be trending in that direction. Monitoring and management of park use levels is needed, especially given that 77% of day users and 76% of overnight users supported the provision of more opportunities for escaping crowds.
- Users most strongly supported strategies designed to provide more opportunities at the park for escaping crowds (74%), requiring all dogs be kept on a leash at all times (69%), improve maintenance of facilities / services (67%), provide more recycling containers

(66%), opportunities for viewing wildlife (65%), trash cans (65%), and natural buffers to block view of development (64%). A majority of overnight users also supported providing more campsites with both RV and tent camping (68%), more space between campsites (58%), and increasing the enforcement of quiet hours (53%). Managers may want to consider some or all of these strategies.

- An Importance – Performance analysis showed that all park attributes were in the “keep up the good work” category, indicating that users thought that staff were doing a good job managing conditions and experiences. There were, however, three attributes that were important to day users, and two attributes that were important to overnight users that fell into the “concentrate here” category, indicating that users were only slightly satisfied with these important attributes. These results reveal that managers should consider examining the opportunity to escape crowds or people, signs with directions in the park, and parking for vehicles in the day use areas, and the opportunity to escape crowds of people, and parking for vehicles in the overnight use areas.
- The visitor spending analysis showed that non-local visitor party spending was substantial, with the highest percentage (29%) reporting spending \$51-\$150 and an additional 29% spending \$150-\$350 on their trip (within 30 miles of the park). In particular, non-local overnight visitors (41%) reported spending \$151-\$350 on their trip. Most visitors reported spending some money on park entry fees (72%), groceries (70%), gasoline and oil (62%), and camping (49%). A more extensive visitor spending analysis of this data set is being conducted by Oregon State University (OSU) and will be available in a separate report. Park managers may want to use the OSU report findings to help inform local community leaders about the positive impact of Detroit Lake State Recreation Area visitor spending on the local economies.
- The largest proportion of users depended on official internet websites (69%) as the first primary source of obtaining information about state parks such as Detroit Lake State Recreation Area, and the majority of overnight users (87%) reserved their spot at this park using the online / internet reservation system. Given these findings, it is imperative for staff to ensure that agency and park internet websites are easy to navigate, up to date, and provide comprehensive information.
- Almost all park visitors (96%) were able to find the information they needed when planning their visit to Detroit Lake State Recreation Area. However, some visitors (4%) were not able to find all information needed. The most popular information needed was better descriptions of policies and about campsite / park attributes on website, water levels and forest fire conditions nearby, GPS coordinates, directions for how to navigate OPRD and Reserve America websites.
- Users also provided 590 verbatim open ended comments on what they found to be the most outstanding features or things to do at Detroit Lake State Recreation Area. The most common outstanding features and things to do involved: (a) access to the lake and facilities; (b) multiple activities associated with the lake (e.g., boating, swimming, fishing, sailing, jet skiing); (c) the beauty of the lake and natural scenery; (d) easily accessible; (e) friendly staff; (f) boat docks and lake side campsites; and (g) the family environment.
- The demographic analysis shows that about 8% of day users were Hispanic at Detroit Lake State Recreation Area, but only 3% of overnight users to the park were Hispanic. Given that the Hispanic population is the fastest growing ethnic group in the state, park

managers might consider enacting strategies intended to increase Hispanic participation and camping at Detroit Lake State Recreation Area.

- Users provided 518 verbatim open ended positive and negative comments, and suggestions for possible improvement of Detroit Lake State Recreation Area and other park related issues. The most common concerns raised involved: (a) better enforcement of quiet hours (inconsiderate campers and dogs); (b) better enforcement of off-leash dogs, noise from barking dogs, and messes created by dogs; (c) pre-registration and slow check-in process; (d) difficult to get sites, especially for groups; (e) improvements to swimming area (i.e., too rocky, trip hazards, size too small, add picnic tables, shade, dock or platform); (f) parking for boats and day visitors in overnight area; (g) highway noise; (h) staff customer service; (i) bathroom facilities (maintenance and cleanliness); (j) fewer crowds; (k) lawn maintenance; (l) more buffers between campsites; (m) lake safety and congestion; (n) more hiking / bicycling trails; and (o) Wi-Fi for internet access.

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## ***INTRODUCTION AND OBJECTIVES***

The Oregon State Parks system provides public access to a collection of the state's outstanding natural, cultural, scenic, and outdoor recreation resources. Understanding the opinions of park users regarding issues such as the quality of facilities, recreational opportunities, social and resource conditions, and how they use these parks is critical to providing effective facilities, programs, and services. Project objectives were to describe day and overnight user activities, demographic characteristics, and opinions about conditions and management at this park and provide recommendations for maintaining or improving conditions at this park.

## ***METHODS***

Data were obtained from questionnaires (see Appendix B) administered to randomly selected samples of day and overnight users at Detroit Lake State Recreation Area between July and August 2011. Separate survey methods were used for each of these visitor types — on-site (face to face) for day users and electronic (email, internet) for overnight users. Questionnaires administered to overnight users were basically identical to those administered to day users, but contained a few additional questions specific to overnight activities (e.g., camping). Each day user or overnight user contacted only completed the full length questionnaire once using only one of these methods, not multiple times using more than one approach.

### **Onsite Survey of Day Users**

Day users 18 years of age and older who visited Detroit Lake State Recreation Area between July 4 and September 01, 2013 were approached in person (face to face) and asked to complete the six page questionnaire onsite at this park. Onsite questionnaires were necessary because personal contact information (e.g., home mail and email addresses, telephone numbers) required for alternative approaches such as telephone or mail surveys are not available from day users, as OPRD does not regularly collect this information from these users. Day users were asked if they would be willing to complete the questionnaire and asked to immediately complete and return the full length questionnaire onsite. Questionnaires were printed on both sides of two legal sized (8 ½ x 14) pages and folded into a small booklet, and took most respondents approximately 15 to 20 minutes to complete. Respondents were provided with a clipboard and pen to complete the questionnaire onsite. Two volunteers (e.g., Camp Hosts) administered these questionnaires to reduce costs.

### **Internet Survey of Overnight Users**

Random samples of overnight users 18 years of age and older were contacted via email and directed to complete the questionnaire on the SurveyMonkey internet website (<http://www.surveymonkey.com/>). OPRD and Reservations Northwest collect contact information such as email addresses from overnight users when these users reserve their camping spot through the agency telephone or internet reservation systems. A single completion option on the SurveyMonkey website was used to ensure that respondents did not complete the full length questionnaire more than once.

Users were sent a first email letter that requested their participation by completing an internet questionnaire, provided standard verbiage regarding recruitment / consent and length. A week after this initial email, a second email letter was sent to those who had not yet completed the internet questionnaire stressing the importance of the study, emphasizing anonymity and confidentiality, and requesting participation. A third final email letter was sent to those that had not yet completed the questionnaire. No further email letters were sent, so users were considered a nonresponse if they did not complete the internet questionnaire following these three email letters. Email letters requesting participation were sent between July 24 and August 14, 2013. These emails and internet questionnaires were administered by researchers at the Oregon Parks and Recreation Department.

### **Sample Sizes and Response Rates**

As shown in Table 1, the total number of completed questionnaires across all survey approaches was  $n = 813$  with an estimated total response rate of 74%. Completed questionnaires were received from  $n = 280$  day users (52% response rate) and  $n = 533$  overnight users (84% response rate). These combined sample sizes across survey methods allow generalizations about the population of day users at Detroit Lake State Recreation Area at a margin of  $\pm 5.8\%$ , overnight users at  $\pm 4.2\%$ , and both day and overnight users at  $\pm 3.4\%$  at the 95% confidence level.

Table 1. Sample sizes and response rates for each survey approach

	Initial contacts	Completed surveys ( <i>n</i> )	Response rate (%)
Day Users	538	280	52
Overnight Users	638	533	84
Total	1106	813	74

Table 1 also shows that the total number of completed questionnaires for overnight users (*n* = 533) was higher than day users (*n* = 280). Between 2010 and 2012, however, a much larger proportion of the total population of users at Detroit Lake State Recreation Area consisted of day users. Actual population estimates for day users, for example, ranged from 125,356 in 2010, 122,352 in 2011, and 95,928 in 2012 compared to just 83,860 overnight users in 2010, 81,322 in 2011, and 79,606 in 2012. These average use levels across the three years from 2010 to 2012 show that approximately 58.4% of all users at Detroit Lake State Recreation Area were day users and 41.6% were overnight users. The sample for this project, however, consisted of 34.4% day users and 65.6% overnight users. Consequently, in the results sections reporting findings only for all users taken together (i.e., total users at Detroit Lake), the data were weighted by population proportions calculated from the three year average using the following formula (Vaske, 2008) to ensure that questionnaire responses were statistically representative of the total population of all users at this park:

$$\text{Weight} = \frac{\text{Population \%}}{\text{Sample \%}}$$

$$\text{Weight (day users)} = \frac{0.584}{0.344} = 1.70$$

$$\text{Weight (overnight users)} = \frac{0.416}{0.656} = 0.634$$

Questionnaires administered to both the day users and overnight users included questions on a range of topics such as prior visitation, activity participation, visitor spending, satisfaction, support of management, and demographic characteristics. Results in this report are grouped into subsections according to these questions. Within each subsection, analysis is conducted on potential differences between day users and overnight users. Percentages, crosstabulations, and bivariate statistical tests were used to analyze and present results. These tests produce *p*-values and when a *p*-value associated with any statistical tests (i.e.,  $\chi^2$ , *F*) presented in this report is  $p \leq$

.05, a statistically significant relationship or difference was observed between groups or variables. In addition to these tests of statistical significance, effect size statistics (e.g., Cramer's  $V$ ,  $\eta^2$ ) were used to compare the strength of relationships. In general, a value of .10 for effect sizes can be considered a "minimal" (Vaske, 2008) or "weak" (Cohen, 1988) relationship or difference. An effect size of .30 is considered "medium" or "typical," and .50 or greater is a "large" or "substantial" relationship or difference; larger effect sizes imply stronger relationships or differences. To highlight key findings, data were often recoded into major response categories (e.g., agree, disagree; support, oppose), but basic descriptive findings of uncollapsed questions (i.e., strongly, slightly agree) are provided in Appendix C.

## ***RESULTS***

### **Personal and Visit Characteristics**

***Activity Groups.*** The questionnaires asked respondents to check all of the activities in which they participated at Detroit Lake State Recreation Area on their most recent trip. Table 2 shows that the most popular activities at this park were swimming / wading (83%), picnicking or barbecuing (69%), and boating (52%). The least popular activities were ranger-led programs (6%), running or jogging (7%), bird or wildlife watching (11%), and bicycling on local roads (12%). Participation rates differed significantly between day users and overnight users for 8 of these 13 activities; participation in swimming / wading, sightseeing, outdoor photography, bird or wildlife watching, and running or jogging did not differ between these two groups. Participation rates for activities only offered in the overnight areas showed that 5% of overnight users played basketball, volleyball, and horseshoes, while 97% indicated participating in camping. In many cases, overnight users were significantly more likely to participate in the various activities, which is not surprising given that they had much more time at the park to engage in activities.

Table 2. Comparison of day and overnight users for recreation activities at the park

	User Group <sup>a</sup>			$\chi^2$ value	p value	Effect size Phi ( $\phi$ )
	Day Users	Overnight Users	Total <sup>b</sup>			
Swimming / wading	84	81	83	1.57	.210	.04
Picnicking or barbecuing	77	57	69	34.08	< .001	.20
Boating (motor, canoe, kayak)	44	62	52	22.86	< .001	.17
Hiking or walking	32	65	46	83.47	< .001	.32
Sightseeing	28	34	31	2.81	.094	.06
Outdoor photography	27	33	30	2.82	.093	.06
Fishing	23	40	30	25.79	< .001	.18
Dog walking	19	42	28	46.07	< .001	.23
Bicycling on local roads	4	22	12	52.15	< .001	.23
Bird or wildlife watching	10	14	11	3.09	.079	.06
Running or jogging	6	8	7	2.33	.127	.05
Ranger-led program(s)	< 1	14	6	56.42	< .001	.22
Other <sup>c</sup>	8	4	6	6.16	.013	.09
Basketball <sup>d</sup>	--	5	--	--	--	--
Volleyball	--	5	--	--	--	--
Horseshoes <sup>d</sup>	--	5	--	--	--	--
Camping <sup>d</sup>	--	97	--	--	--	--

<sup>a</sup> Cell entries are percentages (%) of users who reported participating in the activity at the park on their most recent visit. Percentages do not sum to 100% because respondents could check more than one activity from the list.

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup> The most popular “other” activities were: social events (e.g., reunions, party), geocaching, playing, relaxing and sunbathing, water sports (water skiing, sailing, floating, windsurfing).

<sup>d</sup> These activities only offered in the overnight areas.

Respondents were then asked to specify the one primary activity in which they participated most often during their recent visit to Detroit Lake State Recreation Area. Table 3 shows that the most common primary activity groups were swimming / wading (30%), boating (motor, canoe, kayak; 23%), and picnicking or barbecuing (13%). The least common activity groups were ranger-led programs, bird or wildlife watching, outdoor photography and running or jogging (all < 1%). There was, however, a statistically significant and “substantial” difference between primary activities of day users and overnight users. Day users, for example, were more likely to consider swimming / wading and picnicking or barbecuing as their primary activities, whereas overnight users were much more likely to consider camping, and boating as their primary activity.

Table 3. Comparison of day and overnight users for primary activity at the park <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
Swimming / wading	44	12	30
Boating (motor, canoe, kayak)	21	26	23
Camping	0	53	23
Picnicking or barbecuing	22	< 1	13
Hiking or walking	3	3	3
Fishing	3	4	3
Other	4	< 1	2
Dog walking	< 1	1	1
Sightseeing	2	1	1
Running or jogging	< 1	< 1	< 1
Outdoor photography	1	0	< 1
Bird or wildlife watching	0	< 1	< 1
Ranger-led programs	0	< 1	< 1

<sup>a</sup>  $\chi^2 = 425.65, p < .001, V = .67.$

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

**Duration of Visit.** Day users were asked to report how many *hours* they spent at Detroit Lake State Recreation Area on their recent trip and overnight users were asked how many *nights* in a row they spent at the park on their trip. Table 4 shows that, on average, day users spent over five hours in the park, with 51% of users spending up to five hours in the park. The majority of day users (44%), however, spent six to nine hours.

Overnight users spent an average of almost four nights at the park, although the largest proportions spent two (24%) or three (25%) nights at the park (Table 4). An additional 15% spent four nights at the park, 9% spent five nights, and another 18% spent six or more nights.

Table 4. Duration of visit at the park

Day Users (Hours)	
1 hour	4
2 hours	8
3 hours	12
4 to 5 hours	27
6 to 9 hours	44
10 or more hours	6
Mean / average hours	5.34
Overnight Users (Nights)	
1 night	9
2 night	24
3 night	25
4 night	15
5 night	9
6 or more nights	18
Mean / average nights	3.80

<sup>1</sup> Cell entries are percentages (%) unless specified as means / averages

**Distance Traveled.** Respondents were also asked to report about how far from home they traveled to get to the park. Table 5 shows that 5% of visitors were local (driving 30 miles or less to reach the park) and another 83% originated 31 to 120 miles from the park. A higher percentage of day-use visitors (7%) than overnight visitors (2%) were local. Both day and overnight users traveled similar distances to get to the park ( $M = 127.01$  miles).

Table 5. Comparison of day and overnight user distance traveled to the park <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
30 miles or less	7	2	5
31 to 60 miles	51	23	39
61 to 90 miles	19	28	23
91 to 120 miles	14	29	21
121 to 150 miles	4	8	6
151 to 250 miles	2	4	3
251 to 500 miles	1	4	2
501 or more miles <sup>c</sup>	2	2	2
Mean / average	125.53	128.97	127.01

<sup>a</sup>  $\chi^2 = 185.35, p < .001, V = .46$ .

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup>  $t = 0.15, p = .881, r_{pb} = .01$ .

**Previous Visitation.** Users were asked if they had ever visited Detroit Lake State Recreation Area before their most recent trip. Table 6 shows that 76% of respondents had visited this park before, whereas 24% had not visited previously. There was no significant difference, however, between day users and overnight users with previous visitation.

Table 6. Comparison of day and overnight user previous visitation to the park <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
Yes, visited park before	78	73	76
No, not visited park before	22	27	24

<sup>a</sup>  $\chi^2 = 2.41, p = .120, \phi = .05.$

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

Users who had previously visited this park were then asked how many trips they had made to this park in the past 12 months. Table 7 shows that users had visited an average of over two and half times in the past 12 months. Around 14% of visitors had never visited the park before. The highest proportion (32%) had visited the park just once, with 22% visiting twice and 22% visting three to five times in the past year. On average, day users had visited significantly more times ( $M = 3.39$ ) in the past 12 months than overnight users ( $M = 1.72$ ). For example, 83% of overnight users had visited two or fewer times in the past 12 months and less than 5% had visited six or more times, whereas 15% of day users had visited six or more times.

Table 7. Comparison of day and overnight user number of previous visits to the park in the last 12 months <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
0 Trips	14	15	14
1 Trip	22	45	32
2 Trips	21	23	22
3 to 5 Trips	28	14	22
6 to 12 Trips	11	4	8
13 to 24 Trips	3	1	2
More than 24 Trips	1	0	1
Mean / average trips <sup>c</sup>	3.39	1.72	2.67

<sup>a</sup>  $\chi^2 = 61.15, p < .001, V = .32.$

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup>  $t = 4.48, p < .001, r_{pb} = .24.$

**Group Size.** Respondents were asked to report how many people, including themselves, accompanied them at Detroit Lake State Recreation Area on their most recent trip. Table 8 shows that the average group size was over eight people, but this average was skewed by a few

extremely large groups (e.g., weddings, reunions). Groups most commonly consisted of five to ten (42%) and three to four people (24%). There were no significant differences in group size between day and overnight users. Few users visited alone (3%) or in groups greater than 25 people (4%).

Table 8. Comparison of day and overnight user group size at the park <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
1 Person (alone)	2	3	3
2 People	9	16	12
3 or 4 People	23	27	24
5 to 10 People	46	36	42
11 to 25 People	18	14	16
More than 25 People	3	4	4
Mean / average <sup>c</sup>	8.29	7.84	8.10

<sup>a</sup>  $\chi^2 = 69.41, p = .002, V = .30$ .

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup>  $t = 0.62, p = .533, r_{pb} = .02$ .

**Bringing Dogs to the Park.** The questionnaires asked day users and overnight users if they or anyone else in their group brought dog(s) with them to Detroit Lake State Recreation Area. Table 9 shows that 56% of park users did not bring dogs with them and 44% brought dogs. Overnight users (59%) were significantly more likely than day users (34%) to bring dogs.

Table 9. Comparison of day and overnight users bringing dogs with them to the park <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
No, did not bring dog(s)	66	41	56
Yes, brought dog(s)	34	59	44

<sup>a</sup>  $\chi^2 = 40.63, p < .001, \phi = .23$ .

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

**Transportation to the Park.** Respondents were asked how they got to Detroit Lake State Recreation Area on their most recent trip. Table 10 shows that almost all users arrived at the park in their family’s personal vehicle (96%), 3% arrived in somebody else’s vehicle, 1% arrived by boat, and another 1% arrived in another form of transportation. On average, there were 3.72 people in each personal family vehicle, 4.46 people in somebody else’s vehicle, 5.00 people by boat, and 10.21 people in other forms of transportation (i.e., by bus). For all day-use vehicles, there was an average of 4.30 people in the vehicle. For all overnight vehicles, there was an

average of 3.39 people in the vehicle. There was a significant, but relatively weak difference between day users and overnight users, with almost all overnight users arriving in their own vehicles (97%) compared to day users (95%). Day users (5%) were slightly more likely than overnight users (3%) to use other modes of transportation.

Table 10. Comparison of day and overnight user transportation to the park <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
My family’s personal vehicle <sup>c</sup>	95	97	96
Somebody else’s personal vehicle <sup>d</sup>	4	2	3
By boat <sup>e</sup>	0	1	1
Other <sup>f</sup>	1	0	1

<sup>a</sup>  $\chi^2 = 15.66, p = .001, V = .13.$

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup> Number of people in vehicle: mean / average = 3.72 (1-2 people = 29%, 3-4 people = 44%), day user = 4.04, overnight = 3.40.

<sup>d</sup> Number of people in vehicle: mean / average = 4.46 (1-4 people = 37%, 5-6 people = 55%), day user = 4.71, overnight = 3.18.

<sup>e</sup> Number of people in boat: mean / average = 5.00 (1-4 people = 75%, over 5 people = 25%), day user = 5.00, overnight = N/A.

<sup>f</sup> Number of people in vehicle: mean / average = 10.21 (1-4 people = 45%), day user = 13.00, overnight = 2.75.

**Reasons for Visiting.** Visitors were asked if this park was the main reason for their trip. Table 11 shows that 81% of users considered this park their main destination with significantly more overnight users (92%) than day users (73%) considering it the main reason for their trip.

Table 11. Comparison of day and overnight users in whether the park was their main destination <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
Primarily for recreation – this park was main destination	73	92	81
Primarily for recreation – main destination was not this park	15	4	10
Primarily for business, family, or other reasons – park was side trip	9	2	6
Some other reason	3	2	2

<sup>a</sup>  $\chi^2 = 50.82, p < .001, V = .26.$

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

**Alternatives to Visit.** Respondents were then asked what things they would have considered doing if they were not able to go to Detroit Lake State Recreation Area for this visit. As shown in Table 12, most users responded that, if unable to go to the park for this visit, they would have either gone somewhere else for the same activity (57%), stayed home (17%), or come back another time (13%). Overnight users (63%) were more likely than day users (52%) to go somewhere else for the same activity. Furthermore, overnight users reported that they would

travel farther for the same activity ( $M = 128.67$ ) than day users ( $M = 62.04$ ), and would also travel farther for a different activity ( $M = 84.45$ ) than day users ( $M = 54.00$ ).

Table 12. Comparison of day and overnight user alternatives to park visit <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
Gone somewhere else for same activity <sup>c</sup>	52	63	57
Come back another time	12	15	13
Stayed home	23	9	17
Gone somewhere else for a different activity <sup>d</sup>	4	5	5
Gone to work at my regular job	< 1	3	2
Something else (none of these)	8	5	7

<sup>a</sup>  $\chi^2 = 34.80, p < .001, V = .22$ .

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup> If gone somewhere else for same activity, how far from home is the place you would have gone instead: mean / average = 94.83 miles, day user = 62.04, overnight = 128.67. ( $t = 9.17, p < .001, r_{pb} = .34$ ).

<sup>d</sup> If gone somewhere else for different activity, how far from home is the place you would have gone instead: mean / average = 71.60 miles, day user = 54.00, overnight = 84.45. ( $t = 1.18, p = .248, r_{pb} = .25$ ).

Respondents were also asked to specify what other park they would consider going to if they had not been able to go to Detroit Lake State Recreation Area. Many day users indicated that they would visit Devil’s Lake State Park, Fisherman’s Bend Recreation Site, Foster Lake / Reservoir, Silver Falls State Park, Henry Hagg Lake Park, North Santiam Recreation Areas, North Fork Park, Suttle Lake, Lake Billy Chinook at the Cove Palisades State Park, Green Peter Reservoir, and the coast or any lake that allows boating. Many overnight users indicated that they would visit Beverly Beach State Park, Lake Billy Chinook at the Cove Palisades State Park, Cape Lookout State Park, Devil’s Lake State Park, Diamond Lake, Fisherman’s Bend Recreation Site, Fort Stevens State Park, Foster Lake / Reservoir, Green Peter Reservoir, Jessie Honeyman State Park, Prineville Reservoir, Silver Falls State Park, South Beach State Park, Trillium Lake, and coastal state parks.

**Section Summary.** Taken together, results in this section showed that:

- The most popular activities were swimming / wading (83%), picnicking or barbecuing (69%), and boating (52%); the least popular were ranger-led programs (6%), running or jogging (7%), bird or wildlife watching (11%), and bicycling on local roads (12%). Overnight users were more likely to participate in most activities, which is not surprising

given that they had more time at the park. Picnicking or barbecuing was the only activity measured that was more popular among day users (77%) than overnight users (57%).

- The most common main activity groups were swimming / wading (30%), boating (motor, canoe, kayak; 23%), and picnicking or barbecuing (13%). The least common groups were ranger-led programs, bird or wildlife watching, outdoor photography and running or jogging (all < 1%). Day users were more likely to consider swimming / wading and picnicking or barbecuing, whereas overnight users were more likely to consider camping, and boating as their primary activity.
- Day users spent an average of over five hours in the park, with 51% of users spending up to five hours in the park. The majority of day users (44%), however, spent six to nine hours. Overnight users spent an average of almost four nights at the park, although the largest proportions spent two (24%) or three (25%) nights at the park and an additional 15% spent four nights at the park, 9% spent five nights, and another 18% spent six or more nights.
- Most visitors to the park were non-locals (95%), driving 31 miles or more to reach the park. Both day and overnight users traveled similar distances to get to the park ( $M = 127.01$ ) miles. Most overnight users (29%) traveled 91 to 120 miles to reach the park, whereas most day users (51%) traveled 31 to 60 miles to reach the park.
- In total, 76% of respondents had visited this park before with 73% of overnight users and 78% of day users indicating they have visited the park before. Although users had visited an average of over two and a half times in the past 12 months, the highest proportion (32%) had only made one trip in the past year with 44% visiting between two to five times in the past year. On average, day users had visited significantly more times ( $M = 3.39$ ) than overnight users ( $M = 1.72$ ).
- Average group size was just over eight people, but this average was skewed by a few extremely large groups (e.g., weddings, reunions). Groups most commonly consisted of five to ten (42%) and three to four people (24%). There was no significant difference in average group size between overnight users ( $M = 7.84$ ) and day users ( $M = 8.29$ ). The majority of day users visited in groups of five to ten people (46%), whereas a majority of overnight users visited in groups of three to four people (27%).

- In total, 56% of park users did not bring dogs with them; 44% brought dogs. Overnight users (59%) were significantly more likely than day users (34%) to bring dogs.
- Most users arrived at the park in their family's personal vehicle (96%), 3% arrived in somebody else's vehicle, 1% arrived by boat, and another 1% arrived in another form of transportation. On average, there were 3.72 people in each personal family vehicle, 4.46 people in somebody else's vehicle, 5.00 people by boat, and 10.21 people in other forms of transportation (i.e., by bus). For all day-use vehicles, there was an average of 4.30 people in the vehicle. For all overnight vehicles, there was an average of 3.39 people in the vehicle.
- Over three quarters (81%) of users considered this park their main destination with significantly more overnight users (92%) than day users (73%) considering it the main reason for their trip.
- If they had been unable to go to Detroit Lake State Recreation Area for this visit, most park visitors would have either gone somewhere else for the same activity (57%), stayed home (17%), or come back another time (13%).
- If they had been unable to go to Detroit Lake State Recreation Area for this visit, many day users would have gone to Devil's Lake State Park, Fisherman's Bend Recreation Site, Foster Lake / Reservoir, Silver Falls State Park, Henry Hagg Lake Park, North Santiam Recreation Areas, North Fork Park, Suttle Lake, Lake Billy Chinook at the Cove Palisades State Park, Green Peter Reservoir, and the coast or any lake that allows boating; whereas overnight users would have gone to Beverly Beach State Park, Lake Billy Chinook at the Cove Palisades State Park, Cape Lookout State Park, Devil's Lake State Park, Diamond Lake, Fisherman's Bend Recreation Site, Fort Stevens State Park, Foster Lake / Reservoir, Green Peter Reservoir, Jessie Honeyman State Park, Prineville Reservoir, Silver Falls State Park, South Beach State Park, Trillium Lake, and coastal state parks.

### **Physical Activity and Other Health Benefits**

Day and overnight visitors were asked their extent of participation in moderate physical activity (e.g., walking, bicycling, canoeing at a moderate pace), and vigorous physical activity (e.g., jogging, walking, or bicycling at a vigorous pace, breaking a sweat, heart beating rapidly) during their trip to Detroit Lake State Recreation Area (Table 13). A majority of all visitors indicated

that they participated in moderate physical activity (56%), while 19% indicated participating in vigorous physical activity. Overnight users were significantly more likely to participate in moderate physical activity (79%) than day users (40%) and spent more minutes on average ( $M = 162$ ) than day users ( $M = 71$ ) participating in moderate physical activity. Overnight users, ( $M = 117$ ), however, spent a similar amount of minutes as day users ( $M = 100$ ) participating in vigorous physical activity during their visit. Day users participating in physical activity while at the park spent more time on average participating in vigorous physical activity ( $M = 100$ ) than moderate physical activity ( $M = 70$ ), whereas overnight users participating in physical activity while at the park spent more time on average participating in moderate physical activity ( $M = 123$ ) than vigorous physical activity ( $M = 117$ ).

Table 13. Comparison of day and overnight user participation in moderate and vigorous physical activity during visit

	User Group <sup>a</sup>			$\chi^2$ or $t$ value	$p$ value	Effect size $\phi$ or $r_{pb}$
	Day Users	Overnight Users	Total <sup>b</sup>			
Moderate Physical Activity				106.29	< .001	.39
No	60	21	44			
Yes	40	79	56			
Avg (min)	70.53	162.05	122.67	8.97	< .001	.30
Vigorous Physical Activity				35.25	< .001	.22
No	89	70	81			
Yes	11	31	19			
Avg (min)	99.76	117.41	111.47	0.66	.511	.06

<sup>a</sup> Cell entries are percentages (%) of users who reported participating in physical activity unless otherwise specified as average minutes participating in moderate or vigorous physical activity.

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

Furthermore, 28% of all visitors indicated that their level of physical activity during their visit to Detroit Lake State Recreation Area was more than their daily life, whereas 41% indicated it was about the same, and 31% indicated it was less (Table 14). More overnight users (35%) than day users (23%) indicated that they participated in more physical activity at the park than their daily life.

Table 14. Comparison of day and overnight user level of physical activity at Detroit Lake to daily life <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
Physical activity MORE than daily life	23	35	28
Physical activity LESS than daily life	36	24	31
Physical activity ABOUT THE SAME as daily life	41	41	41

<sup>a</sup>  $\chi^2 = 14.40, p = .001, V = .15$ .

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

Park visitors were asked to rate the degree that their visit to Detroit Lake State Recreation Area had improved their mental and physical health. Table 15 shows that, overall, park visitors reported their visit helped to reduce stress (83%), improve mental health (80%), and reduce anxiety (74%), whereas only 42% reported their visit improved physical health or level of physical fitness (37%). Day users reported significantly more physical and mental benefits from their visit than overnight users, whereas overnight users were least likely to report health benefits related to improving their level of physical fitness (32%) and physical health (37%).

Table 15. Comparison of day and overnight user health benefits related to park visitation

	User Group <sup>a</sup>			$\chi^2$ value	p value	Effect size Phi ( $\phi$ )
	Day Users	Overnight Users	Total <sup>b</sup>			
Reducing stress	86	80	83	3.71	.054	.07
Improving mental health	83	76	80	4.59	.032	.08
Reducing anxiety	77	70	74	4.71	.030	.08
Improving physical health	46	37	42	6.24	.012	.10
Improving level of physical fitness	41	32	37	5.33	.021	.09

<sup>a</sup> Cell entries are percentages (%) of users who reported benefiting “much” or “a great deal” from visit to park.

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

**Section Summary.** Taken together, results in this section showed that:

- A majority of all visitors indicated that they participated in moderate physical activity (56%), while 19% indicated participating in vigorous physical activity. Overnight users were significantly more likely to participate in moderate physical activity (79%) than day users (40%) and spent more minutes ( $M = 162$ ) than day users ( $M = 71$ ) participating in moderate physical activity. Overnight users, ( $M = 117$ ), however, spent a similar amount of minutes as day users ( $M = 100$ ) participating in vigorous physical activity during their visit.

- Over a quarter (28%) of all visitors indicated that their level of physical activity during their visit to Detroit Lake State Recreation Area was more than their daily life, whereas 41% indicated it was about the same, and 31% indicated it was less.
- Park visitors reported their visit helped to reduce stress (83%), improve mental health (80%), and reduce anxiety (74%), whereas only 42% reported their visit improved physical health or level of physical fitness (37%). Day users reported significantly more physical and mental benefits from their visit than overnight users, whereas overnight users were least likely to report health benefits related to improving their level of physical fitness (32%) and physical health (37%).

### **Visitor Spending**

Park visitors were asked to estimate how much they and the other members of their party spent on their trip within 30 miles of Silver Falls State Park on eight spending categories. The information included in this section of the report summarizes basic visitor spending results from the survey. A more extensive visitor spending analysis will be conducted by Oregon State University and available in a separate report.

For this analysis, “local” visitors are defined as those visitors reporting traveling 30 miles or less from home to get to the park. “Non-local” visitors are those respondents living 31 or more miles from the park. All foreign visitors were classified as “non-local” visitors. Visitor responses were excluded under the following conditions:

- The number of nights spent away from home in the local area was greater than 30,
- The reported size of the group was greater than 10 individuals,
- Spending per day/night was greater or equal to \$500 or spending on recreation and equipment rental was greater or equal to \$500 in total.

Table 16 includes the percentages of all park day users and overnight users that are local and non-local visitors. Most visitors to the park are non-local (living 31 or more miles from the park) visitors (96%). More overnight users (99%) are non-local than day users (93%). Based on previous year visitation estimates, approximately 58.4% of all users at Detroit Lake State Recreation Area are day users and 41.6% are overnight users. Furthermore, only four overnight respondents indicated they were local users and should be considered when reading the following tables.

Table 16. Comparison of day and overnight users, local / non-local <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
Local	7	1	4
Non-Local <sup>c</sup>	93	99	96

<sup>a</sup>  $\chi^2 = 14.55, p < .001, \phi = .14$ .

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

Table 17 shows the proportion of total spending for each visitor profile type and reported on a party trip basis. The majority of local day users reported spending \$1-\$25 (46%) and \$151-\$350 (31%), while the majority of local overnight users reported spending \$51-\$150 (50%) and \$351-\$550 (50%). The majority of non-local day users reported spending \$51-\$150 (32%) and \$151-\$350 (24%), while the majority of non-local overnight users reported spending \$151-\$350 (41%) and \$51-\$150 (26%).

Table 17. Comparison of day and overnight total local spending, dollars per party per trip <sup>a</sup>

	<u>Local</u>		<u>Non-Local</u>		All <sup>b</sup> (%)
	Day (%)	Overnight (%)	Day (%)	Overnight (%)	
Spent no money	0	0	4	< 1	2
\$1 - \$25	46	0	19	1	14
\$26 - \$50	8	0	8	4	7
\$51 - \$150	15	50	32	26	29
\$151 - \$350	31	0	24	41	29
\$351 - \$550	0	50	10	22	14
\$551 - \$1,000	0	0	4	6	4

<sup>a</sup>  $\chi^2 = 98.12, p < .001, V = .42$

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

Table 18 includes the proportion of visitor parties that reported spending any dollars on the eight spending categories (e.g., motel, camping, restaurants and bars, groceries, etc.). For local day use visitors, most reported spending some money on park entry fees (100%), gasoline and oil (77%), and groceries (69%). Most local overnight visitors reported spending some money on groceries (100%), camping (100%), gasoline and oil (75%), and souvenirs (75%). The “All” spending average is estimated as a weighted average for spending by day-user and overnight visitors. Most visitors to Detroit Lake State Recreation Area reported spending some money on park entry fees (72%), groceries (70%), gasoline and oil (62%), and camping (49%).

Table 18. Comparison of percent of day and overnight party spending of any dollars in eight spending categories

Spending Categories	<u>Local</u>		<u>Non-Local</u>		All <sup>a</sup> (%)
	Day (%)	Overnight (%)	Day (%)	Overnight (%)	
Park entry, parking, or recreation use fees	100	25	84	48	72
Groceries	69	100	66	78	70
Gasoline and oil	77	75	61	61	62
Camping	15	100	25	91	49
Restaurants and bars	8	25	29	31	30
Souvenirs, clothing, and other miscellaneous	8	75	15	33	22
Recreation and equipment (guide fees, equipment rental)	0	0	12	14	14
Motel, lodge, cabin, B&B, other lodging	0	0	10	2	8

<sup>a</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

Visitors indicated that they would spend no more than an average of \$108 than they already spent at Detroit Lake State Recreation Area before they would consider not taking the trip (Table 19). Overnight users were willing to additionally spend more (\$143) than day users (\$83) before they would consider not taking the trip. The highest percentage of day users (25%) would be willing to spend an additional \$26-\$50, whereas the highest percentage of overnight users (27%) would be willing to spend an additional \$51-\$150 before deciding not to visit.

Table 19. Comparison of day and overnight additional spending before deciding not to visit <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
No more than already spent	23	22	23
\$1 - \$25	20	6	14
\$26 - \$50	25	14	20
\$51 - \$150	17	27	22
\$151 - \$350	10	20	14
\$351 - \$550	4	8	6
\$551 – and up	1	3	2
Avg (\$) <sup>c</sup>	83.15	142.71	107.55

<sup>a</sup>  $\chi^2 = 67.34, p < .001, V = .36.$

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup>  $t = 4.14, p < .001, r_{pb} = .18.$

Respondents were asked to indicate if they were staying away from home within 30 miles of Detroit Lake State Recreation Area, and the number of nights they were staying if they were.

Table 20 shows that almost half (47%) of all visitors were staying away from home within 30 miles of the park with significantly more overnight users (71%) than day users (32%) staying away from home. Of those users staying away from home within 30 miles of the park, respondents indicated staying an average of three and a half nights (3.50), with day users (3.89) staying more nights on average than overnight users (2.91).

Table 20. Comparison of day and overnight user nights staying away from home within 30 miles of park

	Day Users	Overnight Users	Total (%) <sup>a</sup>
Staying away from home <sup>b</sup>	32	71	47
Mean number of nights <sup>c</sup>	2.91	3.89	3.50

<sup>a</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>b</sup> Cell entries in this row are percentages (%) of visitors staying away from home within 30 miles.  $\chi^2 = 102.02, p < .001, \phi = .39$ .

<sup>c</sup> Cell entries in this row are mean (avg) nights.  $t = 4.14, p < .001, r_{pb} = .17$ .

**Section Summary.** Taken together, results in this section showed that:

- The majority of local day users reported spending \$1-\$25 (46%) and \$151-\$350 (31%), while the majority of local overnight users reported spending \$51-\$150 (50%) and \$351-\$550 (50%).
- The majority of non-local day users reported spending \$51-\$150 (32%) and \$151-\$350 (24%), while the majority of non-local overnight users reported spending \$151-\$350 (41%) and \$51-\$150 (26%).
- Most visitors reported spending some money on park entry, parking, or recreation use fees (72%), groceries (70%), and gasoline and oil (62%).
- Most visitors were non-local (95%), with the majority of these day users reported spending some money on park entry, parking or recreation use fees (84%), and groceries (66%); whereas the majority of these overnight users reported spending some money on camping (91%), and groceries (78%).
- Day users reported that they would spend no more than an average of \$83 than they already spent before deciding not to visit the park, whereas overnight users reported that they would spend an average of no more than \$143 than they already spent before deciding not to visit the park. The largest percentage of day users (25%) reported they would spend no more than \$26 to \$50 before deciding not to visit; whereas the largest

percentage of overnight users (27%) reported they would spend no more than \$51 to \$150 before deciding not to visit the park.

- Almost one half (47%) of all visitors were staying away from home within 30 miles of the park with significantly more overnight users (71%) than day users (32%) staying away from home. Of those users staying away from home within 30 miles of the park, respondents indicated staying an average of three and a half nights (3.50), with overnight users (3.89) staying more nights on average than day users (2.91).

### Obtaining Information about the Parks

The questionnaires contained several questions examining how users obtained information about state parks such as Detroit Lake State Recreation Area and whether they were able to obtain the information they needed. Table 21 shows that almost all users (96%) were able to find the information they needed when planning their visit to this state park, and the few (4%) who did not find the information they needed would like: better descriptions of policies and about campsite / park attributes on website, water levels and forest fire conditions nearby, GPS coordinates, directions for how to navigate OPRD and Reserve America websites. There were no significant differences between day and overnight users in their responses to these questions.

Table 21. Comparison of day and overnight users in whether they found the information needed <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
Yes, found the information needed	96	97	96
No, did not find the information needed <sup>c</sup>	4	3	4

<sup>a</sup>  $\chi^2 = 0.67, p = .412, \phi = .03$ .

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup> The most popular information needed was: better descriptions of policies and about campsite / park attributes on website, water levels and forest fire conditions nearby, GPS coordinates, and directions for how to navigate OPRD and Reserve America websites.

Table 22. Comparison of day and overnight user use of information sources

	User Group <sup>a</sup>			$\chi^2$ value	p value	Effect size Phi ( $\phi$ )
	Day Users	Overnight Users	Total <sup>b</sup>			
Previous visit	76	79	78	0.97	.324	.04
Official internet websites (OPRD)	67	92	77	69.71	< .001	.32
Friends or family members	72	73	72	0.08	.781	.01
Highway signs	56	34	47	31.54	< .001	.22
Social media websites	40	30	36	6.59	.010	.10
Brochures	30	43	35	10.72	.001	.13
Other <sup>c</sup>	28	29	28	0.01	.943	.01
Work	23	19	21	1.45	.228	.05
Newspapers	19	13	17	3.06	.080	.07
Magazines	17	14	16	0.93	.335	.04
Books	16	13	15	1.51	.220	.05
Community organizations or church	18	12	15	4.13	.042	.08
Television	17	10	14	6.99	.008	.10
Radio	18	9	14	10.84	.001	.13
Videos / DVDs	13	6	10	9.87	.002	.12
Health care providers	10	5	8	7.26	.007	.11

<sup>a</sup> Cell entries are percentages (%) of users who used the information source “sometimes” to “often.”

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup> The most popular “other” ways were: saw park on map, drive by, Google searches, forums, or blog sites (i.e., Travelocity); Reserve America, grew up in area; word of mouth.

Respondents were also presented with a list of 16 possible sources for finding information and asked how often they obtained information from these sources when thinking about visiting an Oregon State Park such as Detroit Lake State Recreation Area. Table 22 shows that the most heavily used sources of information were previous visits (78% used sometimes or often), official internet websites (e.g., Oregon State Parks, Travel Oregon; 77%), and friends or family members (72%). The least used sources were health care providers (8%), videos or DVDs (10%), radio (14%), television (14%), community organizations or church (15%), and books (15%). Day users and overnight users differed significantly on all but seven information sources, with day users utilizing almost all of these sources much more often. Overnight users, however, were significantly more likely than day users to obtain information from official internet websites (92%) and brochures (43%).

Respondents were then asked to specify from this list of information sources what one source they would first use when obtaining information about an Oregon State Park such as Detroit Lake State Recreation Area. Table 23 shows that official internet websites (e.g., Oregon State Parks, Travel Oregon; 69%) was overwhelmingly the first primary source used by most respondents, followed by friends or family members (19%), and previous visits (6%). Few

people used other sources when obtaining information. There was a significant difference between day and overnight users, with overnight users almost entirely dependent on official internet websites as their primary source (83%). Day users were also heavily dependent on these websites (59%), but also used other sources such as friends and family (25%) and previous visits (6%).

Table 23. Comparison of day and overnight users for primary information source <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
Official internet websites (OPRD)	59	83	69
Friends or family members	25	10	19
Previous visit	7	4	6
Social media websites	4	1	2
Highway signs	3	< 1	2
Brochures	1	1	1
Other	< 1	1	1
Newspapers	< 1	< 1	< 1
Radio	< 1	0	< 1
Work	1	0	< 1

<sup>a</sup>  $\chi^2 = 56.08, p < .001, V = .29.$

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

**Section Summary.** Taken together, results in this section showed that:

- Almost all users (96%) were able to find the information they needed when planning their visit to this park, and the few (4%) who did not find it would like better descriptions of policies and about campsite / park attributes on website, water levels and forest fire conditions nearby, GPS coordinates, directions for how to navigate OPRD and Reserve America websites.
- The most heavily used sources of information were previous visits (78% used sometimes or often), official internet websites (e.g., Oregon State Parks, Travel Oregon; 77%), and friends or family members (72%). The least used sources were health care providers (8%), videos or DVDs (10%), radio (14%), television (14%), community organizations or church (15%), and books (15%). Day users utilized most sources much more often, but overnight users were significantly more likely than day users to obtain information from official internet websites (92%) and brochures (43%).
- Official internet websites (e.g., Oregon State Parks, Travel Oregon; 69%) were overwhelmingly the first primary source used by most respondents, followed by friends

or family members (19%), and previous visits (6%). Overnight users were almost entirely dependent on official websites as their primary source (83%). Day users were also heavily dependent on these websites (59%), but also used other sources such as friends and family (25%) and previous visits (6%).

**Satisfaction with Experiences and Conditions**

**Overall Satisfaction.** Respondents were asked “overall, how dissatisfied or satisfied were you with your *overall experience* at Detroit Lake State Recreation Area?” Table 24 shows that overall satisfaction was extremely high, as 95% were satisfied and almost no respondents (5%) were dissatisfied. In addition, the highest proportion of users was “very satisfied” (53%).

Table 24. Comparison of day and overnight user overall satisfaction <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
Very Satisfied	56	49	53
Satisfied	40	43	42
Dissatisfied or Neutral	4	8	5

<sup>a</sup>  $\chi^2 = 6.82, p = .033, V = .09.$

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

**Satisfaction and Expectations with Specific Characteristics.** Although almost all users were satisfied with their overall visit at Detroit Lake State Recreation Area, this does not indicate that they were satisfied with every aspect of this park. This project, therefore, first measured respondent *expectations* by asking them the extent they believed that several attributes of Detroit Lake State Recreation Area were *important* to their visit (e.g., absence of litter, personal safety, signs, parking). Then, respondents reported their *satisfaction* of these same attributes at this park to measure *performance* of these attributes.

Table 25 shows that the most important characteristics were the park’s cleanliness (e.g., lawn care, lack of graffiti; 98%), cleanliness of toilets (96%), absence of litter (96%), a good value for the fee(s) paid (92%), personal safety (91%), and courteousness of rangers / personnel (90%). The least important attributes were the amount and quality of educational information (42%, to 44%), ease of movement or access (e.g., wheelchair, elderly, baby stroller; 53%), facilities for groups to gather (54%), and park trails (56%). There were differences among day users and overnight users for 8 of the 20 possible comparisons. Signs with directions in and to the park, facilities for groups to gather, and ease of movement or access were considered to be more

important to day users than overnight users. Overnight users felt that courteousness and presence of rangers / personnel, and the quality and amount of educational information were more important at this state park. Responses for two additional items that were asked in the questionnaires administered only to overnight users showed that 94% of overnight users considered the comfort of campsites to be important and 93% believed that shading provided by trees and other structures was important.

Table 25. Comparison of day and overnight user specific *expectations* at the park

	User Group <sup>a</sup>			$\chi^2$ value	p value	Effect size Phi ( $\phi$ )
	Day Users	Overnight Users	Total <sup>b</sup>			
Cleanliness of park (graffiti, lawns)	97	98	98	1.14	.285	.04
Cleanliness of toilets / bathrooms	95	96	96	0.54	.461	.03
Absence of litter	95	97	96	1.77	.183	.05
Good value for the fee(s) paid	92	93	92	0.16	.686	.02
Personal safety	91	92	91	0.09	.768	.01
Courteousness of rangers / personnel	88	94	90	6.01	.014	.09
Number of toilets / bathrooms	88	87	87	0.00	.953	.00
Parking for vehicles	89	85	87	2.38	.123	.05
Opportunities to escape crowds	77	76	77	0.18	.670	.02
Signs with directions <i>in</i> the park	80	74	77	3.90	.048	.07
Presence of park rangers / personnel	69	81	74	13.33	< .001	.13
Signs with directions <i>to</i> the park	81	64	74	24.14	< .001	.17
Information about conditions / hazards	70	75	72	1.60	.206	.05
Variety of things to do	70	70	70	0.00	.959	.00
Condition / maintenance of trails	63	68	65	1.64	.200	.05
Number of park trails	54	58	56	0.82	.366	.03
Facilities for groups to gather	67	36	54	68.73	< .001	.30
Ease of movement / access (wheelchair, elderly, stroller)	64	39	53	41.88	< .001	.23
Quality of educational information	39	50	44	7.55	.006	.10
Amount of educational information	38	47	42	5.88	.015	.09
Comfort of campsites <sup>c</sup>	--	94	--	--	--	--
Shade provided by trees / structures <sup>c</sup>	--	93	--	--	--	--

<sup>a</sup> Cell entries are percentages (%) of users who rated the characteristic as “somewhat” or “extremely important.”

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup> Only asked in questionnaires of overnight users, not day users.

Table 26 shows that the majority of users were satisfied with most of these characteristics at Detroit Lake State Recreation Area. Users were most satisfied with park cleanliness (94%), absence of litter (91%), number of toilets / bathrooms (89%), courteousness and presence of rangers / personnel (89% to 87%), personal safety (89%), and being a good value for the fee(s) paid (87%). Users were least satisfied with the amount and quality of educational information

provided (both 54%), number of park trails (63%), facilities for groups to gather (64%), information about conditions / hazards (65%), and ease of movement / access (wheelchair, elderly, stroller; 65%). Day users were significantly more satisfied with the parking for vehicles, and the group facilities, whereas overnight users were more satisfied with the cleanliness of park, absence of litter, having a variety of things to do, signs with directions in the park, condition / maintenance of trails, information about conditions / hazards, and the amount and quality of educational information. Overnight users were also satisfied with the shading provided by trees and the comfort of campsites (both 88%).

Table 26. Comparison of day and overnight user specific *satisfactions* at the park

	User Group <sup>a</sup>			$\chi^2$ value	p value	Effect size Phi ( $\phi$ )
	Day Users	Overnight Users	Total <sup>b</sup>			
Cleanliness of park (graffiti, lawns)	92	96	94	6.39	.012	.10
Absence of litter	89	94	91	7.32	.007	.10
Number of toilets / bathrooms	90	87	89	1.82	.178	.05
Courteousness of rangers / personnel	88	89	89	0.13	.723	.01
Personal safety	88	91	89	1.11	.293	.04
Presence of park rangers / personnel	87	88	87	0.32	.569	.02
Good value for the fee(s) paid	87	87	87	0.01	.972	.00
Cleanliness of toilets / bathrooms	84	84	84	0.01	.922	.00
Signs with directions <i>to</i> the park	78	76	77	0.65	.420	.03
Variety of things to do	71	78	74	4.33	.037	.08
Parking for vehicles	79	68	74	9.65	.002	.11
Signs with directions <i>in</i> the park	68	79	73	11.29	.001	.13
Condition / maintenance of trails	64	72	67	5.24	.022	.09
Opportunities to escape crowds	69	65	67	1.14	.285	.04
Ease of movement / access (wheelchair, elderly, stroller)	66	65	65	0.15	.703	.01
Information about conditions / hazards	61	70	65	6.31	.012	.09
Facilities for groups to gather	70	56	64	13.55	< .001	.14
Number of park trails	60	67	63	3.20	.074	.07
Amount of educational information	46	66	54	26.52	< .001	.19
Quality of educational information	45	66	54	29.24	< .001	.20
Comfort of campsites <sup>c</sup>	--	88	--	--	--	--
Shade provided by trees / structures <sup>c</sup>	--	88	--	--	--	--

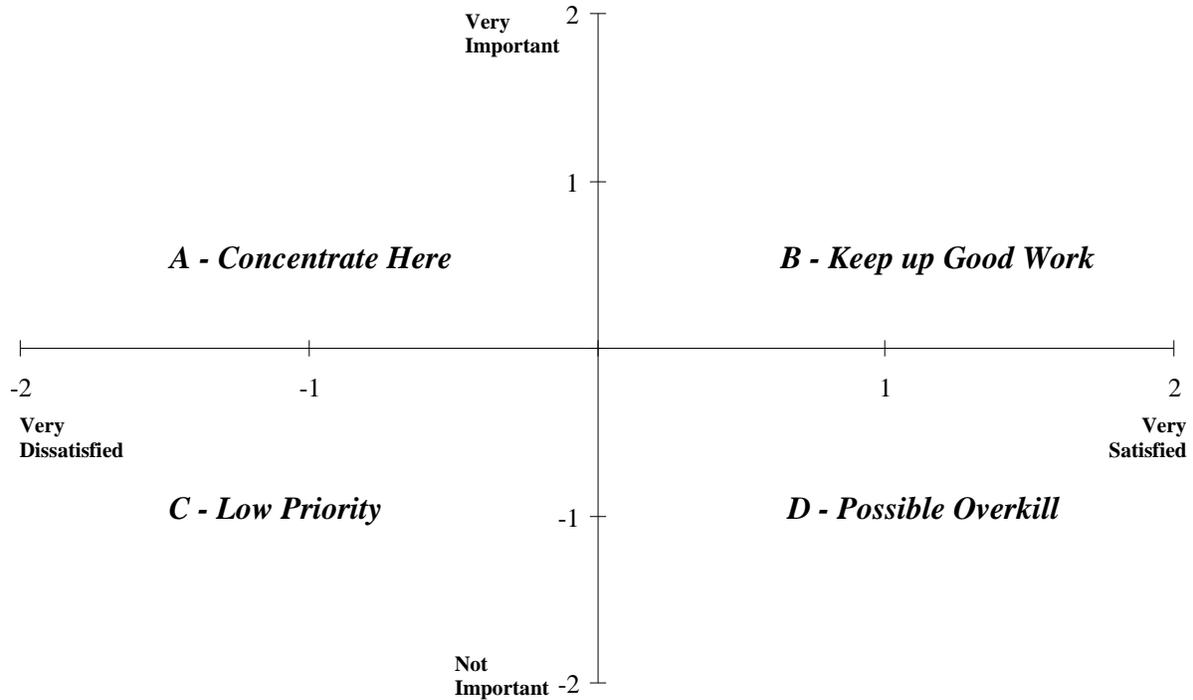
<sup>a</sup> Cell entries are percentages (%) of users who rated the characteristic as “satisfied” or “very satisfied.”

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup> Only asked in questionnaires of overnight users, not day users.

**Importance – Performance Analysis.**

Figure 1. Importance-performance (I-P) analysis matrix



One approach for visualizing relationships between expectations (i.e., importance of attributes) and satisfaction (i.e., performance of these attributes) is Importance – Performance (I-P) analysis (Figure 1). Importance or expectations are represented as averages (i.e., means) on the vertical axis (i.e., y-axis) and average performance or experiences (i.e., satisfaction) are measured on the horizontal axis (i.e., x-axis). When combined, these axes intersect and produce a matrix of four quadrants that can be interpreted as “concentrate here” (high importance or expectation, low satisfaction or poor experiences; Quadrant A), “keep up the good work” (high importance or expectation and high satisfaction or good experiences; Quadrant B), “low priority” (low importance or expectation and low satisfaction or poor experiences; Quadrant C), and “possible overkill” (low importance or expectation, high satisfaction or good experiences; Quadrant D). This matrix provides managers with an easily understandable picture of the status of services, facilities, and conditions as perceived by users, and reveals conditions that may or may not need attention (Bruyere, Rodriguez, & Vaske, 2002; Vaske, Beaman, Stanley, & Grenier, 1996).

Figure 2. Importance-performance (I-P) analysis matrix for *day users*

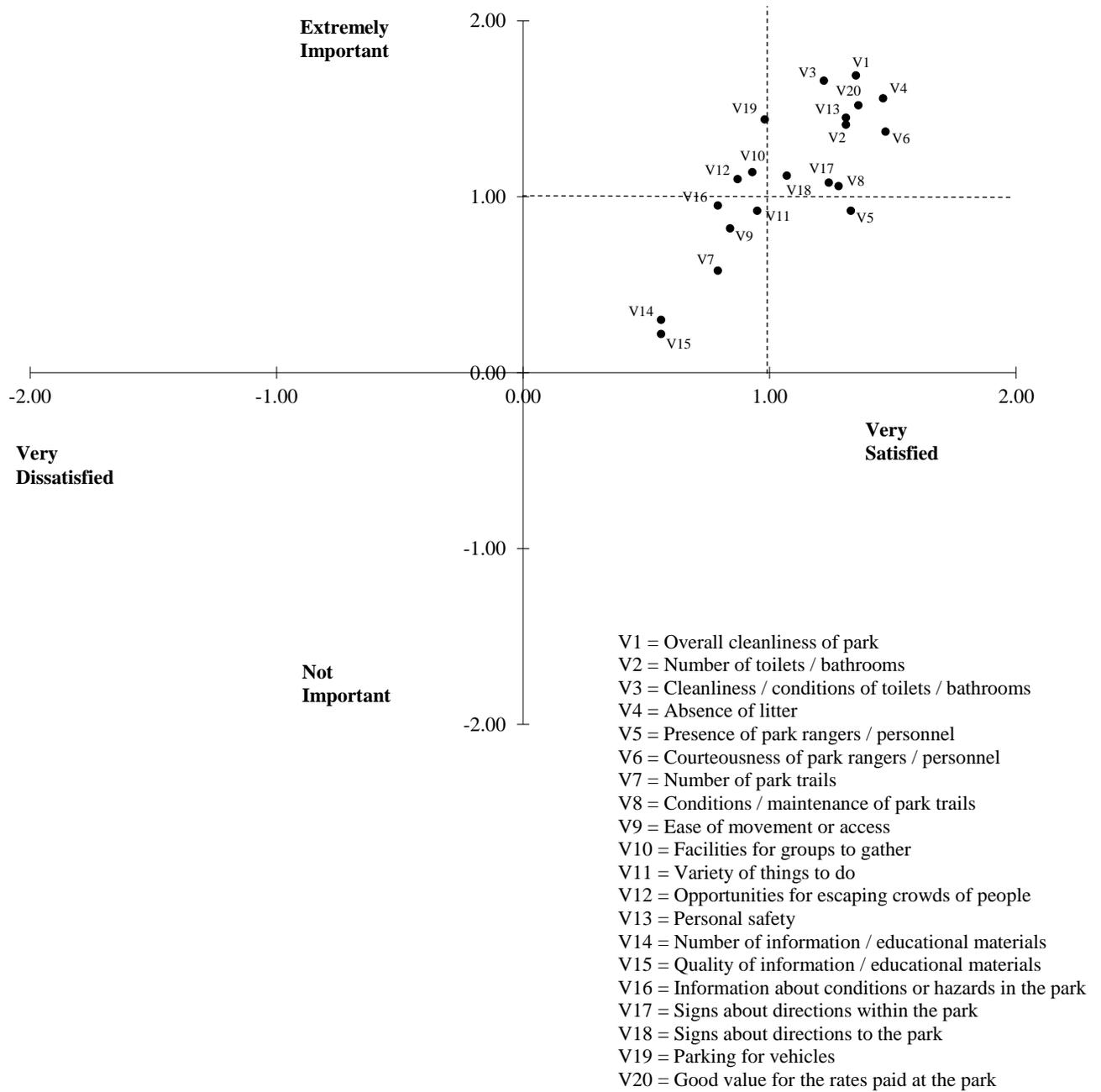


Figure 3. Importance-performance (I-P) analysis matrix for *overnight users*

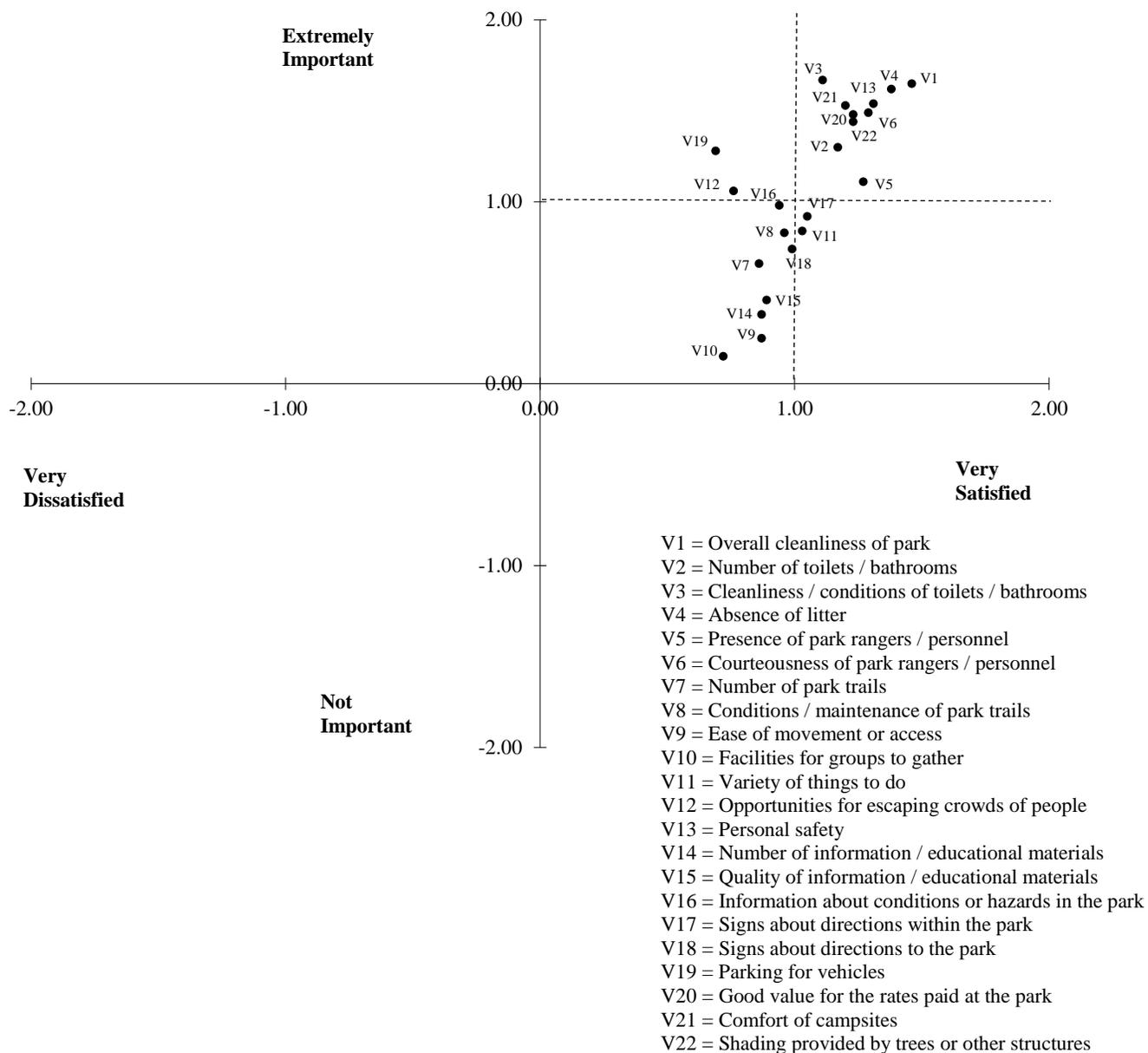


Figure 2 is the I-P matrix for day users and Figure 3 is the matrix for overnight users. Both matrices show that all attributes were in the “keep up the good work” quadrant, indicating that users thought that park staff were doing a good job managing conditions and experiences at Detroit Lake State Recreation Area. For this state park visitor survey project, we are also taking a closer examination of I-P scores in the “keep up the good work” quadrant within the dashed lines included in Figures 2 and 3. These results reveal that managers should consider monitoring

attributes such as the opportunity to escape crowds of people (V12), signs with directions in the park (V17), and parking for vehicles (V19) in the day use areas (Figure 2), and opportunity to escape crowds of people (V12), and parking for vehicles (V19) in the overnight use areas (Figure 3).

Respondents were asked several additional questions about their satisfaction with Detroit Lake State Recreation Area, including this park’s natural environment, facilities and services, and fees. Users were also asked how likely they would return to this state park. Table 27 shows high user satisfaction with the environment (94%), facilities and services (87%), and fees at this park (88%). Day and overnight users were similar in their satisfaction with the park’s natural environment, facilities and services, and with the fee paid. In total, 93% of respondents said they were likely to return to this park in the future.

Table 27. Comparison of day and overnight user likelihood of returning and satisfaction with the park fees, facilities, and environment

	User Group			$\chi^2$ value	p value	Effect size Phi ( $\phi$ )
	Day Users	Overnight Users	Total <sup>a</sup>			
Satisfaction with natural environment <sup>b</sup>	95	93	94	1.58	.209	.04
Satisfaction with facilities and services <sup>b</sup>	86	89	87	0.84	.359	.03
Satisfaction with fee paid <sup>b</sup>	90	86	88	2.40	.121	.05
Likelihood of returning <sup>c</sup>	95	91	93	2.89	.089	.06

<sup>a</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>b</sup> Cell entries are percentages (%) of users who rated the characteristic as “satisfied” or “very satisfied.”

<sup>c</sup> Cell entries are percentages (%) of users who said they were “likely” or “very likely” to return to the park in the future.

Table 28 shows that almost all visitors (97%) to Detroit Lake State Recreation Area would recommend the park to their friends or family, with more day users (99%) willing to recommend the park than overnight users (94%). Reasons respondents indicated they would not recommend the park were because it is too crowded with people, extremely noisy from nearby highway and/or other campers, not enough parking, must book too far in advance to get a campsite, campsites are too small, and many inconsiderate campers.

Table 28. Comparison of day and overnight user recommendation of park to friends and family <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
Yes, recommend park	99	94	97
No, would not recommend park	1	6	3

<sup>a</sup>  $\chi^2 = 9.88, p = .002, \phi = .11.$

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

**Outstanding Features.** Users also provided 590 verbatim open ended comments on what they found to be the most outstanding features or things to do at Detroit Lake State Recreation Area. The most common outstanding features or things to do involved: (a) access to the lake and facilities; (b) multiple activities associated with the lake (e.g., boating, swimming, fishing, sailing, jet skiing); (c) the beauty of the lake and natural scenery; (d) easily accessible; (e) friendly staff; (f) boat docks and lake side campsites; and (g) the family environment.

**Perceived Crowding.** *Perceived crowding* is a subjective and negative evaluation that this reported number of encounters or people observed in an area is too many. Research suggests that when users perceived an area to be crowded, they likely encountered more than their maximum acceptance (i.e., their norm) of impacts (e.g., use levels) for the particular setting (Manning, 2010; Needham & Rollins, 2009).

Table 29 shows that, on average, both day users and overnight users felt slightly crowded. More specifically, 68% of all park users felt some degree of crowding on their visit, with 63% of day users feeling crowded and 75% of overnight users feeling crowded. According to Shelby, Vaske, and Heberlein (1989), and Vaske and Shelby (2008), these results suggest that crowding in the overnight-use areas are at “more than capacity”, and may soon or already exceed social carrying capacity, indicating more studies may be needed to allow management to preserve experiences. However, crowding in the day-use area is in the “high normal” range, where carrying capacity may not be exceeded, but may be trending in that direction.

Table 29. Comparison of day and overnight crowding evaluations

	User Group <sup>a</sup>			<i>t</i> value	<i>p</i> value	Effect size <i>r</i> <sub>pb</sub>
	Day Users	Overnight Users	Total <sup>b</sup>			
Perception of crowding <sup>c</sup>	3.85	4.59	4.16	4.11	< .001	.15

<sup>a</sup> Cell entries are means on 9 point crowding scale of 1-2 “not at all crowded” to 3-4 “slightly crowded” to 5-7 “moderately crowded” to 8-9 “extremely crowded.” Median = 4, Mode = 6, Percent crowded =68% (63% Day Users, 75% Overnight).

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

**Section Summary.** Taken together, results in this section showed that:

- Users considered the most important characteristics at this park were the park's cleanliness (e.g., lawn care, lack of graffiti; 98%), cleanliness of toilets (96%), absence of litter (96%), a good value for the fee(s) paid (92%), personal safety (91%), and courteousness of rangers / personnel (90%). The least important attributes were the amount and quality of educational information (42%, to 44%), ease of movement or access (e.g., wheelchair, elderly, baby stroller; 53%), facilities for groups to gather (54%), and park trails (56%). Day users considered signs with directions in and to the park, facilities for groups to gather, and ease of movement or access to be more important. Overnight users considered the courteousness and presence of rangers / personnel, and the quality and amount of educational information to be more important. Almost all (94%) overnight users considered comfort of campsites to be important and 93% believed that shading provided by trees and other structures was important.
- Overall satisfaction among users was extremely high, as 95% were satisfied with the highest proportion of users being "very satisfied" (53%). Users were most satisfied with the park cleanliness (94%), absence of litter (91%), number of toilets / bathrooms (89%), courteousness and presence of rangers / personnel (89% to 87%), personal safety (89%), and being a good value for the fee(s) paid (87%). Users were least satisfied with the amount and quality of educational information provided (both 54%), number of park trails (63%), facilities for groups to gather (64%), information about conditions / hazards (65%), and ease of movement / access (wheelchair, elderly, stroller; 65%). Day users were more satisfied with the parking for vehicles, and the group facilities, whereas overnight users were more satisfied with the cleanliness of park, absence of litter, having a variety of things to do, signs with directions in the park, condition / maintenance of trails, information about conditions / hazards, and the amount and quality of educational information. Overnight users were also satisfied with the shading provided by trees, and the comfort of campsites (both 88%).
- An Importance – Performance analysis showed that all park attributes were in the "keep up the good work" category, indicating that users thought that staff were doing a good job managing conditions and experiences. There were, however, three attributes that were important to day users, and two attributes that were important to overnight users, but these attributes fell into the "concentrate here" category, indicating that users were only

slightly satisfied with these important attributes. Therefore, managers should consider monitoring attributes such as the opportunity to escape crowds or people, signs with directions in the park, and parking for vehicles in the day use areas, and the opportunity to escape crowds of people, and parking for vehicles in the overnight use areas

- Most respondents were also satisfied with the natural environment (94%), facilities and services (87%), and with the fee(s) paid (88%).
- Most respondents (93%) said they were likely to return to this park in the future.
- Almost all visitors (97%) to Detroit Lake State Recreation Area would recommend the park to their friends or family, with more day users (99%) willing to recommend the park than overnight users (94%). Reasons respondents indicated they would not recommend the park were because it is too crowded with people, extremely noisy from nearby highway and/or other campers, not enough parking, must book too far in advance to get a campsite, campsites are too small, and there are too many inconsiderate campers.
- The most commonly reported outstanding features and things to do at Detroit Lake State Recreation Area involved: (a) access to the lake and facilities; (b) multiple activities associated with the lake (e.g., boating, swimming, fishing, sailing, jet skiing); (c) the beauty of the lake and natural scenery; (d) easily accessible; (e) friendly staff; (f) boat docks and lake side campsites; and (g) the family environment.
- Both day users (63%) and overnight users (75%) felt slightly crowded with 68% of all park users feeling some degree of crowding on their visit. These results suggest that crowding in the overnight-use areas are at “more than capacity”, and may soon or already exceed social carrying capacity, indicating more studies may be needed to allow management to preserve experiences. However, crowding in the day-use area is in the “high normal” range, where carrying capacity may not be exceeded, but may be trending in that direction.

### **Attitudes About Programs and Management Strategies**

***Let's Go Program Interest.*** The questionnaires asked respondents to indicate if they, or their family members, would consider participating in a weekend program (i.e., Let's Go program) for beginners to learn basic outdoor skills and to identify all of the skills they would be interested in learning about. Table 30 indicates that 52% of day users and 41% of overnight users would

consider participating in such a program at a nearby park. From those who indicated overall interest in Let’s Go programs, the most popular programs were fishing, (51%), kayaking (51%), rafting (48%), canoeing (47%), and hiking (47%). The least supported Let’s Go programs were scenic bicycling on roads (19%), geocaching (19%), disc golfing (19%), and birding (19%). Overnight and day users were similarly interested in each of the programs with overnight users significantly more interested in stargazing (53%), birding (28%), and geocaching (27%) than day users, and day users significantly more interested in rafting (52%) than overnight users.

Table 30. Comparison of day and overnight user consideration of participating in “Let’s Go” programs

	User Group <sup>a</sup>			$\chi^2$ value	p value	Effect size Phi ( $\phi$ )
	Day Users	Overnight Users	Total <sup>b</sup>			
Overall Interest						
Yes	52	41	47	7.80	.005	.11
Specific Program Interest						
Fishing	52	51	51	0.02	.887	.01
Kayaking	53	49	51	0.43	.513	.04
Rafting	52	40	48	4.32	.038	.12
Canoeing	50	42	47	1.90	.168	.08
Hiking	45	51	47	1.16	.282	.06
Camping	43	49	45	0.80	.371	.05
Horseback riding	47	36	43	3.43	.064	.11
Stargazing	37	53	43	7.71	.005	.16
Mountain biking	27	23	26	0.75	.387	.05
Rock climbing	26	25	26	0.01	.904	.01
Birding	15	28	19	7.22	.007	.15
Disc golfing	19	18	19	0.05	.822	.01
Geocaching	16	27	19	5.25	.022	.13
Scenic bicycling on roads	19	19	19	0.00	.961	.00
Other <sup>c</sup>	5	1	3	4.21	.040	.12

<sup>a</sup> Cell entries are percentages (%) of users who reported interest in “Let’s Go” programs. Percentages do not sum to 100% because respondents could check more than one program from the list.

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup> The most popular “other” programs were: plant and animal identification, wilderness survival, boating, and running.

Respondents were also asked if they, or members of their group, participated in any concession service / activity such as a guided tour (e.g., fishing, rafting, bicycling, scenic, historic) or equipment rental (e.g., kayak, bicycle). Table 31 shows that only 10% of day and overnight users utilized a concession service or activity while at Detroit Lake State Recreation Area. Overnight users (14%) were significantly more likely to utilize a concession service / activity than day users (7%). The most popular concession service / activities were boat rentals (e.g., Jet Ski, pontoon, paddle boat, kayak, raft, canoe), camp store (firewood, ice, coffee), and fishing.

Table 31. Comparison of overall day and overnight user participation in concession services/activities <sup>a</sup>

	Day Users (%)	Overnight Users (%)	Total (%) <sup>b</sup>
Utilized a concession service/activity <sup>c</sup>	7	14	10
Did not utilize a concession service/activity	93	86	90

<sup>a</sup>  $\chi^2 = 6.77, p = .009, \phi = .10$ .

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup> The most popular concession services/activities indicated were: boat rentals (e.g., jet ski, pontoon, paddle boat, kayak, raft, canoe), camp store (firewood, ice, coffee), and fishing.

**Attitudes About Management Strategies.** Several items in the questionnaires examined user attitudes about possible management strategies at Detroit Lake State Recreation Area. Users were asked, for example, the extent they opposed or supported several potential new strategies for this park. Table 32 shows that the most strongly supported strategies were to provide more opportunities at the park for escaping crowds (74%), requiring all dogs be kept on a leash at all times (69%), improve maintenance of facilities / services (67%), provide more recycling containers (66%), opportunities for viewing wildlife (65%), trash cans (65%), and natural buffers to block view of development (64%). The least supported strategies were to close park to all recreation / tourism activities (10%), limit the number of people allowed per day (31%), limit the number of large groups allowed (35%), provide more programs led by park rangers (37%), and provide more paved trails (42%). Day users were significantly more supportive of providing more opportunities for escaping crowds, information / education, enclosed shelters, paved trails, improved maintenance of facilities and services, providing more recycling containers, trash cans, group picnic areas, making park more pet friendly, closing park to all recreation / tourism activities, and not changing anything (Table 32). Overnight users were more supportive of more natural buffers to block view of development, wireless internet access in the park, and limiting the number of large groups allowed. Overnight users were also asked to rate their support of six additional strategies specifically related to lodging and camping in the park. The majority of these users supported providing more campsites with both RV and tent camping (68%), more space between campsites (58%), and increasing the enforcement of quiet hours (53%). They were least supportive of more walk-in / cart-in campsites (21%), group camping areas (33%), and tent camping in the campgrounds (37%).

Table 32. Comparison of day and overnight user attitudes about management at the park

	User Group <sup>a</sup>			$\chi^2$ value	<i>p</i> value	Effect size Phi ( $\phi$ )
	Day Users	Overnight Users	Total <sup>b</sup>			
More opportunities for escaping crowds	80	67	74	13.01	< .001	.13
Require all dogs be kept on leash at all times	69	69	69	0.01	.924	.00
Improve maintenance of facilities / services	73	58	67	16.32	< .001	.15
More recycling containers	76	50	66	46.95	< .001	.25
More opportunities for viewing wildlife	66	63	65	0.66	.417	.03
More trash cans	74	51	65	36.66	< .001	.22
Natural buffers to block view of development	60	69	64	5.02	.025	.09
More opportunities for hiking	57	56	57	0.15	.697	.02
More group picnic areas	72	32	55	106.46	< .001	.38
Food for sale	51	48	50	0.73	.394	.03
Make park more pet friendly	57	40	50	18.42	< .001	.16
More information / education	53	45	49	4.48	.034	.08
Wireless internet access in park	44	57	49	11.13	.001	.12
Restore to historical conditions	48	41	45	2.94	.087	.06
Downloadable mobile phone applications	43	43	43	0.01	.915	.00
More enclosed shelters	51	32	43	23.43	< .001	.18
Do not change anything / keep as is	51	31	43	28.07	< .001	.20
More paved trails	46	36	42	6.34	.012	.09
More programs led by park rangers	36	39	37	0.98	.324	.04
Limit the number of large groups allowed	31	40	35	5.45	.020	.09
Limit the number of people allowed per day	29	35	31	3.37	.066	.07
Close park to all recreation/tourism activities	13	6	10	8.35	.004	.11
Campsites with both RV and tent camping <sup>c</sup>	--	68	--	--	--	--
More space between campsites <sup>c</sup>	--	58	--	--	--	--
Increase enforcement of quiet hours <sup>c</sup>	--	53	--	--	--	--
More tent camping in campgrounds <sup>c</sup>	--	37	--	--	--	--
Provide more group camping areas <sup>c</sup>	--	33	--	--	--	--
More walk in / cart in campsites <sup>c</sup>	--	21	--	--	--	--

<sup>a</sup> Cell entries are percentages (%) of users whose response was “support” or “strongly support.”

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup> Only asked in questionnaires of overnight users, not day users.

Park users were also asked the extent that they would oppose or support possible service reductions at Detroit Lake State Recreation Area. Table 33 shows overall low support for service reductions with the highest support for reducing ranger-led programs (28%) and fewer ranger patrols (13%). The least supported service reductions were for reducing janitorial services (4%) scaled down facilities (e.g., restrooms, shelters; 6%), and fewer hours open (9%). There were no significant differences between day and overnight users in their support for possible service reductions at the park.

Table 33. Comparison of day and overnight user support of possible service reductions at the park

	User Group <sup>a</sup>			$\chi^2$ value	p value	Effect size Phi ( $\phi$ )
	Day Users	Overnight Users	Total <sup>b</sup>			
Fewer ranger-led programs	30	25	28	2.17	.140	.06
Few ranger patrols	13	14	13	0.13	.717	.01
Reduced ground maintenance (e.g., mowing)	10	10	10	0.00	.982	.00
Fewer hours open	9	8	9	0.57	.449	.03
Scaled down facilities (e.g., restrooms, shelters)	7	5	6	1.96	.162	.05
Reduced janitorial services	5	2	4	2.98	.084	.07

<sup>a</sup> Cell entries are percentages (%) of users whose response was “support” or “strongly support.”

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

**Overnight Campsite Use.** The questionnaires completed *only by overnight users* asked what type of campsite(s) they used on their most recent trip to Detroit Lake State Recreation Area. Table 34 shows that the most popular type of campsites were RV campsites (58%) and tent campsites (48%). Few overnight users (i.e., 1% or less) stayed in the group tent or RV sites, cabins, yurts, and the hiker / biker sites.

Table 34. Overnight campsite use at Detroit Lake

RV Campsite	58
Tent Campsite	48
Group RV camp	< 1
Group tent camp	< 1
Other	1
Cabin	0
Yurt	0
Hiker / Biker campsite	0

<sup>1</sup> Cell entries are percentages (%) of overnight users who reported using the campsite type at the park on their most recent visit.

Percentages do not sum to 100% because respondents could check more than one campsite type from the list.

**Overnight User Requirements.** A number of additional questions related to management of facilities and services were asked in questionnaires completed *only by overnight users*. One question, for example, asked overnight users what power supply they would require if they were to stay at an RV or tent campsite. Table 35 shows that the majority of these users (54%) would need 30 amps, 24% would need 50 amps, and 16% would need no electrical power. Few users (5%) would need 100 amps.

Table 35. Overnight user power supply needs

30 amps	54
50 amps	24
No electric power needed	16
100 amps	5

<sup>1</sup> Cell entries are percentages (%) of overnight users who require this type of power supply.

Overnight users were also asked about the importance of electric, water, and sewer hookups. Table 36 shows that electric (90%) and water (84%) hookups to be more important than sewer (62%) hookups.

Table 36. Overnight user importance of RV hookups

Electric hookups	90
Water hookups	84
Sewer hookups	62

<sup>1</sup> Cell entries are percentages (%) of overnight users who indicated that hookup was “somewhat” to “extremely” important.

Overnight users were also asked several questions about the Oregon State Parks reservation systems. First, these users were asked what reservation systems they used for their most recent overnight trip to Detroit Lake State Recreation Area. Table 37 shows that 87% of overnight users reserved their visit using the internet reservation system, 13% used the telephone reservation system, and < 1% had someone else make the reservation. Second, users were asked to report their satisfaction with the reservation system, which was high with 84% satisfied and only 16% not satisfied (Table 37). In addition, the highest proportion of users was “very satisfied” (47%).

Table 37. Overnight user reactions to the reservation systems

Type of reservation system used	
Internet reservation system	87
Telephone reservation system	13
Did not make the reservation	< 1
Satisfaction with reservation system	
Very Satisfied	47
Satisfied	37
Dissatisfied or Neutral	16

<sup>1</sup> Cell entries are percentages (%) unless specified as means / averages

**Section Summary.** Taken together, results in this section showed that:

- About half of all users (47%), including 52% of day users and 41% of overnight users, indicated they would consider participating in a Let's Go program. Programs with the most interest were fishing, (51%), kayaking (51%), rafting (48%), canoeing (47%), and hiking (47%), while programs with the least interest were scenic bicycling on roads (19%), geocaching (19%), disc golfing (19%), and birding (19%). Overnight and day users were similarly interested in each of the programs with overnight users significantly more interested in stargazing (53%), birding (28%), and geocaching (27%) than day users, and more day users significantly more interested in rafting (52%) than overnight users.
- Only 10% of day and overnight users utilized a concession service or activity (e.g., fishing, rafting, bicycling, scenic or historic tour) while at Detroit Lake State Recreation Area. The most popular concession service/activities were boat rentals (e.g., Jet Ski, pontoon, paddle boat, kayak, raft, canoe), camp store (firewood, ice, coffee), and fishing.
- Users most strongly supported management strategies were to provide more opportunities at the park for escaping crowds (74%), requiring all dogs be kept on a leash at all times (69%), improve maintenance of facilities / services (67%), provide more recycling containers (66%), opportunities for viewing wildlife (65%), trash cans (65%), and natural buffers to block view of development (64%). The least supported strategies were to close park to all recreation / tourism activities (10%), limit the number of people allowed per day (31%), limit the number of large groups allowed (35%), provide more programs led by park rangers (37%), and provide more paved trails (42%). Day users were more supportive of providing more opportunities for escaping crowds, information / education, enclosed shelters, paved trails, improved maintenance of facilities and services, providing more recycling containers, trash cans, group picnic areas, making park more pet friendly, closing park to all recreation / tourism activities, and not changing anything. Overnight users were more supportive of more natural buffers to block view of development, wireless internet access in the park, and limiting the number of large groups allowed.
- A majority of overnight users supported providing more campsites with both RV and tent camping (68%), more space between campsites (58%), and increasing the enforcement of quiet hours (53%). They were least supportive of more walk-in / cart-in campsites (21%), group camping areas (33%), and tent camping in the campgrounds (37%).

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- There was overall low support for service reductions in the park. The highest support was for reducing ranger-led programs (28%) and fewer ranger patrols (13%) with the lowest support for reducing janitorial services (4%) scaled down facilities (e.g., restrooms, shelters; 6%), and fewer hours open (9%). There were no significant differences between day and overnight users in their support for possible service reductions at the park.
  - The most popular type of campsites were RV campsites (58%) and tent campsites (48%). Few overnight users (i.e., 1% or less) stayed in the group tent or group RV sites, cabins, yurts, and the hiker / biker sites.
  - Overnight users reported that if they were to stay at an RV or tent campsite, 54% would need 30 amps, 24% would need 50 amps, and 16% would need no electrical power. Few users (5%) would need 100 amps.
  - In total, 87% of overnight users reserved their visit using the internet reservation system, 13% used the telephone reservation system, and < 1% had someone else make the reservation. Satisfaction with the reservation system was high, as 84% were satisfied and only 16% were not satisfied, with the highest proportion of overnight users being “very satisfied” (47%).

**Sociodemographic Characteristics of Users**

Table 38 shows demographic characteristics of users. There were a few more female (63%) than male (37%) users at Detroit Lake State Recreation Area, with significantly more females in the day use areas (66%) than in the overnight use areas (58%). The average age of respondents was 44 years old, and the largest proportions of users were 30 to 39 years old (29%) and 40 to 49 years old (23%). The average age of overnight users (48 years) was significantly higher than the average age of day users (41 years). Almost all respondents were white (i.e., Caucasian; 88%) with few Hispanic / Latinos (6%), Asians (2%), American Indian / Alaska Natives (1%), and Blacks / African Americans (1%). The average annual household income before taxes of respondents was \$69,800, and the largest proportion of users had incomes from \$50,000 to \$69,999 (21%) and \$70,000 to \$89,999 (18%). Visitors to Detroit Lake State Recreation Area are generally wealthier than the Oregon population at large (Oregon median household income in 2010 was \$51,994). The average annual household income of overnight users (\$77,200) was more than day users (\$65,000). Almost all users (96%) considered English as the primary language spoken in their homes. There was a significant difference in ethnicity between day and overnight users with a greater number of whites (Caucasian) at the overnight areas (91%) than at day areas (86%). Finally, there was no significant difference between the language spoken most often at home between day and overnight users.

Table 38. Comparison of day and overnight user demographic characteristics

	User Group <sup>a</sup>			$\chi^2$ or <i>t</i> value	<i>p</i> value	Effect size $\phi$ or <i>r</i> <sub>pb</sub>
	Day Users	Overnight Users	Total <sup>b</sup>			
Gender				4.77	.029	.08
Female	66	58	63			
Male	34	42	37			
Age				61.15	< .001	.29
Less than 20 years old	4	1	3			
20 – 29 years	15	7	12			
30 – 39 years	33	21	29			
40 – 49 years	21	26	23			
50 – 59 years	16	28	21			
60 – 69 years	10	14	11			
70 – 79 years	< 1	4	2			
80+ years old	1	0	< 1			
Average age (mean years)	41	48	44	6.95	< .001	.25
Household income (before taxes)				20.45	.015	.18
Less than \$10,000	4	2	3			
\$10,000 – \$29,999	8	4	7			
\$30,000 – \$49,999	17	16	17			
\$50,000 – \$69,999	23	17	21			
\$70,000 – \$89,999	19	18	18			
\$90,000 – \$109,999	10	17	12			
\$110,000 – \$129,999	8	11	9			
\$130,000 – \$149,999	3	4	3			
\$150,000 – \$169,999	3	6	4			
\$170,000 or more	5	6	6			
Average income (mean dollars)	65,000	77,200	69,800	3.34	.001	.13
Ethnicity				18.02	.006	.16
White (Caucasian)	86	91	88			
Asian	1	3	2			
Hispanic / Latino	8	3	6			
Other	1	2	2			
American Indian / Alaska Native	2	1	1			
Black / African American	1	1	1			
Language spoken most often at home				4.63	.201	.08
English	95	97	96			
Spanish	3	1	3			
Other	2	2	1			
Russian	1	1	1			

<sup>a</sup> Cell entries are percentages (%) unless specified as means or averages.

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

Table 39 shows that 88% of users lived in Oregon, 7% resided in Washington State, 1% were from California, and < 1% were from British Columbia (Canada). Among park users, 55% resided in the Willamette Valley of Oregon (<http://www.guidetooregon.com/regions/map.html>), 28% resided in the Portland Metro region, and 3% or fewer lived in each of the other regions of the state (i.e., Coastal, Southern, Eastern, Central, and Mt. Hood / Gorge). The largest percentage of overnight users was from the Portland Metro region (40%) and from the Willamette Valley (35%), whereas day users came primarily from the Willamette Valley (66%) and Portland Metro regions (20%). A majority of day users primarily lived in Oregon (90%), and Washington State (4%). Overnight users also primarily resided in Oregon (85%), and Washington State (12%).

Table 39. Respondent location of residence

	Day Users (%)	Overnight Users (%)	Total (%) <sup>a</sup>
Country			
USA	99	100	99
Canada	0	< 1	< 1
State			
Oregon <sup>b</sup>	90	85	88
Washington	4	12	7
California	1	1	1
British Columbia (Canada)	0	< 1	< 1
Other	5	1	3

<sup>a</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>b</sup> In total, 55% of park users resided in the Willamette Valley, 28% resided in the Portland Metro region of Oregon, and 3% or fewer lived in each of the other regions of the state (i.e., Coastal, Southern, Eastern, Central, Mt. Hood / Gorge). Around 12% of users came from out of state. The largest percentage of overnight users was from the Portland Metro region (40%) and the Willamette Valley (37%), whereas day users came primarily from the Willamette Valley (66%) and Portland Metro regions (20%).

Table 40 shows that 81% of users said that nobody in their group had a disability, whereas 19% had at least one group member with a disability. There were no significant differences between day and overnight users. Of those who had a disability, the most common was associated with walking (10% of park users), while 3% had a hearing disability, 3% had a learning disability, and 1% had impaired sight.

Table 40. Comparison of day and overnight user disabilities

Disability in group	User Group <sup>a</sup>			$\chi^2$ value	<i>p</i> value	Effect size $\phi$
	Day Users	Overnight Users	Total <sup>b</sup>			
No	80	82	81	0.64	.422	.03
Yes <sup>c</sup>	20	18	19			

<sup>a</sup> Cell entries are percentages (%).

<sup>b</sup> Cell entries in this column based on data weighted by population proportions to represent total population of all park users.

<sup>c</sup> Types of disabilities: walking = 10%, hearing = 3%, learning = 3%, sight = 1%, other = 5%

**Section Summary.** Taken together, results in this section showed that:

- There were a few more female (63%) than male (37%) users at this park.
- The average age of users was approximately 44 years old, and the largest proportions of users were 30 to 39 years old (29%) and 40 to 49 years old (23%).
- The average annual household income before taxes of respondents was \$69,800, and the largest proportion of users had incomes from \$50,000 to \$69,999 (21%) and \$70,000 to \$89,999 (18%). Visitors to Detroit Lake State Recreation Area are generally wealthier than the Oregon population at large (Oregon median household income in 2010 was \$51,994).
- Most respondents were white (i.e., Caucasian; 88%) with few Hispanic / Latinos (6%), Asians (2%), American Indian / Alaska Natives (1%), and Blacks / African Americans (1%).
- There was a significant difference in ethnicity between day and overnight users with a greater number of whites (Caucasian) at the overnight areas (91%) than at day areas (86%).
- Almost all respondents (96%) reported English as their primary language spoken in their homes.
- About 88% of users lived in Oregon, 7% resided in Washington State, 1% were from California, and < 1% were from British Columbia (Canada). Among park users, 55% resided in the Willamette Valley of Oregon, 28% resided in the Portland Metro region, and 3% or fewer lived in each of the other regions of the state (i.e., Coastal, Southern, Eastern, Central, and Mt. Hood / Gorge). The largest percentage of overnight users was from the Portland Metro region (40%) and from the Willamette Valley (35%), whereas day users came primarily from the Willamette Valley (66%) and Portland Metro regions

(20%). A majority of day users primarily lived in Oregon (90%), and Washington State (4%). Overnight users also primarily resided in Oregon (85%), and Washington State (12%).

- In total, 81% of users said that nobody in their group had a disability, whereas 19% had at least one group member with a disability. Of those who had a disability, the most common was associated with walking (10% of park users), while 3% had a hearing disability, 3% had learning disabilities, and 1% had impaired sight.

## ***RECOMMENDATIONS***

### **Management Recommendations**

Based on these results from surveys of day and overnight users, the following recommendations, in no particular order, are proposed for management of Detroit Lake State Recreation Area:

- Almost all day and overnight users traveled to this park in their own vehicles (96%), so adequate parking is important and should be considered in planning and management.
- The average number of visitors per vehicle for Detroit Lake State Recreation Area day-use visitors (4.30) was higher than the current FMS assumption of 4.0 visitors per vehicle. Park managers may want to use this updated figure in future day-use visitation calculations for the park.
- Over half of overnight users (59%) and 34% of day users brought dogs with them to this park, so it will be important to ensure adequate facilities to accommodate dogs and their owners (e.g., pick up bags, signs specifying regulations or restrictions), especially in the overnight camping areas. There were also various concerns in the narrative portions of the survey (Appendix A) regarding off leash dogs, and the noise or mess left behind by dogs. Managers may want to consider examining enforcement of existing pet regulations in the day and overnight areas as 74% of all visitors supported requiring dogs be on leash at all times and 50% supported making the park more pet friendly.
- Almost all users (95%) were satisfied with their experiences and the conditions at this park. Satisfaction, however, was consistently lower for the amount (54%) and quality (54%) of information and education materials and programs. Managers may wish to evaluate these services to users to ensure they are meeting visitor needs.

- Users were also somewhat less satisfied with the ease of movement and access around the park (e.g., wheelchair, stroller, elderly; 65%). Given that over 14% of park visitors were over the age of 60 and 19% of users had disabilities (10% with disabilities related to walking), managers may want to consider evaluating access throughout the park and perhaps even obtaining a current ADA or related audit.
- Approximately 63% of day and 75% of overnight users felt crowded at the park. These results suggest that crowding in the overnight-use areas are at “more than capacity”, and may soon or already exceed social carrying capacity, indicating more studies may be needed to allow management to preserve experiences. Furthermore, crowding in the day-use area is in the “high normal” range, where carrying capacity may not be exceeded, but may be trending in that direction. Monitoring and management of park use levels is needed, especially given that 77% of day users and 76% of overnight users supported the provision of more opportunities for escaping crowds.
- Users most strongly supported strategies designed to more opportunities at the park for escaping crowds (74%), requiring all dogs be kept on a leash at all times (69%), improve maintenance of facilities / services (67%), provide more recycling containers (66%), opportunities for viewing wildlife (65%), trash cans (65%), and natural buffers to block view of development (64%). A majority of overnight users also supported providing more campsites with both RV and tent camping (68%), more space between campsites (58%), and increasing the enforcement of quiet hours (53%). Managers may want to consider some or all of these strategies.
- An Importance – Performance analysis showed that all park attributes were in the “keep up the good work” category, indicating that users thought that staff were doing a good job managing conditions and experiences. There were, however, three attributes that were important to day users, and two attributes that were important to overnight users that fell into the “concentrate here” category, indicating that users were only slightly satisfied with these important attributes. These results reveal that managers should consider examining the opportunity to escape crowds or people, signs with directions in the park, and parking for vehicles in the day use areas, and the opportunity to escape crowds of people, and parking for vehicles in the overnight use areas.
- The visitor spending analysis showed that non-local visitor party spending was substantial, with the highest percentage (29%) reporting spending \$51-\$150 and an

additional 29% spending \$150-\$350 on their trip (within 30 miles of the park). In particular, non-local overnight visitors (41%) reported spending \$151-\$350 on their trip. Most visitors reported spending some money on park entry fees (72%), groceries (70%), gasoline and oil (62%), and camping (49%). A more extensive visitor spending analysis of this data set is being conducted by Oregon State University (OSU) and will be available in a separate report. Park managers may want to use the OSU report findings to help inform local community leaders about the positive impact of Detroit Lake State Recreation Area visitor spending on the local economies.

- The largest proportion of users depended on official internet websites (69%) as the first primary source of obtaining information about state parks such as Detroit Lake State Recreation Area, and the majority of overnight users (87%) reserved their spot at this park using the online / internet reservation system. Given these findings, it is imperative for staff to ensure that agency and park internet websites are easy to navigate, up to date, and provide comprehensive information.
- Almost all park visitors (96%) were able to find the information they needed when planning their visit to Detroit Lake State Recreation Area. However, some visitors (4%) were not able to find all information needed. The most popular information needed was better descriptions of policies and about campsite / park attributes on website, water levels and forest fire conditions nearby, GPS coordinates, directions for how to navigate OPRD and Reserve America websites.
- Users also provided 590 verbatim open ended comments on what they found to be the most outstanding features or things to do at Detroit Lake State Recreation Area. The most common outstanding features and things to do involved: (a) access to the lake and facilities; (b) multiple activities associated with the lake (e.g., boating, swimming, fishing, sailing, jet skiing); (c) the beauty of the lake and natural scenery; (d) easily accessible; (e) friendly staff; (f) boat docks and lake side campsites; and (g) the family environment.
- The demographic analysis shows that about 8% of day users were Hispanic at Detroit Lake State Recreation Area, but only 3% of overnight users to the park were Hispanic. Given that the Hispanic population is the fastest growing ethnic group in the state, park managers might consider enacting strategies intended to increase Hispanic participation and camping at Detroit Lake State Recreation Area.

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- Users provided 518 verbatim open ended positive and negative comments, and suggestions for possible improvement of Detroit Lake State Recreation Area and other park related issues. The most common concerns raised involved: (a) better enforcement of quiet hours (inconsiderate campers and dogs); (b) better enforcement of off-leash dogs, noise from barking dogs, and messes created by dogs; (c) pre-registration and slow check-in process; (d) difficult to get sites, especially for groups; (e) improvements to swimming area (i.e., too rocky, trip hazards, size too small, add picnic tables, shade, dock or platform); (f) parking for boats and day visitors in overnight area; (g) highway noise; (h) staff customer service; (i) bathroom facilities (maintenance and cleanliness); (j) fewer crowds; (k) lawn maintenance; (l) more buffers between campsites; (m) lake safety and congestion; (n) more hiking / bicycling trails; and (o) Wi-Fi for internet access.

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## APPENDIX A: OPEN-ENDED COMMENTS

### *Positive Comments*

- We loved the camp songs and the story telling by the ranger.
- Actually we think it is perfect.
- Thank you, we love Detroit State Park.
- Belinda and Tim were very friendly and informative.
- Detroit Lake is a nice place for our family, and we also like Ft. Stevens.
- We love Detroit Lake State Park. Keep up the good work.
- The store in park is nice. I think you have done a great job over all these years maintaining a wonderful park that my family loves.
- Detroit Lake is beautiful.
- Detroit Recreation Area is beautiful, and I wouldn't do much to change it.
- During our short visit we found everything perfect for camping. We rented a tent trailer for the very first time for convenience of our trip. We love tent sites.
- Detroit Lake State Park was awesome.
- If Detroit Lake was modeled to match the appearance of Devils Lake it would be perfect.
- The employees were all very nice and pleasant.
- The place is amazing and you are doing a great job.
- Great place.
- Great place, clean restroom, keep it up.
- Our experience otherwise was very positive.
- I don't think I would change a thing. Perhaps charge more (\$7-\$10) to keep quality of service.
- I enjoy this park and the rangers. If I could I would suggest more education stations, but other than that the park was perfect.
- I like it as it is, been coming there since the 60's.
- All in all it is one of my favorite places to get away.
- I love this park; it is in our family's top 2 or 3 parks in Oregon. If anything, I could see this park expand to the east a bit more just beyond the "H" loop.
- I really think it was amazing. Nothing comes to mind right away as far as changes to the park. It is perfect.
- I think it is wonderful.
- I think things are great and I enjoy coming here and bringing my daughter.
- I think you are doing great.
- I thought everything was fine.
- It is a great place to visit already.
- It is fine as it is. No improvements are necessary. The staff was extremely helpful and friendly.
- It is fine. We've been coming for 31 years.
- It's a beautiful park. I'd be happy if it stayed the same.

- It's all good.
- It's great just the way it is.
- It's great-we love it here.
- It's great. We love it. Our family tradition to come to Detroit Lake.
- It's perfect.
- Keep doing what you're doing.
- Keep it beautiful.
- Bring back the great ranger girl who leads us in camp songs. She was the highlight of a couple of years we were there, then gone last year, saw her this year, but no campfire songs (she is fantastic). Telescopes this year was great too since so different.
- Keep it the same. We love it. Thank you.
- Keep it the way it is.
- Keep it up.
- Keep Oregon green & clean.
- Keep up the good work. Always enjoy my stay at Detroit Lake state park.
- Leave it alone.
- The park rangers were super friendly.
- Love everything. That's why we have camped there 20 years out of the last 22 years.
- Love it just the way it is.
- Love it.
- Love it. Come every year. Love the campfire programs.
- Was very pleased.
- We enjoy Detroit Lake and know it takes money to keep it clean thank you.
- The RV site was fine.
- My favorite place in the whole world is Detroit Lake. Been coming here for 40 years. Will continue coming here until i die.
- My husband's family has been camping at Detroit Lake for probably 60 years going back to his grandparents. He has many memories growing up at this campground and we now all enjoy it as a family. He has fond memories of watching educational movies, listening to stories and singing in the amphitheater. The Audio/Visual equipment seems to be lacking in this area compared to how it used to be. Better AV equipment for educational purposes would be a great improvement. Thank you, we love coming and will come again for years.
- Needs no improvement, I am satisfied with the way it is.
- Nice park.
- No improvement. Enjoyed my stay.
- We loved our day visit.
- Nothing, it's great.
- Nothing.
- Nothing it was great. Thank you.
- I loved having a Marion County Sheriff officer there at night.

- We love camping here and we will keep coming back.
- Thanks for letting us be a part of this survey.
- Rangers were super nice. Thank you.
- Our camping experience was fabulous.
- We love the park and have returned for 10 plus years.
- Had a wonderful time and will be back Labor Day weekend.
- Awesome.
- Thanks for what you do.
- Great job by rangers and park hosts.
- Was a very pleasant stay.
- We are good.
- We have always liked the Detroit Lake area, even though we have a very busy schedule. We always look forward to our times at Detroit Lake.
- We have been coming for over 20 years to Detroit Lake. I want to say how much we enjoy Julie and Greg. They always take an interest in our family and make us feel like one of yours.
- We have camped at Detroit for the last 25 years. Love it.
- The park itself, the beautiful grounds I would not change at all.
- We love coming to the Lake, we typically take at least two trips there each summer and we RV camp for 4-5 nights.
- The rangers are great.
- The park hosts keep everything very nice and clean.
- We love it just the way it is.
- We really enjoyed it.
- We stayed in D loop. Sites seemed nice.
- We visit the Detroit State recreation quite often throughout the season. We camp at the state side campgrounds and we have been doing so for several years since we ourselves were kids. The park is a wonderful place to camp and be with family.
- Certainly all of the camping facilities we did use were just about perfect. One of the best rural campsites I've stayed in.
- Whatever you are doing keep it up.
- You guys are awesome.

#### ***Negative Comments and / or Issues for Improvement***

- Now that we can pre-register with Reserve America before we make our trip, it would be nice if the check in station could scan the bar code on our pre-registration form that we printout from reserve America. That would make check-in much faster. Maybe make different check-in windows. Windows for people that already have reservations and a window for people that don't have reservations. A lot of times these people that don't have reservations can really slow down the check in procedure.
- Fish cleaning station.
- RV space on right side of camp were terribly cramped.

- Restrooms could do with improvements.
- We ruined the prop and motor on our boat due to hitting a submerged rock.
- Need to improve buoy markings.
- Swimming area desperately needs improvement.
- Bring in some caterpillars and clear the area of rocks. Boulders, bring in sand, etc. to add a smooth surface.
- Some of the paved RV sites need asphalt maintenance and lengthening where possible.
- Sewer vent pipes often give off strong, unpleasant odors.
- Garbage bins tend to get overfilled between pickups.
- F Loop Park (by the F dock) needs to be re-instated as once kids could play there on monkey bars, etc.
- Some of the park personnel in the booth were curt/less than cordial.
- We question the advantage of pre-registration if you still have to register at the booth.
- As a family, it is very stressful to try to get sites in close proximity to each other as we have in the past. Thank you for hearing our complaints.
- 30 amp service in RV sites.
- Means to reserve for and accommodate larger family groups.
- Sewer service.
- A daily shuttle to town (Detroit) by land or water.
- Purchased firewood delivered to campsites.
- A few picnic tables near the lake would be nice, and rocks removed from swimming area path to area. Maybe consider sandy or gravel area for children.
- Information about available activities might inspire more participation.
- A group RV/tent site for family reunions and other groups who want to be together.
- 5 - 10 sites with easy reservations.
- A little crowded, campsite was pretty dusty and basic, but not really a whole lot you or anyone can do about that. It was fine. It was just a stopping point on a longer trip.
- A swim dock to jump off or dive off would be nice. Maybe with a diving board and an "at your own risk" sign for usage.
- Improve beach.
- Kids playground.
- Build a dock.
- Add a dock to swim off and dive.
- Add free WiFi.
- Add sand to the swimming area, improve the grass on the sitting areas, add more shaded picnic tables, increase the size of the swimming area, and have more swimming away from boats.
- Add sand.
- WI-FI.
- Add some trees for shade in the day and use the swimming area at Mongold.
- Additional overnight parking within the campground.

- Allow for daytime visitors to have parking access in the park.
- Allow people to have more than 2 cars per site. Willing to pay for extra parking but Mongold is a lousy solution. I see extra spots sitting unused because other sites only have one vehicle. Extra person has to go to Mongold. Very unsafe.
- Allow pets in more areas, like the grassy area by the swimming area, or have weight restrictions for pets by the water.
- Amount of time required to check in can be improved. Create separate area or kiosk where walk up business can be taken care of so in-bound traffic can be sped up. Perhaps have an express check in program.
- Another bathroom at the end of B loop. Leave lights on in bathroom during day (it's scary).
- Another swim area like this one.
- At our location, too much boat parking and not enough regular car parking.
- At the dock area there need to be rubber bumpers around the large poles. We damaged our boat there. Also benches by the bathrooms would be helpful while waiting for people.
- Bathrooms could be cleaner.
- You should not say park is full when there are a lot of spots open.
- People should pick up after their dogs.
- Be nice if the dogs wouldn't crap on the beach.
- Better beaches-most are too rocky and need shoes to avoid foot damage.
- Need drop-off zone to unload food items for picnic area.
- Better boat launching and trailer storage.
- Keep kids from swimming in areas where boats are moored.
- Better customer service with park rangers.
- No service fee if extending your stay at the same spot.
- Better enforcement of quiet hours. The campground was incredibly loud at night, lots of people drinking and talking loudly well after quiet hours, until 2 am. There were also multiple people splitting campfire wood after midnight. We will not be returning to Detroit Lake due to the loud conditions in the campground and lack of enforcement of quiet hours.
- Better food concessions at the park. Just sell the basics (e.g., ice cream, chips, some candy).
- Better parking, the boat trailers take up most of the lot.
- Better swim area and a store.
- Better swim area, better boat docking to picnic area, better bathrooms.
- Better water pressure for RV, better protection for boats in moorage from rough water caused by boats, larger selection in camp store.
- Better water pressure would help in the showers, but more importantly, better shower heads that give more than a thin stream of water.
- Bigger camp sites with more shade and privacy. Showers that are not so cramped and slippery with a separate area to dress, dry hair, brush teeth, etc.

- Bigger store.
- Bigger swim area. There were too many people.
- Bigger swim area and more parking.
- Bigger and cleaner tent sites. Less park rangers. More toilets and showers. More parking for at least one extra vehicle.
- Designate the upwind loop as no campfires and quiet time after 9:00 pm.
- Build a sound barrier for sites by highway.
- Build that barrier to the highway so it blocks the sound from the highway. Arrest truckers who use their Jake Brake in that area.
- Cable hookups or WiFi.
- Campsites are really close together. It's a tough balance with such a high demand recreation area but I think the federal campgrounds offer more nature and privacy.
- Check out should be earlier (12pm), so check in could be earlier, 2pm instead. The 4 pm check in is really too late.
- Clean bathrooms and enforce quiet hours.
- Clean showers and restrooms.
- Clean the bathrooms mid-day rather than first thing in the morning when everyone is using it.
- At H boat dock there is a very nice area to swim with very small rocks. It looks nice and inviting, but we are not allowed to swim there. We are told to swim over by the big rocks. There needs to be more roped off swimming areas for kids free of large rocks.
- If possible expand the park. It is very difficult to get a camp site if you don't plan 9 months ahead.
- Another fishing dock would be nice in a park that big. I was given a warning for not having an invasive species permit for my canoe. What next? I saw the sign for how to clean out your motor boats but had no idea I needed a permit for my canoe. This could have been made more clear.
- Quiet hours need to be enforced. It is uncomfortable to get out of bed and have to go tell drunk people to be quiet. You never know what you'll run in to.
- The safety paint is coming off the sidewalks at H loop restroom where the concrete is shifting. This is a pretty important thing to keep up.
- Clean the showers more daily. Need warmer water in showers.
- Continue to plant to keep camp sites lush and continue to cut back grass in beach in B loop.
- Clean up campsites that are rocky and has tree stumps. Safety issue.
- Cleaner and more welcoming restroom facilities.
- Cleaner restrooms, less expensive fees, weekly/monthly passes as well as yearly.
- Cleanliness of the bathroom and shower facilities were a bit lacking later in the day, a second cleaning at around 5pm would go a long way to fix that.
- Safety and security was better this year, but that might have just been because we had a Sheriff staying 2 campsites away from us. Last year, people were very loud after quiet

time hours, this year it was better. Enforcing quiet time hours would be greatly appreciated. Everything can get better, but it's not bad as it sits now.

- Clear more brush on the lake side of the campsites to enjoy the view and increase the brush/trees between campsites for more privacy. Eliminate some of the sights to make all sights larger and more equal in size as some sights are much smaller than others.
- Continue working on people skills. Assume the best when it comes to working with visitors to the campground. A smile goes a long way.
- Control weekend rowdiness.
- Create another campground on another section of the lake. It is too crowded at the State campground.
- Cut down on the number of camp "Hosts". Didn't see them doing much, but taking up rentable space. The state must not care of money losses.
- Designate a site or add a sewer dump for RV sites in loop H. We like to stay at F & H loops because they offer full hookup for RV and both offer boat mooring. G is too far from the mooring. H is the largest loop and has no full hookup sites.
- I would like to see more grass or sand to lay out and watch my kids swim and some shaded areas for the same purpose.
- The one thing that bothers me about the state parks is that the reservation fee seems high. It is a relatively significant percentage of the camping fee, and I assume it is going to the contractor "Reserve America". \$8 seems like a lot for a fee on an automated web site.
- Dock for swim area.
- It could be helpful to have tent trailer sites with just electricity and water.
- Easier check-in, and better RV access /parking.
- Eliminate number of campsites and perhaps make some of them unavailable to the reservation system. Eliminate campsites along the highway, maybe plant additional shrubs, trees, and build structures to reduce highway noise pollution.
- Enforce motorized boating rules to make the lake safer for those not using motorized toys on the water. Reducing the total number of people who can use the site at any one time would take care of the other problems I experienced such as: littering, late-night noise, overcrowding in the bathrooms, cleanliness of bathrooms, etc.
- Empty the syringe container in bathroom. its overflowing in the women's bathroom, kids can touch used syringes.
- Enforce campground noise levels after 10:00 P.M. including barking dogs and Loop D.
- Cleaner bathroom and seats in showers would be helpful.
- Enforce quiet time. We had multiple neighbors that partied late past quiet time without ranger attention.
- Spread campsites apart.
- Enforce quit hours at 10 PM. Too much yelling and radios late into the night.
- Enforce rules; especially quiet hours and pets on leash. Provide bags for dog cleanup.
- Clean bathrooms and showers.
- Enforce the 10pm quiet time better. Several groups that camped across from us got very loud. We stayed in C-30.

- Enforce the dogs on leash laws and how many dogs per site. It doesn't work to threaten people with, "this law will be enforced" if nothing is done. Stop crowding the campsites. It isn't a crime to spread the sites out and leave a barrier.
- If the state is paying the camp "Host" then the state is not getting their money's worth. We only saw one the 3 days we were there.
- Enforce the quiet hours. Campers next to us were yelling and screaming until 3a.m. and had to be told multiple times by nearby campers to keep quiet.
- Enforce the quiet time at night.
- More spots available. We would like to spend a longer amount of time and more often. How do you get reservations other than on internet and phone.
- Equipment rental for activities, BBQ areas in better shape, and have more info available about what can be done here.
- Expand day use parking for cars.
- Extends swim boundaries.
- Extra parking for day use visitors. My brother in-law is a handicap veteran and they would not allow him to park at Detroit Lake since we already had the RV and extra car. He had to drive to Mongold with us following to bring him back to camp, and then drive him back to Mongold after a 2 hour visit. This was nonsense since there were plenty of parking spaces available.
- Fewer crowds.
- Fix asphalt, put in a lawn or seed the lawn, and provide ash trays (many, many cigarette butts on ground).
- Fix the electrical issues with the 20 amp infrastructure and add wireless internet.
- Fix the parking nightmare. It is unacceptable that we cannot park anywhere but our campsites.
- Friendlier employees and park rangers.
- Get rid of asphalt at beach and replace with sand. More car parking.
- Give some of your Rangers some people skills. It's not what you say, it's how you say it.
- Handicapped campgrounds were a huge disappointment to my cousins who were in G.
- Have a RV dump station.
- Have an easier way to get reservations by phone. It is a rat race and if there were more people answering the phone at 8am it wouldn't be so hard to compete with the computer.
- Have less campsites. It's like an apartment complex with the walls removed. Move campsites away from the highway. Noise of trucks going by was unacceptable. Unless big changes are made, we won't camp there again.
- Have more garbage can/recycling areas, make people pick up after their dogs.
- Have more RV sites on the water and more bathrooms closer to each spot.
- Have online and booth have same procedures. We printed off the window tag and preregistered and we still had to stand in line and get a blue tag for window. Waste of my time and paper.

- Having a concession stand that offers hot dogs, ice cream, nachos. Grab and go items. This would be so convenient for a lot of campers. And the children would be very happy as well. Also it's a shame that the little store there keeps getting less and less merchandise to purchase. My family has been camping at Detroit Lake for over 10 years. A few changes would be nice.
- Less bothering from the rangers at night. Always 10:00 pm sharp there's a ranger there to tell us to quiet down every night every year. We try really hard to keep quiet but it seems that just talking around the fire pit is too loud.
- Having internet service.
- Headstart for Oregon residents for making camping reservations.
- Highway noise was nearly intolerable.
- Hot water in showers. Later quiet time when it only gets dark at 9:30. Circuit breakers that don't trip with an electric frying pan. Improve reservation system for large groups.
- Experienced inconsistency with parking in the park.
- I did not care for the open fire near water, safety of kids, smell of oil from asphalt, ruined my overall experience of trip. No fires near water, kids, or on asphalt.
- I feel campers from other states (not Oregonians) should pay a higher fee than Oregon residents to camp in our parks. Maybe one or two dollars a night more; not a lot but enough to give the parks system a bit more revenue. Just walking around the park, we saw many campers from California and Washington that should be paying more. Trying to get into Detroit is very hard during the summer.
- it would be great to have quiet hours more monitored. There were several nights that I was woke up after 1 AM due to loud voices and noises of others in the park.
- I had a negative interaction with a park ranger just as I was getting ready to leave the campsite.
- I have a card for life through the ranger station that takes down the price of camping. I think it should be free while you use the day area.
- I have a large boat - It is frustrating if there is a 10 ft. aluminum boat taking up a slip, or worse yet a jet ski that can easily be beached our anchored. Perhaps create a "small vessel" boat dock or require minimum length for main boat slips.
- The only thing that I might like to see change would be more space between camp sites.
- I like the fact that it is so cheap to camp there, but I have never seen so much white trash in a camp ground in my life. Dogs barking all night long, babies crying at all hours, I could not wait to get the hell out of there. I used to camp there many years ago and it was great. I hate to say this, but I think you need to raise your fee's to keep some of the rif-raf out. I am a dog owner and she stays home when I camp.
- I love the park but wish the park rangers were not so strict. They hover over you & make things stressful sometimes.
- I think maybe a small boat rental would be fun like paddle boats or canoes.
- Keep congestion down on the lake.
- Maybe people could somehow get to the little island for more rugged camping. I don't know if they already allow camping there or not.

- I think Oregon residents should be able to make reservations first for all state parks. Detroit Lake is so difficult to get RV camping sites now because it is so busy.
- I think the utilities areas in RV sites need to be updated and moved to better locations.
- I was very dissatisfied when I came to check in. We had already done the online check in process, but were required to stand at the shack, and then after waiting for more than 15 minutes at one window while a ranger was helping another camper and as soon as she was done we were told that she was now closing her window. So we then waited another 10 minutes at another window to have another camper come in front of me. There was little organization and even less courtesy. The ranger that finally checked us in was personable enough to get us checked in.
- I wish there were a way to be farther from the highway. Perhaps you could block off the highway more than you are doing now.
- I wish you would have boats, pontoon boats, and wave runners etc., to rent right from the park.
- I would ask that the rangers talk to people when their dogs are barking constantly.
- I would have like to have known ahead of time that no generators were allowed. We had to change camping areas in order to get enough electricity to run our air conditioner, but it all worked out all right.
- I would love an improved grassy area.
- I would suggest putting in a dock for kids to jump from.
- If pre-check in is done allow that on the dash and have a ranger or volunteer come by with the window tag and exchange it vs. having to check in all over again; what's the point in the pre check in is you have to do it again.
- Improve lighting in bathrooms. Bigger shower stalls.
- Improve the beach area, smaller rocks, sand (Mongold).
- Improve the check-in system. You send a pre-registration form. I have already paid in full for my campsite. Then I wait in line at the campground for over 30 minutes. When I give the registrar my pre-registration form he says "we aren't set up to accept these yet". Your system is so non-efficient.
- Improve the way patrol rangers interact with campers. They were rude, combative, and had a very negative impact on our trip.
- Improved swimming areas. Bench in shower stalls.
- Increase the power in H loop, 20 amps is not enough and sewer hookups.
- Enforce quiet time to all hours.
- Instruct campers on camping manners, lowered voices, no screaming children, children running through other people's campsites. A child in distress is understandable; children screaming while playing and running wild is just not acceptable.
- Internet access.
- I don't like noisy neighbors and I think it's getting expensive.
- It is hard with large groups to have an additional vehicle fee since they are always with groups with several cars. So besides the camping fee, each household is usually paying an extra vehicle fee as well.

- It is highly aggravating to try to get more than 1 or 2 nights in a row there now. We used to be able to camp easily, now it is so hard to get any type of reservation because of the big RV'ers that stay there weeks on end. Very frustrating. Each year we spend less and less time there and that is sad.
- It was awful camping with the Hwy behind us. We couldn't hear each other around the campfire. We won't camp here again unless we are away from this spot.
- It would be nice if dogs were allowed in the swim area.
- It would be nice if the swimming area would be bigger and perhaps add sand near the shore to have better feet treatment thank you
- It would be nice to have cellphone service here.
- It would be nice to have more parking spaces. Park ranger attitude was not polite.
- Keep better firewood for sale. The stuff you had on July 4th or so was not seasoned well enough and didn't burn well. It was also very knotty and difficult to split into kindling.
- Keep it clean. Possibly improve showers and bathrooms.
- Rent canoes or other small water items.
- Keep the water in the lake as full as possible.
- Less people allowed at each campsite.
- Less people per site to many people on the weekend.
- Let dogs in the swim area. Makes it hard for families w/dogs and kids to have to be in the rock area where boats keep coming in.
- Have garbage cans outside of swim area. Make the showers work again.
- Level tent and table areas in each RV site, and make tent sites large enough to accommodate a 12'X14" tent.
- There were way too many people crammed into the swim area. Maybe make a second swim area further down.
- Too few parking spots.
- Limit the speed boats and wave runners.
- Allow the quiet fishing and pontoon boats but the loud smelly crap is going to ruin the lake eventually. I know families who will no longer come to Detroit Lake because of near misses with these watercraft that are destroying your lake.
- Longer ADA spots next to day use main area. We drive a shuttle bus.
- Only wish would be for accessible Wi-Fi.
- Lower speed limits in camping loops.
- Maintain grass and sweep rocks on entry so little ones don't have to wear shoes.
- Make it easier for me / us to arrange a group camp for our annual family reunion. I will pay an additional fee, substantial if necessary. Need 12 sites including 4 full hook up. Would like some waterfront if possible.
- Make it easier to get a site.
- Make it easier to get to the playground by vehicle from the other side of the campground. We were in H and were told that we had to either walk from H to the playground or get another pass.

- Make it more expensive to keep low rent people out.
- In over 30 years we have never been able to get a lakeside sight. Groups get together and tie up 4 or more sights and then talk about which to keep/which to cancel.
- Make more loops with full hookups.  
Make reservations less of an effort.
- Make sure dirty campers clean up campsite and ban them if they don't. We found a soiled diaper in our fire pit after we roasted hotdogs.
- Make the camp site's bigger and not on top of each other. More space.
- Make the campsites larger with more brush and trees around each one to increase the feeling of being in nature.
- Make the entire lake or at least larger areas of the lake a no wake zone. It is almost impossible to fish with ski and speed boats flying past constantly.
- Make the park more accepting of dogs, and the quiet hours need to be adjusted on holidays and special events. I was there on the 4th of July and we had rangers telling us to be quiet at 10pm.
- Bigger swim area, it gets really crowded and more parking.
- Making bigger and provide more unit for camping tents.
- Maps of local hiking trails.
- Maybe clean up beach area. found small pieces of garbage. Better grassy area and more picnic tables or shady areas.
- Maybe more hiking trails along the lake.
- Metal recycling was the only thing that seemed absent.
- Minor restroom upgrade for longer lasting water.
- More bushes between the camp sites .
- More and bigger fish.
- More 50amp hookups.
- More attention to the number of people in any given campsite.
- More bathrooms.
- More BBQ sites at day use areas.
- More boat ramps and parking for boat trailers.
- More boat trailer parking and better barriers around boat moorage, more moorage.
- More camp sites, too hard to get a reservation.
- Upgrade power meters to 30 amps or more. Install a dump station.
- More camping sites.
- More campsites and/or renting boats that can be also used for sleeping on to help with availability during major holidays.
- More campsites with lake views.
- More complete, readily accessible info on details of camp sites, boating, and amenities.  
Less expensive for tents campers even at full hook up sites who need access for electronic healthcare devices, but only have tent budget. Allow campers to set up earlier

and depart later, especially for only one-nighters and tent people. Provide better lake navigational charts with soundings and/or obstacle warnings.

- More ducks and recycling at day use area.
- More electric hook ups for tent camping.
- More enforcement of quiet hours.
- More family friendly showers, either larger stalls or a shower room for families with small children.
- More fire pits.
- More full hook up sites and less RV sites being used for tent only campers.
- More grass on sites and more private camp sites. Better parking for visitors and small pea gravel on beach areas.
- More guest parking. Better enforcement of speed limit within the park.
- More hiking trails would be nice.
- More hiking. I was very disappointed with the trails. Such a shame.
- More improved beach access/swimming areas for when the water level drops.
- Better enforcement for quiet hours during peak times. Friday night seemed to be party night and late arriving campers were noisy and rowdy.
- Additional boat trailer parking would be nice, but not a requirement.
- More level areas within campsites for tent setups.
- More over flow parking.
- More parking.
- More parking at each camp site.
- More parking, which I know is difficult, and less Hwy noise which is impossible.
- More parking and better beach area. Drop off zone for picnic area would be nice for big families with small children which are hard to haul when parked far away.
- More parking, better beach area, drop off zone for picnic area.
- More parking.
- More parking, more shaded areas in the grass by swimming hole.
- More picnic areas with a BBQ.
- More picnic tables and less blacktop.
- More picnic tables, nicer grass maybe cheaper parking cost for daily use.
- More picnic tables, shaded areas at beach, and rental canoes.
- More picnic tables.
- Swimming area improved.
- More picnic tables along the shore. Level the land so the tables do not slope downwards.
- More private campsites and the showers were cold.
- More recycling containers.
- Keep soap in rest room or paper towels.
- More restrooms.
- More showers and cleaner bathrooms.
- More swimming areas and easier access to the lake.

- More sites that accommodate longer trailers, 27'+. Especially ones along the lake shore.
- More sites with sewer hookups.
- More tables across from swim area.
- More tables near the water at Mongold area. Water the grassy area.
- More tent camping spots would be nice.
- More toilets and showers.
- More trash cans near the campsites.
- Ranger programs on history, nature, etc.
- More working restrooms.
- Most places that we visit with our RV do not charge us to bring our tow vehicle, our site did not accommodate both our RV and tow vehicle and we were required to pay an extra \$5 per day.
- Move or get rid of cement blocks by parking. They are tripping hazards.
- Move sewer hook ups within the park.
- More spots available
- More amps than 20, cell phone and Wi-Fi.
- Move the road farther away.
- My only big complaint was car noise from the highway and not much you can do about that.
- My only complaint is how difficult it is to get reservations. I don't plan vacation 6 months in advance and have found that people reserve spots just to get them and then cancel or let spot sit open.
- My only complaint is I can't believe how fast people drive in this park. I think the state police should write some tickets. Maybe you could install some big speed bumps to slow people down.
- My only complaint no one patrols the camp site after 10PM to enforce the quiet curfew. I was awake after 2AM because of loud parties.
- Need more restroom locations, maybe add honey buckets.
- Need soap in restroom.
- Need to expand and add showers to loop A.
- Please set rest room cleaning times to late morning or early afternoon hours when they are used less. Rest room cleaning at 8-9am not ideal since that is heavy traffic time.
- New/updated restrooms with more toilets and with showers in the loops that currently only have older restrooms with no showers.
- Nice to keep tents out of the RV spots.
- No dogs allowed.
- More camping spaces, hard to reserve this time of year.
- Not allow barking dogs at any time. It is very disturbing. Also, no loud music anytime, not just during quiet hours. Have the rangers be more informed about the parking rules.
- Not allow large groups (e.g. family reunion of over 100 people) to overtake a picnic/play area.

- Maybe have actual sand in the sand box at the playground.
- Offer a dump station.
- We dealt with 3 different rangers in the front booth that were unmotivated to help and did not seem to care about being there.
- Offer more restrooms, shops, restaurants, bars, volley ball fields, soccer fields.
- Only complaint is high volume traffic noise.
- Open up campsites when there are no-shows. Do not allow people to book and then cancel and rebook within a 48 hour period.
- Oregon state parks are by far the best anywhere and attract a lot of out of state people. As more of them are using the campground, it is becoming harder for Oregon residence to find a spot. I feel that a big reason the parks are so outstanding is that our tax dollars are at work here. However, since non-resident people do not support the parks with taxes, i believe that they should pay a higher fee and should not be able to make reservations until 6 months before arrival. This would make it more likely that we (Oregon residents) would have an easier time finding a nice campsite. Thank you.
- Our first night there the group across the street were up until 2:00 AM, music, inappropriate language, etc. This should never happen. There should be a ranger going through on the lookout for this. I mentioned it to the girl on the golf cart the next morning who was checking sites. Perhaps a ranger going around in a cart could hear better at night.
- Overflow parking should be in the park.
- RV sights are a little snug.
- Parking is always full & beach is empty. Grass and landing to water could be improved.
- Parking on weekend, water spigots, working showers, dogs able to be in grassy area of swim area with their families.
- People had large floaters and tubes in the enclosed swim area. Not cool, too crowded and not enough space for everyone.
- Perhaps more attentive park hosts. Enforcing the quiet hour and number of people allowed to camp at sites.
- Permanent BBQ stands & grills.
- Pet owners should be more accountable for barking and leash rules. Quiet hours should be maintained. Someone should check. There is no consideration for a peaceful atmosphere these days.
- Planting some grass seed and watering would be appreciated. Perhaps some more picnic tables. Thank you.
- Please bring back the organized activities like volleyball.
- Please clean the restrooms more often. Loop D restrooms need to be improved. The faucets don't stay on long enough to wash hands. The floors are dirty and the stalls are too small, and the showers in loop D need a shelf and a seat like the other camp restrooms.
- Please do not permit campers to blast music so loud it can be heard several sites away. No matter the time of day.

- Please provide better conditions in showers. No place to put clothing. Showers sprays aren't enough to rinse hair, and gets all over clothes. Plug-ins and more mirrors in bathroom and showers are important. Also some kind of timing for the crew when cleaning; there were times we couldn't use the bathroom for a while because of cleaning.
- Please enforce after hours quiet.
- Possibly some free mooring anchor buoys along the shoreline for overnight parking when the docks are full.
- Provide 50 amp and provide more campsites to accommodate large RV (40' and above). Designate campsites for large RV. Often tents or small camper occupy the only spots we can fit in.
- Provide more options for parking of boats/trailers.
- Wrap the firewood for sale in something other than plastic wrap.
- Provide a 3-D (Google Street View style) map that allows one to survey the campsites similar to moving along Google Street View so one can see if a site is likely to meet their needs when reserving.
- Replace the super-sweet automatic cappuccino maker with a real coffee stand or allow a contracted coffee stand to come in.
- Provide more parking for people who want to visit while we are at the campground.
- Some of the rangers/workers need to lighten up.
- Put shelves or more hooks in showers to keep things off the ground.
- Put up a sign that says "NO LOUD MUSIC". We go camping to get away from the city and when we can hear people's music and/or TV it kind of defeats the purpose of getting out of the city.
- Putting up a break to reduce noise from campground. We couldn't get a campsite closer to the water where the noise is less due to making this visit one week prior to arriving. Maybe more options for those who decide to come visit last minute could have a lakeside campsite or something farther away from Hwy.
- Reduce the highway noise.
- Remove the camping near the freeway. Better warn campers that they won't sleep at night. Put in another boat dock. Put the camp sites farther apart.
- Repair shower in changing room.
- Reservation system needs work. I used the online system and was not able to make reservations myself.
- Restroom remodel circle A.
- Restrooms needed to be cleaned and restocked more often. Both days noticed them to be filthy and out of supplies. The number of toilets was also not sufficient for the number of campers in the area.
- More restrooms west of boat ramp.
- Stock more fish.
- Sandy swimming areas with less rocks.
- Security patrols year round; and nights too.

- Semi-truck road noise is highly distracting when trying to sleep. Would be helpful to somehow block/buffer the noise
- Sewer hookups or a general dump station if not a hookup at your site.
- Shorter lines at check in on weekends.
- More swimming areas.
- More swimming areas.
- Show accurate availability on the internet. We found more sights available once we checked in than we saw on the website.
- Showers in the B Loop would be wonderful. The floors in the C Loop bathrooms are dangerously slick.
- Showers in the tent sections.
- Plant more trees or bushes by the road to reduce noise.
- Showers were a little dirty and some folks ignored quiet hours.
- Soap in restroom.
- Some camp sites are pretty much on top of each other.
- Showers could have a better place to place towels and clothing.
- Some noise abatement from the highway is needed, we barely slept.
- Some of the campsites are extremely small in comparison to other sites & the fees are still the same.
- It is very hard to reserve a site due the open reservations 9 months ahead of time. It would be helpful for those of us that are unsure when we will be able to camp to have an opportunity to reserve just prior to the summer season.
- Some of the paved paths need to be repaved and not just patched. We had a cut toe and a trip resulting in a skinned knee and hand. But the injuries didn't stop us from having a great time.
- Somehow put a barrier in between the highway and the campground.
- Somehow reduce highway noise within the park for campers.
- Sound wall by highway.
- Swimming area very rocky and kids cut their feet through flip flops.
- Take curb out to drive truck & trailer forward instead of backing out, just circle around lot forward.
- Tent camp sites are expensive.
- Add sand and remove the sharp hazardous rocks and broken glass. Improve access to beach. Especially in G loop.
- The campers next to us opened their car door to use their stereo speakers. They cranked the volume and played a vile and filthy comedy club recording that used the "F" word in every sentence then began to joke about very explicit sex acts. It was very disgusting. And there were children moving through the park. Very unfortunate and pretty well ruined the morning for us. As near as I could tell everyone else in the park were very nice and considerate.
- I would be willing to pay more to get in park area if dogs would be allowed.

- The duck and goose poop was pretty bad in the grass areas and on the dock. I don't know how you would prevent that though.
- The men's restroom in H Loop has only 2 stalls. There was often a wait for an available toilet.
- The men's restrooms didn't have warm running water for the showers. Charge extra for parking but fix the showers.
- The one detractor for our visit was filthy showers (both nights). A general recommendation is to have more spacing between RV sites. Why not have a few premium RV sites and charge a higher fee for those special sites? I for one would pay double or more for a more secluded site.
- The only issue I had was some of the hosts were not very polite.
- The only thing that discouraged us for camping there again was the proximity to the highway. The road noise was pretty bad.
- The quiet hour needs to be moved back to 11pm on week nights and midnight on weekends. If the hours were later it would be perfect.
- The registration process is too hard when you have to make plans 9 months to the day in advance and have them not available and have to wait another week and try again. We have been going to the lake for over 30 years and have not been able to get lake front sites in F loop for 15 years.
- The second night we were there, 2 large and loud groups of people came and started to set up camp at 9:30. They were still moving their loud trucks around well passed quiet hours. They were outside of their RV until 2:30 in the morning making lots and lots of noise. I hope that in the future, people can't come in past 9:00 and will be reminded to be courteous of others at 10:00.
- The site we stayed at the water ran into our camp site. Maybe fix that.
- The sites next to the highway are terribly loud and not relaxing at all. Need to install some sort of sound wall next to highway to try and damper the noise. I'd never stay in any of those sites again. Just way too loud to be relaxing.
- The use of Yurts would be awesome.
- Re-open that boat ramp down in B loop. Really tough when you are alone and have to launch your boat.
- Maybe, offer a golf cart service to the ramp after you park your car and need to get back to your boat/wave runner.
- I would ask for more ADA improvements to access picnic areas. Specifically make a less steep grade on ramps to the bathrooms in the swim area. Also change the steep area by the garbage containers leading to left up to shaded picnic tables, if possible. My mom is in electric wheelchair and has issues with gravel pathways. Plus the slope is too steep to allow a manual wheelchair to be used either.
- There are not enough handicap camp sites in the park. We have not camped at the park for over 6-7 yrs because we are unable to obtain one of the only 3 handicap sites in the park.

- There was nowhere near to get camping food. The town of Detroit was small and had no hamburger meat or really a grocery store at all. There was nothing indicating on the website indicating that we should stop at a real grocery store before heading all the way up into the mountains.
- Barking dogs were our only problem. We reported the sit to front gate. We seem to be ignored.
- To make reservation easier so we don't see so many empty sites when we are there. Too many reservations are made just for the weekend
- To remove all the big rocks. My wife tripped on a big rock and hit her head. Thank you to the Rangers for their help and concerns, that night and the rest of the stay.
- Too many trees and shrubs were removed taking away privacy. It would be nice to have some shrubs back. We stay in G42 every year. People walk through our campsite from the swim area. We have no privacy anymore. There should be a sign directing them to the official path and access. We love the view from our site, but this year we felt we had no privacy in G42.
- Too much car noise on upper loops. Maybe more trees, bushes between main road and campsite.
- Traffic through the park was driving way to fast.
- Turn on lights in bathroom and add TP.
- Put a GPS address on your website so people are not out wondering around lost.
- Enforce camp rules like quiet time. Kids should not have been out screaming for past 11pm running around the playground and in and out of the bathrooms.
- Add more garbage cans so people stop littering.
- Retrain check in people.
- Turn some of the campsites closest to the main highway into parking. Nobody wants to park a car at a different, unmonitored parking area over night, out of fear their car would get broken into.
- Update and improve the bathrooms. They're in horrible condition.
- Police the loud and rude campers. Charge an additional 'high' fee for dogs, which should reduce constant barking.
- Updated shower facilities.
- If a customer makes a reservation and does not show up by a certain time or call the park ahead of time, that site should be given to someone else on a first come first serve basis. There should be more effective communication in the park about campsites being vacated.
- Wi-fi would be great.
- Use some form of natural sound barrier to dampen highway noise.
- Improve additional vehicle parking situation so extended family members can more easily visit overnight.
- Using swim area with dogs and clean up geese poop.
- Uncleanliness of the bathrooms.

- Water the grass.
- Way too many geese.
- We camp here every year with a group of family campers of all types since 1984. It continues to be harder to get sites together. We yearly use 15 to 20 sites in one of the loops.
- It would be nice to have more full hook ups or a dump station at the park.
- Less camp hosts, as most use this as a crutch to stay at the park for minimal price and stay most of the summer.
- We had family from Colorado come up for the day to visit and since we already had an extra vehicle they had to park at Mongold and we had to shuttle them to our campsite. It was very inconvenient. It would be very nice to offer a day use area for parking for visitors to the camp ground or make an exception to the extra vehicle policy if there are extra spots near our campsite, which there was.
- We reserved our spot online for Friday night and Saturday night and then a few months later decided to reserve the same spot for Sunday night and upon check-in on Friday night we were informed that we had to come back to the booth by 1:00 Sunday to check-in for Sunday evening.
- We hate the extra fees for parking.
- I was upset that a sheriff seemed to be on duty full time at the park. Hope we are not paying for this unneeded service.
- I see way too many park hosts taking up some really nice camping spots and each year the number seems to increase. The amount of hosts has tripled in the years we have camped, so put them to work for the free camping, electric, sewer, water, garbage. I have heard that at Detroit the hosts do less than any other park in OR. While the hosts or rangers are running around they should be watching for off leash animals and talking to people who let their dogs bark.
- We have small kids and small dogs and it would have been more enjoyable for all of us (our kids especially) if we could have stayed in the swim area.
- More parking would be great.
- One of the main things I dislike is people who let their dogs off leash.
- We need lush grass and less cement, BBQS and more toilets that lock and flush, flowers and sand, and free floaties
- It was a little crowded for us.
- New asphalt needs to be put in at certain areas of the park. Also some asphalt trails need attention.
- Some campsites need to have ground leveled for tent camping, most in the RV sites, for those who do not own RVs.
- Bathrooms tend to get overcrowded, maybe a few port a potty's may help relieve this. Also a port a potty down at the Mongold boat launch would be awesome.
- The hike up to the current bathroom is not good for the elderly or children that may be alone.

- Something needs to be done about people reserving that cheat the system and lock up all the best sites, leaving the honest people with no opportunity to get a site they may like to camp in.
- We were unable to use electric, due to low voltage. It got down to 100 volts for most of the days we were there 9 days. Improve the system so we at least have 20 amps during the day.
- Wi-Fi and mirrors in the bathrooms.
- Widen area, too many people.
- Wireless internet.
- With-in walking distance of the camp, have a swimming area where boats cannot enter.
- Have some off road walking, hiking and biking trails.
- Have some boat rental through the park because \$150 for 2 hours of jet ski rental through the Detroit Lake Marina is too expensive.
- Have more basketball courts. We waited an hour to use the basketball court. The children using the court were still having fun using the court when we left but there was not room for the other people who were waiting to play or join.
- Would like to have cleaner bathrooms & showers.
- You could really improve the swimming area by removing the rocks, trees, and add small gravel so you don't sink in the mud.
- You have a good amount of park hosts, but there are no park hosts around the tent areas. Only highly visible in the RV area where they are less needed due to age of typical RV travelers. The tent camping areas were loud and had constant dogs off leashes. For example the site next to us had more than 10 dogs off leash. Rangers and staff were at their campsite quite often and must have known them because nothing was done and nothing was said. Also, the quiet times were not enforced at all in the tent area. It got pretty rowdy nightly until 1 am almost every night. Park hosts more thoughtfully placed around the park would go a long way to prevent this.
- Yurts would be nice.

**APPENDIX B: QUESTIONNAIRES**

**Day Visitor Experiences and Perceptions  
at Detroit Lake State Recreation Areas**



**Please Complete this Survey and Return it as Soon as Possible**

Participation is Voluntary and Responses are Anonymous

Thank You for Your Participation

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A Study Conducted by:



*Nature*  
**HISTORY**  
*Discovery*

We are conducting this survey to learn about your experiences at Detroit Lake State Recreation Areas. Your input is important and will assist managers improve your experiences at this park. **Once you have completed this survey, please return it as soon as possible.**

1. Before this trip, had you ever visited Detroit Lake State Recreation Areas? (check **ONE**)
  - No
  - Yes → if yes, how many day trips have you made to this park in the past 12 months? (write number) \_\_\_\_\_ trip(s)
  
2. How many hours did you spend at Detroit Lake State Recreation Areas on this trip? (write number) \_\_\_\_\_ hour(s)
  
3. Please check **all** recreation activities you did at Detroit Lake State Recreation Areas on this trip. (check **ALL THAT APPLY**)
 

<input type="checkbox"/> A. Hiking or walking	<input type="checkbox"/> F. Sightseeing	<input type="checkbox"/> K. Boating (motor, canoe, kayak)
<input type="checkbox"/> B. Dog walking	<input type="checkbox"/> G. Picnicking or barbecuing	<input type="checkbox"/> L. Ranger-led program(s)
<input type="checkbox"/> C. Running or jogging	<input type="checkbox"/> H. Bird or wildlife watching	<input type="checkbox"/> M. Other (write response) _____
<input type="checkbox"/> D. Bicycling on local roads	<input type="checkbox"/> I. Fishing	_____
<input type="checkbox"/> E. Outdoor photography	<input type="checkbox"/> J. Swimming / wading	_____
  
4. From activities in Question 3 above, what **ONE primary activity** did you do at Detroit Lake State Recreation Areas on this trip? (write a letter that matches your response)  
 Letter for primary activity \_\_\_\_\_
  
5. Which of the following best describes the purpose of your trip? (check **ONE**)
  - Primarily for recreation – this park was my main destination
  - Primarily for recreation – my main destination was NOT this park
  - Primarily for business, family, or other reasons – this park was a side trip
  - Some other reason
  
6. About how far from your home did you travel to get to this park? (write number of miles) \_\_\_\_\_ mile(s)
  
7. Overall, how dissatisfied or satisfied were you with your **overall experience** at Detroit Lake State Recreation Areas? (check **ONE**)
 

<input type="checkbox"/> Very Dissatisfied	<input type="checkbox"/> Dissatisfied	<input type="checkbox"/> Neither	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Very Satisfied
--	---------------------------------------	----------------------------------	------------------------------------	---
  
8. How dissatisfied or satisfied were you with the **natural environment** at Detroit Lake State Recreation Areas? (check **ONE**)
 

<input type="checkbox"/> Very Dissatisfied	<input type="checkbox"/> Dissatisfied	<input type="checkbox"/> Neither	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Very Satisfied
--	---------------------------------------	----------------------------------	------------------------------------	---
  
9. How dissatisfied or satisfied were you with the **facilities / services** at Detroit Lake State Recreation Areas? (check **ONE**)
 

<input type="checkbox"/> Very Dissatisfied	<input type="checkbox"/> Dissatisfied	<input type="checkbox"/> Neither	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Very Satisfied
--	---------------------------------------	----------------------------------	------------------------------------	---
  
10. How dissatisfied or satisfied were you with the **rates that you paid** at Detroit Lake State Recreation Areas? (check **ONE**)
 

<input type="checkbox"/> Very Dissatisfied	<input type="checkbox"/> Dissatisfied	<input type="checkbox"/> Neither	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Very Satisfied
--	---------------------------------------	----------------------------------	------------------------------------	---
  
11. How unlikely or likely are you to return to Detroit Lake State Recreation Areas in the future? (check **ONE**)
 

<input type="checkbox"/> Very Unlikely	<input type="checkbox"/> Unlikely	<input type="checkbox"/> Neither	<input type="checkbox"/> Likely	<input type="checkbox"/> Very Likely
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12. How **important** is it to you that each of the following is at Detroit Lake SRA? (**circle one number for EACH**)

	Not Important		Neither		Extremely Important
Overall cleanliness of park (e.g., graffiti, lawn care).	1	2	3	4	5
Number of toilets / bathrooms.	1	2	3	4	5
Cleanliness / conditions of toilets / bathrooms.	1	2	3	4	5
Absence of litter.	1	2	3	4	5
Presence of park rangers / personnel.	1	2	3	4	5
Courteousness of park rangers / personnel.	1	2	3	4	5
Number of park trails.	1	2	3	4	5
Condition / maintenance of park trails.	1	2	3	4	5
Ease of movement or access (e.g., wheelchair, elderly, baby stroller).	1	2	3	4	5
Facilities for groups to gather.	1	2	3	4	5
Variety of things to do.	1	2	3	4	5
Opportunities for escaping crowds of people.	1	2	3	4	5
Personal safety.	1	2	3	4	5
Number of information / education programs or materials.	1	2	3	4	5
Quality of information / education programs or materials.	1	2	3	4	5
Information specifically about conditions or hazards in the park.	1	2	3	4	5
Signs about directions within the park.	1	2	3	4	5
Signs about directions to the park.	1	2	3	4	5
Parking for vehicles.	1	2	3	4	5
Good value for the rates that I paid at the park.	1	2	3	4	5

13. Now, how **dissatisfied or satisfied** were you with the following at Detroit Lake SRA? (**circle a number for EACH**)

	Very Dissatisfied	Dissatisfied	Neither	Satisfied	Very Satisfied
Overall cleanliness of park (e.g., graffiti, lawn care).	1	2	3	4	5
Number of toilets / bathrooms.	1	2	3	4	5
Cleanliness / conditions of toilets / bathrooms.	1	2	3	4	5
Absence of litter.	1	2	3	4	5
Presence of park rangers / personnel.	1	2	3	4	5
Courteousness of park rangers / personnel.	1	2	3	4	5
Number of park trails.	1	2	3	4	5
Condition / maintenance of park trails.	1	2	3	4	5
Ease of movement or access (e.g., wheelchair, elderly, stroller).	1	2	3	4	5
Facilities for groups to gather.	1	2	3	4	5
Variety of things to do.	1	2	3	4	5
Opportunities for escaping crowds of people.	1	2	3	4	5
Personal safety.	1	2	3	4	5
Number of information / education programs or materials.	1	2	3	4	5
Quality of information / education programs or materials.	1	2	3	4	5
Information specifically about conditions or hazards in the park.	1	2	3	4	5
Signs about directions within the park.	1	2	3	4	5
Signs about directions to the park.	1	2	3	4	5
Parking for vehicles.	1	2	3	4	5
Good value for the rates that I paid at the park.	1	2	3	4	5

14. To what extent do you **oppose or support** each of the following possible management actions at Detroit Lake SRA?  
**(circle one number for EACH)**

	Strongly Oppose	Oppose	Neither	Support	Strongly Support
Provide more opportunities for escaping crowds of people.	1	2	3	4	5
Provide more opportunities for viewing wildlife.	1	2	3	4	5
Food for sale (restaurants, snack shops, etc.)	1	2	3	4	5
Provide more group picnic areas.	1	2	3	4	5
Provide more opportunities for hiking.	1	2	3	4	5
Provide more paved trails.	1	2	3	4	5
Provide more trash cans.	1	2	3	4	5
Provide more recycling containers.	1	2	3	4	5
Provide more information / education about nature, history, or archeology.	1	2	3	4	5
Provide more programs led by park rangers.	1	2	3	4	5
Provide wireless internet access within the park.	1	2	3	4	5
Provide downloadable mobile phone applications.	1	2	3	4	5
Provide more enclosed shelters.	1	2	3	4	5
Improve maintenance or upkeep of facilities / services.	1	2	3	4	5
Require all dogs be kept on leash at all times.	1	2	3	4	5
Make the park more pet friendly.	1	2	3	4	5
Provide natural buffers to block views of development outside the park.	1	2	3	4	5
Restore it to historical conditions (e.g., replace non-native with native plants)	1	2	3	4	5
Limit the number of people allowed per day.	1	2	3	4	5
Limit the number of large groups allowed (e.g., no more than 10-20 people).	1	2	3	4	5
Close this park to all recreation / tourism activities.	1	2	3	4	5
Do not change anything / keep things as they are now.	1	2	3	4	5

As agency budgets for management of this park decrease over time, we may be faced with difficult decisions related to service reductions. Before making any changes, however, we feel that it is important to know what changes would be supported or opposed by current visitors. As a result, the following questions list various hypothetical changes that managers could make in the future. Please indicate your level of opposition or support to these possible changes.

15. To what extent would you **oppose or support** each of the following possible service reductions at Detroit Lake SRA?  
**(circle one number for EACH)**

	Strongly Oppose	Oppose	Neither	Support	Strongly Support
Fewer hours open.	1	2	3	4	5
Fewer ranger patrols.	1	2	3	4	5
Fewer ranger-led programs.	1	2	3	4	5
Scaled down facilities (e.g., fewer restrooms, picnic shelters).	1	2	3	4	5
Reduced janitorial services.	1	2	3	4	5
Reduced ground maintenance (e.g., mowing, landscaping).	1	2	3	4	5

16. To what extent did you feel crowded at Detroit Lake State Recreation Areas on this trip? (circle a number)

1	2	3	4	5	6	7	8	9
Not at all Crowded		Slightly Crowded		Moderately Crowded		Extremely Crowded		

17. **Including yourself**, how many people accompanied you at Detroit Lake State Recreation Areas on this trip? \_\_\_\_\_ person(s)

18. Did you or anyone in your group bring dog(s) with you to Detroit Lake SRA? (check **ONE**)  No  Yes

19. Did anyone in your group have a disability?

- No  
 Yes → if yes, what are these disabilities? (check **ALL THAT APPLY**)  Hearing  Sight  Walking  
 Learning  Other \_\_\_\_\_

20. When you were thinking about visiting an Oregon State Park such as Detroit Lake State Recreation Areas, about how often did you obtain information from each of the following sources when making your decision? (circle one number for **EACH**)

	Never		Sometimes		Often
A. Official internet websites (e.g., Oregon State Parks, Travel Oregon).	1	2	3	4	5
B. Social media internet websites (e.g., Facebook, Twitter).	1	2	3	4	5
C. Brochures.	1	2	3	4	5
D. Newspapers.	1	2	3	4	5
E. Magazines.	1	2	3	4	5
F. Books.	1	2	3	4	5
G. Television.	1	2	3	4	5
H. Videos / DVDs.	1	2	3	4	5
I. Radio.	1	2	3	4	5
J. Community organization or church.	1	2	3	4	5
K. Health care providers.	1	2	3	4	5
L. Work.	1	2	3	4	5
M. Friends or family members.	1	2	3	4	5
N. Highway signs.	1	2	3	4	5
O. Previous visit.	1	2	3	4	5
P. Other (write response) _____	1	2	3	4	5

21. From the list of sources in question 20 above, which **ONE** would you use **FIRST** when obtaining information about an Oregon State Park? (write letter)

Letter \_\_\_\_\_

22. When planning your visit to Detroit Lake SRA, were you able to find the information you needed? (check **ONE**)

- Yes  
 No → if no, what additional information did you need? (write response) \_\_\_\_\_

23. How did you get to Detroit Lake State Recreation Areas on this trip? (**check ONE**)

- My family's personal vehicle → how many total people were in the vehicle? \_\_\_\_\_ person(s)
- Somebody else's personal vehicle → how many total people were in the vehicle? \_\_\_\_\_ person(s)
- By boat → how many total people were in the boat? \_\_\_\_\_ person(s)
- Other (write response) \_\_\_\_\_  
 \_\_\_\_\_ → how many total people were in the vehicle? \_\_\_\_\_ person(s)

24. If you had NOT been able to go to Detroit Lake State Recreation Areas for this visit, what would you have done? (**check ONE**)

- Gone somewhere else for the same activity → how far from home is the place you would go instead? \_\_\_\_\_ miles(s)
- Gone somewhere else for a different activity → how far from home is the place you would go instead? \_\_\_\_\_ miles(s)
- Come back another time
- Stayed home
- Gone to work at my regular job
- Something else (none of these)

25. If you had NOT been able to go to Detroit Lake State Recreation Areas for this visit, what other park(s) would you have considered going to instead? (**list park names**) \_\_\_\_\_

26. Would you recommend a Detroit Lake State Recreation Areas visit to friends or family members? (**check ONE**)

- Yes
- No → if no, why not? (**write response**) \_\_\_\_\_

27. What do you feel are the most outstanding features or things to do at Detroit Lake State Recreation Areas? (write response)

28. If Oregon State Parks offered weekend programs for beginners to learn basic outdoor skills, would you/your family consider participating in such a program at a nearby park?

- No
- Yes → if yes, what types of activities would you/your family be interested in learning about? (**check ALL THAT APPLY**)

- Birding     Disc golfing     Hiking                       Mountain biking     Scenic bicycling on roads
- Camping     Fishing                       Horseback riding     Rafting                       Stargazing
- Canoeing     Geocaching     Kayaking                       Rock climbing     Other \_\_\_\_\_

29. During your visit to this park, did you or members of your personal group use a concession service/activity such as a guided trip/tour (e.g., fishing, rafting, bicycling, scenic, historic) or equipment rental (e.g., kayak, bicycle)?

- No
- Yes → if yes, what type of concession service/activity (**write response**) \_\_\_\_\_

30. Did you participate in any moderate physical activity during this trip (for example walking, bicycling, canoeing at a moderate pace)? (check **ONE**)

- No
- Yes → if yes, how much time did you spend in moderate physical activity for this trip? \_\_\_\_\_ minutes

31. Did you participate in any vigorous physical activity during this trip (for example jogging, walking, or bicycling at a vigorous pace, breaking a sweat, heart beating rapidly)? (check **ONE**)

- No
- Yes → if yes, how much time did you spend in vigorous physical activity for this trip? \_\_\_\_\_ minutes

32. Is your level of physical activity at Detroit Lake State Recreation Areas more than, less than, or about the same as your level of physical activity in your day-to-day life? (check **ONE**)

- My physical activity is MORE at Detroit Lake State Recreation Areas than my daily life.
- My physical activity is LESS at Detroit Lake State Recreation Areas than in my daily life.
- My physical activity is ABOUT THE SAME at Detroit Lake State Recreation Areas as it is in my daily life.

33. To what degree did this Detroit Lake State Recreation Areas visit result in the following health benefits for you? (circle one number for EACH)

	Not at all					A great deal
A. Reducing your stress.	1	2	3	4	5	
B. Improving your level of physical fitness.	1	2	3	4	5	
C. Improving your physical health.	1	2	3	4	5	
D. Improving your mental health.	1	2	3	4	5	
E. Reducing your anxiety.	1	2	3	4	5	

34. For each of the following categories, please estimate how much you and other members of your party spent and plan to spend on this trip both inside the Park and within **30 miles** of Detroit Lake State Recreation Areas. **Please round off to the nearest dollar.**

- Motel, lodge, cabin, B&B, other lodging: \$ \_\_\_\_\_ .00
- Camping: \$ \_\_\_\_\_ .00
- Restaurants and bars: \$ \_\_\_\_\_ .00
- Groceries: \$ \_\_\_\_\_ .00
- Gasoline and oil: \$ \_\_\_\_\_ .00
- Park entry, parking, or recreation use fees: \$ \_\_\_\_\_ .00
- Recreation and equipment (guide fees, equipment rental): \$ \_\_\_\_\_ .00
- Souvenirs, clothing, and other miscellaneous: \$ \_\_\_\_\_ .00

35. Are you staying away from home either inside the Park or within 30 miles of Detroit Lake State Recreation Areas on this trip? (**check ONE**)

No

Yes → if yes, how many nights are you staying away from home inside the Park or within 30 miles of this Park?  
 \_\_\_\_\_ night(s)

36. Considering the amount that you spent on this trip, how much more would you have spent on this trip before deciding not to take it? \$ \_\_\_\_\_

37. Are you: (**check ONE**)     Male     Female

38. How old are you? (**write response**)    \_\_\_\_\_ years old

39. Which of the following best describes you? (**check ONE**)

White (Caucasian)

Hispanic / Latino

American Indian or Alaskan Native

Other (write response)

Black / African American

Asian

Native Hawaiian or Pacific Islander

\_\_\_\_\_

40. What language is spoken most often at your home? (**check ONE**)

English

Spanish

Russian

Other (write response) \_\_\_\_\_

41. Where do you live? (**write responses**)    City / town \_\_\_\_\_    State \_\_\_\_\_    Country \_\_\_\_\_    Zipcode \_\_\_\_\_

42. Which of these broad categories best describes your *current annual household income before taxes*? (**check ONE**)

Less than \$10,000

\$90,000 to \$109,999

\$10,000 to \$29,999

\$110,000 to \$129,999

\$30,000 to \$49,999

\$130,000 to \$149,999

\$50,000 to \$69,999

\$150,000 to \$169,999

\$70,000 to \$89,999

\$170,000 or more

Please tell us how we can improve Detroit Lake State Recreation Areas:

Thank you, your input is important! ***Please return this survey as soon as possible.***

# Overnight Visitor Experiences and Perceptions at Detroit Lake State Recreation Areas



**Please Complete this Survey and Return it as Soon as Possible**

Participation is Voluntary and Responses are Anonymous

Thank You for Your Participation

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A Study Conducted by:



*Nature*  
**HISTORY**  
*Discovery*

We are conducting this survey to learn about your experiences at Detroit Lake State Recreation Areas. Your input is important and will assist managers improve your experiences at this park. **Once you complete this survey, please return it as soon as possible.**

1. Before this trip, had you ever visited Detroit Lake State Recreation Areas? (check **ONE**)
  - No
  - Yes → if yes, how many trips have you made to this park in the past 12 months? (write number) \_\_\_\_\_ trip(s)
  
2. How many nights in a row did you spend at Detroit Lake State Recreation Areas on this trip? (write number) \_\_\_\_\_ night(s)
  
3. Please check **all** recreation activities you did at Detroit Lake State Recreation Areas on this trip. (check **ALL THAT APPLY**)
 

<input type="checkbox"/> A. Hiking or walking	<input type="checkbox"/> G. Playing volleyball	<input type="checkbox"/> M. Boating (motor, canoe, kayak)
<input type="checkbox"/> B. Dog walking	<input type="checkbox"/> H. Playing horseshoes	<input type="checkbox"/> N. Fishing
<input type="checkbox"/> C. Running or jogging	<input type="checkbox"/> I. Sightseeing	<input type="checkbox"/> O. Swimming / wading
<input type="checkbox"/> D. Bicycling on local roads	<input type="checkbox"/> J. Picnicking or barbecuing	<input type="checkbox"/> P. Ranger-led program(s)
<input type="checkbox"/> E. Outdoor photography	<input type="checkbox"/> K. Camping	<input type="checkbox"/> Q. Other (write response) _____
<input type="checkbox"/> F. Playing basketball	<input type="checkbox"/> L. Bird or wildlife watching	_____
  
4. From activities in Question 3 above, what **ONE primary activity** did you do at Detroit Lake State Recreation Areas on this trip?  
 (write a letter that matches your response)  
 Letter for primary activity \_\_\_\_\_
  
5. Which of the following best describes the purpose of your trip? (check **ONE**)
  - Primarily for recreation – this park was my main destination
  - Primarily for recreation – my main destination was NOT this park
  - Primarily for business, family, or other reasons – this park was a side trip
  - Some other reason
  
6. About how far from your home did you travel to get to this park? (write number of miles) \_\_\_\_\_ mile(s)
  
7. Overall, how dissatisfied or satisfied were you with your ***overall experience*** at Detroit Lake State Recreation Areas? (check **ONE**)
  - Very Dissatisfied       Dissatisfied       Neither       Satisfied       Very Satisfied
  
8. How dissatisfied or satisfied were you with the ***natural environment*** at Detroit Lake State Recreation Areas? (check **ONE**)
  - Very Dissatisfied       Dissatisfied       Neither       Satisfied       Very Satisfied
  
9. How dissatisfied or satisfied were you with the ***facilities / services*** at Detroit Lake State Recreation Areas? (check **ONE**)
  - Very Dissatisfied       Dissatisfied       Neither       Satisfied       Very Satisfied
  
10. How dissatisfied or satisfied were you with the ***rates that you paid*** at Detroit Lake State Recreation Areas? (check **ONE**)
  - Very Dissatisfied       Dissatisfied       Neither       Satisfied       Very Satisfied
  
11. How unlikely or likely are you to return to Detroit Lake State Recreation Areas in the future? (check **ONE**)
  - Very Unlikely       Unlikely       Neither       Likely       Very Likely

12. How **important** is it to you that each of the following is at Detroit Lake State Recreation Areas? (**circle one number for EACH**)

	Not Important		Neither		Extremely Important
Overall cleanliness of park (e.g., graffiti, lawn care).	1	2	3	4	5
Number of toilets / bathrooms.	1	2	3	4	5
Cleanliness / conditions of toilets / bathrooms.	1	2	3	4	5
Absence of litter.	1	2	3	4	5
Presence of park rangers / personnel.	1	2	3	4	5
Courteousness of park rangers / personnel.	1	2	3	4	5
Number of park trails.	1	2	3	4	5
Condition / maintenance of park trails.	1	2	3	4	5
Ease of movement or access (e.g., wheelchair, elderly, baby stroller).	1	2	3	4	5
Facilities for groups to gather.	1	2	3	4	5
Variety of things to do.	1	2	3	4	5
Opportunities to escape crowds of people.	1	2	3	4	5
Personal safety.	1	2	3	4	5
Number of information / education programs or materials.	1	2	3	4	5
Quality of information / education programs or materials.	1	2	3	4	5
Information specifically about conditions or hazards in the park.	1	2	3	4	5
Signs about directions within the park.	1	2	3	4	5
Signs about directions to the park.	1	2	3	4	5
Parking for vehicles.	1	2	3	4	5
Comfort of campsites.	1	2	3	4	5
Shading provided by trees or other structures.	1	2	3	4	5
Good value for the rates that I paid at the park.	1	2	3	4	5

13. Now, how **dissatisfied or satisfied** were you with the following at Detroit Lake State Recreation Areas? (**circle a number for EACH**)

	Very Dissatisfied	Dissatisfied	Neither	Satisfied	Very Satisfied
Overall cleanliness of park (e.g., graffiti, lawn care).	1	2	3	4	5
Number of toilets / bathrooms.	1	2	3	4	5
Cleanliness / conditions of toilets / bathrooms.	1	2	3	4	5
Absence of litter.	1	2	3	4	5
Presence of park rangers / personnel.	1	2	3	4	5
Courteousness of park rangers / personnel.	1	2	3	4	5
Number of park trails.	1	2	3	4	5
Condition / maintenance of park trails.	1	2	3	4	5
Ease of movement or access (e.g., wheelchair, elderly, stroller).	1	2	3	4	5
Facilities for groups to gather.	1	2	3	4	5
Variety of things to do.	1	2	3	4	5
Opportunities to escape crowds of people.	1	2	3	4	5
Personal safety.	1	2	3	4	5
Number of information / education programs or materials.	1	2	3	4	5
Quality of information / education programs or materials.	1	2	3	4	5
Information specifically about conditions or hazards in the park.	1	2	3	4	5
Signs about directions within the park.	1	2	3	4	5
Signs about directions to the park.	1	2	3	4	5
Parking for vehicles.	1	2	3	4	5
Comfort of campsites.	1	2	3	4	5
Shading provided by trees or other structures.	1	2	3	4	5
Good value for the rates that I paid at the park.	1	2	3	4	5

14. To what extent did you feel crowded at Detroit Lake State Recreation Areas on this trip? (circle a number)

1	2	3	4	5	6	7	8	9
Not at all Crowded		Slightly Crowded			Moderately Crowded		Extremely Crowded	

15. To what extent do you **oppose or support** each of the following possible management actions at Detroit Lake SRA? (circle one number for EACH)

	Strongly Oppose	Oppose	Neither	Support	Strongly Support
Provide more opportunities for escaping crowds of people.	1	2	3	4	5
Provide more opportunities for viewing wildlife.	1	2	3	4	5
Food for sale (restaurants, snack shops, etc.)	1	2	3	4	5
Provide more group picnic areas.	1	2	3	4	5
Provide more opportunities for hiking.	1	2	3	4	5
Provide more paved trails.	1	2	3	4	5
Provide more trash cans.	1	2	3	4	5
Provide more recycling containers.	1	2	3	4	5
Provide more information / education about nature, history, or archeology.	1	2	3	4	5
Provide more programs led by park rangers.	1	2	3	4	5
Provide wireless internet access within the park.	1	2	3	4	5
Provide downloadable mobile phone applications.	1	2	3	4	5
Provide enclosed shelters.	1	2	3	4	5
Improve maintenance or upkeep of facilities / services.	1	2	3	4	5
Require all dogs be kept on leash at all times.	1	2	3	4	5
Make the park more pet friendly.	1	2	3	4	5
Provide natural buffers to block views of development outside the park.	1	2	3	4	5
Restore it to historical conditions (e.g., replace non-native with native plants)	1	2	3	4	5
Limit the number of people allowed per day.	1	2	3	4	5
Limit the number of large groups allowed (e.g., no more than 10-20 people).	1	2	3	4	5
Close this park to all recreation / tourism activities.	1	2	3	4	5
Provide more space between campsites.	1	2	3	4	5
Provide more walk-in / cart-in campsites.	1	2	3	4	5
Provide more tent camping in developed campgrounds.	1	2	3	4	5
Provide campsites that accommodate both RV and tent camping.	1	2	3	4	5
Provide more group camping areas.	1	2	3	4	5
Increase enforcement of campground quiet hours (10 p.m. – 7 a.m.)	1	2	3	4	5
Do not change anything / keep things as they are now.	1	2	3	4	5

16. Did you make your reservation for your recent overnight visit to Detroit Lake SRA using the Oregon State Parks telephone or internet reservation system? (check ONE)

- Telephone reservation system       Internet reservation system       I did not make the reservation

17. How dissatisfied or satisfied were you with the reservation system for your trip to Detroit Lake SRA? (check ONE)

- Very Dissatisfied     Dissatisfied     Neither     Satisfied     Very Satisfied     Didn't make reservation

As agency budgets for management of this park decrease over time, we may be faced with difficult decisions related to service reductions. Before making any changes, however, we feel that it is important to know what changes would be supported or opposed by current visitors. As a result, the following questions list various hypothetical changes that managers could make in the future. Please indicate your level of opposition or support to these possible changes.

18. To what extent would you **oppose or support** each of the following possible service reductions at Detroit Lake State Recreation Areas?

**(circle one number for EACH)**

	Strongly Oppose	Oppose	Neither	Support	Strongly Support
Fewer hours open.	1	2	3	4	5
Fewer ranger patrols.	1	2	3	4	5
Fewer ranger-led programs.	1	2	3	4	5
Scaled down facilities (e.g., fewer restrooms, picnic shelters).	1	2	3	4	5
Reduced janitorial services.	1	2	3	4	5
Reduced ground maintenance (e.g., mowing, landscaping).	1	2	3	4	5

19. **Including yourself**, how many people accompanied you at Detroit Lake State Recreation Areas on this trip? \_\_\_\_\_ person(s)

20. Did you or anyone in your group bring dog(s) with you to Detroit Lake SRA? (**check ONE**)  No  Yes

21. Did anyone in your group have a disability?

No

Yes → if yes, what are these disabilities? (**check ALL THAT APPLY**)  Hearing  Sight  Walking  
 Learning  Other \_\_\_\_\_

22. If you had NOT been able to go to Detroit Lake State Recreation Areas for this visit, what would you have done? (**check ONE**)

- Gone somewhere else for the same activity → how far from home is the place you would go instead? \_\_\_\_\_ miles(s)
- Gone somewhere else for a different activity → how far from home is the place you would go instead? \_\_\_\_\_ miles(s)
- Come back another time
- Stayed home
- Gone to work at my regular job
- Something else (none of these)

23. If you had NOT been able to go to Detroit Lake State Recreation Areas for this visit, what other park(s) would you have considered going to instead? (**list park names**) \_\_\_\_\_

24. How did you get to Detroit Lake State Recreation Areas on this trip? (**check ONE**)

- My family's personal vehicle → how many total people were in the vehicle? \_\_\_\_\_ person(s)
- Somebody else's personal vehicle → how many total people were in the vehicle? \_\_\_\_\_ person(s)
- Other (write response) \_\_\_\_\_  
 \_\_\_\_\_ → how many total people were in the vehicle? \_\_\_\_\_ person(s)

25. When you were thinking about visiting an Oregon State Park such as Detroit Lake State Recreation Areas, about how often did you obtain information from each of the following sources when making your decision? (**circle one number for EACH**)

	Never		Sometimes		Often
A. Official internet websites (e.g., Oregon State Parks, Travel Oregon).	1	2	3	4	5
B. Social media internet websites (e.g., Facebook, Twitter).	1	2	3	4	5
C. Brochures.	1	2	3	4	5
D. Newspapers.	1	2	3	4	5
E. Magazines.	1	2	3	4	5
F. Books.	1	2	3	4	5
G. Television.	1	2	3	4	5
H. Videos / DVDs.	1	2	3	4	5
I. Radio.	1	2	3	4	5
J. Community organization or church.	1	2	3	4	5
K. Health care providers.	1	2	3	4	5
L. Work.	1	2	3	4	5
M. Friends or family members.	1	2	3	4	5
N. Highway signs.	1	2	3	4	5
O. Previous visit.	1	2	3	4	5
P. Other (write response) _____	1	2	3	4	5

26. From the list of sources in question 25 above, which **ONE** would you use **FIRST** when obtaining information about an Oregon State Park? (**write letter**)

Letter \_\_\_\_\_

27. When planning your visit to Detroit Lake SRA, were you able to find the information you needed? (**check ONE**)

- Yes
- No → if no, what additional information did you need? (**write response**) \_\_\_\_\_

28. Would you recommend a Detroit Lake State Recreation Areas overnight visit to friends or family members? (**check ONE**)

- Yes
- No → if no, why not? (**write response**) \_\_\_\_\_

29. What do you feel are the most outstanding features or things to do at Detroit Lake State Recreation Areas? (write response)

\_\_\_\_\_

\_\_\_\_\_

30. What type of campsite(s) did you use on your most recent trip to Detroit Lake SRA? (**check ALL THAT APPLY**)

- RV campsite
- Cabin
- Group RV camp
- Hiker / biker campsite
- Tent campsite
- Yurt
- Group tent camp
- Other (write response) \_\_\_\_\_

31. If you were to stay at a RV campsite, what type of power supply would you require? (**check ONE**)

- 30 amps                       50 amps                       100 amps                       No electric power needed

32. If you were to stay at an RV campsite, how important are electric, water, and sewer hookups? (**circle one number for EACH**)

	Not Important		Neither		Extremely Important
Electric hookups.	1	2	3	4	5
Water hookups.	1	2	3	4	5
Sewer hookups.	1	2	3	4	5

33. If Oregon State Parks offered weekend programs for beginners to learn basic outdoor skills, would you/your family consider participating in such a program at a nearby park?

- No  
 Yes → if yes, what types of activities would you/your family be interested in learning about? (**check ALL THAT APPLY**)
- Birding     Disc golfing     Hiking                       Mountain biking     Scenic bicycling on roads  
 Camping     Fishing                       Horseback riding     Rafting                       Stargazing  
 Canoeing     Geocaching     Kayaking                       Rock climbing     Other \_\_\_\_\_

34. During your visit to this park, did you or members of your personal group use a concession service/activity such as a guided trip/tour (e.g., fishing, rafting, bicycling, scenic, historic) or equipment rental (e.g., kayak, bicycle)?

- No  
 Yes → if yes, what type of concession service/activity (write in response)
- 

35. Did you participate in any moderate physical activity during this trip (for example walking, bicycling, canoeing at a moderate pace)? (**check ONE**)

- No  
 Yes → if yes, how much time did you spend in moderate physical activity for this trip? \_\_\_\_\_ minutes

36. Did you participate in any vigorous physical activity during this trip (for example jogging, walking, or bicycling at a vigorous pace, breaking a sweat, heart beating rapidly)? (**check ONE**)

- No  
 Yes → if yes, how much time did you spend in vigorous physical activity for this trip? \_\_\_\_\_ minutes

37. Is your level of physical activity at Detroit Lake State Recreation Areas more than, less than, or about the same as your level of physical activity in your day-to-day life? (**check ONE**)

- My physical activity is MORE at Detroit Lake State Recreation Areas than my daily life.  
 My physical activity is LESS at Detroit Lake State Recreation Areas than in my daily life.  
 My physical activity is ABOUT THE SAME at Detroit Lake State Recreation Areas as it is in my daily life.

38. To what degree did this Detroit Lake State Recreation Areas visit result in the following health benefits for you? (**circle one number for EACH**)

	Not at all				A great deal
A. Reducing your stress.	1	2	3	4	5
B. Improving your level of physical fitness.	1	2	3	4	5
C. Improving your physical health.	1	2	3	4	5
D. Improving your mental health.	1	2	3	4	5
E. Reducing your anxiety.	1	2	3	4	5

39. For each of the following categories, please estimate how much you and other members of your party spent on your trip both inside the Park and within **30 miles** of Detroit Lake State Recreation Areas. *Please round off to the nearest dollar.*

- Motel, lodge, cabin, B&B, other lodging: \$ \_\_\_\_\_ .00
- Camping: \$ \_\_\_\_\_ .00
- Restaurants and bars: \$ \_\_\_\_\_ .00
- Groceries: \$ \_\_\_\_\_ .00
- Gasoline and oil: \$ \_\_\_\_\_ .00
- Park entry, parking, or recreation use fees: \$ \_\_\_\_\_ .00
- Recreation and equipment (guide fees, equipment rental): \$ \_\_\_\_\_ .00
- Souvenirs, clothing, and other miscellaneous: \$ \_\_\_\_\_ .00

40. Are you staying away from home either inside the Park or within 30 miles of Detroit Lake State Recreation Areas on this trip? (**check ONE**)

- No
- Yes → if yes, how many nights are you staying away from home inside the Park or within 30 miles of this Park?  
\_\_\_\_\_ night(s)

41. Considering the amount that you spent on this trip, how much more would you have spent on this trip before deciding not to take it? \$ \_\_\_\_\_

42. Are you: (**check ONE**)  Male  Female

43. How old are you? (**write response**) \_\_\_\_\_ years old

44. Which of the following best describes you? (**check ONE**)

- White (Caucasian)  Hispanic / Latino  American Indian or Alaskan Native  Other (write response)
- Black / African American  Asian  Native Hawaiian or Pacific Islander \_\_\_\_\_

45. What language is spoken most often at your home? (**check ONE**)

- English  Spanish  Russian  Other (write response) \_\_\_\_\_

46. Where do you live? (**write responses**) City / town \_\_\_\_\_ State \_\_\_\_\_ Country \_\_\_\_\_ Zipcode \_\_\_\_\_

47. Which of these broad categories best describes your **current annual household income before taxes?** (**check ONE**)

- |   |   |
|---|---|
| <input type="checkbox"/> Less than \$10,000   | <input type="checkbox"/> \$90,000 to \$109,999  |
| <input type="checkbox"/> \$10,000 to \$29,999 | <input type="checkbox"/> \$110,000 to \$129,999 |
| <input type="checkbox"/> \$30,000 to \$49,999 | <input type="checkbox"/> \$130,000 to \$149,999 |
| <input type="checkbox"/> \$50,000 to \$69,999 | <input type="checkbox"/> \$150,000 to \$169,999 |
| <input type="checkbox"/> \$70,000 to \$89,999 | <input type="checkbox"/> \$170,000 or more      |

Please tell us how we can improve Detroit Lake State Recreation Areas:

Thank you, your input is important! *Please return this survey as soon as possible.*

**APPENDIX C: UNCOLLAPSED PERCENTAGES**

**Day Visitor Experiences and Perceptions  
at Detroit Lake State Recreation Areas**



**Please Complete this Survey and Return it as Soon as Possible**

Participation is Voluntary and Responses are Anonymous

Thank You for Your Participation

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A Study Conducted by:



*Nature*  
**HISTORY**  
*Discovery*

We are conducting this survey to learn about your experiences at Detroit Lake State Recreation Areas. Your input is important and will assist managers improve your experiences at this park. **Once you have completed this survey, please return it as soon as possible.**

1. Before this trip, had you ever visited Detroit Lake State Recreation Areas? (check **ONE**)
  - 22% No
  - 78% Yes → if yes, how many day trips have you made to this park in the past 12 months? (write number) see report trip(s)
  
2. How many hours did you spend at Detroit Lake State Recreation Areas on this trip? (write number) M=5.39 hour(s)
  
3. Please check **all** recreation activities you did at Detroit Lake State Recreation Areas on this trip. (check **ALL THAT APPLY**)
 

32% <b>A.</b> Hiking or walking	28% <b>F.</b> Sightseeing	44% <b>K.</b> Boating (motor, canoe, kayak)
19% <b>B.</b> Dog walking	77% <b>G.</b> Picnicking or barbecuing	< 1% <b>L.</b> Ranger-led program(s)
6% <b>C.</b> Running or jogging	10% <b>H.</b> Bird or wildlife watching	8% <b>M.</b> Other (write response) _____
4% <b>D.</b> Bicycling on local roads	23% <b>I.</b> Fishing	_____
27% <b>E.</b> Outdoor photography	84% <b>J.</b> Swimming / wading	_____
  
4. From activities in Question 3 above, what **ONE primary activity** did you do at Detroit Lake State Recreation Areas on this trip? (write a letter that matches your response)
 

**Letter** for primary activity see report
  
5. Which of the following best describes the purpose of your trip? (check **ONE**)
  - 73% Primarily for recreation – this park was my main destination
  - 15% Primarily for recreation – my main destination was NOT this park
  - 9% Primarily for business, family, or other reasons – this park was a side trip
  - 3% Some other reason
  
6. About how far from your home did you travel to get to this park? (write number of miles) M = 126 mile(s)
  
7. Overall, how dissatisfied or satisfied were you with your **overall experience** at Detroit Lake State Recreation Areas? (check **ONE**)
 

1% Very Dissatisfied	0% Dissatisfied	2% Neither	40% Satisfied	56% Very Satisfied
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8. How dissatisfied or satisfied were you with the **natural environment** at Detroit Lake State Recreation Areas? (check **ONE**)
 

1% Very Dissatisfied	< 1% Dissatisfied	4% Neither	35% Satisfied	60% Very Satisfied
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9. How dissatisfied or satisfied were you with the **facilities / services** at Detroit Lake State Recreation Areas? (check **ONE**)
 

1% Very Dissatisfied	3% Dissatisfied	10% Neither	47% Satisfied	40% Very Satisfied
----------------------	-----------------	-------------	---------------	--------------------
  
10. How dissatisfied or satisfied were you with the **rates that you paid** at Detroit Lake State Recreation Areas? (check **ONE**)
 

1% Very Dissatisfied	2% Dissatisfied	8% Neither	46% Satisfied	44% Very Satisfied
----------------------	-----------------	------------	---------------	--------------------
  
11. How unlikely or likely are you to return to Detroit Lake State Recreation Areas in the future? (check **ONE**)
 

1% Very Unlikely	2% Unlikely	3% Neither	17% Likely	77% Very Likely
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12. How **important** is it to you that each of the following is at Detroit Lake SRA? (**circle one number for EACH**)

	Not Important		Neither		Extremely Important
Overall cleanliness of park (e.g., graffiti, lawn care).	0%	1%	2%	28%	69%
Number of toilets / bathrooms.	< 1	2	10	31	56
Cleanliness / conditions of toilets / bathrooms.	0	1	4	24	72
Absence of litter.	< 1	< 1	5	32	63
Presence of park rangers / personnel.	2	4	26	38	30
Courteousness of park rangers / personnel.	0	2	9	37	51
Number of park trails.	6	8	32	31	23
Condition / maintenance of park trails.	4	7	26	33	30
Ease of movement or access (e.g., wheelchair, elderly, baby stroller).	5	5	26	30	33
Facilities for groups to gather.	4	6	23	33	35
Variety of things to do.	1	3	26	42	28
Opportunities for escaping crowds of people.	1	3	19	40	37
Personal safety.	< 1	1	8	36	55
Number of information / education programs or materials.	11	13	38	23	15
Quality of information / education programs or materials.	11	12	39	24	15
Information specifically about conditions or hazards in the park.	2	4	24	37	33
Signs about directions within the park.	2	3	16	45	35
Signs about directions to the park.	1	3	16	44	36
Parking for vehicles.	0	1	10	32	57
Good value for the rates that I paid at the park.	< 1	0	8	31	61

13. Now, how **dissatisfied or satisfied** were you with the following at Detroit Lake SRA? (**circle a number for EACH**)

	Very Dissatisfied	Dissatisfied	Neither	Satisfied	Very Satisfied
Overall cleanliness of park (e.g., graffiti, lawn care).	0%	2%	7%	46%	46%
Number of toilets / bathrooms.	0	2	7	47	43
Cleanliness / conditions of toilets / bathrooms.	< 1	4	12	41	43
Absence of litter.	< 1	2	9	42	47
Presence of park rangers / personnel.	1	< 1	12	38	49
Courteousness of park rangers / personnel.	0	1	11	30	59
Number of park trails.	1	2	36	38	23
Condition / maintenance of park trails.	1	1	34	39	25
Ease of movement or access (e.g., wheelchair, elderly, stroller).	3	5	26	37	29
Facilities for groups to gather.	2	4	24	40	30
Variety of things to do.	< 1	4	26	42	29
Opportunities for escaping crowds of people.	2	7	22	39	30
Personal safety.	< 1	1	11	44	44
Number of information / education programs or materials.	2	5	48	27	19
Quality of information / education programs or materials.	2	5	48	26	19
Information specifically about conditions or hazards in the park.	1	3	35	38	23
Signs about directions within the park.	1	3	28	41	27
Signs about directions to the park.	0	2	20	47	31
Parking for vehicles.	4	7	10	45	34
Good value for the rates that I paid at the park.	< 1	2	11	37	51

14. To what extent do you *oppose or support* each of the following possible management actions at Detroit Lake SRA?  
**(circle one number for EACH)**

	Strongly Oppose	Oppose	Neither	Support	Strongly Support
Provide more opportunities for escaping crowds of people.	< 1%	2%	19%	39%	41%
Provide more opportunities for viewing wildlife.	< 1	2	32	41	26
Food for sale (restaurants, snack shops, etc.)	9	14	25	33	18
Provide more group picnic areas.	0	2	26	41	31
Provide more opportunities for hiking.	< 1	2	40	39	18
Provide more paved trails.	2	7	46	30	16
Provide more trash cans.	1	< 1	24	49	25
Provide more recycling containers.	1	< 1	23	40	36
Provide more information / education about nature, history, or archeology.	1	3	43	33	20
Provide more programs led by park rangers.	2	5	57	25	11
Provide wireless internet access within the park.	13	11	32	22	22
Provide downloadable mobile phone applications.	11	10	36	24	19
Provide more enclosed shelters.	4	6	40	34	17
Improve maintenance or upkeep of facilities / services.	< 1	< 1	26	50	23
Require all dogs be kept on leash at all times.	5	7	19	33	36
Make the park more pet friendly.	5	6	33	37	20
Provide natural buffers to block views of development outside the park.	1	3	35	38	23
Restore it to historical conditions (e.g., replace non-native with native plants)	3	7	43	30	18
Limit the number of people allowed per day.	11	21	40	18	11
Limit the number of large groups allowed (e.g., no more than 10-20 people).	20	17	31	20	12
Close this park to all recreation / tourism activities.	55	16	16	8	5
Do not change anything / keep things as they are now.	4	12	33	30	21

As agency budgets for management of this park decrease over time, we may be faced with difficult decisions related to service reductions. Before making any changes, however, we feel that it is important to know what changes would be supported or opposed by current visitors. As a result, the following questions list various hypothetical changes that managers could make in the future. Please indicate your level of opposition or support to these possible changes.

15. To what extent would you *oppose or support* each of the following possible service reductions at Detroit Lake SRA?  
**(circle one number for EACH)**

	Strongly Oppose	Oppose	Neither	Support	Strongly Support
Fewer hours open.	44%	31%	16%	8%	1%
Fewer ranger patrols.	24	32	32	9	3
Fewer ranger-led programs.	14	16	40	23	7
Scaled down facilities (e.g., fewer restrooms, picnic shelters).	45	31	16	5	2
Reduced janitorial services.	46	36	14	3	2
Reduced ground maintenance (e.g., mowing, landscaping).	35	36	20	9	1

16. To what extent did you feel crowded at Detroit Lake State Recreation Areas on this trip? (circle a number)

21%	16%	15%	7%	10%	19%	5%	6%	2%
Not at all Crowded		Slightly Crowded			Moderately Crowded		Extremely Crowded	

17. **Including yourself**, how many people accompanied you at Detroit Lake State Recreation Areas on this trip? see report person(s)

18. Did you or anyone in your group bring dog(s) with you to Detroit Lake SRA? (check ONE) 66% No 34% Yes

19. Did anyone in your group have a disability?

80% No

20% Yes → if yes, what are these disabilities? (check ALL THAT APPLY) 3% Hearing 1% Sight 9% Walking  
4% Learning 7% Other \_\_\_\_\_

20. When you were thinking about visiting an Oregon State Park such as Detroit Lake State Recreation Areas, about how often did you obtain information from each of the following sources when making your decision? (circle one number for EACH)

	Never		Sometimes		Often
A. Official internet websites (e.g., Oregon State Parks, Travel Oregon).	26%	7%	24%	11%	32%
B. Social media internet websites (e.g., Facebook, Twitter).	52	9	20	7	14
C. Brochures.	57	13	20	6	4
D. Newspapers.	69	13	13	2	3
E. Magazines.	69	14	12	3	2
F. Books.	70	14	13	2	2
G. Television.	71	12	13	2	2
H. Videos / DVDs.	76	11	11	1	1
I. Radio.	71	11	11	5	2
J. Community organization or church.	71	12	11	4	2
K. Health care providers.	77	13	7	2	1
L. Work.	65	13	13	6	4
M. Friends or family members.	22	6	17	23	32
N. Highway signs.	33	11	22	19	15
O. Previous visit.	19	5	10	20	46
P. Other (write response) _____	61	11	13	4	12

21. From the list of sources in question 20 above, which ONE would you use FIRST when obtaining information about an Oregon State Park? (write letter)

Letter see report

22. When planning your visit to Detroit Lake SRA, were you able to find the information you needed? (check ONE)

96% Yes

4% No → if no, what additional information did you need? (write response) see report

23. How did you get to Detroit Lake State Recreation Areas on this trip? (**check ONE**)

- 95% My family's personal vehicle → how many total people were in the vehicle? M=4.04 person(s)
- 4% Somebody else's personal vehicle → how many total people were in the vehicle? M=4.71 person(s)
- 0% By boat → how many total people were in the boat? M=5.00 person(s)
- 1% Other (write response) \_\_\_\_\_  
 \_\_\_\_\_ → how many total people were in the vehicle? M=13.0 person(s)

24. If NOT been able to go to Detroit Lake State Recreation Areas for this visit, what would you have done?(**check ONE**)

- 45% Gone somewhere else for the same activity → how far from home is the place you would go instead? M=62 miles(s)
- 4% Gone somewhere else for a different activity → how far from home is the place you would go instead? M=54 miles(s)
- 12% Come back another time
- 23% Stayed home
- < 1% Gone to work at my regular job
- 8% Something else (none of these)

25. If you had NOT been able to go to Detroit Lake State Recreation Areas for this visit, what other park(s) would you have considered going to instead? (**list park names**) \_\_\_\_\_ see report

26. Would you recommend a Detroit Lake State Recreation Areas visit to friends or family members? (**check ONE**)

- 99% Yes
- 1% No → if no, why not? (**write response**) \_\_\_\_\_ see report

27. What do you feel are the most outstanding features or things to do at Detroit Lake State Recreation Areas? (write response)

\_\_\_\_\_ see report

28. If Oregon State Parks offered weekend programs for beginners to learn basic outdoor skills, would you/your family consider participating in such a program at a nearby park?

- 48% No
  - 52% Yes → if yes, what types of activities would you/your family be interested in learning about? (**check ALL THAT APPLY**)
- |              |                 |                      |                     |                               |
|--------------|-----------------|----------------------|---------------------|-------------------------------|
| 8% Birding   | 8% Disc golfing | 23% Hiking           | 14% Mountain biking | 10% Scenic bicycling on roads |
| 22% Camping  | 26% Fishing     | 24% Horseback riding | 27% Rafting         | 19% Stargazing                |
| 26% Canoeing | 8% Geocaching   | 27% Kayaking         | 13% Rock climbing   | 3% Other _____                |

29. During your visit to this park, did you or members of your personal group use a concession service/activity such as a guided trip/tour (e.g., fishing, rafting, bicycling, scenic, historic) or equipment rental (e.g., kayak, bicycle)?

- 93% No
- 7% Yes → if yes, what type of concession service/activity (**write response**)  
 \_\_\_\_\_ see report

30. Did you participate in any moderate physical activity during this trip (for example walking, bicycling, canoeing at a moderate pace)? (check ONE)

60% No

40% Yes → if yes, how much time did you spend in moderate physical activity for this trip? M=70.53 minutes

31. Did you participate in any vigorous physical activity during this trip (for example jogging, walking, or bicycling at a vigorous pace, breaking a sweat, heart beating rapidly)? (check ONE)

89% No

11% Yes → if yes, how much time did you spend in vigorous physical activity for this trip? M=99.76 minutes

32. Is your level of physical activity at Detroit Lake State Recreation Areas more than, less than, or about the same as your level of physical activity in your day-to-day life? (check ONE)

23% My physical activity is MORE at Detroit Lake State Recreation Areas than my daily life.

36% My physical activity is LESS at Detroit Lake State Recreation Areas than in my daily life.

41% My physical activity is ABOUT THE SAME at Detroit Lake State Recreation Areas as it is in my daily life.

33. To what degree did this Detroit Lake State Recreation Areas visit result in the following health benefits for you? (circle one number for EACH)

	Not at all			A great deal	
A. Reducing your stress.	1%	1%	12%	32%	54%
B. Improving your level of physical fitness.	13	16	30	22	19
C. Improving your physical health.	9	12	33	24	23
D. Improving your mental health.	2	1	14	39	44
E. Reducing your anxiety.	3	< 1	19	34	44

34. For each of the following categories, please estimate how much you and other members of your party spent and plan to spend on this trip both inside the Park and within 30 miles of Detroit Lake State Recreation Areas. *Please round off to the nearest dollar.*

Motel, lodge, cabin, B&B, other lodging:	\$ <u>see report.00</u>
Camping:	\$ <u>      .00</u>
Restaurants and bars:	\$ <u>      .00</u>
Groceries:	\$ <u>      .00</u>
Gasoline and oil:	\$ <u>      .00</u>
Park entry, parking, or recreation use fees:	\$ <u>      .00</u>
Recreation and equipment (guide fees, equipment rental):	\$ <u>      .00</u>
Souvenirs, clothing, and other miscellaneous:	\$ <u>      .00</u>

35. Are you staying away from home either inside the Park or within 30 miles of Detroit Lake State Recreation Areas on this trip? (check ONE)

68% No

32% Yes → if yes, how many nights are you staying away from home inside the Park or within 30 miles of this Park?

\_\_M=2.91\_\_ night(s)

36. Considering the amount that you spent on this trip, how much more would you have spent on this trip before deciding not to take it? \$ \_\_M=83.15\_\_

37. Are you: (check ONE) 34% Male 66% Female

38. How old are you? (write response) \_\_M=41\_\_ years old

39. Which of the following best describes you? (check ONE)

86% White (Caucasian) 8% Hispanic / Latino 2% American Indian or Alaskan Native 1% Other (write response)  
 1% Black / African American 1% Asian 2% Native Hawaiian or Pacific Islander \_\_\_\_\_

40. What language is spoken most often at your home? (check ONE)

95% English 3% Spanish 1% Russian < 1% Other (write response) \_\_\_\_\_

41. Where do you live? (write responses) City / town \_\_\_\_\_ State \_\_\_\_\_ Country \_\_\_\_\_ Zipcode see report \_

42. Which of these broad categories best describes your *current annual household income before taxes*? (check ONE)

4% Less than \$10,000	10% \$90,000 to \$109,999
8% \$10,000 to \$29,999	8% \$110,000 to \$129,999
17% \$30,000 to \$49,999	3% \$130,000 to \$149,999
23% \$50,000 to \$69,999	3% \$150,000 to \$169,999
19% \$70,000 to \$89,999	5% \$170,000 or more

Please tell us how we can improve Detroit Lake State Recreation Areas:

see report

Thank you, your input is important! ***Please return this survey as soon as possible.***

# Overnight Visitor Experiences and Perceptions at Detroit Lake State Recreation Areas



**Please Complete this Survey and Return it as Soon as Possible**

Participation is Voluntary and Responses are Anonymous

Thank You for Your Participation

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A Study Conducted by:



*Nature*  
**HISTORY**  
*Discovery*

We are conducting this survey to learn about your experiences at Detroit Lake State Recreation Areas. Your input is important and will assist managers improve your experiences at this park. **Once you complete this survey, please return it as soon as possible.**

1. Before this trip, had you ever visited Detroit Lake State Recreation Areas? (check **ONE**)
  - 27% No
  - 73% Yes → if yes, how many trips have you made to this park in the past 12 months? (write number)   M=1.72   trip(s)
  
2. How many nights in a row did you spend at Detroit Lake State Recreation Areas on this trip? (write number)   M=3.80   night(s)
  
3. Please check **all** recreation activities you did at Detroit Lake State Recreation Areas on this trip. (check **ALL THAT APPLY**)
 

65% <b>A.</b> Hiking or walking	5% <b>G.</b> Playing volleyball	62% <b>M.</b> Boating (motor, canoe, kayak)
42% <b>B.</b> Dog walking	5% <b>H.</b> Playing horseshoes	40% <b>N.</b> Fishing
8% <b>C.</b> Running or jogging	34% <b>I.</b> Sightseeing	81% <b>O.</b> Swimming / wading
22% <b>D.</b> Bicycling on local roads	57% <b>J.</b> Picnicking or barbecuing	14% <b>P.</b> Ranger-led program(s)
33% <b>E.</b> Outdoor photography	97% <b>K.</b> Camping	4% <b>Q.</b> Other (write response) _____
5% <b>F.</b> Playing basketball	14% <b>L.</b> Bird or wildlife watching	_____
  
4. From activities in Question 3 above, what **ONE primary activity** did you do at Detroit Lake State Recreation Areas on this trip? (write a letter that matches your response)  
**Letter** for primary activity   see report
  
5. Which of the following best describes the purpose of your trip? (check **ONE**)
  - 92% Primarily for recreation – this park was my main destination
  - 4% Primarily for recreation – my main destination was NOT this park
  - 2% Primarily for business, family, or other reasons – this park was a side trip
  - 2% Some other reason
  
6. About how far from your home did you travel to get to this park? (write number of miles)   M=128.97   mile(s)
  
7. Overall, how dissatisfied or satisfied were you with your **overall experience** at Detroit Lake State Recreation Areas? (check **ONE**)
 

3% Very Dissatisfied	2% Dissatisfied	2% Neither	43% Satisfied	49% Very Satisfied
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8. How dissatisfied or satisfied were you with the **natural environment** at Detroit Lake State Recreation Areas? (check **ONE**)
 

2% Very Dissatisfied	2% Dissatisfied	4% Neither	43% Satisfied	50% Very Satisfied
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9. How dissatisfied or satisfied were you with the **facilities / services** at Detroit Lake State Recreation Areas? (check **ONE**)
 

2% Very Dissatisfied	4% Dissatisfied	5% Neither	53% Satisfied	36% Very Satisfied
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10. How dissatisfied or satisfied were you with the **rates that you paid** at Detroit Lake State Recreation Areas? (check **ONE**)
 

1% Very Dissatisfied	4% Dissatisfied	9% Neither	52% Satisfied	34% Very Satisfied
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11. How unlikely or likely are you to return to Detroit Lake State Recreation Areas in the future? (check **ONE**)
 

3% Very Unlikely	2% Unlikely	4% Neither	25% Likely	67% Very Likely
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12. How **important** is it to you that each of the following is at Detroit Lake State Recreation Areas? (**circle one number for EACH**)

	Not Important		Neither		Extremely Important
Overall cleanliness of park (e.g., graffiti, lawn care).	0%	< 1%	1%	31%	67%
Number of toilets / bathrooms.	2	1	10	40	47
Cleanliness / conditions of toilets / bathrooms.	1	< 1	3	23	73
Absence of litter.	0	0	3	31	66
Presence of park rangers / personnel.	1	4	15	45	36
Courteousness of park rangers / personnel.	1	1	5	37	57
Number of park trails.	1	6	36	41	17
Condition / maintenance of park trails.	1	4	27	46	22
Ease of movement or access (e.g., wheelchair, elderly, baby stroller).	10	11	40	22	17
Facilities for groups to gather.	12	12	40	22	15
Variety of things to do.	3	3	25	46	24
Opportunities to escape crowds of people.	1	4	20	41	35
Personal safety.	< 1	1	7	29	63
Number of information / education programs or materials.	6	9	39	36	11
Quality of information / education programs or materials.	5	9	37	35	15
Information specifically about conditions or hazards in the park.	2	5	19	42	33
Signs about directions within the park.	3	4	20	46	27
Signs about directions to the park.	4	7	26	39	25
Parking for vehicles.	1	4	10	36	49
Comfort of campsites.	0	1	5	35	59
Shading provided by trees or other structures.	< 1	< 1	6	41	52
Good value for the rates that I paid at the park.	0	1	7	36	57

13. Now, how **dissatisfied or satisfied** were you with the following at Detroit Lake State Recreation Areas? (**circle a number for EACH**)

	Very Dissatisfied	Dissatisfied	Neither	Satisfied	Very Satisfied
Overall cleanliness of park (e.g., graffiti, lawn care).	< 1%	1%	3%	45%	52%
Number of toilets / bathrooms.	1	4	8	51	36
Cleanliness / conditions of toilets / bathrooms.	2	6	8	48	37
Absence of litter.	1	1	4	49	46
Presence of park rangers / personnel.	< 1	2	10	47	41
Courteousness of park rangers / personnel.	3	2	6	42	47
Number of park trails.	< 1	4	29	44	23
Condition / maintenance of park trails.	< 1	3	25	45	27
Ease of movement or access (e.g., wheelchair, elderly, stroller).	1	1	34	40	25
Facilities for groups to gather.	1	3	40	35	21
Variety of things to do.	1	1	20	49	29
Opportunities to escape crowds of people.	3	6	26	41	24
Personal safety.	< 1	2	8	48	43
Number of information / education programs or materials.	1	2	32	41	24
Quality of information / education programs or materials.	1	1	32	41	25
Information specifically about conditions or hazards in the park.	< 1	1	28	45	26
Signs about directions within the park.	1	1	19	50	29
Signs about directions to the park.	< 1	3	21	48	27
Parking for vehicles.	5	12	15	45	23
Comfort of campsites.	2	3	7	49	39
Shading provided by trees or other structures.	1	3	8	49	39
Good value for the rates that I paid at the park.	2	3	9	46	41

14. To what extent did you feel crowded at Detroit Lake State Recreation Areas on this trip? (circle a number)

13%	12%	14%	6%	9%	24%	11%	7%	4%
Not at all Crowded		Slightly Crowded			Moderately Crowded		Extremely Crowded	

15. To what extent do you **oppose or support** each of the following possible management actions at Detroit Lake SRA? (circle one number for EACH)

	Strongly Oppose	Oppose	Neither	Support	Strongly Support
Provide more opportunities for escaping crowds of people.	< 1%	1%	32%	45%	22%
Provide more opportunities for viewing wildlife.	< 1	2	35	47	16
Food for sale (restaurants, snack shops, etc.)	6	15	31	33	15
Provide more group picnic areas.	2	9	56	26	6
Provide more opportunities for hiking.	< 1	1	43	43	13
Provide more paved trails.	2	9	53	29	8
Provide more trash cans.	< 1	4	45	38	13
Provide more recycling containers.	< 1	2	48	35	15
Provide more information / education about nature, history, or archeology.	< 1	2	53	34	10
Provide more programs led by park rangers.	1	3	56	30	10
Provide wireless internet access within the park.	10	11	22	26	31
Provide downloadable mobile phone applications.	6	10	42	26	16
Provide enclosed shelters.	3	9	56	23	9
Improve maintenance or upkeep of facilities / services.	< 1	2	40	42	16
Require all dogs be kept on leash at all times.	4	8	20	29	40
Make the park more pet friendly.	5	8	47	25	15
Provide natural buffers to block views of development outside the park.	2	1	28	37	32
Restore it to historical conditions (e.g., replace non-native with native plants)	3	7	50	27	14
Limit the number of people allowed per day.	5	15	45	26	10
Limit the number of large groups allowed (e.g., no more than 10-20 people).	7	16	37	25	15
Close this park to all recreation / tourism activities.	55	18	21	4	2
Provide more space between campsites.	2	5	36	34	24
Provide more walk-in / cart-in campsites.	7	13	59	13	8
Provide more tent camping in developed campgrounds.	5	11	47	24	13
Provide campsites that accommodate both RV and tent camping.	2	3	27	41	27
Provide more group camping areas.	8	8	52	21	12
Increase enforcement of campground quiet hours (10 p.m. – 7 a.m.)	6	9	33	25	28
Do not change anything / keep things as they are now.	7	12	50	20	11

16. Did you make your reservation for your recent overnight visit to Detroit Lake SRA using the Oregon State Parks telephone or internet reservation system? (check ONE)

13% Telephone reservation system	87% Internet reservation system	< 1% I did not make the reservation
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17. How dissatisfied or satisfied were you with the reservation system for your trip to Detroit Lake SRA? (check ONE)

3% Very Dissatisfied	6% Dissatisfied	7% Neither	37% Satisfied	46% Very Satisfied	< 1% Didn't make reservation
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As agency budgets for management of this park decrease over time, we may be faced with difficult decisions related to service reductions. Before making any changes, however, we feel that it is important to know what changes would be supported or opposed by current visitors. As a result, the following questions list various hypothetical changes that managers could make in the future. Please indicate your level of opposition or support to these possible changes.

18. To what extent would you **oppose or support** each of the following possible service reductions at Detroit Lake State Recreation Areas?

**(circle one number for EACH)**

	Strongly Oppose	Oppose	Neither	Support	Strongly Support
Fewer hours open.	32	33	27	8	< 1
Fewer ranger patrols.	30	30	27	11	3
Fewer ranger-led programs.	14	17	45	21	4
Scaled down facilities (e.g., fewer restrooms, picnic shelters).	48	38	9	4	1
Reduced janitorial services.	51	38	9	2	< 1
Reduced ground maintenance (e.g., mowing, landscaping).	35	33	22	9	1

19. **Including yourself**, how many people accompanied you at Detroit Lake State Recreation Areas on this trip?  $M=7.84$  person(s)

20. Did you or anyone in your group bring dog(s) with you to Detroit Lake SRA? (**check ONE**) 41% No 59% Yes

21. Did anyone in your group have a disability?

82% No

18% Yes → if yes, what are these disabilities? (**check ALL THAT APPLY**) 4% Hearing 1% Sight 12% Walking  
2% Learning 3% Other \_\_\_\_\_

22. If you had NOT been able to go to Detroit Lake State Recreation Areas for this visit, what would you have done? (**check ONE**)

63% Gone somewhere else for the same activity → how far from home is the place you would go instead?  $M=128.67$  miles(s)

5% Gone somewhere else for a different activity → how far from home is the place you would go instead?  $M=84.45$  miles(s)

15% Come back another time

9% Stayed home

3% Gone to work at my regular job

5% Something else (none of these)

23. If you had NOT been able to go to Detroit Lake State Recreation Areas for this visit, what other park(s) would you have considered going to instead? (**list park names**) \_\_\_\_\_

24. How did you get to Detroit Lake State Recreation Areas on this trip? (**check ONE**)

97% My family's personal vehicle → how many total people were in the vehicle?  $M=3.40$  person(s)

2% Somebody else's personal vehicle → how many total people were in the vehicle?  $M=3.18$  person(s)

1% Other (write response) \_\_\_\_\_  
\_\_\_\_\_ → how many total people were in the vehicle?  $M=2.75$  person(s)

25. When you were thinking about visiting an Oregon State Park such as Detroit Lake State Recreation Areas, about how often did you obtain information from each of the following sources when making your decision? (**circle one number for EACH**)

	Never	Sometimes	Often
A. Official internet websites (e.g., Oregon State Parks, Travel Oregon).	5%	3%	59%
B. Social media internet websites (e.g., Facebook, Twitter).	60	10	7
C. Brochures.	44	13	8
D. Newspapers.	76	11	2
E. Magazines.	74	12	2
F. Books.	75	12	2
G. Television.	78	12	1
H. Videos / DVDs.	86	8	1
I. Radio.	82	10	< 1
J. Community organization or church.	79	9	2
K. Health care providers.	88	7	< 1
L. Work.	73	8	5
M. Friends or family members.	21	6	24
N. Highway signs.	54	13	9
O. Previous visit.	18	3	21
P. Other (write response) _____	66	6	2

26. From the list of sources in question 25 above, which **ONE** would you use **FIRST** when obtaining information about an Oregon State Park? (**write letter**)

Letter see report

27. When planning your visit to Detroit Lake SRA, were you able to find the information you needed? (**check ONE**)

97% Yes

3% No → if no, what additional information did you need? (**write response**) \_\_\_\_\_

28. Would you recommend a Detroit Lake State Recreation Areas overnight visit to friends or family members? (**check ONE**)

94% Yes

6% No → if no, why not? (**write response**) see report \_\_\_\_\_

29. What do you feel are the most outstanding features or things to do at Detroit Lake State Recreation Areas? (write response)

see report \_\_\_\_\_

30. What type of campsite(s) did you use on your most recent trip to Detroit Lake SRA? (**check ALL THAT APPLY**)

58% RV campsite      0% Cabin      < 1% Group RV camp      0% Hiker / biker campsite  
 48% Tent campsite      0% Yurt      < 1% Group tent camp      1% Other (write response) \_\_\_\_\_

31. If you were to stay at a RV campsite, what type of power supply would you require? (**check ONE**)

54% 30 amps                      24% 50 amps                      5% 100 amps                      16% No electric power needed

32. If you were to stay at an RV campsite, how important are electric, water, and sewer hookups? (**circle one number for EACH**)

	Not Important		Neither		Extremely Important
Electric hookups.	5%	< 1%	4%	18%	72%
Water hookups.	7	1	8	21	63
Sewer hookups.	19	4	14	23	39

33. If Oregon State Parks offered weekend programs for beginners to learn basic outdoor skills, would you/your family consider participating in such a program at a nearby park?

59% No

41% Yes → if yes, what types of activities would you/your family be interested in learning about? (**check ALL THAT APPLY**)

11% Birding    7% Disc golfing    21% Hiking                      9% Mountain biking    8% Scenic bicycling on roads  
 20% Camping    21% Fishing                      15% Horseback riding    16% Rafting                      22% Stargazing  
 17% Canoeing    11% Geocaching    20% Kayaking                      10% Rock climbing                      < 1% Other \_\_\_\_\_

34. During your visit to this park, did you or members of your personal group use a concession service/activity such as a guided trip/tour (e.g., fishing, rafting, bicycling, scenic, historic) or equipment rental (e.g., kayak, bicycle)?

86% No

14% Yes → if yes, what type of concession service/activity (write in response) \_\_\_\_\_ see report

35. Did you participate in any moderate physical activity during this trip (for example walking, bicycling, canoeing at a moderate pace)? (**check ONE**)

21% No

79% Yes → if yes, how much time did you spend in moderate physical activity for this trip? M=162.05 minutes

36. Did you participate in any vigorous physical activity during this trip (for example jogging, walking, or bicycling at a vigorous pace, breaking a sweat, heart beating rapidly)? (**check ONE**)

70% No

31% Yes → if yes, how much time did you spend in vigorous physical activity for this trip? M=117.41 minutes

37. Is your level of physical activity at Detroit Lake State Recreation Areas more than, less than, or about the same as your level of physical activity in your day-to-day life? (**check ONE**)

35% My physical activity is MORE at Detroit Lake State Recreation Areas than my daily life.

24% My physical activity is LESS at Detroit Lake State Recreation Areas than in my daily life.

41% My physical activity is ABOUT THE SAME at Detroit Lake State Recreation Areas as it is in my daily life.

38. To what degree did this Detroit Lake State Recreation Areas visit result in the following health benefits for you? (**circle one number for EACH**)

	Not at all				A great deal
A. Reducing your stress.	4%	1%	15%	32%	48%
B. Improving your level of physical fitness.	13	16	39	21	11
C. Improving your physical health.	12	12	41	24	12
D. Improving your mental health.	4	2	18	37	39
E. Reducing your anxiety.	6	4	21	34	36

39. For each of the following categories, please estimate how much you and other members of your party spent on your trip both inside the Park and within **30 miles** of Detroit Lake State Recreation Areas. *Please round off to the nearest dollar.*

- Motel, lodge, cabin, B&B, other lodging: \$ see report .00
- Camping: \$ \_\_\_\_\_ .00
- Restaurants and bars: \$ \_\_\_\_\_ .00
- Groceries: \$ \_\_\_\_\_ .00
- Gasoline and oil: \$ \_\_\_\_\_ .00
- Park entry, parking, or recreation use fees: \$ \_\_\_\_\_ .00
- Recreation and equipment (guide fees, equipment rental): \$ \_\_\_\_\_ .00
- Souvenirs, clothing, and other miscellaneous: \$ \_\_\_\_\_ .00

40. Are you staying away from home either inside the Park or within 30 miles of Detroit Lake State Recreation Areas on this trip? (**check ONE**)

29% No

71% Yes → if yes, how many nights are you staying away from home inside the Park or within 30 miles of this Park?

M=3.89 night(s)

41. Considering the amount that you spent on this trip, how much more would you have spent on this trip before deciding not to take it? \$ M=142.71

42. Are you: (**check ONE**) 42% Male 58% Female

43. How old are you? (**write response**) M=48 years old

44. Which of the following best describes you? (**check ONE**)

- 91% White (Caucasian) 3% Hispanic / Latino 1% American Indian or Alaskan Native 2% Other (write response)
- 1% Black / African American 3% Asian 1% Native Hawaiian or Pacific Islander see report

45. What language is spoken most often at your home? (**check ONE**)

- 97% English 1% Spanish 1% Russian 1% Other (write response) see report

46. Where do you live? (**write responses**) City / town \_\_\_\_\_ State \_\_\_\_\_ Country \_\_\_\_\_ Zipcode see report

47. Which of these broad categories best describes your **current annual household income before taxes?** (**check ONE**)

- |                          |                            |
|--------------------------|----------------------------|
| 2% Less than \$10,000    | 17% \$90,000 to \$109,999  |
| 4% \$10,000 to \$29,999  | 11% \$110,000 to \$129,999 |
| 16% \$30,000 to \$49,999 | 4% \$130,000 to \$149,999  |
| 17% \$50,000 to \$69,999 | 6% \$150,000 to \$169,999  |
| 18% \$70,000 to \$89,999 | 6% \$170,000 or more       |

Please tell us how we can improve Detroit Lake State Recreation Areas:

see report

Thank you, your input is important! ***Please return this survey as soon as possible.***