## Recreation Use Assessment

## Priest Rapids Hydroelectric Project

Prepared for:
Public Utility District No. 2 of Grant County Ephrata, Washington

## Prepared by:

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PARKS, RECREATION AND TOURISM MANAGEMENT
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## EXECUTIVE SUMMARY

Public Utility District No. 2 of Grant County (Grant PUD) commissioned this Recreation Use Assessment for the Priest Rapids Project (Project) as part of its license requirements from the Federal Energy Regulatory Commission (FERC). This report provides an assessment of recreational users' attitudes and use of facilities and sites within the Project boundary - a 58 river mile area that includes two hydropower dams, Priest Rapids Dam and Wanapum Dam, and associated reservoirs. This report supports Grant PUD's FERC license requirements to revise and file an update to its Recreation Resource Management Plan (RRMP) and to complete Form 80 reporting, both due in 2016.

Using current and well-accepted social science techniques and technology for studying recreation, a total of 748 recreation user surveys were collected at 24 recreation sites between June 18 and September 10, 2015. These 24 sites were chosen to provide a representative selection at high and low use sites across the Project. During this same timeframe, over 60,000 observations of use levels (collected using both observers and field cameras) were made at 85 recreation amenities located at 49 recreation sites on the Project. These data serve as a strong, reliable basis for understanding and managing recreation on the Project.

Based on the above data, an annual estimate of recreation use of the Project is 346,597 Recreation Days. This consists of an estimated 168,793 daytime Recreation Days and 177,804 nighttime Recreation Days. Only about $10 \%$ of the overall use of the Project occurs on the Priest Rapids Reservoir. Further analysis indicates that the July 4th and Labor Day Holiday weekends (3 days each) account for $11.4 \%$ of the total visitor use during the peak use season. A 3-day holiday weekend use estimate consists of 7,660 daytime Recreation Days and 8,069 nighttime Recreation Days.

Survey results show that most users of the Project live locally or are from major cities in western Washington, and that the Project's direct contribution from recreation visitors alone to the local economy can be valued at over $\$ 34,000,000$. When considering how these direct expenditures are then spent again multiple times in the local economy, the overall economic impact of recreational use at the Project is even higher in terms of dollars and jobs contributed.

Recreation use of the Project reflects its role as a place predominately for water-based recreation. The most common recreational activities included swimming, visiting the beach, resting/relaxing, and boating. Survey results suggest that visitors to the Project are being provided high-quality recreation experiences. For example, visitors indicated very low levels of perceived crowding on both reservoirs and for the Project itself. Also, when asked to evaluate the quality and number of facilities on the reservoirs visitors indicated they were generally "about right." No pervasive or serious recreation-related issues were noted by visitors. The survey results suggest that the recreation facilities and their management on the Project are effective in providing high-quality recreation experiences and minimize negative recreational issues for an overwhelming majority of visitors.

Given the positive nature of the survey results, the primary recommendation is that recreation provision and management continue in its current form. Continuing a strong program of both public outreach and public input is recommended since recreation is
perhaps one of the most important ways that the general public interacts with Grant PUD.
Study results indicate shade/wind-shelter structures and enhanced maintenance of facilities (particularly bathrooms and litter) could further improve recreational experiences. At bathrooms this includes providing hand sanitizer, posting a phone number on bathroom doors to report maintenance issues, installing air fresheners, and increasing maintenance schedules. Litter is more difficult to control, but increasing maintenance schedules and providing signage to encourage self-removal of litter is recommended. Other recommendations include establishing a quick, cost-effective visitor experience monitoring protocol and using the information contained in this report to aide future recreational resource management.

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## A. INTRODUCTION

Public Utility District No. 2 of Grant County (Grant PUD) commissioned this study to support requirements under Article 418 of their license, as amended on September 2012, from the Federal Energy Regulatory Commission (FERC) for the Priest Rapids Hydroelectric Project (Project) (FERC Project No. 2114). As part of its FERC license (FERC 2008), Grant PUD is required to revise and file an update to the Priest Rapids Recreation Resource Management Plan (RRMP) in 2016. This report is intended for use as one of several empirical sources of data to inform the revised RRMP. Grant PUD is also required to periodically report to FERC on recreation amenities and use levels for each amenity on Form 80. This form is completed by licensees every six years to report recreation use estimates at a hydroelectric project and the capacity utilization of each amenity type (e.g., boat launch, campgrounds, etc.).

A series of inter-related studies were conducted to assess and evaluate recreational resources and recreation use associated with the Project. This report presents the results of one of those studies: an assessment of recreational use of facilities and sites in the Project as developed through a recreation user survey administered in the summer of 2015, as well as comprehensive recreation use estimates of both land-based facilities and water-based recreation use in 2015.

As a part of its FERC license, Grant PUD is required to implement a number of substantial capital improvements to enhance recreation access and quality (see the 2015 Recreation Site and Facility Inventory conducted by Grant PUD for details; Grant PUD 2015). Many of the capital improvements were recently completed, from 2011 through 2015. Use at these improved sites had not been measured prior to this study and it may be in flux since the improvements to these newly developed sites are just becoming known by recreation users. Part of the purpose of this study is to understand recreation users' opinions of these site improvements.

This assessment data was used for Form 80 reporting in 2016. The methods applied in developing the current report have been updated to reflect substantial changes in technology and approaches for measuring use since the previous report was conducted by EDAW in 2000. Finally, the results provide a reliable baseline for future comparisons.

## B. STUDY GOALS

Based on FERC reporting requirements, the goals for this study were identified by Grant PUD and this report's Principal Investigator (consultant to Grant PUD). These goals focused on recreational use at facilities and sites in the study area, and the recreational users of these sites and facilities, which included the following:

- Describe recreation use levels and patterns
- Determine the characteristics of recreational users
- Determine the attitudes of recreation users toward recreation sites, services, and related experiences in the study area.
- Gather recreation user input regarding their perception of the quality of recreation in the study areas, including crowding and recreation management
- Estimate the economic impact of recreation sites and facilities in the study area
- Estimate annual recreation use of the study area. This includes updating measurement approaches and documenting use estimate calculations.


## C. STUDY AREA

The Project is located on the mid-Columbia River in central Washington and includes Wanapum and Priest Rapids reservoirs (see Figure C.1). The Project is located downstream of Wenatchee, Washington. Below the Project is the free-flowing Hanford Reach of the Columbia River. The study area includes all waters and adjacent lands and recreation facilities within the FERC Project boundary. Two privately operated recreation areas - Crescent Bar Resort and Riverstone Resort - are included in the study area. The Project boundary includes 58 river miles of the Columbia River from River Mile 395, approximately 2 miles downstream of the Priest Rapids Dam, upstream to a point approximately 0.5 mile downstream of Chelan County PUD's Rock Island Dam at River Mile 453 (see Figure C.1).

The Wanapum Development is characterized by a mix of features, which include publicly accessible lands, steep topography, highway access, private ownership and other restricted access, agricultural activity, and park development. Wanapum Reservoir is approximately 38 miles long and runs through spectacular canyons with magnificent basalt cliffs and alluvial sand deposits. The reservoir is over 1 mile wide in some locations. Vantage is the largest town (unincorporated area) on the reservoir with a population of about 150 people. There are two residential/resort communities (much larger than Vantage) on the reservoir: Crescent Bar Resort and Sunland Estates.

Much of the undeveloped western shore of the reservoir, and portions of the eastern shoreline, are wildlife and waterfowl habitat lands managed by the Washington Department of Fish and Wildlife (WDFW). A vast majority of recreational access to and use of the reservoir is concentrated in the Interstate 90 (I-90) corridor/Vantage area and at Crescent Bar Resort and Sunland Estates. Recreation providers include Grant PUD, Washington State Parks and Recreation Commission (WSPRC), WDFW, Kittitas County, and private commercial interests such as the Riverstone Resort.

Recreation Areas
Priest Rapids Project


Figure C.1. Project map showing the recreation areas on Priest Rapids and Wanapum Reservoirs.

The downstream Priest Rapids Development is characteristically different from the Wanapum Development because of the shorter length of the reservoir (approximately 18 miles) and the lack of sandy beaches open to public recreation use. Similarly though, Priest Rapids Reservoir has stunning geologic features. A few miles below Wanapum Dam, the river passes through Sentinel Gap, a geologic landmark which provides a focal point of Grant PUD's Interpretation and Education panels installed at the Wanapum Dam Overlook.

Downstream of Sentinel Gap, the river valley opens up into wide slopes where private ownership and agricultural activity dominate the eastern shore. Highway 243 closely parallels the eastern shoreline in this area. Much of the western shoreline is part of the Yakima Training Center Military Reservation (YTC), with highly restricted public access.

Desert Aire is the only shoreline community of significant size adjacent to the Priest Rapids development. The Priest Rapids Development has fewer sandy beaches, fewer adjacent community developments, less publically available shoreline, and is farther from the I-90 corridor and the Gorge Amphitheatre as compared to the Wanapum Development. All of these factors likely contribute to less recreational pressure.

Locally and regionally significant recreation providers include Grant PUD, WDFW, WDNR, WSPRC, and private commercial interests at Vantage and Desert Aire.

Public recreational access to Project lands and waters is widely available and dispersed. Since its construction, the Project has provided the region with a variety of developed and dispersed recreation opportunities, including fishing, flat-water boating, camping, sightseeing, swimming, picnicking, waterskiing, personal watercraft (PWC) use, and other recreational activities. The sites and facilities at the Project have become an important centerpiece of the outdoor recreation opportunities in the central Washington region, attracting a substantial number of users. Like many other recreation facilities in the Pacific Northwest, recreation use is typically highest during the summer peak season (Memorial Day to Labor Day) and is much lower during the remainder of the year. There are small, short-term increases in off-season recreational use associated with accessing Project lands and waters during salmon fishing and waterfowl hunting seasons. As with most recreation sites, use is typically highest on weekends, and peaks on weekends associated with Memorial Day, Labor Day, and the July $4^{\text {th }}$ Independence Day holiday, as well as scheduled concerts at The Gorge Amphitheater.

Recreation has changed in the Project area since the last use assessment was completed in 1999. As mentioned in Section A, substantial capital improvements, including the development of new recreation sites and facilities, have occurred in the Project within recent years. Additionally, demand for recreation resources and activities in the region has grown and changed significantly over the years, and recreation activities (both societally and regionally) have evolved or changed. For example, new forms of recreation, such as geocaching, wakeboarding, wake surfing, and stand-up paddle
boarding, have emerged in the last decade.
The study area includes a total of 130 recreation amenities located at 49 recreation sites. There are a total of 77 recreation amenities available to the public on the Wanapum Reservoir, and 53 on the Priest Rapids Reservoir. These sites and their associated amenities are detailed in the 2015 Priest Rapids Project Recreation Site and Facility Inventory (Grant PUD 2015). In addition to these recreation amenities are small dispersed undeveloped shoreline sites used predominantly for day use picnicking, boating, fishing, hunting, and sunbathing/swimming. Recreation user data were obtained at all developed recreation sites in 2015. These sites are listed in Section D.

Outside the study area is The Gorge Amphitheater located on a high bluff above Wanapum Reservoir northwest of George, Washington. The Gorge Amphitheater draws large crowds (up to 40,000 visitors) from the Central Puget Sound area and elsewhere in the Pacific Northwest. Nine concerts, over 17 days between May and September, were held in 2015. Extended weekend use in the study area related to these concerts was documented in the 1996 and 1999 surveys and was found to be substantial (DE\&S 1997 and EDAW 2000). Since 1999, the Gorge Amphitheater has increased their onsite undeveloped camping opportunities.

## D. STUDY METHODS

Methods for gathering data to develop this recreation use assessment include: (1) collection and analysis of instantaneous counts by automatic field cameras and observers at recreation sites, (2) collection and analysis of instantaneous counts by boat-based observers for reservoir segments, access points, and informal use areas, (3) administration of a recreation user survey at selected recreation sites and analysis of the results, and, (4) in a limited number of cases, solicitation and analysis of secondary use data from private recreation providers in the study area. Grant PUD staff was responsible for conducting all data collection activities. The Clemson University Principal Investigator (PI) was responsible for designing the data collection procedures and instruments. Also, the PI aided Grant PUD staff with starting data collection (e.g., providing survey administration training, pretesting and refining survey administration procedures in the field). During the course of field data collection, the PI provided advice and guidance, in particular with troubleshooting and/or adapting procedures to field conditions.

Dates for conducting data collections were randomly selected and designed to provide a representative assessment of recreation users. This includes a proportionate sampling of weekdays, weekend days, holiday weekends, and event weekends. These methods and sampling protocols are discussed below and summarized in Tables D. 1 and D 2 below.

Instantaneous Counts of Recreation Users by Field Cameras or Observers
Assessment of the recreational activity at various sites with concentrated use was
accomplished using counts by automatic field cameras. Recreation use of both land and water-accessed sites were assessed using field cameras. All sites where observation counts were conducted by car in 1999 were selected for deployment of field cameras in 2015. In addition, observation counts by field camera were done for the first time at a number of additional sites (Table D.1).

The field cameras are the type of commercial, off-the-shelf units often used by private individuals for recording wildlife activity. These cameras are both reliable and fieldtested for the purposes of automatically recording recreation use at a site. Specifically, Hallo and Brownlee (2013) successfully used field cameras for conducting counts of both people and vehicles in parking lots at Pinnacles National Park. Sunger, Teske, Nappier, and Haas (2012) used time-lapse cameras to conduct recreational use assessments of water-based activities.

Field cameras offer the advantage of allowing for much more detailed and robust data collection, since they are not reliant on an individual being present at the site. This is particularly important for this assessment because recreation use will be determined at a large number of sites and facilities distributed over a relatively large area. Photobased data collection may also remove some of the error and subjectivity associated with use counts, particularly under high-use conditions.

The Moultrie D-555i field cameras utilized in the study allowed high resolution photos ( 8 MB ) to be taken over a minimum of a two-week period without being downloaded. Also, the camera had a programmable time-lapse function that allowed photos to be taken at specified intervals and during specified hours. The cameras were weatherproof and designed to be easily mounted with either a security box or with a mounting bracket.

A photo point was established at each site or facility. The photo point was selected to visually capture the broadest view of the primary use areas at a particular site or facility. At larger sites or where multiple primary use locations were present at a particular site (e.g., boat launch, picnic area, swim area), additional photo points were established and multiple cameras were used. These photo points and the associated viewsheds (presented in Appendix C of this report) will be used in the future for comparative use assessment efforts.

A field camera was secured at each photo point and concealed in a tree, by ground vegetation, or by camouflage to prevent tampering, theft, or vandalism. Where appropriate, a camera security box, padlock and/or cable lock was used. With the exception of those placed on trails, cameras were programmed to capture photos every 15 minutes between $11 \mathrm{a} . \mathrm{m}$. and $5 \mathrm{p} . \mathrm{m}$. This time period was selected because it is recognized as the busiest time of day for recreation activity in the study area, and it is the same time period that data were collected in 1999, which maintains comparability with prior data and results. Photos at 15-minute intervals follow the procedures used by Hallo and Brownlee (2013). On trails, field cameras were set to
take pictures when motion was sensed due to the dispersed and transitory nature of use associated with this facility type.

Field cameras were deployed for data collection at each site during two 16-day periods selected between June 18 and September 6, 2015. (A few exceptions to this exist where a camera malfunctioned. These exceptions are shown in the results presented in Appendix C.) This time period was selected because it is recognized as the peak recreation season in the study area. It also roughly corresponds with the time period that data were collected in 1999. Data collection time periods for each site were randomly selected, but the selection was constrained to ensure 1) a minimum of a two weeks between the end of the first period and the beginning of the second period, 2) data collection ended no later than September 10, 2015, and 3) one data collection period began/ended on a weekend day (Saturday or Sunday) and the other period began/ended on a weekday (Monday through Friday). Sites were grouped based on their proximity to allow for efficient data collection. This resulted in the 13 data collection periods shown in Table D.2.

The data collection period selection procedure described above ensured that use levels were determined on a total of 32 days. This represents a four-fold increase in the overall data collection period as compared to the 1999 data collection. Data collection for consecutive 16-day periods also ensured that weekdays and weekend days were considered in an accurate, representative manner without the need to stratify the sample by this variable.

At the end of each data collection period the camera was removed and all photos were downloaded. The entire photo data collection process resulted in over 60,000 photos. Each photo (in digital format) was visually inspected by a trained research assistant to gather data representing an instantaneous assessment, where applicable, of the number of vehicles, trailers, powerboats, PWC, inflatable-crafts, people, picnic tables occupied, campsites occupied, boats waiting to launch, and marina boat slips occupied. All of these variables were counted by research assistants using an image analysis software tool called Timelapse (Greenberg and Godin 2015). This software allowed each image to be inspected in an efficient, documented, and traceable manner. Timelapse stored counts of variables in a database that was then used for later analysis.

A drawback to using field cameras is that they may not be appropriate in all contexts. Specifically, a camera may not be able to be mounted because of concerns regarding permission, or a camera may not be able to be positioned to photograph the primary use at a site. The latter is particularly true with privately owned sites, informal use areas, and access points. In cases such as these (including all access points and hunting areas), observer counts were conducted at the beginning and end of each relevant data collection period and during days when boat counts occurred (Table D.2). The procedure and modified recreation data forms (see Appendices E and F) described in the 2000 Recreation Use Assessment report were used for these observer-based counts.

Table D.1. Recreation sites and data collection methodologies for the 2015 Priest Rapids Project Recreation Use Assessment. An asterisk indicates that the method was applied at the site. The last column indicates the applicable data collection period.

| Site Name | Amenity Type (Form 80) | Field Camera | Visitor Surveys | Boat Observations | Secondary/Existing /Interview Data \& Grant PUD Institutional Knowledge | Primary Data Collection Period | Second Data Collection Period |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Columbia Siding | Access Point |  |  | * | * | 1 | Boat |
| Yo Yo Rock Boat Launch | Boat Launch | * |  | * | * | 1 | Boat |
| A6 Memorial | Informal Use Area (Boat In) |  |  | * | * | Boat |  |
| Tarpiscan Creek | Hunting Area |  |  | * | * | Boat |  |
| Apricot Orchard Boat Launch | Access Point |  |  | * | * | 1 | Boat |
| Apricot Orchard Boat Launch | Hunting Area |  |  | * | * | Boat |  |
| Columbia Cliffs | Informal Use Area (Boat In) |  |  | * | * | Boat |  |
| Upper West Bar | Hunting Area |  |  | * | * | Boat |  |
| Lower West Bar | Informal Use Area (Boat In) |  |  | * | * | Boat |  |
| CBRA Off-Island | Boat Launch | * | * |  |  | 2 |  |
| CBRA Off-Island | Campground |  | * |  | * | 2 |  |
| CBRA Off-Island | Marina |  |  |  | * | 2 |  |
| CBRA Off-Island (Orchards) | Access Point |  |  |  | * | 2 | Boat |
| CBRA On-Island | Active Recreation Area | * | * |  |  | 2 |  |
| CBRA On-Island | Boat Launch | * | * |  |  | 2 |  |
| CBRA On-Island | Picnic Area | * | * |  | * | 2 |  |
| CBRA On-Island | Informal Use Area (Boat In) |  |  | * | * | Boat |  |
| CBRA On-Island (Golf Course) | Active Recreation Area |  | * |  | * | 2 |  |
| Quincy Wildlife Area | Access Point |  |  | * | * | 3 | Boat |
| Rattlesnake Cove | Picnic Area | * | * |  | * | 3 |  |
| Rattlesnake Cove | Swim Area | * | * |  |  | 3 |  |
| Sunland Boat Launch | Boat Launch | * | * |  |  | 3 |  |
| Sunland shoreline | Access Point |  |  | * | * | 3 | Boat |
| Sunland Picnic Area | Picnic Area | * | * |  | * | 3 |  |
| Quilomene Dune and Bay | Informal Use Area (Boat In) | * | * | * |  | 4 | Boat |
| Quilomene Dune and Bay | Dispersed Camp Area |  | * | * | * | 4 |  |

Table D.1. (continued) Recreation sites and data collection methodologies for the 2015 Priest Rapids Project Recreation Use Assessment. An asterisk indicates that the method was applied at the site. The last column indicates the applicable data collection period.

| Site Name | Amenity Type (Form 80) | Field Camera | Visitor <br> Surveys | Boat <br> Observations | Secondary/Existing /Interview Data \& Grant PUD Institutional Knowledge | Primary Data Collection Period | Second Data Collection Period |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Quilomene Bar | Hunting Area |  |  | * | * | Boat |  |
| Whiskey Dick Creek | Hunting Area |  |  | * | * | Boat |  |
| Cayuse Creek | Hunting Area |  |  | * | * | Boat |  |
| Frenchman Coulee Recreation Area | Picnic Area | * | * |  | * | 5 |  |
| Frenchman Coulee Recreation Area | Trail | * | * |  |  | 5 |  |
| Frenchman Coulee Recreation Area | Boat Launch | * | * |  |  | 5 |  |
| Rocky Coulee | Boat Launch | * | * |  |  | 5 |  |
| Rocky Coulee | Campground |  | * |  | * | 5 |  |
| Rocky Coulee | Picnic Area | * | * |  | * | 5 |  |
| Riverstone Resort | Access Point |  | * | * | * | 6 | Boat |
| Riverstone Resort | Marina |  | * |  | * | 6 |  |
| Vantage Boat Launch | Boat Launch | * | * |  |  | 6 |  |
| Vantage Boat Launch | Picnic Area | * | * |  | * | 6 |  |
| Airstrip Access Area | Informal Use Area (Boat In) |  |  | * | * | Boat |  |
| Sand Hollow | Campground |  | * |  | * | 7 |  |
| Sand Hollow (both southern bays) | Informal Use Area |  |  | * | * | Boat |  |
| Sand Hollow | Picnic Area | * | * |  | * | 7 |  |
| Sand Hollow | Picnic Area | * | * |  | * | 7 |  |
| Sand Hollow | Picnic Area | * | * |  | * | 7 |  |
| Sand Hollow | Swim Area | * | * |  | * | 7 |  |
| Sand Hollow (North) | Access Point |  |  | * | * | 7 | Boat |
| Wanapum Dam Upper Boat Launch | Boat Launch | * | * |  |  | 8 |  |
| Wanapum Recreation Area (WSP) | Boat Launch | * | * |  | * | 8 |  |
| Wanapum Recreation Area (WSP) | Picnic Area | * | * |  | * | 8 |  |
| Wanapum Recreation Area (WSP) | Swim Area | * | * |  |  | 8 |  |
| Black Sands Beach | Informal Use Area (Boat In) |  |  | * | * | Boat |  |

Table D.1. (continued) Recreation sites and data collection methodologies for the 2015 Priest Rapids Project Recreation Use Assessment. An asterisk indicates that the method was applied at the site. The last column indicates the applicable data collection period.

| Site Name | Amenity Type (Form 80) | Field Camera | Visitor Surveys | Boat Observations | Secondary/Existing /Interview Data \& Grant PUD Institutional Knowledge | Primary Data Collection Period | Second Data Collection Period |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| McCumber Beach | Informal Use Area (Boat In) |  |  | * | , | Boat |  |
| Wanapum Dam Lower Boat Launch | Boat Launch | * | * |  |  | 8 |  |
| Wanapum Dam Overlook | Overlook Vista | * | * |  |  | 9 |  |
| Wanapum Dam Overlook | Picnic Area | * | * |  | * | 9 |  |
| Wanapum Turbine Park | Picnic Area | * | * |  | * | 9 |  |
| Huntzinger Road Boat Launch | Boat Launch | * | * |  |  | 10 |  |
| Huntzinger Road Fishing Access Site | Reservoir Fishing Amenity | * | * |  |  | 10 |  |
| The Cove | Picnic Area | * | * |  | * | 10 |  |
| The Cove | Boat Launch | * | * |  | * | 10 |  |
| Crab Creek Park | Access Point |  |  | * | * | 11 | Boat |
| Burkett Lake Recreation Area | Access Point |  |  |  | * | 11 | Boat |
| Burkett Lake Recreation Area | Trail | * | * |  |  | 11 |  |
| Burkett Lake Recreation Area | Overlook Vista | * | * |  |  | 11 |  |
| Beverly Sand Dunes ORV Park | Other (ORV Park) |  | * |  | * | 11 |  |
| Beverly Sand Dunes ORV Park | Dispersed Camp Area |  | * |  | * | 11 |  |
| Haystack Rocks | Access Point |  |  | * | * | 11 | Boat |
| Sentinel Gap | Access Point |  |  | * | * | 11 | Boat |
| Priest Rapids Wildlife Area | Hunting Area |  |  | * | * | Boat |  |
| Buckshot Recreation Area | Boat Launch | * | * |  |  | 11 |  |
| Buckshot Recreation Area | Hunting Area |  |  |  |  | 11 |  |
| PRRA | Campground |  | * |  | * | 13 |  |
| PRRA | Picnic Area | * | * |  | * | 13 |  |
| PRRA | Swim Area | * | * |  |  | 13 |  |
| PRRA | Trail | * | * |  |  | 13 |  |
| PRRA (North Picnic Area) | Picnic Area | * | * |  | * | 13 |  |
| Priest Rapids Recreation Area (PRRA) | Boat Launch | * | * |  |  | 13 |  |

Table D.1. (continued) Recreation sites and data collection methodologies for the 2015 Priest Rapids Project Recreation Use Assessment. An asterisk indicates that the method was applied at the site. The last column indicates the applicable data collection period.

| Site Name | Amenity Type (Form 80) | Field Camera | Visitor <br> Surveys | Boat Observations | Secondary/Existing /Interview Data \& Grant PUD Institutional Knowledge | Primary Data Collection Period | Second Data Collection Period |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Priest Rapids Water Trail (N. Trailhead) | Boat Launch | * | * |  | * | 13 | Boat |
| Priest Rapids Water Trail (PRRA Swim) | Boat Launch | * | * |  | * | 13 | Boat |
| Priest Rapids Water Trail (S. Trailhead) | Boat Launch | * | * |  | * | 13 | Boat |
| Goose Island | Hunting Area |  |  | * | * | Boat |  |
| Jackson Creek Fish Camp | Campground |  | * |  | * | 12 |  |
| Jackson Creek Fish Camp | Tailwater Fishing Amenity | * | * |  |  | 12 |  |
| Priest Rapids Tailrace | Access Point |  |  |  | * | 12 |  |
| Turbine Park Visitor Center Wanapum Heritage Center | Not open/still under construction at the time of data collection Not open/still under construction at the time of data collection |  |  |  |  |  |  |

Table D.2. Data collection periods for the 2015 Recreation Use Assessment

|  |  |  | Quincy WLA, Sunland, Rattlesnake Cove |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Data Collection Period | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |  |
| 18-Jun |  |  |  |  | S |  |  |  |  |  |  |  |  |  |
| 19-Jun |  |  |  |  | C |  |  |  |  |  |  |  |  |  |
| 20-Jun |  |  |  |  | C | S |  |  |  | S |  |  |  |  |
| 21-Jun |  |  |  |  | C | C |  |  |  | C |  |  |  |  |
| 22-Jun |  |  |  |  | C | C |  |  |  | C |  |  |  |  |
| 23-Jun |  |  |  |  | C | C |  |  |  | C |  |  |  | Boat |
| 24-Jun |  |  |  |  | C | C |  |  | S | C |  |  |  |  |
| 25-Jun |  |  |  |  | C | C | S |  | C | C |  |  |  |  |
| 26-Jun |  |  |  |  | C | C | C |  | C | C |  |  |  |  |
| 27-Jun | C |  |  |  | C | C | C |  | C | C | S |  |  |  |
| 28-Jun | C |  |  |  | C | C | C |  | C | C | C |  |  |  |
| 29-Jun | C | C |  |  | C | C | C |  | C | C | C |  |  |  |
| 30-Jun | C | C |  |  | C | C | C |  | C | C | C |  |  |  |
| 1-Jul | C | C |  |  | C | C | C |  | C | C | C |  |  |  |
| 2-Jul | C | $S$ |  |  | C | C | C |  | C | C | C |  |  |  |
| 3-Jul | C | C |  |  | S | C | C |  | C | C | C |  |  |  |
| 4-Jul | C | C |  | S |  | C | C |  | C | C | C | S |  |  |
| 5-Jul | C | C |  | C |  | S | C |  | C | S | C | C |  |  |
| 6-Jul | C | C |  | C |  |  | C |  | C |  | C | C |  |  |
| 7-Jul | C | C |  | C |  |  | C |  | C |  | C | C |  |  |
| 8-Jul | C | C |  | C |  |  | C |  | C |  | C | C |  |  |
| 9-Jul | C | C |  | C |  |  | C |  | S |  | C | C |  |  |
| 10-Jul | C | C |  | C |  |  | S |  |  |  | C | C |  |  |
| 11-Jul | C | C | S | C |  |  |  | S |  |  | C | C |  |  |
| 12-Jul | C | C | C | C |  |  |  | C |  |  | S | C |  |  |
| 13-Jul |  | C | C | C |  |  |  | C |  |  |  | C |  |  |
| 14-Jul |  | S | C | C |  |  |  | C |  |  |  | C |  |  |
| 15-Jul |  |  | C | C |  |  |  | C |  |  |  | C | S |  |
| 16-Jul |  |  | C | C |  |  |  | C |  |  |  | C | C |  |
| 17-Jul |  |  | C | C |  |  |  | C |  |  |  | C | C |  |
| 18-Jul |  |  | C | C |  |  |  | C |  |  |  | C | C | Boat |

Table D.2. (continued) Data collection periods for the 2015 Recreation Use Assessment

|  |  |  |  | 荘 |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19-Jul |  |  | C | S |  |  |  | C |  |  |  | S | C |  |
| 20-Jul |  |  | C |  |  |  |  | C |  | S |  |  | C |  |
| 21-Jul |  |  | C |  |  |  |  | C |  | C |  |  | C |  |
| 22-Jul |  |  | C |  |  | S |  | C |  | C |  |  | C |  |
| 23-Jul |  |  | C |  |  | C |  | C |  | C |  |  | C |  |
| 24-Jul |  |  | C |  |  | C |  | C |  | C |  |  | C |  |
| 25-Jul |  |  | C |  | S | C |  | C |  | C |  |  | C |  |
| 26-Jul |  |  | S |  | C | C |  | S |  | C |  |  | C |  |
| 27-Jul | C |  |  |  | C | C |  |  |  | C |  |  | C |  |
| 28-Jul | C |  |  |  | C | C |  |  |  | C |  |  | S |  |
| 29-Jul | C |  |  |  | C | C |  |  |  | C |  |  | C |  |
| 30-Jul | C |  |  |  | C | C |  |  |  | C |  |  | C |  |
| 31-Jul | C |  |  |  | C | C |  |  |  | C |  |  |  |  |
| 1-Aug | C | S |  |  | C | C |  |  |  | C |  |  |  |  |
| 2-Aug | C | C |  |  | C | C |  |  |  | C |  |  |  |  |
| 3-Aug | C | C |  |  | C | C |  |  |  | C |  |  |  |  |
| 4-Aug | C | C |  |  | C | C |  |  |  | S |  |  |  |  |
| 5-Aug | C | C |  | S | C | C |  |  |  |  |  |  |  |  |
| 6-Aug | C | C |  | C | C | S |  |  |  |  |  |  |  |  |
| 7-Aug | C | C |  | C | C |  |  |  |  |  |  |  |  |  |
| 8-Aug | C | C |  | C | C |  |  |  |  |  |  |  |  | Boat |
| 9-Aug | C | C |  | C | S |  |  |  |  |  |  |  |  |  |
| 10-Aug | C | C | S | C |  |  |  |  |  |  |  |  |  |  |
| 11-Aug | C | C | C | C |  |  |  | S |  |  |  |  |  |  |
| 12-Aug |  | C | C | C |  |  |  | C |  |  | S |  |  |  |
| 13-Aug |  | C | C | C |  |  |  | C |  |  | C |  |  |  |
| 14-Aug |  | C | C | C |  |  |  | C |  |  | C |  |  |  |
| 15-Aug |  | C | C | C |  |  |  | C |  | Fishing Pier | C |  |  |  |
| 16-Aug |  | S | C | C |  |  |  | C |  | C | C |  |  |  |
| 17-Aug |  |  | C | C | French Picnic \& BL |  |  | C |  | C | C | S |  |  |
| 18-Aug |  |  | C | S | C |  |  | C |  | C | C | C |  |  |
| 19-Aug |  |  | C | C | C |  |  | C |  | C | C | C |  |  |

Table D.2. (continued) Data collection periods for the 2015 Recreation Use Assessment

|  |  |  |  | $\begin{aligned} & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20-Aug |  |  | C | C | C |  |  | C |  | C | C | C |  |  |
| 21-Aug |  |  | C |  | C |  |  | C |  | C | C | C |  |  |
| 22-Aug |  |  | C |  | C |  | S | C | S | C | C | C | S |  |
| 23-Aug |  |  | C |  | C |  | C | C | C | C | C | C | C | Boat |
| 24-Aug |  |  | C |  | C |  | C | S | C | C | C | C | C |  |
| 25-Aug |  |  | S |  | C |  | C | C | C | C | C | C | C |  |
| 26-Aug |  |  |  |  | C |  | C | C | C | C | C | C | C |  |
| 27-Aug |  |  |  |  | C |  | C |  | C | C | S | C | C |  |
| 28-Aug |  |  |  |  | C |  | C |  | C | C |  | C | C |  |
| 29-Aug |  |  |  |  | C |  | ESD |  | C | C |  | ESD | C |  |
| 30-Aug |  |  |  |  | C |  | C |  | ESD | Fishing Pier |  | C | ESD |  |
| 31-Aug |  |  |  |  | C |  | C |  | C |  |  | C | C |  |
| 1-Sep |  |  |  |  | French Picnic \& BL |  | C |  | C |  |  | S | C |  |
| 2-Sep |  |  |  |  |  |  | C |  | C |  |  |  | C |  |
| 3-Sep |  |  |  |  |  |  | C |  | C |  |  |  | C |  |
| 4-Sep |  |  |  |  |  |  | C |  | C |  |  |  | C |  |
| 5-Sep |  |  |  |  |  |  | C |  | C |  |  |  | S |  |
| 6-Sep |  |  |  |  |  |  | S |  | S |  |  |  | C |  |

Table notes: Shaded dates represent weekends (Saturday and Sunday), unshaded dates represent weekdays. Two places are specified within the table where additional data were collected because of adaptions to field conditions. $\mathrm{S}=$ Field camera setup/takedown and data collection, visitor survey data collection
C $=$ Field camera data collection
ESD = Extra survey day
Boat $=$ Boat-based observation counts

## Instantaneous Counts by Boat-based Observers

Data on dispersed recreation users were obtained by boat-based observers. Dispersed users include both boaters on the water and shoreline users at undeveloped sites. Boat-based observers visited and visually inspected (from the water) all informal use areas and access points.

Boat-based observer counts consisted of researchers traveling by boat the entire length of each reservoir and counting (with the aid of binoculars) the number and location of all visible recreation users and boats and the type of watercraft. Boat counts usually began at approximately $10 \mathrm{a} . \mathrm{m}$. and lasted into the early evening. This time period was selected as it was recognized as the busiest time of day for recreational activity on the water. Boat counts were made on four separate days, one weekday and three weekend days (Table D.2). Days were randomly selected from the time period between June 18 and September 10, 2015, but the selection was constrained to ensure a minimum of a week between dates selected. Two researchers and a boat driver traveled together to conduct these boat counts due to the high use numbers during the peak season. Appendices E and F show the boat-based observer counting forms used.

Consistent with Grant PUD's original Recreation Resource Management Plan (RRMP), seven reservoir segments were maintained and divided logically by recreation experience area and/or significant geographical distinctions.

## Recreation User Survey

A recreation user survey was administered at several of the recreation facilities and sites (see Table D.1). Most of these sites where chosen because they replicate the locations where surveys were conducted in 1999. This allows for more comparability with prior data and results. Also, additional sites were surveyed for the first time because substantial changes were made to the sites since 1999 and use had increased, or improvements will occur in the near future and Grant PUD seeks user input on those changes.

This survey consisted of 18 questions (Appendix D). Several of the questions asked recreation users about their trip to the study area and what types of activities they had participated in during their visit. Several questions assessed perceived and expected crowding in the study area. These included questions intended to develop standards for the acceptable level of boating use on the reservoir, use at specific recreation sites, and for boat launch waiting times. Questions establishing crowding standards were based on a normative approach (Manning 2007). Specifically, these questions use well-tested wording and practices (i.e., photo displays) for development of standards (Manning 2007, Manning et al. 2010). Other questions include topics of accommodation types used, expenditures on their trip, impacts of weather, the quality and number of recreation developments and their management. Lastly, survey questions were asked about potential issues related to a recreation experience. These issues included parking, shoreline or recreational access, toilet availability, information availability, unsafe or disruptive behaviors by others, and the maintenance/condition of facilities.

Recreation users at the sites sampled (Table D.1) were asked to complete the survey. Surveyed groups were selected using a systematic sampling protocol with a random starting point. In this, a researcher positioned him or herself near a primary exit or parking location and asked the first available group to participate in the survey. One adult member from each visitor group (selected using the 'most recent birthday') was asked to complete the survey. If the individual or the entire group declined the next available individual or group was asked to complete a survey. Survey data were collected throughout the entire sampling day (described below). Where multiple survey locations were present at a site during a data collection period - such as boat ramps, campgrounds, and day use areas - the surveyors' time for data collection was equally divided at each location. The proximity of these locations at a recreation site helped facilitate this coverage. This sampling technique ensures the data are representative and in relative proportion to the use levels at each site.

All surveys were conducted onsite and were self-administered, although a trained surveyor was available for assistance or to answer questions. Surveys took place on both the first day and last day of each data collection period at each site (Table D.2). This resulted in survey sampling on a total of 4 days at each site, 2 weekdays and 2 weekend days. Survey data collection began at $11 \mathrm{a} . \mathrm{m}$. and ended at $5 \mathrm{p} . \mathrm{m}$. This time period was selected for two reasons: 1) because it is recognized as the busiest time of day for recreation in the study area, and 2) it is the same time period that data were collected in 1999, and will therefore maintain comparability with prior data and results. Additional survey data collection was done on the Labor Day holiday (at sites indicated in Table D.2) to ensure that this time period was included in the results.

## Estimation of Annual Recreation Days

Through the use of the data obtained using the aforementioned methods, it was possible to estimate recreation use at recreation sites in the study area. Use was estimated based on the concept of a 'Recreation Day', which is defined by FERC as "each visit by a person to a development for recreation purposes during any portion of a 24 -hour period."

Use estimates for each recreation site in the study area were developed predominantly using the empirical data collected as described in Section D. Secondary data, logical relationships, and assumptions (where necessary) supplemented empirical data. With any use estimate, assumptions are inherent and calculations are idiosyncratic - formulated around site-specific assumptions, available data, logic, and the context of each site. The potential variability in use estimate calculations underscores the need for describing in detail how use estimates were determined at each site. By doing this, future use estimates can be more directly compared to current or past use estimates.

Section E of this report provides detailed use estimate data. Also, the calculation of the number of Recreation Days at each site - including the data, assumptions, logic, and contextual factors used - are detailed.

## E. RESULTS

Based on the methods detailed above, 748 surveys were completed at 24 recreation sites between June 18 and September 10, 2015. This number of visitor surveys produces results that are accurate (at the Project-level) to within $3.6 \%$ (with a confidence level of $95 \%$ ). Also, over 60,000 unique observations were made to count recreation users at recreation sites.

The survey results in this section are shown in frequency tables associated with questions asked in the survey. Where appropriate, measures of central tendency (i.e., mean, median, maximum, minimum) and dispersion (i.e., standard deviation) are presented. In the tables below the standard deviation and sample size are represented by SD and N, respectively. Results are presented based on logical topic groupings, not on the order that they appeared in the survey. Also, some question items are reordered to show results in a more logical sequence of decreasing mean responses. Survey results are presented in this section, with a few noted exceptions, at both the Project-level and the Reservoir-level. Site and management unit level results may be found in appendices A and B, respectively.

The total use counts of vehicles and/or people from the observations are presented for each site in this section. These counts serve as the starting, empirical basis for Projectlevel use estimates detailed in this section. Counts for other recorded variables (e.g., paddlecraft, trailers) and details about the daily and weekly timing of counts are presented in Appendix C.

## Survey Sample Size and Locations

Table E. 1 Number of survey respondents at each reservoir

|  | Frequency | Percent |
| :--- | ---: | ---: |
| Priest Rapids Reservoir | 92 | $12.3 \%$ |
| Wanapum Reservoir | 656 | $87.7 \%$ |
| Total | 748 | $100.0 \%$ |

*Note: The difference in survey numbers per reservoir are a reflection of use levels at each reservoir, not the level of effort in collecting survey data.

Table E. 2 Number of respondents at each sampling location

|  | Frequency | Percent |
| :--- | ---: | ---: |
| Beverly Sand Dunes ORV Park | 5 | 0.7 |
| Buckshot Recreation Area | 4 | 0.5 |
| Burkett Lake Recreation Area | 4 | 0.5 |
| CBRA | 179 | 23.9 |
| Frenchman Coulee Recreation Area | 36 | 4.8 |
| Huntzinger Road Boat Launch | 6 | 0.8 |
| Huntzinger Road Fishing Access Site | 3 | 0.4 |
| Jackson Creek Fish Camp | 5 | 0.7 |
| PRRA | 65 | 8.7 |
| Quilomene Dune \& Bay | 111 | 14.8 |
| Rattlesnake Cove | 11 | 1.5 |
| Riverstone Resort | 12 | 1.6 |
| Rocky Coulee | 41 | 5.5 |
| Sand Hollow | 36 | 4.8 |
| Sunland Boat Launch | 24 | 3.2 |
| Sunland Picnic Area | 8 | 1.1 |
| The Cove | 6 | 0.8 |
| Vantage Boat Launch | 76 | 10.2 |
| Wanapum Dam Lower Boat Launch | 25 | 3.3 |
| Wanapum Dam Overlook | 19 | 2.5 |
| Wanapum Dam Upper Boat Launch | 7 | 0.9 |
| Wanapum Recreation Area (WSP) | 57 | 7.6 |
| Wanapum Turbine Park | 8 | 1.1 |
| Total | 748 | 100 |

## Visitor Demographics

Project-level responses to the question "How many people are in your vehicle today, including yourself? (Mark all that apply)"

Table E. 3 Number of people in respondent's vehicle - Project-level

| Min | Max | Mean | SD |
| :---: | :---: | :---: | :---: |
| 1 | 25 | 3.80 | 2.73 |

Reservoir-level responses to the question "How many people are in your vehicle today, including yourself?"

Table E. 4 Number of people in respondent's vehicle - Reservoir-level

| Min |
| :--- |
| Priest Rapids Reservoir |
| Wanapum Reservoir |

Project-level responses to the question "What is your zip code?" (Note: Reservoir-level responses not reported for zip codes). A GIS analysis was used to determine which Washington-based county each zip code lies in based on the proportion of the zip code within the county boundary. If a zip code straddles a county boundary the county was assigned to the largest portion of the zip code. Additionally, a total of 40 respondents reported zip codes from the states of WI, OR, NM, NC, MT, MN, MI, KS, IL, ID, FL, CO, CA, and AK. One respondent reported being from Germany.

Table E. 5 Home county of all Washington-based survey respondents (derived from zip code data) - Project-level.

| County | Frequency | Percentage |
| :--- | :---: | :---: |
| King | 153 | $23.1 \%$ |
| Grant | 97 | $14.7 \%$ |
| Pierce | 97 | $14.7 \%$ |
| Snohomish | 71 | $10.7 \%$ |
| Yakima | 69 | $10.4 \%$ |
| Kittitas | 52 | $7.9 \%$ |
| Franklin | 21 | $3.2 \%$ |
| Chelan | 14 | $2.1 \%$ |
| Whatcom | 14 | $2.1 \%$ |
| Douglas | 13 | $2.0 \%$ |
| Spokane | 13 | $2.0 \%$ |
| Thurston | 13 | $2.0 \%$ |
| Benton | 9 | $1.4 \%$ |
| Skagit | 8 | $1.2 \%$ |
| Adams | 6 | $0.9 \%$ |
| Clallam | 4 | $0.6 \%$ |
| Clark | 4 | $0.6 \%$ |
| Lewis | 4 | $0.6 \%$ |

## Visitor Trip Characteristics

Project-level response to the question "How much time will you spend on your current trip?"

| Table E. 6 Time spent in hours on current trip |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<1 \mathrm{hr}$ | $1-4 \mathrm{hrs}$. | $5-8 \mathrm{hrs}$ | $>8 \mathrm{hrs}$. | Total | N | Median | Mean | S.D. |
| $4.2 \%$ | $55.2 \%$ | $31.8 \%$ | $8.9 \%$ | $100 \%$ | 359 | 4 | 5.9 | 9.9 |

Table E. 7 Time spent in days on current trip - Project-level

| 1-2 days | 3-4 days | $5-7$ days | $>1$ Week | Total | N | Median | Mean | S.D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $25.1 \%$ | $41.5 \%$ | $21.2 \%$ | $12.2 \%$ | $100 \%$ | 378 | 3 | 7.03 | 22.7 |

Reservoir-level responses to the question "How much time will you spend on your current trip?"
Table E. 8 Time spent in hours on current trip - Reservoir-level

|  | $<1 \mathrm{hr}$ | $1-4 \mathrm{hrs}$ | $5-8 \mathrm{hrs}$ | $>8 \mathrm{hrs}$ | Total | N |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Priest Rapids Reservoir | $6.8 \%$ | $52.3 \%$ | $38.6 \%$ | $2.3 \%$ | $100 \%$ | 44 |
| Wanapum Reservoir | $4.0 \%$ | $58.7 \%$ | $32.6 \%$ | $4.7 \%$ | $100 \%$ | 298 |

Table E. 9 Time spent in days on current trip - Reservoir-level

|  | 1-2days | 3-4days | 5-7days | $>1$ week | Total | N |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Priest Rapids Reservoir | $35.4 \%$ | $22.9 \%$ | $27.1 \%$ | $14.6 \%$ | $100 \%$ | 48 |
| Wanapum Reservoir | $25.8 \%$ | $43.5 \%$ | $19.4 \%$ | $11.3 \%$ | $100 \%$ | 345 |

Project-level responses to the question "If your current trip extends into two or more days, what type of overnight accommodations did you use on your trip?" (check all that apply)

Table E. 10 Project-level type of accommodation used - Project-level Percentage
Checked

| Campground (RV or tent) | $42.7 \%$ |
| :--- | ---: |
| Location: Refer to site-level results tables in the appendix |  |
| Rented cabin/condo/home/motel/hotel | $19.4 \%$ |
| Location: Refer to site-level results tables in the appendix |  |
| Your own home/property | $33.9 \%$ |
| Other (Please specify): | $8.9 \%$ |
| Other Text: Refer to site-level results tables in the appendix |  |

Reservoir-level responses to the questions "If your current trip extends into two or more days, what type of overnight accommodations did you use on your trip?" (check all that apply)

Table E. 11 Type of accommodation used for visitors to Priest Rapids

## Reservoir - Reservoir-level

| Reservoir - Reservoir-level |  |
| :--- | ---: |
|  | Percentage <br> Checked |
| Campground (RV or tent) | $35.4 \%$ |
| Location: Refer to site-level results tables in the appendix |  |
| Rented cabin/condo/home/motel/hotel | $6.2 \%$ |
| Location: Refer to site-level results tables in the appendix |  |
| Your own home/property | $49.2 \%$ |
| Other (Please specify): | $12.3 \%$ |
| Other Text: Refer to site-level results tables in the appendix |  |

Table E. 12 Type of accommodation used for visitors to Wanapum Reservoir - Reservoir-level

|  | Percentage <br> Checked |
| :--- | ---: |
| Campground (RV or tent) | $43.8 \%$ |
| Location: Refer to site-level results tables in the appendix |  |
| Rented cabin/condo/home/motel/hotel | $21.4 \%$ |
| Location: Refer to site-level results tables in the appendix |  |
| Your own home/property | $31.6 \%$ |
| Other (Please specify): | $8.4 \%$ |
| Other Text: Refer to site-level results tables in the appendix |  |

Project-level response to the question "Please estimate how much money you and your party will spend TODAY while on this trip (e.g., fuel, lodging, restaurants, groceries, admissions, fees, outdoor gear, etc.)"

Table E. 13 Estimated expenditures on the day of visit - Project-level

| 0 | Current day Trip Expenditure (\$) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1-50 | 51-100 | 101-150 | 151-200 | 201-300 | 301-500 | $>500$ | Median | Mean | SD |
| 5.5\% | 27.0\% | 22.9\% | 7.6\% | 11.1\% | 9.3\% | 9.4\% | 7.3\% | 100 | 291.3 | 1640.6 |

Reservoir-level responses to the question "Please estimate how much money you and your party will spend TODAY while on this trip (e.g., fuel, lodging, restaurants, groceries, admissions, fees, outdoor gear, etc.)."

Table E. 14 Estimated expenditures on the day of visit for visitors to each reservoir - Reservoir-level

|  | Current day Trip Expenditure (\$) |  |  |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | $1-50$ | $51-100$ | $101-150$ | $151-200$ | $201-300$ | $301-500$ | $>500$ | Median | Mean | SD |
| Priest Rapids Reservoir | $11.3 \%$ | $27.5 \%$ | $28.8 \%$ | $3.8 \%$ | $11.3 \%$ | $8.8 \%$ | $8.8 \%$ | - | 100 | 127.8 | 128.8 |
| Wanapum Reservoir | $4.7 \%$ | $26.9 \%$ | $22.1 \%$ | $8.1 \%$ | $11.1 \%$ | $9.3 \%$ | $9.5 \%$ | $8.3 \%$ | 100 | 313.9 | 1748.6 |

## Recreational Use by Activity

Project-level responses to the question "Please indicate which of the following activities you are participating in on this trip (mark all that apply):"

Table E. 15 Activities participated in by respondents - Project-level

|  | Yes (\% of sample) |
| :--- | :---: |
| Swimming/visiting the beach | $67.6 \%$ |
| Resting/relaxing | $62.9 \%$ |
| Boating | $41.9 \%$ |
| Picnicking | $25.5 \%$ |
| Camping | $25.4 \%$ |
| Waterskiing/tubing/wakeboarding | $24.8 \%$ |
| Wildlife Viewing | $23.0 \%$ |
| Photography | $19.0 \%$ |
| Riding jet skis/wave runners | $13.5 \%$ |
| Golf | $13.0 \%$ |
| Fishing | $12.9 \%$ |
| Attending a concert | $12.3 \%$ |
| Hiking | $10.9 \%$ |
| Canoeing/kayaking/paddle boarding | $7.7 \%$ |
| Visiting a dam | $4.0 \%$ |
| Other | $12.4 \%$ |
| Other Text: Refer to site-level survey results in the appendix |  |

Reservoir-level responses to the question "Please indicate which of the following activities you are participating in on this trip."

Table E. 16 Activities participated in by respondents on the Priest Rapids Reservoir - Reservoir-level

|  | Yes (\% of sample) |
| :--- | :---: |
| Resting/relaxing | $52.8 \%$ |
| Boating | $44.4 \%$ |
| Swimming/visiting the beach | $34.4 \%$ |
| Fishing | $28.1 \%$ |
| Waterskiing/tubing/wakeboarding | $22.5 \%$ |
| Golf | $18.0 \%$ |
| Camping | $16.9 \%$ |
| Wildlife Viewing | $16.7 \%$ |
| Picnicking | $14.6 \%$ |
| Photography | $12.2 \%$ |
| Canoeing/kayaking/paddle boarding | $10.1 \%$ |
| Riding jet skis/wave runners | $8.9 \%$ |
| Hiking | $7.9 \%$ |
| Visiting a dam | $6.7 \%$ |
| Attending a concert | $2.2 \%$ |
| Other | $16.9 \%$ |
| Other Text- Refer to site-level survey results in the appendix |  |

Table E. 17 Activities participated in by respondents on the Wanapum Reservoir - Reservoir-level

|  | Yes (\% of sample) |
| :--- | :---: |
| Swimming/visiting the beach | $72.1 \%$ |
| Resting/relaxing | $64.3 \%$ |
| Boating | $41.5 \%$ |
| Picnicking | $27.0 \%$ |
| Camping | $26.5 \%$ |
| Waterskiing/tubing/wakeboarding | $25.2 \%$ |
| Wildlife Viewing | $23.9 \%$ |
| Photography | $19.9 \%$ |
| Riding jet skis/wave runners | $14.1 \%$ |
| Attending a concert | $13.6 \%$ |
| Golf | $12.3 \%$ |
| Hiking | $11.3 \%$ |
| Fishing | $10.9 \%$ |
| Canoeing/kayaking/paddle boarding | $7.4 \%$ |
| Visiting a dam | $3.7 \%$ |
| Other | $11.8 \%$ |
| Other Text- Refer to site-level survey results in the appendix |  |

Table E. 18 Primary activity on this trip - Project-level

|  | $\%$ of sample |
| :--- | :---: |
| Boating | $24.7 \%$ |
| Resting/relaxing | $16.4 \%$ |
| Swimming/visiting the beach | $14.8 \%$ |
| Attending a concert | $10.2 \%$ |
| Camping | $8.7 \%$ |
| Fishing | $6.6 \%$ |
| Waterskiing/tubing/wakeboarding | $4.4 \%$ |
| Golf | $4.1 \%$ |
| Hiking | $3.0 \%$ |
| Riding jet skis/wave runners | $2.5 \%$ |
| Picnicking | $1.6 \%$ |
| Photography | $1.1 \%$ |
| Wildlife Viewing | $0.8 \%$ |
| Canoeing/kayaking/paddle boarding | $0.8 \%$ |
| Visiting a dam | $0.3 \%$ |

## Visitor Perceptions of Crowding and Crowding Standards

Project-level response to the question "Help us understand crowding issues by answering the following questions. (Mark one response for each item)"

Table E. 19 Crowding issues - Project-level

|  | Not at all <br> Crowded | Slightly <br> Crowded | Moderately <br> Crowded | Extremely <br> Crowded | DK/NA | Mean | SD |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | $58.2 \%$ | $14.9 \%$ | $6.7 \%$ | $8.9 \%$ | $1.7 \%$ | $6.2 \%$ | $1.7 \%$ | $0.9 \%$ | $0.7 \%$ | $1.1 \%$ |
| How crowded did you expect to feel today? | $28.8 \%$ | $11.3 \%$ | $8.6 \%$ | $17.7 \%$ | $6.3 \%$ | $15.9 \%$ | $4.2 \%$ | $4.2 \%$ | $3.0 \%$ | $2.8 \%$ |

Note: Mean based on 9 categories with $1=$ Not at all crowded, $9=$ Extremely crowded
Reservoir-level responses to the question "Help us understand crowding issues by answering the following questions. (Mark one response for each item)"

Table E. 20 Priest Rapids Reservoir crowding issues - Reservoir-level

|  | Not at all <br> Crowded | Slightly <br> Crowded | Moderately <br> Crowded | Extremely <br> Crowded | DK/NA | Mean | SD |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | $80.0 \%$ | $11.8 \%$ | $3.5 \%$ | $3.5 \%$ | $0.0 \%$ | $1.2 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.4 |
| How crowded did you expect to feel today? | $37.8 \%$ | $12.2 \%$ | $12.2 \%$ | $14.6 \%$ | $4.9 \%$ | $7.3 \%$ | $3.7 \%$ | $4.9 \%$ | $2.4 \%$ | $1.2 \%$ | 3.1 |

Note: Mean based on 9 categories with $1=$ Not at all crowded, $9=$ Extremely crowded
Table E. 21 Wanapum Reservoir crowding issues - Reservoir-level

|  | Not at all <br> Crowded | Slightly <br> Crowded | Moderately <br> Crowded | Extremely <br> Crowded | DK/NA | Mean | SD |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | $55.2 \%$ | $15.4 \%$ | $7.2 \%$ | $9.6 \%$ | $2.0 \%$ | $6.9 \%$ | $2.0 \%$ | $1.0 \%$ | $0.8 \%$ | $1.3 \%$ |
| How crowded did you expect to feel today? | $27.5 \%$ | $11.2 \%$ | $8.1 \%$ | $18.2 \%$ | $6.5 \%$ | $17.1 \%$ | $4.2 \%$ | $4.1 \%$ | $3.1 \%$ | $3.0 \%$ |

[^0]Site-level responses to the question "If you used the area shown in photo A, what is the maximum number of people you think could use the recreation site pictured at any one time without you feeling too crowded? "

Note: "Photo A" refers to a photo that corresponds with the use counting photo viewshed shown for each site in Appendix C. Also, because this question is designed and worded to develop site-specific crowding standards no Project or Reservoir-level results are reported. An example photo of Sunland Picnic Area is shown below.


Figure E.1. Example of a "Photo A" referenced in the survey, showing Sunland Picnic Area

Table E. 22 Maximum number of people that could use the recreation site - site-level

|  |  | Number of people |  |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Site | $\leq 20$ | $21-40$ | $41-60$ | $61-80$ | $81-100$ | $>100$ | Min | Max | Mean | SD | N |
| Beverly Sand Dunes ORV Park | $40 \%$ | $20 \%$ | $0 \%$ | $0 \%$ | $40 \%$ | $0 \%$ | 6 | 100 | 51.2 | 45.4 | 5 |
| Buckshot Recreation Area | $50 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $50 \%$ | 6 | 1000 | 503.0 | 702.9 | 2 |
| Burkett Lake Recreation Area | $100 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | 3 | 8 | 5.7 | 2.5 | 3 |
| CBRA | $29 \%$ | $12 \%$ | $7 \%$ | $7 \%$ | $15 \%$ | $30 \%$ | 1 | 1000 | 128.2 | 186.7 | 136 |
| Frenchman Coulee Recreation Area | $52 \%$ | $26 \%$ | $13 \%$ | $0 \%$ | $0 \%$ | $10 \%$ | 5 | 500 | 51.4 | 95.2 | 31 |
| Huntzinger Road Boat Launch | $33 \%$ | $17 \%$ | $33 \%$ | $0 \%$ | $17 \%$ | $0 \%$ | 15 | 100 | 44.2 | 31.8 | 6 |
| Huntzinger Road Fishing Access Site | $100 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | 2 | 8 | 5.3 | 3.1 | 3 |
| Jackson Creek Fish Camp | $100 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | 4 | 20 | 14.7 | 9.2 | 3 |
| PRRA | $54 \%$ | $10 \%$ | $17 \%$ | $4 \%$ | $8 \%$ | $6 \%$ | 1 | 300 | 41.3 | 56.5 | 48 |
| Quilomene Dune \& Bay | $2 \%$ | $1 \%$ | $7 \%$ | $1 \%$ | $16 \%$ | $73 \%$ | 3 | 8000 | 637.0 | 1115.6 | 91 |
| Rattlesnake Cove | $56 \%$ | $22 \%$ | $11 \%$ | $0 \%$ | $0 \%$ | $11 \%$ | 5 | 300 | 55.2 | 92.8 | 9 |
| Riverstone Resort | $10 \%$ | $10 \%$ | $30 \%$ | $0 \%$ | $0 \%$ | $50 \%$ | 20 | 500 | 170.2 | 183.9 | 10 |
| Rocky Coulee | $41 \%$ | $24 \%$ | $24 \%$ | $7 \%$ | $3 \%$ | $0 \%$ | 1 | 100 | 35.4 | 23.5 | 29 |
| Sand Hollow | $43 \%$ | $23 \%$ | $3 \%$ | $3 \%$ | $17 \%$ | $10 \%$ | 4 | 400 | 59.8 | 81.7 | 30 |
| Sunland Boat Launch | $21 \%$ | $32 \%$ | $32 \%$ | $5 \%$ | $11 \%$ | $0 \%$ | 4 | 100 | 43.6 | 26.5 | 19 |
| Sunland Picnic Area | $14 \%$ | $0 \%$ | $29 \%$ | $14 \%$ | $14 \%$ | $29 \%$ | 13 | 200 | 98.3 | 74.4 | 7 |
| The Cove | $17 \%$ | $33 \%$ | $17 \%$ | $0 \%$ | $17 \%$ | $17 \%$ | 20 | 200 | 75.8 | 66.8 | 6 |
| Vantage Boat Launch | $14 \%$ | $10 \%$ | $24 \%$ | $17 \%$ | $22 \%$ | $12 \%$ | 2 | 300 | 73.4 | 53.6 | 58 |
| Wanapum Dam Lower Boat Launch | $31 \%$ | $15 \%$ | $46 \%$ | $8 \%$ | $0 \%$ | $0 \%$ | 3 | 70 | 37.5 | 22.0 | 13 |
| Wanapum Dam Overlook | $67 \%$ | $25 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $8 \%$ | 6 | 260 | 37.3 | 70.8 | 12 |
| Wanapum Dam Upper Boat Launch | $100 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | 1 | 20 | 11.0 | 9.5 | 3 |
| Wanapum Recreation Area (WSP) | $12 \%$ | $13 \%$ | $17 \%$ | $12 \%$ | $17 \%$ | $29 \%$ | 3 | 800 | 116.3 | 134.8 | 52 |
| Wanapum Turbine Park | $14 \%$ | $29 \%$ | $57 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | 20 | 50 | 41.4 | 12.1 | 7 |

Site-level responses to the question "What is the maximum number of people that you saw actually using the recreation site pictured at any one time during your visit today?"

Note: "The recreation site pictured" refers a photo that corresponds with the use counting photo viewshed shown for each site in Appendix C. Also, because this question is designed and worded to develop site-specific crowding standards no Project or Reservoir-level results are reported.

Table E. 23 Maximum number of people that you saw actually using the recreation site - site-level

|  |  |  |  | $1 \leq 20$ | $21-40$ | $41-60$ | $61-80$ | $81-100$ | $>100$ | Number of people | Min | Max | Mean |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Site | 0 | SD | N |  |  |  |  |  |  |  |  |  |  |
| Beverly Sand Dunes ORV Park | $33 \%$ | $67 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | 0 | 10 | 4.3 | 5.1 | 3 |
| Buckshot Recreation Area | $0 \%$ | $100 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | 3 | 3 | 3.0 |  | 1 |
| Burkett Lake Recreation Area | $33 \%$ | $67 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | 0 | 4 | 2.3 | 2.1 | 3 |
| CBRA | $1 \%$ | $39 \%$ | $16 \%$ | $10 \%$ | $4 \%$ | $11 \%$ | $18 \%$ | $17.9 \%$ | 0 | 1500 | 82.4 | 155.4 | 125 |
| Frenchman Coulee Recreation Area | $6 \%$ | $94 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $8.6 \%$ | 0 | 20 | 6.2 | 4.5 | 31 |
| Huntzinger Road Boat Launch | $20 \%$ | $80 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | 0 | 8 | 4.60 | 2.966 | 5 |
| Huntzinger Road Fishing Access Site | $50 \%$ | $50 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | 0 | 4 | 2.00 | 2.828 | 2 |
| Jackson Creek Fish Camp | $0 \%$ | $100 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $40.0 \%$ | 1 | 1 | 1.0 | 0.0 | 2 |
| PRRA | $8 \%$ | $75 \%$ | $15 \%$ | $2 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $7.1 \%$ | 0 | 50 | 11.4 | 12.1 | 48 |
| Quilomene Dune \& Bay | $0 \%$ | $8 \%$ | $8 \%$ | $14 \%$ | $7 \%$ | $17 \%$ | $45 \%$ | $13.5 \%$ | 10 | 3000 | 266.9 | 433.5 | 86 |
| Rattlesnake Cove | $0 \%$ | $78 \%$ | $11 \%$ | $11 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $12.5 \%$ | 4 | 60 | 16.2 | 18.3 | 9 |
| Riverstone Resort | $0 \%$ | $89 \%$ | $0 \%$ | $11 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $9.1 \%$ | 3 | 50 | 15.4 | 14.5 | 9 |
| Rocky Coulee | $19 \%$ | $81 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $11.1 \%$ | 0 | 15 | 4.8 | 4.3 | 27 |
| Sand Hollow | $7 \%$ | $70 \%$ | $10 \%$ | $10 \%$ | $0 \%$ | $0 \%$ | $3 \%$ | $6.3 \%$ | 0 | 500 | 31.5 | 89.6 | 30 |
| Sunland Boat Launch | $0 \%$ | $90 \%$ | $5 \%$ | $0 \%$ | $5 \%$ | $0 \%$ | $0 \%$ | $13.3 \%$ | 2 | 75 | 13.3 | 16.1 | 20 |
| Sunland Picnic Area | $13 \%$ | $63 \%$ | $13 \%$ | $13 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | 0 | 50 | 18.9 | 17.7 | 8 |
| The Cove | $0 \%$ | $100 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | 1 | 2 | 1.5 | 0.5 | 6 |
| Vantage Boat Launch | $2 \%$ | $82 \%$ | $5 \%$ | $7 \%$ | $2 \%$ | $0 \%$ | $2 \%$ | $7.8 \%$ | 0 | 200 | 18.0 | 28.7 | 57 |
| Wanapum Dam Lower Boat Launch | $0 \%$ | $92 \%$ | $8 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $7.7 \%$ | 2 | 30 | 8.2 | 7.9 | 12 |
| Wanapum Dam Overlook | $10 \%$ | $90 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $12.5 \%$ | 0 | 13 | 5.4 | 4.8 | 10 |
| Wanapum Dam Upper Boat Launch | $33 \%$ | $67 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $25.0 \%$ | 0 | 8 | 4.0 | 4.0 | 3 |
| Wanapum Recreation Area (WSP) | $2 \%$ | $47 \%$ | $16 \%$ | $9 \%$ | $2 \%$ | $7 \%$ | $18 \%$ | $18.2 \%$ | 0 | 250 | 52.73 | 61.091 | 45 |
| Wanapum Turbine Park | $57 \%$ | $43 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | $0 \%$ | 0 | 8 | 1.9 | 2.968 | 7 |

Project-level responses to the question "Did you have to wait to use a boat launch today?"
Table E. 24 Response on having to wait to use boat launch (\%) - Project-level

|  | Yes | No | N |
| :---: | :---: | :---: | :---: |
| \% response | $15.8 \%$ | $84.2 \%$ | 247 |

Reservoir-level responses to the question "Did you have to wait to use a boat launch today?"
Table E. 25 Response on having to wait to use boat launch (\%) for each reservoir - Reservoir-level

|  | Yes | No | N |
| :--- | :---: | :---: | :---: |
| Priest Rapids Reservoir | $3.2 \%$ | $96.8 \%$ | 31 |
| Wanapum Reservoir | $17.6 \%$ | $82.4 \%$ | 216 |

Project-level responses to the question "If you waited, how long did you wait to use a boat launch today?"
Table E. 26 Current conditions on waiting times to use boat launch on the Project - Projectlevel

|  | Wait Time (in minutes) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 5 | 10 | 15 | 16 | 20 | Min | Max | Mean | SD |
| $2.5 \%$ | $35.0 \%$ | $47.5 \%$ | $5.0 \%$ | $2.5 \%$ | $7.5 \%$ | 1 | 20 | 6.7 | 7.8 |

Note: Mean waiting times for all people who reported launching a boat was 1.4 minutes. This accounts for the large percentage of people who reported not having to wait to launch a boat.

Reservoir-level responses to the question "How long did you wait to use a boat launch today?"
Table E. 27 Current conditions on waiting times to use boat launch on each reservoir - Reservoir level

|  | Wait Time (in minutes) |  |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 5 | 10 | 15 | 16 | 20 | Min | Max | Mean | SD |
| Priest Rapids Reservoir | $0.0 \%$ | $0.0 \%$ | $50.0 \%$ | $50.0 \%$ | $0.0 \%$ | $0.0 \%$ | 10 | 15 | 12.5 | 3.5 |
| Wanapum Reservoir | $2.6 \%$ | $36.8 \%$ | $47.4 \%$ | $2.6 \%$ | $2.6 \%$ | $7.9 \%$ | 0 | 20 | 6.8 | 5.5 |

Project-level responses to the question "How long of a wait to launch your boat is acceptable to you?"
Table E. 28 Acceptability of waiting times to use boat launch (in minutes) - Project-level
Acceptable waiting times (in minutes)

| 0 | $1-5$ | $6-10$ | $11-15$ | $16-20$ | $21-25$ | $>25$ | Min | Max | Mean | SD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $13.4 \%$ | $21.9 \%$ | $31.6 \%$ | $20.9 \%$ | $6.4 \%$ | $.5 \%$ | $5.3 \%$ | 0 | 120 | 11.2 | 12.3 |

Reservoir-level responses to the question "How long of a wait to launch your boat is acceptable to you?"
Table E. 29 Acceptability of waiting times to use boat launch (in minutes) - Reservoir-level

| Acceptable waiting times (in minutes) |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | $1-5$ | $6-10$ | $11-15$ | $16-20$ | $21-25$ | $>25$ | Min | Max | Mean | SD |
| Priest Rapids | $22.2 \%$ | $33.3 \%$ | $11.1 \%$ | $27.8 \%$ | $0.0 \%$ | $0.0 \%$ | $5.6 \%$ | 0 | 45 | 9.3 | 10.7 |
| Reservoir | $12.4 \%$ | $20.7 \%$ | $33.7 \%$ | $20.1 \%$ | $7.1 \%$ | $0.6 \%$ | $5.3 \%$ | 0 | 120 | 11.4 | 12.5 |
| Wanapum Reservoir |  |  |  |  |  |  |  |  |  |  |  |

Note: For the remaining questions in this section, the photos referenced in the question are contained in Appendix D. Photos 1 through 6 represent 27.4, 13.7, 9.1, 6.9, 4.6, and 3.4 acres per boat, respectively. Because these question are designed and worded to assess crowding on segments of the reservoir used by respondents (presumably on one reservoir or the other), no Project-level results are presented here.

Reservoir-level responses to the question: "We would like to know how many boats you think could use the segments of the reservoirs that you used today without you feeling too crowded and unsafe. To help judge this, we have a series of photos that show different numbers of boats. Please look at these photos."

Please rate each photo by indicating how acceptable you think "how many boats could use the segments of the reservoirs that you used today without you feeling too crowded and unsafe". A rating of -4 means the number of boats is "very unacceptable", and a rating of +4 means the number of boats is "very acceptable".

Table E. 30 Priest Rapids Reservoir - Reservoir-level

|  | Mean | SD | N |
| :--- | :---: | :---: | :---: |
| Photo 1 | 3.14 | 1.6 | 21 |
| Photo 2 | 3.19 | 1.5 | 21 |
| Photo 3 | 2.81 | 1.5 | 21 |
| Photo 4 | 2.33 | 1.9 | 21 |
| Photo 5 | .81 | 2.5 | 21 |
| Photo 6 | .24 | 2.7 | 21 |



Figure E. 2 Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Priest Rapids Reservoir

Table E. 31 Wanapum Reservoir - Reservoir-level

|  | Mean | SD | N |
| :--- | :---: | :---: | :---: |
| Photo 1 | 3.3 | 1.7 | 169 |
| Photo 2 | 3.3 | 1.6 | 167 |
| Photo 3 | 3.2 | 1.6 | 165 |
| Photo 4 | 2.9 | 1.8 | 163 |
| Photo 5 | 2.3 | 2.1 | 170 |
| Photo 6 | 1.9 | 2.5 | 169 |



Figure E. 3 Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Wanapum Reservoir

Reservoir-level responses to the question: "Which photo shows the highest number of boats that should be allowed on the reservoir segments you used today? In other words, at what point should boats be restricted from using the reservoir because it is too crowded and unsafe? (If you think use should not be restricted, please indicate)"

Table E. 32 Highest number of boats to be allowed on the reservoir segment - Reservoir-level

| Photo | Photo 1 | Photo 2 | Photo 3 | Photo 4 | Photo 5 | Photo 6 | Mean | SD |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Priest Rapids Reservoir | $12.5 \%$ | - | $12.5 \%$ | $37.5 \%$ | $25.0 \%$ | $12.5 \%$ | 4.0 | 1.5 |
| Wanapum Reservoir | $1.8 \%$ | $8.9 \%$ | $8.9 \%$ | $14.3 \%$ | $25.0 \%$ | $41.1 \%$ | 4.8 | 1.4 |

Note: Photos 1 through 6 are shown in Appendix D
Reservoir-level responses indicating that "None of the photos show a high enough number of boats to restrict use" (check box if you agree). This response could be indicated instead of selecting a photo in the prior question.

Table E. 33 Agreement that of all the photos shown, none show a high enough number of boats to restrict use - Reservoir-level

|  | Indicated | N | Did not indicate | N |
| :--- | :---: | :---: | :---: | :---: |
| Priest Rapids Reservoir | $58.8 \%$ | 10 | $41.2 \%$ | 7 |
| Wanapum Reservoir | $68.2 \%$ | 105 | $31.8 \%$ | 49 |

Note: Photos are shown in Appendix D

Reservoir-level responses to the question "Which photo looks most like the number of boats you typically saw on the reservoir segments you used today?"

Table E. 34 Number of boats typically seen on the reservoir - Reservoir-level

|  | Photo 1 | Photo 2 | Photo 3 | Photo 4 | Photo 5 | Photo 6 | Mean | SD |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Priest Rapids Reservoir | $30.0 \%$ | $30.0 \%$ | $25.0 \%$ | $5.0 \%$ | $5.0 \%$ | $5.0 \%$ | 2.4 | 1.4 |
| Wanapum Reservoir | $13.1 \%$ | $13.8 \%$ | $15.4 \%$ | $18.5 \%$ | $11.5 \%$ | $27.7 \%$ | 3.9 | 1.8 |

Note: Photos 1 through 6 are shown in Appendix D

## Visitor Perceptions of Issues and Suggestions for Changes

Project-level response to the question "Did any of the following conditions adversely affect your trip? (mark all that apply)"

Table E. 35 Conditions adversely affecting trip

- Project-level

|  | Yes | No |
| :--- | :---: | :---: |
| Strong winds | $55.1 \%$ | $44.9 \%$ |
| Lack of shade from the sun | $41.0 \%$ | $59.0 \%$ |
| Low water levels | $17.2 \%$ | $82.8 \%$ |
| Lack of shelter from the weather | $7.4 \%$ | $92.6 \%$ |
| Lack of ADA accessibility | $2.3 \%$ | $97.7 \%$ |

Reservoir-level responses to the question "Did any of the following conditions adversely affect your trip?"

Table E. 36 Priest Rapids Reservoir - Reservoir-level

|  | Yes | No |
| :--- | :---: | :---: |
| Strong winds | $66.7 \%$ | $33.3 \%$ |
| Lack of shade from the sun | $37.5 \%$ | $62.5 \%$ |
| Low water levels | $4.2 \%$ | $95.8 \%$ |
| Lack of shelter from the weather | $4.2 \%$ | $95.8 \%$ |
| Lack of ADA accessibility | $4.2 \%$ | $95.8 \%$ |

Table E. 37 Wanapum Reservoir - Reservoir-level

|  | Yes | No |
| :--- | :---: | :---: |
| Strong winds | $53.3 \%$ | $46.7 \%$ |
| Lack of shade from the sun | $41.6 \%$ | $58.4 \%$ |
| Low water levels | $19.3 \%$ | $80.7 \%$ |
| Lack of shelter from the weather | $7.9 \%$ | $92.1 \%$ |
| Lack of ADA accessibility | $2.0 \%$ | $98.0 \%$ |

Project-level themes emerging from the open ended question "If the above conditions affected your trip, describe how.

Note: Qualitative themes are only presented at the Project-level. Frequencies of themes are not presented because of the qualitative nature of these results. However, each theme represents responses from multiple respondents, not just one. Singular responses are not presented as a theme or a result, but may be found in the original data set.

Table E. 38 Themes describing how conditions adversely affected a trip - Project-level
Bothered/inconvenienced due to weather conditions (i.e., where weather conditions have affected the person)
Issues due to access
Issues with lack of facilities (e.g., shade and windbreaks needed, ramp length an issue in low water) No issues/ no problems
Impact on activity due to conditions (i.e., where water, wind, sun, or heat specifically affected the activity)

Project-level response to the question "Grant PUD is interested in your opinion about the level of existing development and management at the reservoirs. Please indicate a response for any of the following facilities you used during your visit."

Table E. 39 Opinions on development and management - Project level

|  | Too high |  | About right |  |  |  |  | Too Low |  | DK | Mean | SD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of public docks | 0.6\% | 1.5\% | 2.3\% | 2.7\% | 58.8\% | 4.2\% | 9.3\% | 5.9\% | 14.6\% | 26.3\% | 5.8 | 1.7 |
| Number of restrooms/toilets | 0.9\% | 0.9\% | 0.6\% | 1.1\% | 65.5\% | 5.6\% | 8.1\% | 3.4\% | 13.9\% | 5.1\% | 5.7 | 1.6 |
| Number of hiking trails | 2.6\% | 1.0\% | 3.8\% | 2.9\% | 58.8\% | 6.0\% | 9.4\% | 3.8\% | 11.8\% | 34.4\% | 5.6 | 1.7 |
| Quality of restrooms/toilets | 2.2\% | 1.2\% | 3.8\% | 4.0\% | 60.0\% | 4.8\% | 8.7\% | 3.2\% | 12.0\% | 10.7\% | 5.5 | 1.7 |
| Quality of public docks | 1.1\% | 1.5\% | 3.9\% | 3.9\% | 64.0\% | 3.3\% | 5.9\% | 4.6\% | 11.8\% | 27.5\% | 5.5 | 1.7 |
| Quality of hiking trails | 1.8\% | 1.5\% | 2.3\% | 4.8\% | 62.6\% | 7.0\% | 5.8\% | 2.8\% | 11.6\% | 36.2\% | 5.5 | 1.6 |
| Number of campsites | 1.5\% | 1.1\% | 1.9\% | 3.7\% | 67.9\% | 3.2\% | 5.8\% | 4.1\% | 10.8\% | 26.5\% | 5.5 | 1.6 |
| Amount of shoreline available for use | 2.3\% | 1.5\% | 3.4\% | 5.4\% | 60.2\% | 5.8\% | 9.1\% | 3.2\% | 9.1\% | 5.5\% | 5.4 | 1.6 |
| Number of swim/sunbathing areas | 1.4\% | 1.0\% | 3.8\% | 3.8\% | 63.3\% | 6.7\% | 11.1\% | 3.9\% | 5.1\% | 10.9\% | 5.4 | 1.4 |
| Number of boat launches | 0.9\% | 0.9\% | 2.6\% | 3.3\% | 72.3\% | 3.5\% | 6.1\% | 2.8\% | 7.4\% | 17.4\% | 5.4 | 1.4 |
| Quality of swim/sunbathing areas | 1.8\% | 1.1\% | 4.6\% | 4.1\% | 64.5\% | 6.7\% | 8.5\% | 3.4\% | 5.5\% | 12.5\% | 5.3 | 1.4 |
| Quality of on-line campground reservation system | 1.7\% | 1.2\% | 1.7\% | 4.7\% | 75.9\% | 3.8\% | 4.1\% | 1.2\% | 5.8\% | 44.9\% | 5.2 | 1.3 |
| Number of picnic or day use areas | 2.0\% | 1.2\% | 3.7\% | 5.1\% | 70.5\% | 5.4\% | 4.4\% | 2.0\% | 5.6\% | 10.2\% | 5.1 | 1.4 |
| Quality of campsites | 2.0\% | 2.0\% | 3.4\% | 3.2\% | 71.9\% | 6.1\% | 3.8\% | 2.3\% | 5.2\% | 30.0\% | 5.1 | 1.4 |
| Quality of boat launches | 1.5\% | 3.4\% | 6.2\% | 5.4\% | 66.5\% | 3.7\% | 3.9\% | 2.6\% | 6.7\% | 18.2\% | 5.1 | 1.5 |
| Quality of picnic or day use areas | 2.1\% | 2.4\% | 4.1\% | 6.6\% | 68.2\% | 5.0\% | 5.2\% | 1.6\% | 4.8\% | 9.8\% | 5.1 | 1.4 |
| Level of public recreation development | 2.9\% | 1.3\% | 2.0\% | 3.6\% | 77.3\% | 4.6\% | 3.1\% | 0.8\% | 4.4\% | 5.4\% | 5.0 | 1.2 |
| Cost to use facilities | 6.3\% | 1.6\% | 4.5\% | 4.9\% | 78.2\% | 1.0\% | 0.6\% | 0.4\% | 2.5\% | 20.9\% | 4.7 | 1.3 |

[^1]Reservoir-level responses to the question "Grant PUD is interested in your opinion about the level of existing development and management at the reservoirs. Please indicate a response for any of the following facilities you used during your visit."

Table E. 40 Opinions on development and management on the Priest Rapids Reservoir - Reservoir-level

|  | Too high |  |  |  |  |  |  |  | About right |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Table E. 41 Opinions on development and management on the Wanapum Reservoir - Reservoir-level

|  | Too high |  |  | About right |  |  |  | Too Low |  | DK | Mean | SD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of public docks | 0.7\% | 1.2\% | 2.2\% | 2.9\% | 57.2\% | 4.7\% | 10.1\% | 5.9\% | 15.0\% | 28.0\% | 5.9 | 1.7 |
| Number of restrooms/toilets | 0.9\% | 0.9\% | 0.5\% | 1.2\% | 64.4\% | 6.1\% | 7.8\% | 3.6\% | 14.7\% | 5.4\% | 5.8 | 1.6 |
| Quality of public docks | 1.3\% | 1.3\% | 3.3\% | 4.3\% | 62.0\% | 3.3\% | 6.6\% | 4.8\% | 13.2\% | 29.2\% | 5.6 | 1.7 |
| Number of hiking trails | 3.0\% | 0.8\% | 3.3\% | 3.0\% | 58.1\% | 6.6\% | 8.8\% | 3.8\% | 12.6\% | 35.3\% | 5.6 | 1.8 |
| Quality of restrooms/toilets | 2.3\% | 1.1\% | 3.6\% | 4.2\% | 58.5\% | 4.4\% | 9.3\% | 3.4\% | 13.1\% | 11.3\% | 5.6 | 1.8 |
| Quality of hiking trails | 2.0\% | 1.2\% | 1.7\% | 5.2\% | 60.1\% | 7.8\% | 5.8\% | 3.2\% | 13.0\% | 37.5\% | 5.6 | 1.7 |
| Number of campsites | 1.7\% | 1.0\% | 2.2\% | 3.9\% | 65.7\% | 3.4\% | 6.4\% | 4.2\% | 11.5\% | 27.0\% | 5.6 | 1.6 |
| Number of boat launches | 1.1\% | 0.9\% | 2.4\% | 3.4\% | 70.7\% | 3.6\% | 6.2\% | 3.2\% | 8.5\% | 18.5\% | 5.4 | 1.5 |
| Number of swim/sunbathing areas | 1.5\% | 1.1\% | 3.6\% | 4.2\% | 62.4\% | 6.5\% | 11.1\% | 4.0\% | 5.5\% | 10.3\% | 5.4 | 1.5 |
| Amount of shoreline available for use | 2.2\% | 1.6\% | 3.8\% | 5.7\% | 59.5\% | 6.2\% | 9.2\% | 3.7\% | 8.1\% | 5.5\% | 5.4 | 1.6 |
| Quality of swim/sunbathing areas | 2.0\% | 1.2\% | 4.8\% | 4.2\% | 63.4\% | 6.9\% | 7.7\% | 3.8\% | 6.1\% | 11.9\% | 5.3 | 1.5 |
| Quality of on-line campground reservation system | 2.0\% | 1.0\% | 2.0\% | 4.7\% | 75.1\% | 3.7\% | 4.0\% | 1.3\% | 6.3\% | 45.7\% | 5.2 | 1.3 |
| Quality of boat launches | 1.5\% | 3.0\% | 5.4\% | 5.4\% | 65.7\% | 3.9\% | 4.5\% | 2.8\% | 7.8\% | 19.3\% | 5.2 | 1.6 |
| Number of picnic or day use areas | 1.9\% | 1.0\% | 4.2\% | 5.2\% | 69.1\% | 6.1\% | 4.8\% | 2.3\% | 5.5\% | 9.8\% | 5.2 | 1.4 |
| Quality of campsites | 2.3\% | 2.1\% | 3.4\% | 3.6\% | 69.8\% | 6.2\% | 4.4\% | 2.3\% | 5.9\% | 30.5\% | 5.2 | 1.4 |
| Quality of picnic or day use areas | 2.1\% | 2.3\% | 4.1\% | 6.4\% | 67.4\% | 5.2\% | 5.6\% | 1.7\% | 5.0\% | 9.5\% | 5.1 | 1.4 |
| Level of public recreation development | 2.8\% | 1.3\% | 1.9\% | 4.1\% | 76.2\% | 4.6\% | 3.3\% | 0.9\% | 4.8\% | 5.4\% | 5.1 | 1.3 |
| Cost to use facilities | 7.2\% | 1.8\% | 5.2\% | 5.4\% | 75.5\% | 0.9\% | 0.7\% | 0.4\% | 2.9\% | 21.7\% | 4.7 | 1.4 |

Note: Response Scale 1= Too high, 5=About Right, 9= Too Low

Project-level response to the question "Please indicate the extent that the following issues were problems for you during your visit today."
Table E. 42 Issues that caused problems during the visit - Project-level

|  | No Problem |  |  |  |  |  | Big problem | DK | Mean | SD | N |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | $51.4 \%$ | $6.3 \%$ | $7.6 \%$ | $7.6 \%$ | $13.2 \%$ | $4.1 \%$ | $4.3 \%$ | $2.2 \%$ | $3.2 \%$ | $6.8 \%$ | 2.8 | 2.4 |
| 676 |  |  |  |  |  |  |  |  |  |  |  |  |
| Adequate information/warnings <br> $\quad$ provided | $66.5 \%$ | $8.2 \%$ | $6.1 \%$ | $3.7 \%$ | $8.0 \%$ | $2.2 \%$ | $2.7 \%$ | $0.6 \%$ | $1.9 \%$ | $7.6 \%$ | 2.1 | 1.9 |

Other Text: Refer to site-level survey results in the appendix
Note: Response scale $1=$ No problem, $9=$ Big problem
Reservoir-level responses to the question "Please indicate the extent that the following issues were problems for you during your visit today"
Table E.43 Issues that caused problems during the visit for Priest Rapids Reservoir - Reservoir-level

| No Problem |  |  |  |  |  |  |  | Big problem |  | DK | Mean | SD | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 55.7\% | 6.3\% | 6.3\% | 6.3\% | 16.5\% | 1.3\% | 2.5\% | 2.5\% | 2.5\% | 4.8\% | 2.6 | 2.2 | 83 |
| Litter around the reservoir shoreline | 81.7\% | 9.8\% | 1.2\% | 0.0\% | 2.4\% | 0.0\% | 0.0\% | 1.2\% | 3.7\% | 3.5\% | 1.6 | 1.8 | 85 |
| Adequate information/warnings provided | 80.8\% | 6.4\% | 3.8\% | 3.8\% | 3.8\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 7.1\% | 1.5 | 1.3 | 84 |
| Disruptive behavior by others | 87.0\% | 2.6\% | 3.9\% | 0.0\% | 5.2\% | 0.0\% | 0.0\% | 0.0\% | 1.3\% | 8.3\% | 1.4 | 1.3 | 84 |
| Adequate safety and security | 85.2\% | 7.4\% | 3.7\% | 0.0\% | 1.2\% | 1.2\% | 0.0\% | 0.0\% | 1.2\% | 3.6\% | 1.4 | 1.2 | 84 |
| Other | 14.3\% | 42.9\% | 0.0\% | 0.0\% | 14.3\% | 0.0\% | 0.0\% | 0.0\% | 28.6\% | 0.0\% | 4.3 | 3.3 | 14 |
| Other Text-Refer to site-level survey | results in | the app |  |  |  |  |  |  |  |  |  |  |  |

Note: Response scale $1=$ No problem, $9=$ Big problem

Table E. 44 Issues that caused problems during the visit for Wanapum Reservoir - Reservoir-level

| No Problem |  |  |  |  |  |  |  | Big problem |  | DK | Mean | SD | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 50.8\% | 6.4\% | 7.8\% | 7.8\% | 12.7\% | 4.5\% | 4.5\% | 2.2\% | 3.3\% | 7.1\% | 2.9 | 2.4 | 593 |
| Adequate information/warnings provided | 64.4\% | 8.4\% | 6.4\% | 3.7\% | 8.6\% | 2.6\% | 3.1\% | 0.7\% | 2.0\% | 7.6\% | 2.2 | 2.0 | 590 |
| Litter around the reservoir shoreline | 64.1\% | 10.9\% | 6.3\% | 2.8\% | 5.6\% | 4.2\% | 3.3\% | 1.4\% | 1.6\% | 4.6\% | 2.2 | 2.0 | 604 |
| Disruptive behavior by others | 70.5\% | 7.5\% | 4.4\% | 3.2\% | 6.9\% | 1.4\% | 2.5\% | 1.4\% | 2.1\% | 5.5\% | 2.0 | 2.0 | 595 |
| Adequate safety and security | 71.7\% | 8.9\% | 5.3\% | 3.9\% | 4.1\% | 1.8\% | 2.0\% | 1.2\% | 1.1\% | 6.0\% | 1.9 | 1.7 | 598 |
| Other | 46.3\% | 9.8\% | 0.0\% | 2.4\% | 7.3\% | 0.0\% | 4.9\% | 0.0\% | 29.3\% | 26.8\% | 4.1 | 3.6 | 56 |
| Other Text- Refer to site-level survey | lts in th | append |  |  |  |  |  |  |  |  |  |  |  |

Note: Response scale 1= No problem, $9=$ Big problem

Note: The remaining result tables in this section present themes that emerged from qualitative responses to open-ended questions. Qualitative themes are only presented at the Project-level. Frequencies of themes are not presented because of the qualitative nature of these results. However, each theme represents responses from multiple respondents, not just one. Singular responses are not presented as a theme or a result, but may be found in the original data set.

Project-level themes that emerged from the question "What did you like most about your visit?"
Table E. 45 Themes and examples describing what respondents like most about their visit - Project-level

| Theme | Theme examples |
| :--- | :--- |
| Aesthetics | Scenic beauty, nature, natural features or characteristics |
| Quality of operations and <br> maintenance | Quiet, good staff, lack of crowding, atmosphere, safety, cleanliness |
| Site development | Everything pertaining to the recreation site including boat launches, <br> beach, water, campsite, ease of access, new/update facilities, parking, <br> bathrooms, signs, and safety |
| All of the above/everything | Answers mentions "everything" or multiple themes from above |

Project-level themes that emerged from the qualitative responses to the open-ended question "What did you like least about your visit?"

Table E. 46 Themes and examples describing what respondents like least about their visit - Project-level

| Theme | Theme examples |
| :--- | :--- |
| No concerns | There was nothing about the experience I didn't like |
| Weather/shelter | Heat, wind, choppy water, need more shade and covered picnic/camp <br> areas. |
| Support facilities | Proximity to highway (too close/too noisy), proximity to <br> grocery/resources (too far). |
| Crowding and user <br> conflicts | Too many people, poor etiquette (leaving trash, loud music, noise level, <br> etc.) from other patrons, complaints about pets |
| Site Development | Too many gravel roads (prefer paved) and rocky beaches (prefer sand) |
| Operations and <br> Maintenance | Dirty bathrooms, glass, litter, weeds, overgrown brush on beaches and <br> grounds generally, lack of trash bins, excess of geese/duck feces, <br> odors/murkiness in water, too many bugs (spiders specifically), negative <br> customer relations with patrons, surveying patrons |
| Extraneous/Out of PUD | Boat broke down, had to leave early, family couldn't come, poor <br> management control <br> communication about event scheduling and cancellations, fishing <br> success, air quality (smoke). |
| Parking | Not enough parking or parking being inappropriately used (vehicles <br> using trailer parking) |

Continued.../

| Quality of facilities | Need more restrooms (with sanitizer, showers), kid friendly areas (recent <br> park addition was poorly rated), swimming areas, campsites, potable <br> water near campsites, condition of restrooms and other amenities, lack of <br> food and beverage services, boat launches and docks in need of <br> repair/redesign (e.g., dangerous, unstable, too small, or missing dock <br> entirely), sites closed or under construction |
| :--- | :--- |
| Fees and regulations | Charging fees, fire restrictions, and restricted fishing areas (e.g., docks), <br> intimidating policing of sites, Discovery Pass |
| Water level | Water table too low/receding |

Project-level themes that emerged from the qualitative responses to the open-ended question "If you could ask Grant PUD to change some things about the way they manage recreation at Wanapum and Priest Rapids reservoirs, what would you ask them to do?"

Table E. 47 Themes and examples describing suggestions respondents had for Grant PUD Management - Project-level

| Theme | Theme examples |
| :--- | :--- |
| No complaints or <br> suggestions | Have no complaints, no suggestion, like site as it is, don't know |
| Maintenance and <br> improvement of <br> facilities | Improving condition or cleanliness of existing facility |
| Increase in number of <br> facilities/Adding new <br> facilities | More access, more shade, increase or add facilities like parking spots and <br> benches |
| Improving management/ <br> operations | Signs, personnel, crowd control |

## Recreational Use in Reservoir Segments

Site-level responses to the question, "If you were on the water today, what areas of the Priest Rapids/Wanapum reservoirs did you use today? (mark all areas used)". The map below was used by respondents to indicate their use locations.


Figure E. 4 Map used by respondents to indicate the locations they used on the Project reservoirs. The management unit names and boundaries were not shown to respondents.

Project-level responses to the question "If you were on the water today, what areas of the Priest Rapids/Wanapum reservoirs did you use today? (Mark all areas used)"

Table E. 48 Percent who used different management unit areas on the project - Project-level

| Site | Unit A | Unit B | Unit C | Unit D | Unit E | Unit F | Unit G | N |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| \% respondents who used area | $14.5 \%$ | $41.0 \%$ | $59.0 \%$ | $23.0 \%$ | $19.5 \%$ | $5.5 \%$ | $9.5 \%$ | 200 |

Reservoir-level responses to the question "If you were on the water today, what areas of the Priest Rapids/Wanapum reservoirs did you use today? (Mark all areas used)"

Table E. 49 Percent response on used areas of the Priest Rapids/Wanapum Reservoirs - Reservoir-level

|  | \% response indicating use in the area |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Wanapum Reservoir Management Units |  |  |  |  |  |  |  |  | Priest Rapids Reservoir <br> Management Units |  |  |
|  | Unit A | Unit B | Unit C | Unit D | Unit E | Unit F | Unit G | N |  |  |  |  |
| Priest Rapids Reservoir <br> Respondents | $9.5 \%$ | $9.5 \%$ | $9.5 \%$ | $9.5 \%$ | $14.3 \%$ | $28.6 \%$ | $76.2 \%$ | 21 |  |  |  |  |
| Wanapum Reservoir <br> Wespondents | $15.1 \%$ | $44.7 \%$ | $64.8 \%$ | $24.6 \%$ | $20.1 \%$ | $2.8 \%$ | $1.7 \%$ | 179 |  |  |  |  |

## Recreational Use Estimates

As described in the methods section of this report, use counts were conducted for a majority of sites and amenities on the Project, either by field cameras or observer-based counts. The results of field camera counts are detailed for each site in Appendix C. The following table shows a summary of these counts by reporting the number of vehicles and/or people that resulted from field cameras counts during the data collection period. Where vehicles were the basis of counts (i.e., with most field cameras) these were translated into an equivalent number of people by using the most relevant survey data on the number of people per vehicle. Observer-based count results are also shown in the table below.

To derive an annual estimate of recreation use of the Project several adjustments were made to the counts resulting from the data collection period. Specifically, the counts were adjusted upward (by the percentage shown in the table below) to account for times outside of the data collection period, both during the day and throughout the peak use season. Also, adjustments were made to account for use at a site that might not have been observed by the field cameras or the observers, and for times of the year outside of the peak use season. Adjustment factors were derived from Grant PUD staff input, the judgment of the PI, and the empirical data contained in Appendix C. The outcomes of this process are estimated annual use counts for each amenity and a use estimate of $\mathbf{3 4 6 , 5 9 7}$ Recreation Days for the Project. It should be noted that for marinas, the golf course, and some campgrounds, where use empirical data were unavailable or unreliable, use number estimates are based on the judgment of Grant PUD staff and the PI.

Table E. 50 Use count data, calculation parameters, and site and Project-level use estimates

| Site name | Amenity |  | $\begin{aligned} & \frac{0}{0} \\ & \frac{\pi}{0} \\ & 2 \\ & 0 \\ & 0 \\ & 0.0 \\ & 0 \end{aligned}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Columbia Siding | Access Point | - | - | 0 | 4 | 80\% | 84.0 | 0\% | 0 | 20\% | 0 |
| A6 Memorial | Informal Use Area (Boat In) | - | - | 18 | 4 | 80\% | 21.0 | 0\% | 680 | 20\% | 816 |
| Tarpiscan Creek | Hunting Area | - | - | 1 | 4 | 80\% | 21.0 | 0\% | 38 | 20\% | 45 |
| Apricot Orchard Boat Launch | Access Point | - | - | 4 | 4 | 80\% | 21.0 | 0\% | 151 | 20\% | 181 |
| Apricot Orchard Boat Launch | Hunting Area | - | - | 0 | 4 | 80\% | 84.0 | 0\% | 0 | 20\% | 0 |
| Columbia Cliffs | Informal Use Area (Boat In) | - | - | 23 | 4 | 80\% | 21.0 | 0\% | 869 | 20\% | 1,043 |
| Upper West Bar | Hunting Area | - | - | 2 | 4 | 80\% | 21.0 | 0\% | 76 | 20\% | 91 |
| Lower West Bar | Informal Use Area (Boat In) | - | - | 38 | 4 | 80\% | 21.0 | 0\% | 1,436 | 20\% | 1,724 |
| CBRA Off-Is. | Boat Launch | 2820 | 4.5 | 12,690 | 32 | 20\% | 2.6 | 20\% | 47,968 | 20\% | 57,562 |
| CBRA Off-Is. | Campground | - | - | - | - | - | - | - | 9,389 | 20\% | 11,267 |
| CBRA Off-Is. | Marina | - | - | - | - | - | - | - | 596 | 20\% | 715 |
| CBRA Off-Is. | Access Point | - | - | 30 | 4 | 80\% | 21.0 | 0\% | 1,134 | 20\% | 1,361 |
| CBRA On-Is | Active Recreation Area | 340 | 4.5 | 1,530 | 32 | 20\% | 2.6 | 20\% | 5,783 | 20\% | 6,940 |
| CBRA On-Is. | Boat Launch | 87 | 4.5 | 392 | 16 | 20\% | 5.3 | 0\% | 2,466 | 20\% | 2,960 |
| CBRA On-Is. | Picnic Area | 714 | 4.5 | 3,213 | 32 | 20\% | 2.6 | 50\% | 15,181 | 20\% | 18,218 |
| CBRA On-Is. | Informal Use Area (Boat In) | - | - | 50 | 4 | 80\% | 21.0 | 0\% | 1,890 | 20\% | 2,268 |
| CBRA On-Is. (Golf Course) | Active Recreation Area | - | - | - | - | - | - | - | - | - | 9,000 |

Table E. 50 (continued) Use count data, calculation parameters, and site and Project-level use estimates

| Site name | Amenity |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { Adjustment For Non-Peak } \\ & \text { Season Use } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Quincy Wildlife Area | Access Point | - |  | 30 | 4 | 80\% | 21.0 | 0\% | 1,134 | 20\% | 1,361 |
| Rattlesnake Cove | Picnic Area | 138 | 3.1 | 428 | 32 | 20\% | 2.6 | 0\% | 1,348 | 20\% | 1,617 |
| Rattlesnake Cove | Swim Area |  |  |  |  | Accoun | d for a | ove |  |  |  |
| Sunland Boat Launch | Boat Launch | 3268 | 4.2 | 13,628 | 32 | 20\% | 2.6 | 0\% | 42,927 | 20\% | 51,512 |
| Sunland Shoreline | Access Point | - | - | 160 | 4 | 80\% | 21.0 | 0\% | 6,048 | 20\% | 7,258 |
| Sunland Picnic Area | Picnic Area | - | - | 147 | 32 | 20\% | 2.6 | 40\% | 648 | 20\% | 778 |
| Quilomene Dune and Bay | Informal Use Area (Boat In) | 1426 | 5.5 | 7,843 | 32 | 20\% | 2.6 | 0\% | 24,705 | 20\% | 29,647 |
| Quilomene Dune and Bay | Dispersed Camp Area | - | - | 2 | 4 | 80\% | 21.0 | 0\% | 76 | 20\% | 91 |
| Quilomene Bar | Hunting Area | - | - | 0 | 4 | 80\% | 21.0 | 0\% | 0 | 20\% | 0 |
| Whiskey Dick Creek | Hunting Area | - | - | 4 | 4 | 80\% | 21.0 | 0\% | 151 | 20\% | 181 |
| Cayuse Creek | Hunting Area | - | - | 0 | 4 | 80\% | 21.0 | 0\% | 0 | 20\% | 0 |
| Frenchman Coulee Recreation Area | Picnic Area | 452 | 2.1 | 949 | 32 | 20\% | 2.6 | 0\% | 2,990 | 20\% | 3,588 |
| Frenchman Coulee Recreation Area | Trail | Accounted for above |  |  |  |  |  |  |  |  |  |
| Frenchman Coulee Recreation Area | Boat Launch | Accounted for above |  |  |  |  |  |  |  |  |  |

Table E. 50 (continued) Use count data, calculation parameters, and site and Project-level use estimates

| Site name | Amenity |  | $\begin{aligned} & \frac{0}{0} \\ & \frac{0}{0} \\ & 0 \\ & 0 \\ & 0.0 \\ & 0.0 \end{aligned}$ |  |  |  |  |  |  | $\begin{aligned} & \text { Adjustment For Non-Peak } \\ & \text { Season Use } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rocky Coulee | Boat Launch | - | - | 85 | 43 | 20\% | 2.0 | - | 199 | 20\% | 239 |
| Rocky Coulee | Campground | - | - | - | - | - | - | - | 400 | 20\% | 480 |
| Rocky Coulee | Picnic Area | - | - | 18 | 32 | 20\% | 2.6 | 0\% | 57 | 20\% | 68 |
| Riverstone Resort | Access Point | - | - | 35 | 4 | 80\% | 21.0 | 0\% | 1,323 | 20\% | 1,588 |
| Riverstone Resort | Marina | - | - | - | - | - | - | - | - | - | 0 |
| Vantage Boat Launch | Boat Launch | 3115 | 2.7 | 8,411 | 32 | 20\% | 2.6 | 10\% | 29,142 | 20\% | 34,971 |
| Vantage Boat Launch | Picnic Area | Accounted for above |  |  |  |  |  |  |  |  |  |
| Airstrip Access Area | Informal Use Area (Boat In) | - | - | 0 | 4 | 80\% | 84.0 | 0\% | 0 | 20\% | 0 |
| Sand Hollow | Campground | - | - | - | - | - | - | - | 1,049 | 20\% | 1,259 |
| Sand Hollow | Informal Use Area | - | - | 87 | 4 | 20\% | 21.0 | 0\% | 2,192 | 20\% | 2,631 |
| Sand Hollow | Picnic Area 1 | 931 | 3.1 | 2,886 | 21 | 20\% | 4.0 | 15\% | 15,931 | 20\% | 19,118 |
| Sand Hollow | Picnic Area 2 | Accounted for above |  |  |  |  |  |  |  |  |  |
| Sand Hollow | Picnic Area 3 | Accounted for above |  |  |  |  |  |  |  |  |  |
| Sand Hollow | Swim Area | Accounted for above |  |  |  |  |  |  |  |  |  |
| Sand Hollow (North) | Access Point | - | - | 6 | 4 | 80\% | 21.0 | 0\% | 227 | 20\% | 272 |

Table E. 50 (continued) Use count data, calculation parameters, and site and Project-level use estimates


Table E. 50 (continued) Use count data, calculation parameters, and site and Project-level use estimates

| Site name | Amenity |  | $\begin{aligned} & \frac{0}{0} \\ & \frac{0}{0} \\ & 0 \\ & 0 \\ & 0 \\ & 0.0 \\ & 0 \end{aligned}$ |  |  |  |  |  | On 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | $\begin{aligned} & \text { Adjustment For Non-Peak } \\ & \text { Season Use } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Huntzinger Road Fishing Access Site | Reservoir Fishing Amenity | - | - | 16 | 16 | 20\% | 5.3 | 0\% | 101 | 20\% | 121 |
| The Cove | Picnic Area | 238 | 1.7 | 405 | 32 | 20\% | 2.6 | 0\% | 1,274 | 20\% | 1,529 |
| The Cove | Boat Launch |  |  |  |  | Accoun | for | ove |  |  |  |
| Crab Creek Park | Access Point | - | - | 7 | 4 | 80\% | 21.0 | 0\% | 265 | 20\% | 318 |
| Burkett Lake Recreation Area | Access Point | - | - | 12 | 4 | 80\% | 21.0 | 0\% | 454 | 20\% | 544 |
| Burkett Lake Recreation Area | Trail | - | - | 6 | 32 | 80\% | 2.6 | 0\% | 28 | 20\% | 34 |
| Burkett Lake Recreation Area | Overlook Vista | - | - | 0 | 32 | 80\% | 2.6 | 0\% | 0 | 20\% | 0 |
| Beverly Sand Dunes ORV Park | Other (ORV Park) | - | - | 14 | 4 | 80\% | 21.0 | 0\% | 529 | 20\% | 635 |
| Beverly Sand Dunes ORV Park | Dispersed Camp Area | - | - | 3 | 4 | 80\% | 21.0 | 0\% | 113 | 20\% | 136 |
| Haystack Rocks | Access Point | - | - | 22 | 4 | 80\% | 21.0 | 0\% | 665 | 20\% | 798 |
| Sentinel Gap | Access Point | - | - | 0 | 4 | 80\% | 21.0 | 0\% | 0 | 20\% | 0 |
| Priest Rapids Wildlife Area | Hunting Area | - | - | 0 | 4 | 80\% | 21.0 | 0\% | 0 | 20\% | 0 |
| Buckshot Recreation Area | Boat Launch | 95 | 2.8 | 266 | 32 | 20\% | 2.6 | 0\% | 838 | 20\% | 1,005 |
| Buckshot Recreation Area | Hunting Area | - | - | 0 | 4 | 80\% | 28.0 | 0\% | 0 | 20\% | 0 |

Table E. 50 (continued) Use count data, calculation parameters, and site and Project-level use estimates

| Site name | Amenity |  | $\begin{aligned} & \frac{0}{0} \\ & \frac{\pi}{0} \\ & \frac{2}{0} \\ & \frac{0}{2} \\ & 0.0 \end{aligned}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PRRA | Campground | - | - | - | - | - | - | - | 1,151 | 20\% | 1,382 |
| PRRA | Picnic Area | 797 | 3.9 | 3,108 | 20 | 20\% | 4.1 | 0\% | 15,359 | 20\% | 18,430 |
| PRRA | Swim Area |  |  |  |  | Accoun | for |  |  |  |  |
| PRRA | Trail |  |  |  |  | Accoun | dor | ove |  |  |  |
| PRRA (North Picnic Area) | Picnic Area |  |  |  |  | Accoun | for | ove |  |  |  |
| PRRA | Boat Launch |  |  |  |  | Accoun | dor | ove |  |  |  |
| Priest Rapids Water Trail (N. Trailhead) | Boat Launch |  |  |  |  | Accoun | dor |  |  |  |  |
| Priest Rapids Water Trail | Boat Launch |  |  |  |  | Accoun | dor |  |  |  |  |
| Priest Rapids Water Trail (S. <br> Trailhead) | Boat Launch |  |  |  |  | Accoun | d for |  |  |  |  |
| Goose Island | Hunting Area | - | - | 5 | 4 | 80\% | 21.0 | 0\% | 189 | 20\% | 227 |
| Wanapum Heritage Center | Visitor Center | - | - | - | - | - | - | - | - | - | 2,880 |
| Jackson Creek Fish Camp | Campground | - | - | 0 | - | - | - | - | 300 | 20\% | 360 |
| Jackson Creek Fish Camp | Tailwater Fishing Amenity | 57 | 1.6 | 91 | 32 | 20\% | 2.6 | 0\% | 287 | 20\% | 345 |
| Priest Rapids Tailrace | Access Point | - | - | 4 | 4 | 80\% | 21.0 | 0\% | 151 | 20\% | 181 |
| Yo Yo Rock Boat Launch | Boat Launch | 91 | 3.8 | 346 | 16 | 20\% | 5.3 | 0\% | 2,179 | 20\% | 2,614 |
| Total |  | - | - | - | - | - | - | - | 278,929 | - | 346,597 |

Two other use estimates are then derived from the above described estimate of annual use counts. First, the proportion of day to overnight visitors found in the survey results (i.e., 359 to 378 or $48.7 \%$ to $51.3 \%$, respectively) was used to calculate the number of annual daytime visitors and nighttime visitors. Since FERC does not formally define daytime and nighttime visitors, these were considered here to be equivalent to day visitors (staying less than 24 hours) and overnight visitors (staying 24 or more hours), regardless of if they stayed within the Project or not. This analysis indicates that the annual use on the Project consists of an estimated 168,793 daytime Recreation Days and 177,804 nighttime Recreation Days.

Second, a peak weekend use estimate was derived from the annual use estimate (Table E.52). To do this, an 'average number of counts per counting day' was first calculated for weekdays, non-holiday weekends, and holiday (i.e., peak) weekend days. The number of days that use information was counted and the total number of counts of vehicles and people on these days were used as a basis for this calculation. Only sites where counts were conducted on holidays (in addition to weekends and weekdays) were considered in this calculation. The 'average counts per counting' day was then weighted by multiplying it by the 'number of days of that type occurring in the peak season'. The outcome of this showed that the two holiday weekends ( 6 days total) account for $11.4 \%$ of the peak season use. Multiplying half of this percentage ( $5.7 \%$, the percentage attributable to one, 3-day peak season holiday) by the total peak use season estimate of 278,929 Recreation Days gives a peak holiday weekend use estimate of 15,788 Recreation Days. Proportioning this by daytime and overnight visitors, as previously described, results in an estimate of 7,689 daytime Recreation Days and 8,099 nighttime Recreation Days of use on peak holiday weekends on the Project.

Table E. 51 - Calculation parameters and estimates for use on holidays, non-holiday weekends, and weekdays

|  | Peak <br> Holidays | Non-Holiday <br> Weekends | Weekdays | Totals |
| :--- | :---: | :---: | :---: | :---: |
| Number of count days | 55 | 118 | 350 | 523 |
| Number of counts (vehicles and <br> people) | 13,600 | 36,259 | 32,788 | 82,647 |
| Average counts per counting day 247 307 94 648 <br> Number of days of this type in <br> peak season 6 20 58 84 <br> Weighted total counts Percentage of total counts $11,4 \%$ $47.0 \%$ $41.6 \%$ $100.0 \%$ <br> Estimate for one peak holiday $(3$ <br> days) 15,788 - - - <br> Daytime visitors <br> Nighttime visitors 7,689 - - - | 8,099 | - | - | - |

## F. Discussion and Conclusions

The combination of results from visitor surveys and use counting techniques serve as a strong empirical basis for understanding, reporting on, and managing recreation on the Priest Rapids and Wanapum reservoirs. Survey sampling was conducted at a representative selection of 24 high and low use sites across the Project. Also, sampling techniques were used to help ensure that the sampling of visitors was unbiased. Also, use counting, either with observer or field cameras, occurred at almost all amenities on the Project. This resulted in a sample of over 748 completed visitor surveys and over 60,000 photo observations of use. In short, a robust and representative sample of user attitudes and use numbers was collected. For example, when considering the visitor surveys the sample size for the Project produces results that are accurate within $3.6 \%$ (with a confidence level of 95\%).

Use on the Project is nearly 350,000 Recreation Days annually. However, most of this use is concentrated on the Wanapum Reservoir and its associated recreation sites. Only about $10 \%$ of the overall use of the Project occurs on the Priest Rapids Reservoir. Most users live locally or are from major cities in western Washington. Also, there is a relatively equal balance of day and overnight visitors. This shows that the Project acts as both a day use destination for recreation and as a recreation destination for people who are on lengthier vacations. The latter of these might be accounted for by the predominance of camping or the fact that several local communities also act as vacation destinations or locations for owners of second homes, such as Crescent Bar, Sunland Estates and Desert Aire.

The impact of the Project is economical, as well as recreational. The average expenditure on a Recreation Day is $\$ 291$, while the median expenditure is $\$ 100$. The latter of these values likely reflects a more typical expenditure during a Recreation Day. By multiplying this amount by the number of Recreation Days annually, the Project's direct contribution from recreation visitors alone to the local economy can be valued at approximately $\$ 35,000,000$. When considering how these direct expenditures are re-spent, often more than once, within the local economy, the overall economic impact of recreational use at the Project is even higher in terms of dollars and jobs contributed.

Use of the Project reflects its role as a place predominately for water-based recreation. The most common recreational activities included swimming, visiting the beach, resting/relaxing, and boating. Most people participate in multiple activities during a visit, but boating was the primary activity for the largest percentage of people visiting the Project. Surprisingly, a relatively small percentage of visitors reported engaging in activities such as visiting a dam, hiking, attending a concert, and fishing. Also, the relatively high number of people per vehicle (3.8) is probably a reflection of the Project's use as a water-based destination for recreation, which often occurs in larger groups.

Survey results suggest that visitors to the Project are being provided high-quality recreation experiences. Specifically, visitors indicated very low levels of crowding on both reservoirs and for the Project itself. But, when asked what they expected in terms of crowding, visitors anticipated almost twice the amount of crowding experienced, although expected crowding was still low to moderate. This indicates that visitors' expectations for solitude are being exceeded, but it might also suggest that the public perceives crowding issues on the Project that are not reflected in the reality of their on-site experiences. Also,
when asked to evaluate the quality and number of facilities on the reservoirs visitors indicated that they were generally "about right."

No pervasive or serious recreation-related issues were noted by visitors. When asked about potential issues (i.e., adequate protection from the wind, adequate information/warnings, shoreline litter, disruptive behavior by others, adequate safety and security) most people overwhelmingly agreed there were almost no problems at all during their visit. When all potential issues are averaged, visitors rated them 2.1 on a scale of ("no problem") to 9 ("big problem"). A minority of respondents opted to provide 'other' issues that were rated as a modest problem ( 4 on a 9 point scale). These 'other' issues ranged widely in topic and were more individualistic or site-specific rather than a focused around one consistent topic. However, in a separate question asking specifically about weather conditions, many people did note that strong winds or lack of shade detracted from their experience.

Open-ended questions allowed individuals to provide input in their own words. Specifically, visitors indicated what they enjoyed most and least about their visit to the Project, prior to being informed about potential topics or issues later in the survey. This helped understand the important aspects of the visitor's experience without bias from other survey content. Themes that emerged from the question of what visitors enjoyed most (i.e., aesthetics, quality of operations and maintenance, and site development) suggest that the recreation amenities provided are, as intended, offering many visitors with an opportunity to enjoy the natural environment through recreation. Themes that emerged from the question of what visitors liked least about their trip were more diverse. These themes included: weather/shelter, support facilities, crowding and user conflicts, site development, operations and maintenance, extraneous factors outside of management control, parking, quality of facilities, fees and regulations, and water levels. Many people also responded by saying there was nothing they liked least about their visit. Responses to the above questions may be best used as indicator variables to focus on when managing the recreational experiences on the Project.

Similarly, visitors offered suggestions for management changes, again in their own words. However, these suggestions were provided near the end of completing the survey, rather than the beginning. This was done to sensitize visitors to the range of topics to consider in providing their responses. The major themes for suggested changes focused on the following: facility maintenance or improvements, increasing or adding facilities, and improving management operations. Again, many people also responded that they had no suggestions for improvement or said they liked the recreation sites as they are now. Responses to the above questions may be best used as ideas or suggestions to improve upon the recreational experiences on the Project.

Recreation quality was also assessed by asking visitors to report standards for the 1) maximum number of people that could use a specific recreation site without them feeling too crowded, and if they were on the water 2) the maximum acceptable time to wait to launch a boat, and 3) the maximum number of boats in view on the water that is acceptable, and 4) the maximum number of boats in view on the water that should be allowed by management. Visitors were then asked to report conditions they actually experienced for all of these variables (i.e., indicators of recreation quality). By comparing reported standards against conditions experienced, carrying capacity and recreation quality were assessed. This process reflects the most predominant and accepted technique in the
scientific community of recreation scholars. Results from the above comparisons indicate that all recreation sites are well below their recreational carrying capacity and that recreational conditions are quite good (i.e., well below the point where experiential standards - as found in Table E. 22 - would be violated). Details on this comparison may be found in the 2016 Carrying Capacity Assessment Report (Hallo et al. 2016).

As with all empirical data collection efforts, the current study and results may be influenced or limited by several factors. First, field conditions during data collection often have an influence on data collection. In particular, the weather can greatly influence recreation use and user attitudes. During the data collection period when the above results are reported, the weather was, on average, warmer and dryer than normal (Table F.1). The average wind speed and the number of days of precipitation were typical for the area. The hotter and drier weather during the data collection period could have moderated the use of the Project for recreation. However, it could also be argued that because the Project is primarily focused on water-based recreation, the hotter and drier temperatures would increase the use of its recreation facilities.

Table F.1. Comparison between the weather during the data collection period and a typical season

|  | 2015 Peak Season Weather |  | Typical Peak Season Weather |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Avg | Sum | Avg | Sum |
| Max Daily Temperature ( ${ }^{\circ} \mathrm{F}$ ) | 91 |  | 85 |  |
| Avg. Daily Temperature ( ${ }^{\circ} \mathrm{F}$ ) | 77 |  | 71 |  |
| Min. Daily Temperature ( ${ }^{\circ} \mathrm{F}$ ) | 63 |  | 58 |  |
| Precipitation (in.) |  | 0.14 |  | 1.20 |
| Days with precipitation |  | 7 |  | 7 |
| Daily wind speed (mph) | 9 |  | 10 |  |

Sources: wunderground.com, weatherbase.com, wrcc.dri.edu/htmlfiles/westwind.final.html

A second potential limitation is the timing of the study. Most recreation studies focus on the peak use season for the site, because it is often impractical to collect adequate data throughout the entire year. By focusing on the peak use periods, a study is capable of and better suited to examine most recreation use, recreation issues, and recreation management. It is the intent that by understanding and managing for high-quality recreation experiences during the peak season, off-peak recreation quality will also be positively influenced. This study followed the same pattern of focusing attention on the peak use season. However, use occurs on the Project at other times throughout the year. For most recreation activities, off-peak use is relatively minimal compared to peak use levels. However, hunting and salmon fishing are two activities at the Project that predominantly occur during the offpeak season. It is almost certain that hunters and fishermen are relatively underrepresented in the above-presented study results.

A third potential limitation is the number of surveys collected at individual sites and amenities. Survey sample sizes are a reflection of both surveying effort and the number of users at a site. For this report, surveying effort was approximately four days at each
surveyed recreation site. This level of effort resulted in an $81 \%$ increase, from 413 to 748 , in surveys collected over the prior study conducted in 1999. The 2015 data collection also represents a pragmatic level of effort given the large number of recreation sites and amenities provided at the Project. However, the number of sites surveyed was increased by $100 \%$, from 30 to 60, from the 1999 study. Overall, the sample sizes contained in this report provide results representative of users of the Project and the reservoirs. At some specific recreation sites, survey sample size far exceeded 30, which is often considered a minimum to draw statistical inferences. Survey results at these locations provide a basis for understanding users at these specific sites. However, at lower use sites the survey sample sizes were lower than 30 . This is, in part, a reflection of these sites receiving relatively little recreational use. In these cases, where sample sizes are lower, caution should be applied in interpreting the results as representative of all users of the site. Project- or Reservoir-level results may be used as the best supplement or replacement for results at these low-use sites.

Results from the surveys and use counts described above produced a substantial, scientifically based, and reliable source of information to gauge the recreational opportunities and experiences provided on the Project. They also provide many insights into recreation use on the Project and user's attitudes. Some of these findings confirm existing institutional knowledge, while others expand it or provide new information. The entirety of results reported above indicates that the recreation facilities and their management on the Project are effective in providing high-quality recreation experiences and minimizing recreational issues for an overwhelming majority of visitors.

Recreational visitors' positive perceptions of the Project were expected by the PI. The substantial, recent investments made in recreational facilities across the Project have provided updated and expanded recreational opportunities. These facilities combined with the outstanding natural resources of the Columbia River basin and the Wanapum and Priest Rapids reservoirs serve as the fundamental basis for quality recreation. However, proper recreation management is also a crucial part of providing quality recreation. Grant PUD's dedicated program of management directed at lands and recreation on the Project certainly goes a long way in ensuring that adequate recreational opportunities are planned for, managed appropriately, and that issues when present are addressed.

## G. RECOMMENDATIONS

Given the positive nature of most of the study results, the primary recommendation is that recreation provision, planning and management continue predominately in its current form. This means that facilities remain open, staffed (where currently provided), and wellmaintained and operated. The current recreation facilities seem to provide adequate recreational opportunities and good recreation experiences. It also means that planning and management efforts of recreation-related staff of Grant PUD continue, including their efforts to continue to respond to any emerging recreation-related issues or needs. No current recreation-related issues were noted that would require a management response at a general level. However, it is likely that user specific issues or issues associated with subgroups of users might be present or emerge that would need to be responded to by Grant PUD staff.

We recommend continuing a strong program of both public outreach and public input
efforts. The former suggests continuing to make the public aware of the recreational opportunities at the Project. This should include providing information and marketing through online and traditional media (e.g., print and public forums), and by hosting, participating in, or sponsoring events relevant to recreation on the Project, which can be found in Grant PUD's Interpretation and Education Program. Continuing public input efforts means that public input on public recreation is sought and responded to, where appropriate and possible. And, it means that recreation continues to be a focus of Grant PUD's public service and outreach efforts. This is important because recreation is perhaps one of the most important ways that the general public interacts with Grant PUD and forms personal, lasting memories and attitudes associated with the organization.

The study results do indicate some areas that management efforts might focus on to further improve the recreational experiences on the Project. First, strong winds and lack of shade from the sun were issues mentioned in response to several questions. Based on these results some structures at picnic areas or other day use facilities could be provided that would offer shade and/or wind protection. For example, shade structures such as those found at the Turbine Park could be offered at other picnic sites. Alternatively, 2- to 3-sided roofed structures may be provided to offer both shade and wind protection, while taking care not to limit the user's scenic views. Examples of this type of recreation facility are often found in higher wind environments. Second, the results suggest the importance of the maintenance of facilities to the visitor experience. Bathrooms and litter were most often mentioned in regards to this. Possible improvements to bathrooms could include (where not already present) providing hand sanitizer, posting a phone number on bathroom doors to report maintenance issues, installing air fresheners, and increasing maintenance schedules. Litter is more difficult to control, but increasing maintenance schedules and providing signage to encourage self-removal of litter may have the most impact.

Another recommendation is to establish a quick, cost-effective visitor experience monitoring protocol. This might be structured as a biannual 'rapid assessment' of use conditions and visitor-related issues. It should be limited in scope to allow it to be practical, while providing some objective monitoring data to identify emerging issues or changes in the quality of the recreation experience.

The final recommendation is that the information contained in this report be used to aid recreational resource management on the Project. Foremost, this means that the results and information contained in this report be used to inform the 2016 Recreation Resource Management Plan update. It also means that the results presented here act as a baseline of reliable, science-based information for Grant PUD staff. The intent of this baseline information is to provide a sound basis for current decision-making and for identifying recreation-related changes at the Project in the future.

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## APPENDIX A

## Management Unit-level Survey Results (Units B - F)

## (*no results for Management Unit A)

At the time of the data collections, only one developed recreation site existed in Management Unit A, Yo Yo Rock Boat Launch. It is owned, operated, and maintained by Washington Department of Fish and Wildlife. It is the furthest recreation site from Staff offices at Wanapum Dam. Recreation use counts were conducted via game camera, however because of the impracticality of surveying this low-use site, no survey questionnaires were conducted in Management Unit A.

Table A-B Respondents at each sampling locations for the visitor questionnaire

| Intercept Location | Frequency | Percent |
| :--- | ---: | ---: |
| Management Unit B | 179 | $23.9 \%$ |
| Management Unit C | 154 | $20.6 \%$ |
| Management Unit D | 165 | $22.1 \%$ |
| Management Unit E | 125 | $16.7 \%$ |
| Management Unit F | 51 | $6.8 \%$ |
| Management Unit G |  | 74 |

## Management Unit B

Note: Management Unit B includes the following sites where surveys occurred:

1. CBRA

Q1 Management unit level responses to the questions
"How many people are in your vehicle today, including yourself? (mark all that apply)"
Table A-B. 1 Number of people in respondent's vehicle

|  | Min | Max | Mean | SD | N |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit B | 1 | 25 | 4.5 | 3.3 | 179 |

Q3 Management unit level responses to the question
"Please indicate which of the following activities you are participating in on this trip"
Table A-B. 3 Management Unit B

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Swimming/visiting the beach | $86.6 \%$ |
| Resting/relaxing | $69.3 \%$ |
| Boating | $43.6 \%$ |
| Camping | $38.0 \%$ |
| Golf | $27.9 \%$ |
| Waterskiing/tubing/wakeboarding | $25.7 \%$ |
| Picnicking | $24.6 \%$ |
| Photography | $20.7 \%$ |
| Wildlife Viewing | $20.7 \%$ |
| Attending a concert | $20.1 \%$ |
| Riding jet skis/wave runners | $19.0 \%$ |
| Canoeing/kayaking/paddle boarding | $13.4 \%$ |
| Hiking | $6.7 \%$ |
| Fishing | $3.4 \%$ |
| Visiting a dam | $1.7 \%$ |
| Other | $9.5 \%$ |

## Q7 Management unit level responses to the questions

"How much time will you spend on your current trip?"
Table A-B. 7 Time spent in hours on current trip

|  | $<1 \mathrm{hr}$ | $1-4 \mathrm{hrs}$ | $5-8 \mathrm{hrs}$ | $>8 \mathrm{hrs}$ | Total | Median | Mean | N |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit B | $0.0 \%$ | $61.4 \%$ | $36.4 \%$ | $2.3 \%$ | $100 \%$ | 4.0 | 4.3 | 44 |

Table A-B.7a Time spent in days on current trip

|  | 1-2 days | 3-4 days | $5-7$ days | $>1$ week | Total | Median | Mean | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit B | $14.0 \%$ | $47.0 \%$ | $27.0 \%$ | $11.0 \%$ | $100 \%$ | 4.0 | 5.3 | 133 |

Q8 Management unit level responses to the questions
"If your current trip extends into two or more days, what type of overnight accommodations did you use on your trip?"

Table A-B. 8 Management Unit B

|  | Percentage <br> Checked |
| :--- | :---: |
| Campground (RV or tent) | $47.6 \%$ |
| Location: Refer to site-level surveys results tables |  |
| Rented cabin/condo/home/motel/hotel | $19.9 \%$ |
| Location: Refer to site-level surveys results tables |  |
| Your own home/property | $32.2 \%$ |
| Other (Please specify): | $5.5 \%$ |
| Other Text: Refer to site-level surveys results tables |  |

Q9 Management unit level responses to the question
"Did any of the following conditions adversely affect your trip?"
Table A-B. 9 Management Unit B

|  | Yes |
| :--- | ---: |
| Strong winds | $37.0 \%$ |
| Lack of shade from the sun | $48.1 \%$ |
| Low water levels | $21.0 \%$ |
| Lack of shelter from the weather | $9.9 \%$ |
| Lack of ADA accessibility | $1.2 \%$ |

## Q10 Management unit level responses to the question

"Grant PUD is interested in your opinion about the level of existing development and management at the reservoirs. Please indicate a response for any of the following facilities you used during your visit."

Table A-B.10 Management Unit B

|  | Too High |  |  | About Right |  |  |  | Too Low |  | DK | Mean | SD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |  |  |
| Number of restrooms/toilets | 0.6\% | 0.6\% | 0.0\% | 0.6\% | 43.3\% | 9.6\% | 10.8\% | 8.3\% | 26.1\% | 6.0\% | 6.6 | 1.8 |
| Quality of restrooms/toilets | 0.7\% | 0.7\% | 1.4\% | 2.9\% | 43.2\% | 5.0\% | 17.3\% | 6.5\% | 22.3\% | 13.7\% | 6.4 | 1.8 |
| Number of public docks | 0.0\% | 0.8\% | 2.5\% | 1.7\% | 51.7\% | 5.9\% | 16.9\% | 5.9\% | 14.4\% | 25.3\% | 6.1 | 1.6 |
| Quality of hiking trails | 0.0\% | 0.0\% | 2.4\% | 8.4\% | 50.6\% | 8.4\% | 8.4\% | 6.0\% | 15.7\% | 44.7\% | 5.9 | 1.7 |
| Number of hiking trails | 2.2\% | 0.0\% | 3.3\% | 4.4\% | 52.2\% | 7.8\% | 7.8\% | 8.9\% | 13.3\% | 42.3\% | 5.8 | 1.8 |
| Quality of public docks | 0.0\% | 2.8\% | 2.8\% | 1.8\% | 58.7\% | 4.6\% | 8.3\% | 7.3\% | 13.8\% | 29.2\% | 5.8 | 1.7 |
| Number of campsites | 0.8\% | 1.6\% | 1.6\% | 3.3\% | 67.2\% | 3.3\% | 4.9\% | 5.7\% | 11.5\% | 22.8\% | 5.6 | 1.6 |
| Number of boat launches | 0.7\% | 1.5\% | 0.7\% | 4.4\% | 68.4\% | 7.4\% | 6.6\% | 2.9\% | 7.4\% | 15.5\% | 5.5 | 1.4 |
| Quality of picnic or day use areas | 0.7\% | 2.9\% | 1.4\% | 5.7\% | 64.3\% | 6.4\% | 8.6\% | 3.6\% | 6.4\% | 11.4\% | 5.4 | 1.4 |
| Quality of boat launches | 0.7\% | 1.5\% | 3.7\% | 4.5\% | 67.9\% | 6.0\% | 6.0\% | 3.0\% | 6.7\% | 15.7\% | 5.3 | 1.4 |
| Quality of on-line campground reservation system | 2.0\% | 2.0\% | 0.0\% | 4.1\% | 75.5\% | 3.1\% | 4.1\% | 2.0\% | 7.1\% | 38.4\% | 5.3 | 1.4 |
| Quality of swim/sunbathing areas | 2.7\% | 1.3\% | 6.7\% | 4.7\% | 58.7\% | 8.0\% | 7.3\% | 5.3\% | 5.3\% | 8.0\% | 5.3 | 1.6 |
| Quality of campsites | 0.9\% | 2.6\% | 3.5\% | 3.5\% | 67.8\% | 8.7\% | 5.2\% | 3.5\% | 4.3\% | 26.3\% | 5.3 | 1.3 |
| Level of public recreation development | 0.0\% | 2.0\% | 2.6\% | 3.3\% | 73.5\% | 8.6\% | 4.0\% | 1.3\% | 4.6\% | 4.4\% | 5.2 | 1.2 |
| Number of swim/sunbathing areas | 1.9\% | 0.0\% | 5.6\% | 5.6\% | 66.9\% | 5.0\% | 7.5\% | 3.8\% | 3.8\% | 4.8\% | 5.2 | 1.4 |
| Number of picnic or day use areas | 0.7\% | 0.7\% | 2.1\% | 7.8\% | 71.6\% | 6.4\% | 5.7\% | 1.4\% | 3.5\% | 12.4\% | 5.2 | 1.1 |
| Amount of shoreline available for use | 3.2\% | 3.2\% | 2.6\% | 6.5\% | 65.8\% | 6.5\% | 5.2\% | 3.2\% | 3.9\% | 5.5\% | 5.1 | 1.5 |
| Cost to use facilities | 8.4\% | 1.5\% | 6.9\% | 6.9\% | 71.8\% | 0.8\% | 0.8\% | 0.0\% | 3.1\% | 19.1\% | 4.6 | 1.5 |

[^2]
## Q11 Management unit level responses to the question

"Please indicate the extent that the following issues were problems for you during your visit today"

## Table A-B.11 Management Unit B

|  | No Problem |  |  |  |  | Big Problem | DK | Mean | SD |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Adequate protection from the wind | $45.8 \%$ | $6.5 \%$ | $8.5 \%$ | $11.1 \%$ | $15.0 \%$ | $3.9 \%$ | $3.3 \%$ | $3.3 \%$ | $2.6 \%$ | $7.3 \%$ | 3.0 |

Note: Response Scale: $1=$ No Problem, $9=$ Big Problem
Q12 Management unit level responses to the question
"Help us understand crowding issues by answering the following questions. (Mark one response for each item)"
Table A-B. 12 Management Unit B

|  | Not at all Crowded |  |  |  |  | Extremely Crowded | DK/NA | Mean | SD |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | $45.1 \%$ | $15.6 \%$ | $8.7 \%$ | $9.2 \%$ | $2.9 \%$ | $11.6 \%$ | $2.9 \%$ | $2.3 \%$ | $1.7 \%$ | $0.0 \%$ | 2.8 | 2.2 |
| How crowded did you expect to feel <br> today? | $20.4 \%$ | $12.0 \%$ | $4.2 \%$ | $19.2 \%$ | $9.0 \%$ | $20.4 \%$ | $4.2 \%$ | $6.0 \%$ | $4.8 \%$ | $2.3 \%$ | 4.2 | 2.4 |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded

## Q14 Management unit level responses to the question

"Please estimate how much money you and your party will spend TODAY while on this trip (e.g., fuel, lodging, restaurants, groceries, admissions, fees, outdoor gear, etc.)."

Table A-B. 14 Current Day Trip Expenditure

|  | Current Day Trip Expenditure (\$) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1-50 | 51-100 | 101-150 | 151-200 | 201-300 | 301-500 | $>500$ | Median | Mean | SD |
| Management Unit B | 2.5\% | 21.0\% | 18.5\% | 10.5\% | 10.5\% | 11.1\% | 11.7\% | 21.6\% | 150.0 | 330.0 | 518.4 |

Q16 Management unit level responses to the question
If you were on the water today, "what areas of the Priest Rapids/Wanapum reservoirs did you use today? (Mark all areas used)"
Table A-B. 16 Percent response on used areas of the Priest Rapids/Wanapum Reservoirs
\% response on used areas of the Priest Rapids/Wanapum Reservoirs

|  | Unit A | Unit B | Unit C | Unit D | Unit E | Unit F | Unit G | N |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Management Unit B | $41.9 \%$ | $87.1 \%$ | $51.6 \%$ | $3.2 \%$ | - | - | - |

Q17.a Management unit level responses to the question
"Did you have to wait to use a boat launch today?"
Table A-B.17.a Response on having to wait to use boat launch

|  | Yes | No | N |
| :--- | :---: | :---: | :---: |
| Management Unit B | $22.5 \%$ | $77.5 \%$ | 40 |

Q17.aa Wait time: Management unit level responses to the question
"How long did you wait to use a boat launch today?"
Table A-B.17.aa Current conditions on waiting times to use boat launch

|  | Wait Time (in minutes) |  |  |  |  |  | Min | Max | Mean | SD | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 5 | 10 | 15 | 16 | 20 |  |  |  |  |  |
| Management Unit B | 10.0\% | 40.0\% | 50.0\% | 0.0\% | 0.0\% | 0.0\% | 1 | 10 | 7.1 | 3.3 | 10 |

Q17.b Management unit level responses to the question
"How long of a wait to launch your boat is acceptable to you?"
Table A-B.1.7b Acceptability of waiting times to use boat launch (in minutes)

|  | 0 | $11-15$ | $16-20$ | $21-25$ | $>25$ | Min | Max | Mean | SD | N |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit B | $14.3 \%$ | $22.9 \%$ | $45.7 \%$ | $14.3 \%$ | $2.9 \%$ | $0.0 \%$ | $0.0 \%$ | 0 | 20 | 8.31 | 5.1 | 35 |

## Q18.a Management unit level responses to the question

Please rate each photo by indicating how acceptable you think "how many boats could use the segments of the reservoirs that you used today without you feeling too crowded and unsafe". A rating of -4 means the number of boats is "very unacceptable", and a rating of +4 means the number of boats is "very acceptable".

Table A-B.18.a Management Unit B

|  | Mean | SD | N |
| :--- | :---: | :---: | :---: |
| Photo 1 | 3.4 | 1.6 | 31 |
| Photo 2 | 3.7 | 0.8 | 30 |
| Photo 3 | 3.6 | 0.9 | 30 |
| Photo 4 | 3.1 | 1.5 | 30 |
| Photo 5 | 2.4 | 1.9 | 31 |
| Photo 6 | 1.6 | 2.5 | 31 |



Figure A-B.18.a. Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Management Unit B

Q18.b Management unit level responses to the question
"Which photo shows the highest number of boats that should be allowed on the reservoir segments you used today? In other words, at what point should boats be restricted from using the reservoir because it is too crowded and unsafe? (If you think use should not be restricted, please indicate)"

Table A-B.18.b Highest number of boats to be allowed on the reservoir segment

|  | Photo | Photo | Photo | Photo | Photo | Photo |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | Mean | SD | N |
| Management Unit B | - | $13.3 \%$ | - | $26.7 \%$ | $40.0 \%$ | $20.0 \%$ | 4.5 | 1.2 | 15 |

## Q18.bb Management unit level responses to the question

"None of the photos show a high enough number of boats to restrict use" (check box if you agree)
Table A-B.18.bb Agreement that none of the photos show a high enough number of boats to restrict use

|  | Yes | No | N |
| :--- | :---: | :---: | :---: |
| Management Unit B | $55.6 \%$ | $44.4 \%$ | 27 |

Q18.c Management unit level responses to the question
"Which photo looks most like the number of boats you typically saw on the reservoir segments you used today?"

Table A-B.18.c Photo that reflects number of boats seen on the reservoir

|  | Photo | Photo | Photo | Photo | Photo | Photo |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | Mean | SD | N |
| Management Unit B | $12.0 \%$ | $16.0 \%$ | $16.0 \%$ | $40.0 \%$ | $4.0 \%$ | $12.0 \%$ | 3.44 | 1.5 | 25 |

## Management Unit C

Note: Management Unit C includes the following sites where surveys occurred:

1. Quilomene Dune and Bay
2. Rattlesnake Cove
3. Sunland Boat Launch
4. Sunland Picnic Area

Q1 Management unit level responses to the questions
"How many people are in your vehicle today, including yourself? (mark all that apply)"
Table A-C. 1 Number of people in respondent's vehicle

|  | Min | Max | Mean | SD | N |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Management Unit C | 1 | 15 | 5.0 | 2.9 | 154 |

Q3 Management unit level responses to the question
"Please indicate which of the following activities you are participating in on this trip"
Table A-C. 3 Management Unit C

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Swimming/visiting the beach | $90.3 \%$ |
| Boating | $83.1 \%$ |
| Resting/relaxing | $75.3 \%$ |
| Waterskiing/tubing/wakeboarding | $54.9 \%$ |
| Wildlife Viewing | $33.8 \%$ |
| Picnicking | $31.2 \%$ |
| Riding jet skis/wave runners | $24.7 \%$ |
| Camping | $19.0 \%$ |
| Photography | $18.2 \%$ |
| Golf | $17.6 \%$ |
| Attending a concert | $14.3 \%$ |
| Fishing | $13.6 \%$ |
| Canoeing/kayaking/paddle boarding | $10.5 \%$ |
| Hiking | $8.5 \%$ |
| Visiting a dam | $3.9 \%$ |
| Other | $5.3 \%$ |
| Other Text: Refer to site-level surveys results tables |  |

## Q7 Management unit level responses to the questions

"How much time will you spend on your current trip?"
Table A-C. 7 Time spent in hours on current trip

|  | $<1 \mathrm{hr}$ | $1-4 \mathrm{hrs}$ | $5-8 \mathrm{hrs}$ | $>8 \mathrm{hrs}$ | Total | Median | Mean | N |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit C | $0.0 \%$ | $36.8 \%$ | 56.1 | $7.0 \%$ | $100 \%$ | 5.0 | 5.7 | 57 |

Table A-C.7.a Time spent in days on current trip

|  | 1-2days | 3-4days | 5-7days | $>1$ week | Total | Median | Mean | N |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit C | $24.4 \%$ | $34.4 \%$ | $24.4 \%$ | $16.7 \%$ | $100 \%$ | 4.0 | 7.1 | 90 |

Q8 Management unit level responses to the questions
"If your current trip extends into two or more days, what type of overnight accommodations did you use on your trip?"

Table A-C. 8 Management Unit C

|  | Yes |
| :--- | :---: |
| Campground (RV or tent) | $19.8 \%$ |
| Location: Refer to site-level surveys results tables |  |
| Rented cabin/condo/home/motel/hotel | $20.1 \%$ |
| Location: Refer to site-level surveys results tables |  |
| Your own home/property | $54.0 \%$ |
| Other (Please specify): | $5.2 \%$ |

Other Text: Refer to site-level surveys results tables

## Q9 Management unit level responses to the question

"Did any of the following conditions adversely affect your trip?"
Table A-C. 9 Management Unit C

|  | Yes |
| :--- | :---: |
| Strong winds | $60.6 \%$ |
| Lack of shade from the sun | $28.8 \%$ |
| Low water levels | $27.3 \%$ |
| Lack of shelter from the weather | $4.6 \%$ |
| Lack of ADA accessibility | $3.1 \%$ |

Q10 Management unit level responses to the question
"Grant PUD is interested in your opinion about the level of existing development and management at the reservoirs. Please indicate a response for any of the following facilities you used during your visit."

Table A-C. 10 Management Unit C

|  | Too high |  |  | About right |  |  | Too Low |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |
| Number of public docks | 2.6\% | 1.7\% | 0.9\% | 1.7\% | 40.0\% | 3.5\% | 9.6\% | 9.6\% | 30.4\% | 0.2\% |
| Number of restrooms/toilets | 2.3\% | 0.0\% | 0.0\% | 0.8\% | 48.9\% | 7.6\% | 6.9\% | 4.6\% | 29.0\% | 0.1\% |
| Quality of public docks | 3.6\% | 0.0\% | 2.7\% | 4.5\% | 45.5\% | 2.7\% | 8.9\% | 7.1\% | 25.0\% | 0.2\% |
| Quality of restrooms/toilets | 4.2\% | 0.0\% | 1.7\% | 2.5\% | 54.2\% | 5.1\% | 7.6\% | 2.5\% | 22.0\% | 0.2\% |
| Quality of hiking trails | 4.6\% | 2.3\% | 0.0\% | 2.3\% | 57.5\% | 5.7\% | 4.6\% | 3.4\% | 19.5\% | $0.4 \%$ |
| Amount of shoreline available for use | 3.6\% | 1.4\% | 2.9\% | 3.6\% | 57.2\% | 2.9\% | 9.4\% | 2.2\% | 16.7\% | $0.0 \%$ |
| Number of campsites | 3.0\% | 0.0\% | 5.1\% | 3.0\% | 60.6\% | 2.0\% | 4.0\% | 5.1\% | 17.2\% | 0.3\% |
| Number of boat launches | 3.0\% | 0.8\% | 2.3\% | 2.3\% | 61.7\% | 1.5\% | 7.5\% | 5.3\% | 15.8\% | 0.1\% |
| Number of picnic or day use areas | 4.1\% | 0.8\% | 4.1\% | 6.5\% | 55.3\% | 4.9\% | 3.3\% | 4.1\% | 17.1\% | 0.1\% |
| Quality of boat launches | 3.0\% | 3.0\% | 2.3\% | 6.0\% | 55.6\% | 3.0\% | 6.0\% | 5.3\% | 15.8\% | 0.1\% |
| Number of hiking trails | 7.9\% | 2.2\% | 3.4\% | 1.1\% | 50.6\% | 6.7\% | 11.2\% | 0.0\% | 16.9\% | 0.4\% |
| Number of swim/sunbathing areas | 3.7\% | 2.2\% | 3.0\% | 2.2\% | 60.0\% | 5.9\% | 12.6\% | 5.2\% | 5.2\% | 0.0 |
| Quality of on-line campground reservation system | 4.5\% | 0.0\% | 1.5\% | 1.5\% | 71.6\% | 4.5\% | 9.0\% | 3.0\% | 4.5\% | 0.5 |
| Quality of swim/sunbathing areas | 3.8\% | 0.8\% | 4.5\% | 3.0\% | 63.9\% | 3.8\% | 8.3\% | 5.3\% | 6.8\% | 0.0\% |
| Quality of campsites | 4.4\% | 1.1\% | 6.6\% | 2.2\% | 65.9\% | 1.1\% | 3.3\% | 4.4\% | 11.0\% | $0.3 \%$ |
| Quality of picnic or day use areas | 4.1\% | 2.5\% | 4.1\% | 8.2\% | 59.8\% | 4.1\% | 5.7\% | 0.0\% | 11.5\% | $0.1 \%$ |
| Level of public recreation development | 6.3\% | 1.6\% | 0.8\% | 3.1\% | 66.9\% | 5.5\% | 3.9\% | 1.6\% | 10.2\% | 0.1 |
| Cost to use facilities | 11.2\% | 0.9\% | 4.7\% | 5.6\% | 70.1\% | 1.9\% | 0.9\% | 0.9\% | 3.7\% | 0.2\% |

Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

Q11 Management unit level responses to the question
"Please indicate the extent that the following issues were problems for you during your visit today"
Table A-C. 11 Management Unit C

| No Problem |  |  |  |  |  |  | Big problem | DK |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Adequate protection from the <br> wind | $45.0 \%$ | $6.1 \%$ | $9.9 \%$ | $7.6 \%$ | $17.6 \%$ | $3.8 \%$ | $6.9 \%$ | $0.8 \%$ | $2.3 \%$ |
| Adequate <br> information/warnings <br> provided | $53.4 \%$ | $7.6 \%$ | $8.4 \%$ | $4.6 \%$ | $10.7 \%$ | $3.1 \%$ | $6.9 \%$ | $0.8 \%$ | $4.6 \%$ |
| Litter around the reservoir <br> shoreline | $55.7 \%$ | $10.7 \%$ | $7.9 \%$ | $5.0 \%$ | $5.7 \%$ | $3.6 \%$ | $3.6 \%$ | $2.1 \%$ | $5.7 \%$ |
| Disruptive behavior by others | $60.7 \%$ | $9.3 \%$ | $5.7 \%$ | $5.7 \%$ | $8.6 \%$ | $2.1 \%$ | $2.9 \%$ | $2.1 \%$ | $2.9 \%$ |
| Adequate safety and security | $65.7 \%$ | $10.2 \%$ | $9.5 \%$ | $5.8 \%$ | $3.6 \%$ | $0.7 \%$ | $2.2 \%$ | $0.7 \%$ | $1.5 \%$ |
| Other | $71.4 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $28.6 \%$ |
| (please specify): Refer to site-level surveys results table |  |  |  |  |  |  |  |  |  |

Note: Response Scale: 1= No Problem, 9= Big Problem

Q12 Management unit level responses to the question
"Help us understand crowding issues by answering the following questions. (Mark one response for each item)"

Table A-C. 12 Management Unit C

| Not at all Crowded |  |  |  |  |  | Extremely Crowded |  |  |  | DK/L |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | $43.2 \%$ | $19.6 \%$ | $8.8 \%$ | $14.2 \%$ | $2.0 \%$ | $7.4 \%$ | $2.0 \%$ | $1.4 \%$ | $1.4 \%$ | 1.30 |
| How crowded did you expect to | $22.6 \%$ | $8.2 \%$ | $9.6 \%$ | $15.1 \%$ | $6.2 \%$ | $21.9 \%$ | $4.1 \%$ | $6.2 \%$ | $6.2 \%$ | $2.0 \%$ | feel today?

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded

Q14 Management unit level responses to the question
"Please estimate how much money you and your party will spend TODAY while on this trip (e.g., fuel, lodging, restaurants, groceries, admissions, fees, outdoor gear, etc.)."

Table A-C. 14 Current Day Trip Expenditure

|  | 0 |  |  |  | Current Day Trip Expenditure (\$) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1-50 | 51-100 | 101-150 | 151-200 | 201-300 | 301-500 | $>500$ | Mediar |
| Management Unit C | 2.7 | 19.2 | 22.6 | 7.5 | 12.3 | 8.9 | 15.1 | 11.6 | 150 |

## Q16 Management unit level responses to the question

If you were on the water today, "what areas of the Priest Rapids/Wanapum reservoirs did you use today? (Mark all areas used)"

Table A-C. 16 Percent response on used areas of the Priest Rapids/Wanapum Reservoirs
\% response on used areas of the Priest Rapids/Wanapum Reservo

|  | Unit A | Unit B | Unit C | Unit D | Unit E | Unit F | L |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit C | $12.5 \%$ | $46.2 \%$ | $84.6 \%$ | $23.1 \%$ | $7.7 \%$ | $1.9 \%$ |  |

Q17.a Management unit level responses to the question
"Did you have to wait to use a boat launch today?"
Table A-C.17.a Response on having to wait to use boat launch

|  | Yes | No | N |
| :---: | :---: | :---: | :---: |
| Management Unit C | $21.9 \%$ | $78.1 \%$ | 105 |

Q17.aa Wait time: Management unit level responses to the question
"How long did you wait to use a boat launch today?"
Table A-C.17aa Current conditions on waiting times to use boat launch

|  | Wait Time (in minutes) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 5 | 10 | 15 | 16 | 20 | Mean | SD | Min |
| Management Unit C | $0.0 \%$ | $26.1 \%$ | $56.5 \%$ | $56.5 \%$ | $4.3 \%$ | $13.0 \%$ | 10.3 | 47 | 5 |

Q17.b Management unit level responses to the question
"How long of a wait to launch your boat is acceptable to you?"
Table A-C.17.b Acceptability of waiting times to use boat launch (in minutes)

|  | Acceptable waiting times (in minutes) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | $1-5$ | $6-10$ | $11-15$ | $16-20$ | $21-25$ | $>25$ | Min | Max | Mean |
| Management Unit C | $10.5 \%$ | $16.3 \%$ | $33.7 \%$ | $24.4 \%$ | $7.0 \%$ | $1.2 \%$ | $7.0 \%$ | 0 | 120 | 13.3 |

Q18.a Management unit level responses to the question
Please rate each photo by indicating how acceptable you think "how many boats could use the segments of the reservoirs that you used today without you feeling too crowded and unsafe". A rating of -4 means the number of boats is "very unacceptable", and a rating of +4 means the number of boats is "very acceptable".

Table A-C.18.a Management Unit C

|  | Mean | SD |
| :---: | :---: | :---: |
| Photo 1 | 3.5 | 1.3 |
| Photo 2 | 3.5 | 1.4 |
| Photo 3 | 3.3 | 1.4 |
| Photo 4 | 3.2 | 1.6 |
| Photo 5 | 2.6 | 2.1 |
| Photo 6 | 2.2 | 2.5 |



Figure A-C.18.a. Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Management Unit C

Q18.b Management unit level responses to the question
"Which photo shows the highest number of boats that should be allowed on the reservoir segments you used today? In other words, at what point should boats be restricted from using the reservoir because it is too crowded and unsafe? (If you think use should not be restricted, please indicate)"

Table A-C.18.b Highest number of boats to be allowed on the reservoir segment

|  | Photo | Photo | Photo | Photo | Photo | Photo |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | Mean | SD | N |
| Management Unit C | - | - | $12.0 \%$ | $16.0 \%$ | $20.0 \%$ | $52.0 \%$ | 5.1 | 1.1 | 25 |

## Q18.bb Management unit level responses to the question

"None of the photos show a high enough number of boats to restrict use" (check box if you agree)

Table A-C.18bb. Agreement that none of the photos show a high enough number of boats to restrict use

|  | Yes | No | N |
| :--- | :---: | :---: | :---: |
| Management Unit C | $71.3 \%$ | $28.7 \%$ | 87 |

## Q18.c Management unit level responses to the question

"Which photo looks most like the number of boats you typically saw on the reservoir segments you used today?"

Table A-C.18.c Photo that reflects number of boats seen on the reservoir

|  | Photo | Photo | Photo | Photo | Photo | Photo |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | Mean | SD | N |
| Management Unit C | $6.5 \%$ | $13.0 \%$ | $14.3 \%$ | $11.7 \%$ | $16.9 \%$ | $37.7 \%$ | 4.3 | 1.7 | 77 |

## Management Unit D

Note: Management Unit D includes the following sites where surveys occurred:

1. Frenchman Coulee Recreation Area
2. Riverstone Resort
3. Rocky Coulee
4. Vantage Boat Launch

## Q1 Management unit level responses to the questions

"How many people are in your vehicle today, including yourself? (mark all that apply)"
Table A-D. 1 Number of people in respondent's vehicle

|  | Min | Max | Mean | SD | N |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Management Unit D | 1 | 11 | 2.6 | 1.7 | 164 |

Q3 Management unit level responses to the question
"Please indicate which of the following activities you are participating in on this trip"
Table A-D. 3 Management Unit D

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Swimming/visiting the beach | $59.1 \%$ |
| Resting/relaxing | $56.7 \%$ |
| Wildlife Viewing | $24.4 \%$ |
| Picnicking | $23.8 \%$ |
| Photography | $22.0 \%$ |
| Boating | $19.5 \%$ |
| Camping | $17.7 \%$ |
| Hiking | $17.1 \%$ |
| Waterskiing/tubing/wakeboarding | $9.1 \%$ |
| Fishing | $8.5 \%$ |
| Attending a concert | $6.1 \%$ |
| Riding jet skis/wave runners | $5.5 \%$ |
| Canoeing/kayaking/paddle boarding | $3.0 \%$ |
| Visiting a dam | $2.4 \%$ |
| Golf | $0.6 \%$ |
| Other | $19.0 \%$ |
| Other Text: Refer to site-level surveys results tables |  |

## Q7 Management unit level responses to the questions

"How much time will you spend on your current trip?"
Table A-D. 7 Time spent in hours on current trip

|  | $<1 \mathrm{hr}$ | $1-4 \mathrm{hrs}$ | $5-8 \mathrm{hrs}$ | $>8 \mathrm{hrs}$ | Median | Mean | N |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit D | $6.8 \%$ | 69.2 | $21.4 \%$ | $2.6 \%$ | 2.0 | 3.2 | 117 |

Table A-D.7.a Time spent in days on current trip

|  | $1-2$ days | $3-4$ days | $5-7$ days | $>1$ week | Median | Mean | N |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit D | $49.0 \%$ | $24.5 \%$ | $12.2 \%$ | $14.3 \%$ | 3.0 | 5.7 | 116 |

Q8 Management unit level responses to the questions
"If your current trip extends into two or more days, what type of overnight accommodations did you use on your trip?"

Table A-D. 8 Management Unit D

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $48.7 \%$ |
| Location: Refer to site-level surveys results tables |  |
| Rented cabin/condo/home/motel/hotel | $28.9 \%$ |
| Location: Refer to site-level surveys results tables |  |
| Your own home/property | $17.1 \%$ |
| Other (Please specify): | $13.2 \%$ |

Other Text: Refer to site-level surveys results tables

## Q9 Management unit level responses to the question

"Did any of the following conditions adversely affect your trip?"
Table A-D. 9 Management Unit D

|  | Yes |
| :--- | ---: |
| Strong winds | $52.6 \%$ |
| Lack of shade from the sun | $50.0 \%$ |
| Low water levels | $9.2 \%$ |
| Lack of shelter from the weather | $6.6 \%$ |
| Lack of ADA accessibility | $1.3 \%$ |

## Q10 Management unit level responses to the question

"Grant PUD is interested in your opinion about the level of existing development and management at the reservoirs. Please indicate a response for any of the following facilities you used during your visit."

Table A-D. 10 Management Unit D

|  | Too High |  |  | About Right |  |  |  | Too Low |  | DK | Mean | SD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | , | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |  |  |
| Number of swim/sunbathing areas | 0.0\% | 0.9\% | 0.9\% | 5.2\% | 53.4\% | 8.6\% | 18.1\% | 6.9\% | 6.0\% | 0.2\% | 5.8 | 1.4 |
| Amount of shoreline available for use | 0.0\% | 1.6\% | 4.8\% | 5.6\% | 54.0\% | 8.1\% | 12.1\% | 7.3\% | 6.5\% | 0.1\% | 5.6 | 1.5 |
| Number of campsites | 1.2\% | 1.2\% | 0.0\% | 4.8\% | 67.5\% | 7.2\% | 8.4\% | 2.4\% | 7.2\% | 0.4\% | 5.5 | 1.4 |
| Quality of swim/sunbathing areas | 0.9\% | 1.8\% | 2.7\% | 4.5\% | 62.2\% | 10.8\% | 9.9\% | 1.8\% | 5.4\% | 0.2\% | 5.4 | 1.4 |
| Number of hiking trails | 0.0\% | 1.1\% | 3.3\% | 5.5\% | 64.8\% | 9.9\% | 6.6\% | 1.1\% | 7.7\% | 0.3\% | 5.4 | 1.4 |
| Number of restrooms/toilets | 0.0\% | 1.3\% | 0.7\% | 2.0\% | 78.5\% | 4.0\% | 9.4\% | 1.3\% | 2.7\% | 0.0\% | 5.3 | 1.0 |
| Quality of on-line campground reservation system | 0.0\% | 0.0\% | 1.7\% | 6.8\% | 78.0\% | 5.1\% | 1.7\% | 0.0\% | 6.8\% | 0.5\% | 5.3 | 1.1 |
| Number of picnic or day use areas | 0.8\% | 2.4\% | 3.2\% | 2.4\% | 72.0\% | 8.0\% | 8.0\% | 2.4\% | 0.8\% | 0.1\% | 5.2 | 1.1 |
| Number of public docks | 0.0\% | 2.1\% | 1.0\% | 7.2\% | 72.2\% | 5.2\% | 6.2\% | 4.1\% | 2.1\% | 0.3\% | 5.2 | 1.1 |
| Quality of campsites | 3.7\% | 1.2\% | 0.0\% | 3.7\% | 72.8\% | 7.4\% | 4.9\% | 1.2\% | 4.9\% | 0.4\% | 5.2 | 1.4 |
| Quality of hiking trails | 2.4\% | 2.4\% | 1.2\% | 9.5\% | 59.5\% | 14.3\% | 4.8\% | 0.0\% | 6.0\% | 0.4\% | 5.2 | 1.4 |
| Number of boat launches | 0.0\% | 1.0\% | 3.9\% | 3.9\% | 82.4\% | 2.0\% | 2.9\% | 0.0\% | 3.9\% | 0.2\% | 5.1 | 1.0 |
| Quality of picnic or day use areas | 1.6\% | 1.6\% | 4.9\% | 4.9\% | 71.5\% | 6.5\% | 6.5\% | 1.6\% | 0.8\% | 0.1\% | 5.0 | 1.1 |
| Quality of public docks | 1.0\% | 2.1\% | 3.1\% | 9.3\% | 74.2\% | 3.1\% | 1.0\% | 2.1\% | 4.1\% | 0.3\% | 5.0 | 1.2 |
| Quality of restrooms/toilets | 2.3\% | 2.3\% | 5.4\% | 3.1\% | 75.2\% | 0.8\% | 5.4\% | 3.1\% | 2.3\% | 0.1\% | 5.0 | 1.3 |
| Level of public recreation development | 2.9\% | 1.5\% | 1.5\% | 7.3\% | 80.3\% | 2.2\% | 2.2\% | 0.0\% | 2.2\% | 0.1\% | 4.9 | 1.1 |
| Cost to use facilities | 5.3\% | 2.1\% | 2.1\% | 4.3\% | 85.1\% | 0.0\% | 0.0\% | 0.0\% | 1.1\% | 0.3\% | 4.7 | 1.1 |
| Quality of boat launches | 2.0\% | 8.0\% | 10.0\% | 7.0\% | 68.0\% | 1.0\% | 2.0\% | 0.0\% | 2.0\% | 0.3\% | 4.5 | 1.3 |

Note: Response Scale: 1= Too high, 5=About Right, $9=$ Too Low

## Q11 Management unit level responses to the question

"Please indicate the extent that the following issues were problems for you during your visit today"

## Table A-D. 11 Management Unit D

|  | No Problem |  |  |  |  |  | Big problem | Mean | SD | DK |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | $56 \%$ | $6.7 \%$ | $4.5 \%$ | $9.7 \%$ | $8.2 \%$ | $6.0 \%$ | $4.5 \%$ | $2.2 \%$ | $2.2 \%$ | 2.7 | 2.3 | $8.2 \%$ |
| Adequate information/warnings <br> provided | $76.1 \%$ | $9.0 \%$ | $4.5 \%$ | $1.5 \%$ | $4.5 \%$ | $1.5 \%$ | $2.2 \%$ | $0.0 \%$ | $0.7 \%$ | 1.7 | 1.5 | $8.8 \%$ |
| Litter around the reservoir shoreline | $77.5 \%$ | $9.9 \%$ | $3.5 \%$ | $2.1 \%$ | $2.1 \%$ | $3.5 \%$ | $0.7 \%$ | $0.7 \%$ | $0.0 \%$ | 1.6 | 1.4 | $6.0 \%$ |
| Disruptive behavior by others | $87.6 \%$ | $7.0 \%$ | $1.6 \%$ | $0.8 \%$ | $1.6 \%$ | $0.8 \%$ | $0.8 \%$ | $0.0 \%$ | $0.0 \%$ | 1.3 | 0.9 | $11.6 \%$ |
| Adequate safety and security | $85.9 \%$ | $8.9 \%$ | $0.7 \%$ | $2.2 \%$ | $1.5 \%$ | $0.0 \%$ | $0.7 \%$ | $0.0 \%$ | $0.0 \%$ | 1.3 | 0.9 | $8.2 \%$ |
| Other | $76.9 \%$ | $15.4 \%$ | $0.0 \%$ | $7.7 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.4 | 0.9 | $27.8 \%$ |

(please specify): Refer to site-level surveys results tables
Note: Response Scale: 1= No Problem, 9= Big Problem
Q12 Management unit level responses to the question
"Help us understand crowding issues by answering the following questions. (Mark one response for each item)"
Table A-D. 12 Management Unit D

|  | Not at all Crowded |  |  |  |  | Extremely Crowded | DK/NA | Mean | SD |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | $69.6 \%$ | $16.2 \%$ | $8.1 \%$ | $4.1 \%$ | $0.0 \%$ | $2.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $2.0 \%$ | 1.5 |
| How crowded did you expect to | $33.1 \%$ | $16.2 \%$ | $8.8 \%$ | $15.4 \%$ | $7.4 \%$ | $14.0 \%$ | $3.7 \%$ | $1.5 \%$ | $0.0 \%$ | $5.6 \%$ | 3.1 |

## feel today?

Note: Response Scale: $1=$ Not at all Crowded, $9=$ Extremely Crowded

## Q14 Management unit level responses to the question

"Please estimate how much money you and your party will spend TODAY while on this trip (e.g., fuel, lodging, restaurants, groceries, admissions, fees, outdoor gear, etc.)."

Table A-D. 14 Current Day Trip Expenditure

|  | Current Day Trip Expenditure (\$) |  |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | $1-50$ | $51-100$ | $101-150$ | $151-200$ | $201-300$ | $301-500$ | $>500$ | Median | Mean |
| SD |  |  |  |  |  |  |  |  |  |  |
| Management Unit D | $8.6 \%$ | $42.9 \%$ | $20 \%$ | $5.7 \%$ | $9.3 \%$ | $6.43 \%$ | $3.6 \%$ | $21.6 \%$ | 50.0 | 143.4 |

## Q16 Management unit level responses to the question

If you were on the water today, "what areas of the Priest Rapids/Wanapum reservoirs did you use today? (Mark all areas used)"
Table A-D. 16 Percent response on used areas of the Priest Rapids/Wanapum Reservoirs
\% response on used areas of the Priest Rapids/Wanapum Reservoirs

|  | Unit A | Unit B | Unit C | Unit D | Unit E | Unit F | Unit G | N |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit D | - | $18.2 \%$ | $50.0 \%$ | $72.7 \%$ | $45.5 \%$ | - | - | 22 |

Q17.a Management unit level responses to the question
"Did you have to wait to use a boat launch today?"
Table A-D.17.a Response on having to wait to use boat launch

|  | Yes | No | N |
| :--- | :---: | :---: | :---: |
| Management Unit D | $11.8 \%$ | $88.2 \%$ | 34 |

Q17.aa Wait time: Management unit level responses to the question
"How long did you wait to use a boat launch today?"
Table A-D.17.aa Current conditions on waiting times to use boat launch

|  | Wait Time (in minutes) |  |  |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10 |  |  |  |  |  |  |  |  |  |  |
|  | 1 | 5 | 15 | 16 | 20 | Min | Max | Mean | SD | N |  |
| Management Unit D | $0.0 \%$ | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 0 | 5 | 5 | 5 | 3 |

## Q17.b Management unit level responses to the question

"How long of a wait to launch your boat is acceptable to you?"
Table A-D.17.b Acceptability of waiting times to use boat launch (in minutes)

|  | 0 | $1-5$ | $6-10$ | $11-15$ | $16-20$ | $21-25$ | $>25$ | Min | Max | Mean | SD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Acceptable waiting times (in minutes) |  |  |  |  |  |  |  |  |  |  |
| Management Unit D | $22.7 \%$ | $27.3 \%$ | $27.3 \%$ | $13.6 \%$ | $9.1 \%$ | $0.0 \%$ | $0.0 \%$ | 0 | 20 | 7.9 | 6.3 |

## Q18.a Management unit level responses to the question

Please rate each photo by indicating how acceptable you think "how many boats could use the segments of the reservoirs that you used today without you feeling too crowded and unsafe". A rating of -4 means the number of boats is "very unacceptable", and a rating of +4 means the number of boats is "very acceptable".

Table A-D.18.a Management Unit D

|  | Mean | SD | N |
| :---: | :---: | :---: | :---: |
| Photo 1 | 3.3 | 1.9 | 24 |
| Photo 2 | 3.4 | 1.7 | 24 |
| Photo 3 | 3.2 | 1.8 | 23 |
| Photo 4 | 3.0 | 2.0 | 23 |
| Photo 5 | 2.3 | 2.2 | 23 |
| Photo 6 | 2.0 | 2.6 | 23 |



Figure A-D.18.a Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Management Unit D

## Q18.b Management unit level responses to the question

"Which photo shows the highest number of boats that should be allowed on the reservoir segments you used today? In other words, at what point should boats be restricted from using the reservoir because it is too crowded and unsafe? (If you think use should not be restricted, please indicate)"

Table A-D.18.b Highest number of boats to be allowed on the reservoir segment

|  | Photo | Photo | Photo | Photo | Photo | Photo |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | Mean | SD | N |
| Management Unit D | $12.5 \%$ | $25.0 \%$ | $12.5 \%$ | - | $25.0 \%$ | $25.0 \%$ | 3.8 | 2.0 | 8 |

Table 1.18.bb Management unit level responses to the question
"None of the photos show a high enough number of boats to restrict use" (check box if you agree)
Table A-D.18.bb Agreement that none of the photos show a high enough number of boats to restrict use

|  | Yes | No | N |
| :---: | :---: | :---: | :---: |
| Management Unit D | $57.9 \%$ | $42.1 \%$ | 19 |

Q18.c Management unit level responses to the question
"Which photo looks most like the number of boats you typically saw on the reservoir segments you used today?"

Table A-D.18.c Photo that reflects number of boats seen on the reservoir

|  | Photo | Photo | Photo | Photo | Photo | Photo |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | Mean | SD | N |
| Management Unit D | $33.3 \%$ | $26.7 \%$ | $13.3 \%$ | $13.3 \%$ | - | $13.3 \%$ | 2.6 | 1.7 | 77 |

## Management Unit E

Note: Management Unit E includes the following sites where surveys occurred:

1. Sand Hollow
2. The Cove
3. Wanapum Dam Overlook
4. Wanapum Dam Upper Boat Launch
5. Wanapum Recreation Area (WSP)
6. Huntzinger Fishing Pier

Q1 Management unit level responses to the questions
"How many people are in your vehicle today, including yourself? (mark all that apply)"
Table A-E. 1 Number of people in respondent's vehicle

|  | Min | Max | Mean | SD | N |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Management Unit E | 1 | 12 | 3.5 | 2.1 | 124 |

Q3 Management unit level responses to the question
"Please indicate which of the following activities you are participating in on this trip"
Table A-E. 3 Management Unit E

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Resting/relaxing | $62.9 \%$ |
| Swimming/visiting the beach | $62.1 \%$ |
| Camping | $3.1 \%$ |
| Picnicking | $33.9 \%$ |
| Boating | $24.2 \%$ |
| Photography | $21.0 \%$ |
| Attending a concert | $16.9 \%$ |
| Wildlife Viewing | $16.1 \%$ |
| Waterskiing/tubing/wakeboarding | $15.3 \%$ |
| Hiking | $14.5 \%$ |
| Other | $13.8 \%$ |
| Riding jet skis/wave runners | $8.9 \%$ |
| Fishing | $7.3 \%$ |
| Visiting a dam | $6.5 \%$ |
| Golf | $1.6 \%$ |
| Canoeing/kayaking/paddle boarding | $1.6 \%$ |
| Other Text: Refer to site-level surveys results tables |  |

Q7 Management unit level responses to the questions
"How much time will you spend on your current trip?"
Table A.E. 7 Time spent in hours on current trip

|  | $<1 \mathrm{hr}$ | $1-4 \mathrm{hrs}$ | $5-8 \mathrm{hrs}$ | $>8 \mathrm{hrs}$ | Median | Mean | N |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Management Unit E | $7.7 \% \%$ | $53.8 \%$ | $32.3 \%$ | $6.2 \%$ | 4.0 | 4.1 | 65 |

Table A.E.7.a Time spent in days on current trip

|  | 1-2 days | 3-4 days | $5-7$ days | $>1$ week | Median | Mean | N |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Management Unit E | $38.3 \%$ | $48.3 \%$ | $11.7 \%$ | $1.7 \%$ | 3.0 | 4.9 | 60 |

Q8 Management unit level responses to the questions
"If your current trip extends into two or more days, what type of overnight accommodations did you use on your trip?"

Table A.E. 8 Management Unit E

| Campground (RV or tent) | Yes |
| :--- | ---: |
| Location: Refer to site-level surveys results tables | $76.6 \%$ |
| Rented cabin/condo/home/motel/hotel |  |
| Location: Refer to site-level surveys results tables | $1.3 \%$ |
| Your own home/property | $5.2 \%$ |
| Other (Please specify): | $9.1 \%$ |
| Other Text: Refer to site-level surveys results tables |  |

Q9 Management unit level responses to the question
"Did any of the following conditions adversely affect your trip?"

Table A.E. 9 Management Unit E

|  | Yes |
| :--- | ---: |
| Strong winds | $65.2 \%$ |
| Lack of shade from the sun | $33.3 \%$ |
| Low water levels | $18.2 \%$ |
| Lack of shelter from the weather | $9.1 \%$ |
| Lack of ADA accessibility | $3.0 \%$ |

Q10 Management unit level responses to the question
"Grant PUD is interested in your opinion about the level of existing development and management at the reservoirs. Please indicate a response for any of the following facilities you used during your visit."

Table A.E. 10 Management Unit E

|  | Too High |  | About Right |  |  |  |  | Too Low |  | DK | Mean | SD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |  |  |
| Number of boat launches | 0.0\% | 0.0\% | 4.1\% | 4.1\% | 73.0\% | 2.7\% | 8.1\% | 2.7\% | 5.4\% | 0.3\% | 5.4 | 1.2 |
| Amount of shoreline available for use | 1.0\% | 0.0\% | 6.7\% | 7.7\% | 55.8\% | 8.7\% | 11.5\% | 2.9\% | 5.8\% | 0.1\% | 5.4 | 1.5 |
| Quality of public docks | 0.0\% | 0.0\% | 6.8\% | 1.7\% | 72.9\% | 3.4\% | 10.2\% | 0.0\% | 5.1\% | 0.4\% | 5.3 | 1.2 |
| Number of swim/sunbathing areas | 0.0\% | 2.1\% | 5.3\% | 4.3\% | 66.0\% | 8.5\% | 8.5\% | 0.0\% | 5.3\% | 0.1\% | 5.3 | 1.3 |
| Quality of swim/sunbathing areas | 0.0\% | 1.1\% | 5.4\% | 5.4\% | 67.7\% | 6.5\% | 6.5\% | 2.2\% | 5.4\% | 0.1\% | 5.3 | 1.3 |
| Quality of restrooms/toilets | 0.9\% | 1.8\% | 7.3\% | 8.2\% | 59.1\% | 7.3\% | 7.3\% | 1.8\% | 6.4\% | 0.1\% | 5.2 | 1.5 |
| Number of restrooms/toilets | 0.9\% | 0.9\% | 1.8\% | 1.8\% | 86.6\% | 1.8\% | 4.5\% | 0.0\% | 1.8\% | 0.0\% | 5.1 | 0.9 |
| Level of public recreation development | 3.1\% | 0.0\% | 2.1\% | 3.1\% | 83.5\% | 2.1\% | 3.1\% | 0.0\% | 3.1\% | 0.1\% | 5.0 | 1.1 |
| Quality of boat launches | 0.0\% | 0.0\% | 8.1\% | 5.4\% | 77.0\% | 2.7\% | 2.7\% | 0.0\% | 4.1\% | 0.3\% | 5.0 | 1.1 |
| Quality of campsites | 1.2\% | 3.7\% | 3.7\% | 6.1\% | 72.0\% | 6.1\% | 4.9\% | 0.0\% | 2.4\% | 0.2\% | 5.0 | 1.2 |
| Quality of on-line campground reservation system | 1.6\% | 1.6\% | 6.5\% | 8.1\% | 72.6\% | 3.2\% | 1.6\% | 0.0\% | 4.8\% | 0.4\% | 4.9 | 1.3 |
| Number of picnic or day use areas | 2.7\% | 0.0\% | 9.1\% | 3.6\% | 75.5\% | 4.5\% | 1.8\% | 1.8\% | 0.9\% | 0.0\% | 4.8 | 1.1 |
| Quality of picnic or day use areas | 1.9\% | 2.9\% | 7.6\% | 8.6\% | 69.5\% | 4.8\% | 1.9\% | 1.0\% | 1.9\% | 0.0\% | 4.8 | 1.2 |
| Cost to use facilities | 4.2\% | 3.2\% | 7.4\% | 5.3\% | 73.7\% | 1.1\% | 1.1\% | 1.1\% | 3.2\% | 0.1\% | 4.7 | 1.4 |

Note: Response Scale: 1= Too high, 5=About Right, $9=$ Too Low

## Q11 Management unit level responses to the question

"Please indicate the extent that the following issues were problems for you during your visit today"

## Table A.E. 11 Management Unit E

| No Problem |  |  |  |  |  |  |  | Big Problem |  | DK | Mean | SD | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 58.5\% | 5.7\% | 9.4\% | 2.8\% | 7.5\% | 0.9\% | 4.7\% | 2.8\% | 7.5\% | 5.4\% | 2.8 | 2.7 | 112 |
| Disruptive behavior by others | 76.6\% | 4.7\% | 3.7\% | 0.9\% | 4.7\% | 0.9\% | 3.7\% | 1.9\% | 2.8\% | 6.1\% | 2.0 | 2.1 | 114 |
| Adequate information/warnings provided | 72.6\% | 9.4\% | 5.7\% | 1.9\% | 4.7\% | 1.9\% | 2.8\% | 0.0\% | 0.9\% | 6.2\% | 1.8 | 1.7 | 113 |
| Litter around the reservoir shoreline | 75.5\% | 9.1\% | 4.5\% | 0.9\% | 1.8\% | 3.6\% | 4.5\% | 0.0\% | 0.0\% | 4.3\% | 1.7 | 1.6 | 115 |
| Adequate safety and security | 79.6\% | 7.4\% | 4.6\% | 0.9\% | 0.0\% | 3.7\% | 0.9\% | 0.0\% | 2.8\% | 5.3\% | 1.7 | 1.7 | 114 |
| Other | 28.6\% | 28.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 42.9\% | 22.2\% | 4.7 | 4.3 | 9 |

(please specify): Refer to site-level surveys results tables
Note: Response Scale: 1= No Problem, 9= Big Problem

## Q12 Management unit level responses to the question

"Help us understand crowding issues by answering the following questions. (Mark one response for each item)"

## Table A.E. 12 Management Unit E

|  | Not at all Crowded |  |  |  | Extremely Crowded | DK/NA | Mean | SD |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: |
| How crowded did you feel today? | $63.8 \%$ | $9.5 \%$ | $1.7 \%$ | $12.1 \%$ | $3.4 \%$ | $0.9 \%$ | $6.0 \%$ | $3.4 \%$ | $0.0 \%$ | $0.0 \%$ | 2.1 |
| How crowded did you expect to | $37.2 \%$ | $8.8 \%$ | $9.7 \%$ | $22.1 \%$ | $3.5 \%$ | $1.7 \%$ | $10.6 \%$ | $5.3 \%$ | $1.8 \%$ | $0.9 \%$ | 3.1 |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded

Q14 Management unit level responses to the question
"Please estimate how much money you and your party will spend TODAY while on this trip (e.g., fuel, lodging, restaurants, groceries, admissions, fees, outdoor gear, etc.)."

Table A.E. 14 Current Day Trip Expenditure

|  | Current Day Trip Expenditure (\$) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | $1-50$ | $51-100$ | $101-150$ | $151-200$ | $201-300$ | $301-500$ | $>500$ | Median | Mean | SD |
| Management Unit E | $4.7 \%$ | $28.3 \%$ | $25.5 \%$ | $9.4 \%$ | $11.3 \%$ | $10.4 \%$ | $7.5 \%$ | $2.8 \%$ | 100 | 168 | 239.9 |

## Q16 Management unit level responses to the question

If you were on the water today, "what areas of the Priest Rapids/Wanapum reservoirs did you use today? (Mark all areas used)"
Table A.E. 16 Percent response on used areas of the Priest Rapids/Wanapum Reservoirs

> \% response on used areas of the Priest Rapids/Wanapum Reservoirs

|  | Unit A | Unit B | Unit C | Unit D | Unit E | Unit F | Unit G | N |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit E | $5.0 \%$ | $5.0 \%$ | $5.0 \%$ | $15.0 \%$ | $90.0 \%$ | $5.0 \%$ | - | 31 |

Q17.a Management unit level responses to the question
"Did you have to wait to use a boat launch today?"
Table A.E.17.a Response on having to wait to use boat launch

|  | Yes | No | N |
| :--- | :---: | :---: | :---: |
| Management Unit E | $3.2 \%$ | $96.8 \%$ | 31 |

Q17.aa Wait time: Management unit level responses to the question
"How long did you wait to use a boat launch today?"
Table A.E.17.aa Current conditions on waiting times to use boat launch

|  | Wait Time (in minutes) |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1 | 5 |  |  |  | 10 | 15 | 16 | 20 | Min | Max | Mean |
| Management Unit E | $0.0 \%$ | $50.0 \%$ | $0.0 \%$ | $50.0 \%$ | $0.0 \%$ | $0.0 \%$ | 5 | 15 | 10 | 7.1 | 2 |  |

Q17b Management unit level responses to the question
"How long of a wait to launch your boat is acceptable to you?"
Table A.E.17.b Acceptability of waiting times to use boat launch (in minutes)

|  | 0 | $1-5$ | $6-10$ | $11-15$ | $16-20$ | $21-25$ | $>25$ | Min | Max | Mean | SD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit E | $9.5 \%$ | $23.8 \%$ | $23.8 \%$ | $19.0 \%$ | $14.3 \%$ | $0.0 \%$ | $9.5 \%$ | 0 | 30 | 11.9 | 8.5 |

## Q18.a Management unit level responses to the question

Please rate each photo by indicating how acceptable you think "how many boats could use the segments of the reservoirs that you used today without you feeling too crowded and unsafe". A rating of -4 means the number of boats is "very unacceptable", and a rating of +4 means the number of boats is "very acceptable".

Table A.E.18.a Management Unit E

|  | Mean | SD | N |
| :--- | ---: | ---: | ---: |
| Photo 1 | 2.6 | 2.2 | 17 |
| Photo 2 | 2.5 | 2.3 | 16 |
| Photo 3 | 2.4 | 2.3 | 16 |
| Photo 4 | 2.2 | 2.3 | 16 |
| Photo 5 | 1.6 | 2.3 | 17 |
| Photo 6 | 1.1 | 2.5 | 17 |



Figure A.E.18.a Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Management Unit E

## Q18.b Management unit level responses to the question

"Which photo shows the highest number of boats that should be allowed on the reservoir segments you used today? In other words, at what point should boats be restricted from using the reservoir because it is too crowded and unsafe? (If you think use should not be restricted, please indicate)"

Table A.E.18.b Highest number of boats to be allowed on the reservoir segment

|  | Photo | Photo | Photo | Photo | Photo | Photo |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | Mean | SD | N |
| Management Unit E | - | $14.3 \%$ | $14.3 \%$ | - | - | $71.4 \%$ | 5.0 | 1.7 | 7 |

## Q18.bb Management unit level responses to the question

"None of the photos show a high enough number of boats to restrict use" (check box if you agree)

Table A.E.18.bb Agreement that none of the photos show a high enough number of boats to restrict use

|  | Yes | No | N |
| :--- | :---: | :---: | :---: |
| Management Unit E | $75.0 \%$ | $25.0 \%$ | 19 |

Q18.c Management unit level responses to the question
"Which photo looks most like the number of boats you typically saw on the reservoir segments you used today?"

Table A.E.18.c Photo that reflects number of boats seen on the reservoir

|  | Photo | Photo | Photo | Photo | Photo | Photo |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | Mean | SD | N |
| Management Unit E | $36.4 \%$ | - | $27.3 \%$ | $18.2 \%$ | 0 | $18.2 \%$ | 3.0 | 1.9 | 11 |

## Management Unit F

Note: Management Unit F includes the following sites where surveys occurred:

1. Beverly Sand Dunes ORV Park
2. Burkett Lake Recreation Area
3. Huntzinger Road Boat Launch
4. Wanapum Dam Lower Boat Launch
5. Wanapum Turbine Park

Q1 Management unit level responses to the questions
"How many people are in your vehicle today, including yourself? (mark all that apply)"
Table A-F. 1 Number of people in respondent's vehicle

|  | Min | Max | Mean | SD | N |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Management Unit F | 1 | 6 | 2.4 | 1.1 | 50 |

Q3 Management unit level responses to the question
"Please indicate which of the following activities you are participating in on this trip"
Table A.E. 3 Management Unit F

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Fishing | $59.2 \%$ |
| Resting | $34.7 \%$ |
| Wildlife | $18.4 \%$ |
| Boating | $12.2 \%$ |
| Dam | $10.2 \%$ |
| Swimming | $8.2 \%$ |
| Photography | $8.2 \%$ |
| Camping | $8.2 \%$ |
| Picnicking | $6.1 \%$ |
| Hiking | $6.1 \%$ |
| Canoeing | $2.0 \%$ |
| Jetskis | $0.0 \%$ |
| Concert | $0.0 \%$ |
| Waterskiing | $0.0 \%$ |
| Golf | $0.0 \%$ |
| Other | $18.4 \%$ |
| Other Text: Refer to site-level surveys results tables |  |

## Q7.a Management unit level responses to the questions

"How much time will you spend on your current trip?"
Table A.F. 7 Time spent in hours on current trip

|  | $<1 \mathrm{hr}$ | $1-4 \mathrm{hrs}$ | $5-8 \mathrm{hrs}$ | $>8 \mathrm{hrs}$ | Median | Mean | N |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit F | $6.3 \%$ | $53.1 \%$ | $31.3 \%$ | $9.4 \%$ | 4.0 | 4.4 | 32 |

Table A.F.7.a Time spent in days on current trip

|  | 1-2days | 3-4days | 5-7days | $>1$ week | Median | Mean | N |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit F | $50.0 \%$ | $33.3 \%$ | $11.1 \%$ | $5.6 \%$ | 2.5 | 3.1 | 18 |

Q8 Management unit level responses to the questions
"If your current trip extends into two or more days, what type of overnight accommodations did you use on your trip?"

Table A.E. 8 Management Unit F

|  | Yes |
| :--- | :---: |
| Campground (RV or tent) | $32.0 \%$ |
| Location: Refer to site-level surveys results tables |  |
| Rented cabin/condo/home/motel/hotel | $12.0 \%$ |
| Location: Refer to site-level surveys results tables |  |
| Your own home/property | $40.0 \%$ |
| Other (Please specify): | $16.0 \%$ |

## Q9 Management unit level responses to the question

"Did any of the following conditions adversely affect your trip?"
Table A.E. 9 Management Unit F

|  | Yes |
| :--- | ---: |
| Strong winds | $45.8 \%$ |
| Lack of shade from the sun | $62.5 \%$ |
| Low water levels | $20.8 \%$ |
| Lack of shelter from the weather | $8.3 \%$ |
| Lack of ADA accessibility | $4.2 \%$ |

Q10 Management unit level responses to the question
"Grant PUD is interested in your opinion about the level of existing development and management at the reservoirs. Please indicate a response for any of the following facilities you used during your visit."

Table A.E. 10 Management Unit F

|  | Too High |  |  | About Right |  |  |  | Too Low |  | DK | Mean | SD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | , | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |  |  |
| Number of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 70.4\% | 3.7\% | 0.0\% | 7.4\% | 18.5\% | 35.7\% | 6.0 | 1.7 |
| Number of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 71.4\% | 0.0\% | 14.3\% | 0.0\% | 14.3\% | 47.5\% | 5.9 | 1.5 |
| Quality of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 76.2\% | 4.8\% | 4.8\% | 0.0\% | 14.3\% | 48.8\% | 5.7 | 1.5 |
| Number of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 80.0\% | 4.0\% | 0.0\% | 0.0\% | 16.0\% | 35.9\% | 5.7 | 1.5 |
| Number of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 83.3\% | 3.3\% | 0.0\% | 0.0\% | 13.3\% | 26.8\% | 5.6 | 1.4 |
| Quality of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 83.3\% | 4.2\% | 0.0\% | 0.0\% | 12.5\% | 40.0\% | 5.5 | 1.4 |
| Number of picnic or day use areas | 0.0\% | 0.0\% | 0.0\% | 2.9\% | 76.5\% | 5.9\% | 5.9\% | 0.0\% | 8.8\% | 19.0\% | 5.5 | 1.2 |
| Quality of boat launches | 0.0\% | 3.1\% | 3.1\% | 0.0\% | 68.8\% | 9.4\% | 3.1\% | 9.4\% | 3.1\% | 23.8\% | 5.4 | 1.4 |
| Quality of on-line campground reservation system | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 90.0\% | 0.0\% | 0.0\% | 0.0\% | 10.0\% | 47.4\% | 5.4 | 1.2 |
| Number of boat launches | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 84.8\% | 3.0\% | 3.0\% | 6.1\% | 3.0\% | 17.5\% | 5.4 | 1.0 |
| Quality of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 89.3\% | 0.0\% | 0.0\% | 3.6\% | 7.1\% | 33.3\% | 5.4 | 1.2 |
| Amount of shoreline available for use | 2.8\% | 0.0\% | 0.0\% | 2.8\% | 75.0\% | 2.8\% | 8.3\% | 0.0\% | 8.3\% | 10.0\% | 5.4 | 1.4 |
| Quality of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 85.2\% | 7.4\% | 0.0\% | 0.0\% | 7.4\% | 34.1\% | 5.4 | 1.1 |
| Quality of picnic or day use areas | 2.9\% | 0.0\% | 0.0\% | 0.0\% | 85.3\% | 2.9\% | 0.0\% | 2.9\% | 5.9\% | 15.0\% | 5.2 | 1.3 |
| Cost to use facilities | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 96.7\% | 0.0\% | 0.0\% | 0.0\% | 3.3\% | 28.6\% | 5.1 | 0.7 |
| Level of public recreation development | 2.6\% | 0.0\% | 2.6\% | 0.0\% | 87.2\% | 0.0\% | 2.6\% | 2.6\% | 2.6\% | 4.9\% | 5.1 | 1.1 |
| Number of restrooms/toilets | 0.0\% | 2.3\% | 0.0\% | 0.0\% | 93.0\% | 4.7\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | 5.0 | 0.5 |
| Quality of restrooms/toilets | 4.7\% | 0.0\% | 2.3\% | 9.3\% | 74.4\% | 2.3\% | 2.3\% | 0.0\% | 4.7\% | 2.3\% | 4.9 | 1.4 |

[^3]
## Q11 Management unit level responses to the question

"Please indicate the extent that the following issues were problems for you during your visit today"

## Table A.E. 11 Management Unit F

|  | No Problem |  |  |  |  | Big Problem | DK | Mean | SD | N |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: |
| Adequate protection from the wind | $60.5 \%$ | $7.0 \%$ | $4.7 \%$ | $0.0 \%$ | $16.3 \%$ | $11.6 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $4.4 \%$ | 2.4 | 2.0 | 45 |
| Litter around the reservoir shoreline | $66.7 \%$ | $16.7 \%$ | $4.8 \%$ | $2.4 \%$ | $2.4 \%$ | $2.4 \%$ | $0.0 \%$ | $2.4 \%$ | $2.4 \%$ | $6.7 \%$ | 1.9 | 1.9 | 45 |
| Adequate information/warnings | $79.1 \%$ | $4.7 \%$ | $4.7 \%$ | $2.3 \%$ | $7.0 \%$ | $2.3 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $4.4 \%$ | 1.6 | 1.3 | 45 |
| $\quad$ provided | $75.0 \%$ | $11.4 \%$ | $4.5 \%$ | $4.5 \%$ | $4.5 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $2.2 \%$ | 1.5 | 1.1 | 45 |
| Adequate safety and security | $88.6 \%$ | $2.3 \%$ | $0.0 \%$ | $2.3 \%$ | $4.5 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $2.3 \%$ | $2.2 \%$ | 1.5 | 1.5 | 45 |
| Disruptive behavior by others | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $100.0 \%$ | $0.0 \%$ | 9.0 | 0.0 | 2 |
| Other |  |  |  |  |  |  |  |  |  |  |  |  |  |

(please specify): Refer to site-level surveys results tables
Note: Response Scale: 1= No Problem, 9= Big Problem

Q12 Management unit level responses to the question
"Help us understand crowding issues by answering the following questions. (Mark one response for each item)"
Table A.E. 12 Management Unit F

| Not at all Crowded |  |  |  |  |  |  | Extremely Crowded |  |  | DK/NA | Mean | SD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | 79.5\% | 9.1\% | 4.5\% | 4.5\% | 0.0\% | 4.3\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 1.4 | 1.0 |
| How crowded did you expect to | 27.9\% | 9.3\% | 14.0\% | 18.6\% | 4.7\% | 2.3\% | 14.0\% | 4.7\% | 4.7\% | 2.3\% | 3.6 | 2.3 |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded

## Q14 Management unit level responses to the question

"Please estimate how much money you and your party will spend TODAY while on this trip (e.g., fuel, lodging, restaurants, groceries, admissions, fees, outdoor gear, etc.)."

Table A.E. 14 Current Day Trip Expenditure

|  | Current Day Trip Expenditure (\$) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1-50 | 51-100 | 101-150 | 151-200 | 201-300 | 301-500 | $>500$ | Median | Mean | SD |
| Management Unit F | 7.1\% | 28.6\% | 35.7\% | 4.8\% | 9.5\% | 2.4\% | 11.9\% | 0\% | 100 | 111.4 | 95.2 |

Q16 Management unit level responses to the question
If you were on the water today, "what areas of the Priest Rapids/Wanapum reservoirs did you use today? (Mark all areas used)"
Table A.E. 16 Percent response on used areas of the Priest Rapids/Wanapum Reservoirs

|  | \% response on used areas of the Priest Rapids/Wanapum Reservoirs |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit A | Unit B | Unit C | Unit D | Unit E | Unit F | Unit G | N |
| Management Unit F | $20.0 \%$ | $20.0 \%$ | $20.0 \%$ | $20.0 \%$ | $40.0 \%$ | $80.0 \%$ | - | 5 |

Q17a Management unit level responses to the question
"Did you have to wait to use a boat launch today?"
Table A.E.17.a Response on having to wait to use boat launch

|  | Yes | No | N |
| :---: | :---: | :---: | :---: |
| Management Unit F | $10.0 \%$ | $90.0 \%$ | 10 |

Q17.a Wait time: Management unit level responses to the question
"How long did you wait to use a boat launch today?"
Table A.E.17.a Current conditions on waiting times to use boat launch

|  | Wait Time (in minutes) |  |  |  |  |  |  |  |  |  |  |
| :--- | :---: | ---: | :---: | ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 5 | 10 | 15 | 16 | 20 | $\operatorname{Min}$ | $\operatorname{Max}$ | Mean | SD | N |
| Management Unit F | $0.0 \%$ | $50.0 \%$ | $0.0 \%$ | $100 \%$ | $0.0 \%$ | $0.0 \%$ | 15 | 15 | 15 | - | 1 |

## Q17.b Management unit level responses to the question

"How long of a wait to launch your boat is acceptable to you?"
Table A.E.17.b Acceptability of waiting times to use boat launch (in minutes)

|  | Acceptable waiting times (in minutes) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | $1-5$ | $6-10$ | $11-15$ | $16-20$ | $21-25$ | $>25$ | Min | Max | Mean | SD | N |
| Management Unit F | $12.5 \%$ | $25.0 \%$ | $12.5 \%$ | $25.0 \%$ | - | - | $25.0 \%$ | 0 | 0 | 15.6 | 15.0 | 45 |

## Q18.a Management unit level responses to the question

Please rate each photo by indicating how acceptable you think "how many boats could use the segments of the reservoirs that you used today without you feeling too crowded and unsafe". A rating of -4 means the number of boats is "very unacceptable", and a rating of +4 means the number of boats is "very acceptable".

Table A.E.18.a Management Unit F

|  | Mean | SD | N |
| :--- | :---: | :---: | :---: |
| Photo 1 | 1.8 | 2.6 | 9 |
| Photo 2 | 1.7 | 2.5 | 9 |
| Photo 3 | 1.7 | 2.5 | 9 |
| Photo 4 | 1.6 | 2.6 | 9 |
| Photo 5 | 1.1 | 2.4 | 9 |
| Photo 6 | 0.9 | 2.6 | 9 |



Figure A.E.18.a Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Management Unit F

## Q18.b Management unit level responses to the question

"Which photo shows the highest number of boats that should be allowed on the reservoir segments you used today? In other words, at what point should boats be restricted from using the reservoir because it is too crowded and unsafe? (If you think use should not be restricted, please indicate)"

Table A.E.18.b Highest number of boats to be allowed on the reservoir segment

|  | Photo | Photo | Photo | Photo | Photo | Photo |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | Mean | SD | N |
| Management Unit F | - | - | - | - | $100.0 \%$ | - | 5 | - | 1 |

## Q18.bb Management unit level responses to the question

"None of the photos show a high enough number of boats to restrict use" (check box if you agree)
Table A.E.18.bb Agreement that none of the photos show a high enough number of boats to restrict use

|  | Yes | No | N |
| :--- | :---: | :---: | :---: |
| Management Unit F | $100 \%$ | - | 8 |

## Q18.c Management unit level responses to the question

"Which photo looks most like the number of boats you typically saw on the reservoir segments you used today?"

Table A.E.18.c Photo that reflects number of boats seen on the reservoir

|  | Photo | Photo | Photo | Photo | Photo | Photo |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | Mean | SD | N |
| Management Unit F | $40.0 \%$ | $20.0 \%$ | - | $20.0 \%$ | $20.0 \%$ | $20.0 \%$ | 3.6 | 1.8 | 5 |

## Management Unit G

Note: Management Unit G includes the following sites where surveys occurred:

1. Buckshot Recreation Area
2. Jackson Creek Fish Camp
3. PRRA

Q1 Management unit level responses to the questions
"How many people are in your vehicle today, including yourself? (mark all that apply)"
Table A-G. 1 Number of people in respondent's vehicle

|  | Min | Max | Mean | SD | N |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Management Unit G | 1 | 15 | 3.7 | 2.7 | 70 |

Q3 Management unit level responses to the question
"Please indicate which of the following activities you are participating in on this trip"
Table A-G. 3 Management Unit G

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Resting | $54.2 \%$ |
| Boating | $50.7 \%$ |
| Swimming | $41.1 \%$ |
| Waterskiing | $27.8 \%$ |
| Fishing | $23.6 \%$ |
| Golf | $22.2 \%$ |
| Picnicking | $18.1 \%$ |
| Wildlife | $17.8 \%$ |
| Camping | $16.7 \%$ |
| Photography | $13.7 \%$ |
| Canoeing | $12.5 \%$ |
| Jetskis | $1.0 \%$ |
| Hiking | $9.7 \%$ |
| Dam | $5.6 \%$ |
| Concert | $2.8 \%$ |
| Other | $12.5 \%$ |
| Other Text: Refer to site-level surveys results tables |  |

## Q7 Management unit level responses to the questions

"How much time will you spend on your current trip?"
Table A-G. 7 Time spent in hours on current trip

|  | $<1 \mathrm{hr}$ | $1-4 \mathrm{hrs}$ | $5-8 \mathrm{hrs}$ | $>8$ hrs | Median | Mean | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management Unit G | - | $63.0 \%$ | $37.0 \%$ | - | 3.0 | 3.4 | 27 |

Table A-G.7.a Time spent in days on current trip

|  | $1-2$ days | $3-4$ days | $5-7$ days | $>1$ week | Median | Mean | N |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Management Unit G | $21.4 \%$ | $45.2 \%$ | $16.7 \%$ | $16.7 \%$ | 3.5 | 16.8 | 18 |

Q8 Management unit level responses to the questions
"If your current trip extends into two or more days, what type of overnight accommodations did you use on your trip?"

Table A-G. 8 Management Unit G

|  | Yes |
| :--- | :---: |
| Campground (RV or tent) | $30.9 \%$ |
| Location: Refer to site-level surveys results tables |  |
| Rented cabin/condo/home/motel/hotel | $5.5 \%$ |
| Location: Refer to site-level surveys results tables |  |
| Your own home/property | $52.7 \%$ |
| Other (Please specify): | $14.5 \%$ |

Q9 Management unit level responses to the question
"Did any of the following conditions adversely affect your trip?"
Table A-G. 9 Management Unit G

|  | Yes |
| :--- | ---: |
| Strong winds | $75.6 \%$ |
| Lack of shade from the sun | $29.3 \%$ |
| Low water levels | $4.9 \%$ |
| Lack of shelter from the weather | $4.9 \%$ |
| Lack of ADA accessibility | $2.4 \%$ |

## Q10 Management unit level responses to the question

"Grant PUD is interested in your opinion about the level of existing development and management at the reservoirs. Please indicate a response for any of the following facilities you used during your visit."

Table A-G. 10 Management Unit G

|  | Too High |  |  | About Right |  |  |  | Too Low |  | DK | Mean | SD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |  |  |
| Amount of shoreline available for use | 3.4\% | 0.0\% | 0.0\% | 3.4\% | 64.4\% | 3.4\% | 8.5\% | 0.0\% | 16.9\% | 3.3\% | 5.7 | 1.8 |
| Number of restrooms/toilets | 1.6\% | 1.6\% | 1.6\% | 0.0\% | 68.3\% | 3.2\% | 12.7\% | 1.6\% | 9.5\% | 3.1\% | 5.6 | 1.5 |
| Number of swim/sunbathing areas | 0.0\% | 0.0\% | 5.4\% | 0.0\% | 69.6\% | 7.1\% | 12.5\% | 3.6\% | 1.8\% | 9.7\% | 5.4 | 1.1 |
| Number of campsites | 0.0\% | 2.1\% | 0.0\% | 2.1\% | 81.3\% | 2.1\% | 2.1\% | 4.2\% | 6.3\% | 18.6\% | 5.4 | 1.3 |
| Number of hiking trails | 0.0\% | 2.1\% | 8.3\% | 2.1\% | 60.4\% | 2.1\% | 14.6\% | 4.2\% | 6.3\% | 20.0\% | 5.4 | 1.5 |
| Number of public docks | 0.0\% | 3.6\% | 3.6\% | 1.8\% | 69.6\% | 1.8\% | 5.4\% | 5.4\% | 8.9\% | 11.1\% | 5.4 | 1.6 |
| Quality of swim/sunbathing areas | 0.0\% | 0.0\% | 3.6\% | 3.6\% | 72.7\% | 3.6\% | 16.4\% | 0.0\% | 0.0\% | 11.3\% | 5.3 | 0.9 |
| Quality of restrooms/toilets | 1.7\% | 1.7\% | 5.1\% | 0.0\% | 69.5\% | 10.2\% | 5.1\% | 1.7\% | 5.1\% | 7.8\% | 5.2 | 1.4 |
| Quality of on-line campground reservation system | 0.0\% | 2.6\% | 0.0\% | 5.3\% | 78.9\% | 5.3\% | 5.3\% | 0.0\% | 2.6\% | 36.7\% | 5.1 | 1.0 |
| Cost to use facilities | 0.0\% | 0.0\% | 0.0\% | 1.9\% | 96.2\% | 1.9\% | 0.0\% | 0.0\% | 0.0\% | 14.5\% | 5.0 | 0.2 |
| Number of boat launches | 0.0\% | 1.7\% | 5.0\% | 3.3\% | 80.0\% | 3.3\% | 6.7\% | 0.0\% | 0.0\% | 4.8\% | 5.0 | 0.8 |
| Quality of campsites | 0.0\% | 2.2\% | 4.3\% | 0.0\% | 84.8\% | 6.5\% | 0.0\% | 2.2\% | 0.0\% | 23.3\% | 5.0 | 0.8 |
| Quality of hiking trails | 0.0\% | 4.2\% | 6.3\% | 2.1\% | 77.1\% | 2.1\% | 6.3\% | 0.0\% | 2.1\% | 17.2\% | 5.0 | 1.1 |
| Quality of public docks | 0.0\% | 3.8\% | 9.4\% | 1.9\% | 71.7\% | 3.8\% | 1.9\% | 3.8\% | 3.8\% | 11.7\% | 5.0 | 1.4 |
| Level of public recreation development | 3.2\% | 1.6\% | 3.2\% | 0.0\% | 85.5\% | 4.8\% | 1.6\% | 0.0\% | 0.0\% | 6.1\% | 4.8 | 0.9 |
| Number of picnic or day use areas | 3.6\% | 3.6\% | 0.0\% | 5.4\% | 83.9\% | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 9.7\% | 4.8 | 1.2 |
| Quality of picnic or day use areas | 1.8\% | 3.6\% | 5.5\% | 9.1\% | 76.4\% | 1.8\% | 1.8\% | 0.0\% | 0.0\% | 9.8\% | 4.7 | 1.0 |
| Quality of boat launches | 1.6\% | 4.9\% | 13.1\% | 6.6\% | 70.5\% | 3.3\% | 0.0\% | 0.0\% | 0.0\% | 6.2\% | 4.5 | 1.0 |

[^4]
## Q11 Management unit level responses to the question

"Please indicate the extent that the following issues were problems for you during your visit today"

## Table A-G. 11 Management Unit G

|  | No Problem |  | Big Problem |  |  |  |  |  |  | DK | Mean | SD | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 50.8\% | 6.3\% | 6.3\% | 7.9\% | 17.5\% | 1.6\% | 3.2\% | 3.2\% | 3.2\% | 6.0\% | 2.9 | 2.4 | 67 |
| Adequate information/warnings provided | 79.0\% | 6.5\% | 4.8\% | 4.8\% | 3.2\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 8.8\% | 1.6 | 1.4 | 68 |
| Disruptive behavior by others | 85.2\% | 3.3\% | 4.9\% | 0.0\% | 4.9\% | 0.0\% | 0.0\% | 0.0\% | 1.6\% | 10.3\% | 1.5 | 1.4 | 68 |
| Litter around the reservoir shoreline | 86.4\% | 6.1\% | 1.5\% | 0.0\% | 3.0\% | 0.0\% | 0.0\% | 0.0\% | 3.0\% | 4.3\% | 1.5 | 1.5 | 69 |
| Adequate safety and security | 86.2\% | 6.2\% | 3.1\% | 0.0\% | 1.5\% | 1.5\% | 0.0\% | 0.0\% | 1.5\% | 4.4\% | 1.4 | 1.3 | 68 |
| Other | 14.3\% | 42.9\% | 0.0\% | 0.0\% | 14.3\% | 0.0\% | 0.0\% | 0.0\% | 28.6\% | 0.0\% | 4.3 | 3.3 | 14 |
| (please specify): | Refer to site-level surveys results tables |  |  |  |  |  |  |  |  |  |  |  |  |

Note: Response Scale: $1=$ No Problem, $9=$ Big Problem

## Q12 Management unit level responses to the question

"Help us understand crowding issues by answering the following questions. (Mark one response for each item)"
Table A-G. 12 Management Unit G

|  | Not at all Crowded |  |  | Extremely Crowded |  |  |  |  | DK/NA | Mean | SD |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | $76.5 \%$ | $13.2 \%$ | $4.4 \%$ | $4.4 \%$ | $0.0 \%$ | $1.5 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.4 | 1.0 |
| How crowded did you expect to <br> feel today? | $40.9 \%$ | $12.1 \%$ | $12.1 \%$ | $16.7 \%$ | $3.0 \%$ | $6.1 \%$ | $3.0 \%$ | $4.5 \%$ | $1.5 \%$ | $1.5 \%$ | 2.9 | 2.2 |
| Note: Respons Scale: 1 Not at all Crowded $9=$ Extremely Crowded |  |  |  |  |  |  |  |  |  |  |  |  |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded
Q14 Management unit level responses to the question
"Please estimate how much money you and your party will spend TODAY while on this trip
(e.g., fuel, lodging, restaurants, groceries, admissions, fees, outdoor gear, etc.)."

## Table A-G. 14 Current Day Trip Expenditure

|  | Current Day Trip Expenditure (\$) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | $1-50$ | $51-100$ | $101-150$ | $151-200$ | $201-300$ | $301-500$ | $>500$ | Median | Mean |
| SD |  |  |  |  |  |  |  |  |  |  |

Q16 Management unit level responses to the question
If you were on the water today, "what areas of the Priest Rapids/Wanapum reservoirs did you use today? (Mark all areas used)"
Table A-G. 16 Percent response on used areas of the Priest Rapids/Wanapum Reservoirs

|  | \% response on used areas of the Priest Rapids/Wanapum Reservoirs |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- |
|  | Unit A | Unit B | Unit C | Unit D | Unit E | Unit F | Unit G | N |
| Management Unit G | $5.6 \%$ | $5.6 \%$ | $5.6 \%$ | $5.6 \%$ | $5.6 \%$ | $22.2 \%$ | $88.9 \%$ | 18 |

Q17.a Management unit level responses to the question
"Did you have to wait to use a boat launch today?"
Table A-G.17.a Response on having to wait to use boat launch

|  | Yes | No | N |
| :--- | :---: | :---: | :---: |
| Management Unit G | $3.7 \%$ | $96.3 \%$ | 27 |

Q17.aa Wait time: Management unit level responses to the question
"How long did you wait to use a boat launch today?"
Table A-G.17.aa Current conditions on waiting times to use boat launch


## Q17.b Management unit level responses to the question

"How long of a wait to launch your boat is acceptable to you?"
Table A-G.17.b Acceptability of waiting times to use boat launch (in minutes)

| Acceptable waiting times (in minutes) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | >25 | Min | Max | Mean | SD | N |
| Management Unit G | 20.0\% | 40.0\% | 13.3\% | 26.7\% | - | - | - | 0 | 15 | 7.1 | 5.8 | 15 |

## Q18.a Management unit level responses to the question

Please rate each photo by indicating how acceptable you think "how many boats could use the segments of the reservoirs that you used today without you feeling too crowded and unsafe". A rating of -4 means the number of boats is "very unacceptable", and a rating of +4 means the number of boats is "very acceptable".

Table A-G.18.a Management Unit G

|  | Mean | SD | N |
| :--- | ---: | ---: | ---: |
| Photo 1 | 3.0 | 1.7 | 18 |
| Photo 2 | 3.1 | 1.6 | 18 |
| Photo 3 | 2.6 | 1.5 | 18 |
| Photo 4 | 2.1 | 1.9 | 18 |
| Photo 5 | 0.5 | 2.5 | 18 |
| Photo 6 | -0.1 | 2.5 | 18 |



Figure A-G.18.a Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Management Unit G

## Q18.b Management unit level responses to the question

"Which photo shows the highest number of boats that should be allowed on the reservoir segments you used today? In other words, at what point should boats be restricted from using the reservoir because it is too crowded and unsafe? (If you think use should not be restricted, please indicate)"

Table A-G.18.b Highest number of boats to be allowed on the reservoir segment

|  | Photo | Photo | Photo | Photo | Photo | Photo |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | Mean | SD | N |
| Management Unit G | $12.5 \%$ | - | $12.5 \%$ | $37.5 \%$ | $25.0 \%$ | $12.5 \%$ | 4 | 1.5 | 8 |

Q18.bb Management unit level responses to the question
"None of the photos show a high enough number of boats to restrict use" (check box if you agree)
Table A-G.18.bb Agreement that none of the photos show a high enough number of boats to restrict use

|  | Yes | No | N |
| :--- | :---: | :---: | :---: |
| Management Unit G | $50 \%$ | $50 \%$ | 14 |

Q18.c Management unit level responses to the question
"Which photo looks most like the number of boats you typically saw on the reservoir segments you used today?"

Table A-G.18.c Photo that reflects number of boats seen on the reservoir

|  | Photo | Photo | Photo | Photo | Photo | Photo |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 | Mean | SD | N |
| Management Unit G | $23.5 \%$ | $29.4 \%$ | $29.4 \%$ | $5.9 \%$ | $5.9 \%$ | $5.9 \%$ | 2.6 | 1.4 | 17 |

## APPENDIX B

## Site-level Survey Results

Table B.0 Respondents at each sampling locations for the visitor questionnaire

| Intercept location | Frequency | Percent |
| :--- | ---: | ---: |
| Beverly Sand Dunes ORV Park | 5 | 0.7 |
| Buckshot Recreation Area | 4 | 0.5 |
| Burkett Lake Recreation Area | 4 | 0.5 |
| CBRA | 179 | 23.9 |
| Frenchman Coulee Recreation Area | 36 | 4.8 |
| Huntzinger Road Boat Launch | 6 | 0.8 |
| Huntzinger Road Fishing Access Site | 3 | 0.4 |
| Jackson Creek Fish Camp | 5 | 0.7 |
| PRRA | 65 | 8.7 |
| Quilomene Dune \& Bay | 111 | 14.8 |
| Rattlesnake Cove | 11 | 1.5 |
| Riverstone Resort | 12 | 1.6 |
| Rocky Coulee | 41 | 5.5 |
| Sand Hollow | 36 | 4.8 |
| Sunland Boat Launch | 24 | 3.2 |
| Sunland Picnic Area | 8 | 1.1 |
| The Cove | 6 | 0.8 |
| Vantage Boat Launch | 76 | 10.2 |
| Wanapum Dam Lower Boat Launch | 25 | 3.3 |
| Wanapum Dam Overlook | 19 | 2.5 |
| Wanapum Dam Upper Boat Launch | 7 | 0.9 |
| Wanapum Recreation Area (WSP) | 57 | 7.6 |
| Wanapum Turbine Park | 8 | 1.1 |
| Total | 748 | 100 |

## Q1 Site-level responses to the questions

"How many people are in your vehicle today, including yourself? (mark all that apply)"

Table B. 1 Number of people in respondent's vehicle

| Site | Min | Max | Mean | SD |
| :--- | :---: | :---: | :---: | :---: |
| Beverly Sand Dunes ORV Park | 1 | 5 | 2.8 | 1.6 |
| Buckshot Recreation Area | 2 | 4 | 2.8 | 1.0 |
| Burkett Lake Recreation Area | 2 | 5 | 3.5 | 1.3 |
| CBRA | 1 | 25 | 4.5 | 3.3 |
| Frenchman Coulee Recreation Area | 1 | 6 | 2.1 | 1.1 |
| Huntzinger Road Boat Launch | 1 | 4 | 2.0 | 0.9 |
| Huntzinger Road Fishing Access Site | 1 | 2 | 1.7 | 0.6 |
| Jackson Creek Fish Camp | 1 | 2 | 1.6 | 0.5 |
| PRRA | 1 | 15 | 3.9 | 2.9 |
| Quilomene Dune \& Bay | 1 | 15 | 5.5 | 3.0 |
| Rattlesnake Cove | 2 | 5 | 3.1 | 1.1 |
| Riverstone Resort | 2 | 5 | 3.0 | 1.0 |
| Rocky Coulee | 1 | 11 | 2.8 | 2.1 |
| Sand Hollow | 1 | 12 | 3.1 | 2.4 |
| Sunland Boat Launch | 1 | 13 | 4.2 | 2.7 |
| Sunland Picnic Area | 1 | 5 | 3.4 | 1.5 |
| The Cove | 1 | 2 | 1.7 | 0.5 |
| Vantage Boat Launch | 1 | 9 | 2.7 | 1.7 |
| Wanapum Dam Lower Boat Launch | 1 | 4 | 2.3 | 0.8 |
| Wanapum Dam Overlook | 1 | 5 | 2.3 | 1.3 |
| Wanapum Dam Upper Boat Launch | 1 | 5 | 3.0 | 1.4 |
| Wanapum Recreation Area (WSP) | 1 | 10 | 4.4 | 2.0 |
| Wanapum Turbine Park | 1 | 6 | 2.1 | 1.6 |

## Q3 Site-level responses to the question

"Please indicate which of the following activities you are participating in on this trip"
Table B.3.1 Beverly Sand Dunes ORV Park

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Resting/relaxing | $60 \%$ |
| Camping | $60 \%$ |
| Swimming/visiting the beach | $0 \%$ |
| Boating | $0 \%$ |
| Riding jet skis/wave runners | $0 \%$ |
| Photography | $0 \%$ |
| Wildlife Viewing | $0 \%$ |
| Picnicking | $0 \%$ |
| Attending a concert | $0 \%$ |
| Fishing | $0 \%$ |
| Visiting a dam | $0 \%$ |
| Waterskiing/tubing/wakeboarding | $0 \%$ |
| Hiking | $0 \%$ |
| Canoeing/kayaking/paddle | $0 \%$ |
| boarding | $0 \%$ |
| Golf | $100 \%$ |
| Other |  |
| Other Text: Riding, riding ATVs, dirt bike, \& quad |  |

Table B.3.2 Buckshot Recreation Area

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Resting/relaxing | $75.0 \%$ |
| Swimming/visiting the beach | $50.0 \%$ |
| Boating | $25.0 \%$ |
| Waterskiing/tubing/wakeboarding | $25.0 \%$ |
| Riding jet skis/wave runners | $0.0 \%$ |
| Photography | $0.0 \%$ |
| Wildlife Viewing | $0.0 \%$ |
| Picnicking | $0.0 \%$ |
| Attending a concert | $0.0 \%$ |
| Fishing | $0.0 \%$ |
| Visiting a dam | $0.0 \%$ |
| Camping | $0.0 \%$ |
| Hiking | $0.0 \%$ |
| Canoeing/kayaking/paddle | $0.0 \%$ |
| boarding | $0.0 \%$ |
| Golf | $0.0 \%$ |

Table B.3.3 Burkett Lake Recreation Area

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Fishing | $66.70 \%$ |
| Resting/relaxing | $33.30 \%$ |
| Visiting a dam | $33.30 \%$ |
| Swimming/visiting the beach | $0 \%$ |
| Boating | $0 \%$ |
| Riding jet skis/wave runners | $0 \%$ |
| Photography | $0 \%$ |
| Wildlife Viewing | $0 \%$ |
| Picnicking | $0 \%$ |
| Attending a concert | $0 \%$ |
| Camping | $0 \%$ |
| Waterskiing/tubing/wakeboarding | $0 \%$ |
| Hiking | $0 \%$ |
| Canoeing/kayaking/paddle | $0 \%$ |
| boarding | $0 \%$ |
| Golf | $0 \%$ |

Table B.3.4 CBRA

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Swimming/visiting the beach | $86.6 \%$ |
| Resting/relaxing | $69.3 \%$ |
| Boating | $43.6 \%$ |
| Camping | $38.0 \%$ |
| Golf | $27.9 \%$ |
| Waterskiing/tubing/wakeboarding | $25.7 \%$ |
| Picnicking | $24.6 \%$ |
| Photography | $20.7 \%$ |
| Wildlife Viewing | $20.7 \%$ |
| Attending a concert | $20.1 \%$ |
| Riding jet skis/wave runners | $19.0 \%$ |
| Canoeing/kayaking/paddle | $13.4 \%$ |
| boarding | $6.7 \%$ |
| Hiking | $3.4 \%$ |
| Fishing | $1.7 \%$ |
| Visiting a dam | $9.5 \%$ |
| Other | Other Text: Basketball, visiting businesses, having some |
| cold, family time, watershed, drinking, wedding, friends at |  |
| Crescent bar, concert, red necking birthday party. |  |

Table B.3.5 Frenchman Coulee Recreation Area

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Swimming/visiting the beach | $75.0 \%$ |
| Resting/relaxing | $47.2 \%$ |
| Wildlife Viewing | $25.0 \%$ |
| Camping | $25.0 \%$ |
| Photography | $22.2 \%$ |
| Hiking | $22.2 \%$ |
| Picnicking | $13.9 \%$ |
| Attending a concert | $13.9 \%$ |
| Fishing | $8.3 \%$ |
| Boating | $5.6 \%$ |
| Riding jet skis/wave runners | $2.8 \%$ |
| Visiting a dam | $0.0 \%$ |
| Waterskiing/tubing/wakeboarding | $0.0 \%$ |
| Canoeing/kayaking/paddle | $0.0 \%$ |
| boarding | $0.0 \%$ |
| Golf | $27.8 \%$ |
| Other |  |
| Other Text: Climbing, biking, hunting (shooting),nude |  |
| beach, visitor counter/museum, geocaching, information, |  |
| dog exercise |  |

Table B.3.6 Huntzinger Road Boat Launch, $\mathbf{N}=\mathbf{9}$

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Fishing | $66.7 \%$ |
| Resting/relaxing | $44.4 \%$ |
| Boating | $33.3 \%$ |
| Wildlife Viewing | $22.2 \%$ |
| Swimming/visiting the beach | $11.1 \%$ |
| Photography | $11.1 \%$ |
| Visiting a dam | $11.1 \%$ |
| Riding jet skis/wave runners | $0.0 \%$ |
| Picnicking | $0.0 \%$ |
| Attending a concert | $0.0 \%$ |
| Camping | $0.0 \%$ |
| Waterskiing/tubing/wakeboarding | $0.0 \%$ |
| Hiking | $0.0 \%$ |
| Canoeing/kayaking/paddle | $0.0 \%$ |
| boarding | $0.0 \%$ |
| Golf | $11.1 \%$ |
| Other |  |

Table B.3.7 Huntzinger Road Fishing Access Site

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Resting/relaxing | $66.70 \%$ |
| Fishing | $66.70 \%$ |
| Boating | $33.30 \%$ |
| Swimming/visiting the beach | $0.00 \%$ |
| Riding jet skis/wave runners | $0.00 \%$ |
| Photography | $0.00 \%$ |
| Wildlife Viewing | $0.00 \%$ |
| Picnicking | $0.00 \%$ |
| Attending a concert | $0.00 \%$ |
| Visiting a dam | $0.00 \%$ |
| Camping | $0.00 \%$ |
| Waterskiing/tubing/wakeboarding | $0.00 \%$ |
| Hiking | $0.00 \%$ |
| Canoeing/kayaking/paddle | $0.00 \%$ |
| boarding | $0.00 \%$ |
| Golf | $0.00 \%$ |

Table B.3.8 Jackson Creek Fish Camp

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Fishing | $80 \%$ |
| Swimming/visiting the beach | $20 \%$ |
| Resting/relaxing | $20 \%$ |
| Boating | $0 \%$ |
| Riding jet skis/wave runners | $0 \%$ |
| Photography | $0 \%$ |
| Wildlife Viewing | $0 \%$ |
| Picnicking | $0 \%$ |
| Attending a concert | $0 \%$ |
| Visiting a dam | $0 \%$ |
| Camping | $0 \%$ |
| Waterskiing/tubing/wakeboarding | $0 \%$ |
| Hiking | $0 \%$ |
| Canoeing/kayaking/paddle | $0 \%$ |
| boarding | $0 \%$ |
| Golf | $0 \%$ |
| Other |  |

Table B.3.9 PRRA

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Boating | $56.3 \%$ |
| Resting/relaxing | $55.6 \%$ |
| Swimming/visiting the beach | $42.2 \%$ |
| Waterskiing/tubing/wakeboarding | $30.2 \%$ |
| Golf | $25.4 \%$ |
| Picnicking | $20.6 \%$ |
| Fishing | $20.6 \%$ |
| Wildlife Viewing | $20.3 \%$ |
| Camping | $19.0 \%$ |
| Photography | $15.6 \%$ |
| Canoeing/kayaking/paddle | $14.3 \%$ |
| boarding | $12.5 \%$ |
| Riding jet skis/wave runners | $11.1 \%$ |
| Hiking | $6.3 \%$ |
| Visiting a dam | $3.2 \%$ |
| Attending a concert | $14.3 \%$ |
| Other |  |
| Other Text: Dog walk, yoga, walking, walking the trail, |  |
| bike riding, , ogging |  |

Table B.3.10 Quilomene Dune \& Bay

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Boating | $96.4 \%$ |
| Swimming/visiting the beach | $92.8 \%$ |
| Resting/relaxing | $82.0 \%$ |
| Waterskiing/tubing/wakeboarding | $66.4 \%$ |
| Wildlife Viewing | $34.2 \%$ |
| Picnicking | $33.3 \%$ |
| Riding jet skis/wave runners | $27.0 \%$ |
| Photography | $21.6 \%$ |
| Camping | $19.1 \%$ |
| Golf | $19.1 \%$ |
| Fishing | $15.3 \%$ |
| Canoeing/kayaking/paddle boarding | $10.9 \%$ |
| Attending a concert | $9.0 \%$ |
| Hiking | $8.2 \%$ |
| Visiting a dam | $3.6 \%$ |
| Other | $5.5 \%$ |
| Other Text: Sandbar, refreshments, drinking, surfing, sand |  |
| castles, wake surfing |  |

Table B.3.11 Rattlesnake Cove

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Swimming/visiting the beach | $100.0 \%$ |
| Resting/relaxing | $54.5 \%$ |
| Attending a concert | $54.5 \%$ |
| Wildlife Viewing | $36.4 \%$ |
| Camping | $36.4 \%$ |
| Picnicking | $18.2 \%$ |
| Boating | $9.1 \%$ |
| Riding jet skis/wave runners | $9.1 \%$ |
| Photography | $9.1 \%$ |
| Fishing | $9.1 \%$ |
| Waterskiing/tubing/wakeboarding | $9.1 \%$ |
| Hiking | $9.1 \%$ |
| Canoeing/kayaking/paddle boarding | $9.1 \%$ |
| Other | $9.1 \%$ |
| Visiting a dam | $0.0 \%$ |
| Golf | $0.0 \%$ |
| Other Text: Home in Quincy |  |

Table B.3.12 Riverstone Resort

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Resting/relaxing | $91.7 \%$ |
| Swimming/visiting the beach | $83.3 \%$ |
| Picnicking | $41.7 \%$ |
| Photography | $25.0 \%$ |
| Wildlife Viewing | $25.0 \%$ |
| Camping | $25.0 \%$ |
| Attending a concert | $16.7 \%$ |
| Hiking | $16.7 \%$ |
| Boating | $8.3 \%$ |
| Riding jet skis/wave runners | $8.3 \%$ |
| Fishing | $8.3 \%$ |
| Visiting a dam | $0.0 \%$ |
| Waterskiing/tubing/wakeboarding | $0.0 \%$ |
| Canoeing/kayaking/paddle boarding | $0.0 \%$ |
| Golf | $0.0 \%$ |
| Other | $8.3 \%$ |
| Other Text: Off road driving |  |

Table B.3.13 Rocky Coulee

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Resting/relaxing | $58.5 \%$ |
| Swimming/visiting the beach | $53.7 \%$ |
| Wildlife Viewing | $41.5 \%$ |
| Hiking | $31.7 \%$ |
| Photography | $29.3 \%$ |
| Picnicking | $29.3 \%$ |
| Camping | $24.4 \%$ |
| Fishing | $9.8 \%$ |
| Canoeing/kayaking/paddle boarding | $9.8 \%$ |
| Riding jet skis/wave runners | $7.3 \%$ |
| Boating | $4.9 \%$ |
| Attending a concert | $4.9 \%$ |
| Waterskiing/tubing/wakeboarding | $4.9 \%$ |
| Visiting a dam | $2.4 \%$ |
| Golf | $2.4 \%$ |
| Other | $20.0 \%$ |
| Other Text: Fun, visiting the wind horse wind farm, |  |
| petroglyphs/gem, rock store, dogs, climbing, dog in water, |  |
| balls, Silver wood |  |

Table B.3.14 Sand Hollow

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Resting/relaxing | $75.0 \%$ |
| Swimming/visiting the beach | $69.4 \%$ |
| Camping | $52.8 \%$ |
| Picnicking | $36.1 \%$ |
| Attending a concert | $27.8 \%$ |
| Photography | $22.2 \%$ |
| Wildlife Viewing | $19.4 \%$ |
| Hiking | $13.9 \%$ |
| Boating | $11.1 \%$ |
| Riding jet skis/wave runners | $5.6 \%$ |
| Fishing | $5.6 \%$ |
| Visiting a dam | $5.6 \%$ |
| Waterskiing/tubing/wakeboarding | $5.6 \%$ |
| Golf | $5.6 \%$ |
| Canoeing/kayaking/paddle boarding | $0.0 \%$ |
| Other | $11.1 \%$ |
| Other Text: Restroom, Mecca, visiting my father's ashes |  |

Table B.3.15 Sunland Boat Launch

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Boating | $83.3 \%$ |
| Swimming/visiting the beach | $70.8 \%$ |
| Resting/relaxing | $62.5 \%$ |
| Waterskiing/tubing/wakeboarding | $41.7 \%$ |
| Wildlife Viewing | $33.3 \%$ |
| Riding jet skis/wave runners | $29.2 \%$ |
| Picnicking | $25.0 \%$ |
| Attending a concert | $16.7 \%$ |
| Fishing | $12.5 \%$ |
| Camping | $12.5 \%$ |
| Canoeing/kayaking/paddle boarding | $12.5 \%$ |
| Golf | $12.5 \%$ |
| Photography | $8.3 \%$ |
| Hiking | $8.3 \%$ |
| Visiting a dam | $4.2 \%$ |
| Other | $0.0 \%$ |

Table B.3.16 Sunland Picnic Area

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Swimming/visiting the beach | $100.0 \%$ |
| Resting/relaxing | $50.0 \%$ |
| Picnicking | $37.5 \%$ |
| Golf | $37.5 \%$ |
| Wildlife Viewing | $25.0 \%$ |
| Attending a concert | $25.0 \%$ |
| Photography | $12.5 \%$ |
| Visiting a dam | $12.5 \%$ |
| Camping | $12.5 \%$ |
| Hiking | $12.5 \%$ |
| Boating | $0.0 \%$ |
| Riding jet skis/wave runners | $0.0 \%$ |
| Fishing | $0.0 \%$ |
| Waterskiing/tubing/wakeboarding | $0.0 \%$ |
| Canoeing/kayaking/paddle boarding | $0.0 \%$ |
| Other | $12.5 \%$ |
| Other Text: Throwing ball for dog |  |

Table B.3.17 The Cove

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Resting/relaxing | $66.7 \%$ |
| Swimming/visiting the beach | $33.3 \%$ |
| Wildlife Viewing | $33.3 \%$ |
| Picnicking | $33.3 \%$ |
| Hiking | $33.3 \%$ |
| Photography | $16.7 \%$ |
| Visiting a dam | $16.7 \%$ |
| Boating | $0 \%$ |
| Riding jet skis/wave runners | $0 \%$ |
| Attending a concert | $0 \%$ |
| Fishing | $0 \%$ |
| Camping | $0 \%$ |
| Waterskiing/tubing/wakeboarding | $0 \%$ |
| Canoeing/kayaking/paddle boarding | $0 \%$ |
| Golf | $0 \%$ |
| Other | $16.7 \%$ |
| Other Text: Dog walking, bike riding |  |

Table B.3.18 Vantage Boat Launch

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Resting/relaxing | $54.7 \%$ |
| Swimming/visiting the beach | $50.7 \%$ |
| Boating | $36.0 \%$ |
| Picnicking | $22.7 \%$ |
| Photography | $17.3 \%$ |
| Waterskiing/tubing/wakeboarding | $17.3 \%$ |
| Wildlife Viewing | $14.7 \%$ |
| Camping | $9.3 \%$ |
| Fishing | $8.0 \%$ |
| Hiking | $6.7 \%$ |
| Riding jet skis/wave runners | $5.3 \%$ |
| Visiting a dam | $4.0 \%$ |
| Attending a concert | $1.3 \%$ |
| Canoeing/kayaking/paddle boarding | $1.3 \%$ |
| Golf | $0.0 \%$ |
| Other | $16.0 \%$ |
| Other Text: Restroom, on our way to Seattle, driving |  |
| through, walking dog, personal, moving daughter to new |  |
| home-Pullman/WSU student, Baseball tournament in Moses |  |
| Lake, chasing ducks (kids), rock collecting, dog swim, |  |
| letting dog pee |  |

Table B.3.19 Wanapum Dam Lower Boat Launch

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Fishing | $83.3 \%$ |
| Resting/relaxing | $20.8 \%$ |
| Wildlife Viewing | $16.7 \%$ |
| Photography | $12.5 \%$ |
| Swimming/visiting the beach | $8.3 \%$ |
| Boating | $8.3 \%$ |
| Picnicking | $4.2 \%$ |
| Visiting a dam | $4.2 \%$ |
| Hiking | $4.2 \%$ |
| Riding jet skis/wave runners | $0.0 \%$ |
| Attending a concert | $0.0 \%$ |
| Camping | $0.0 \%$ |
| Waterskiing/tubing/wakeboarding | $0.0 \%$ |
| Canoeing/kayaking/paddle boarding | $0.0 \%$ |
| Golf | $0.0 \%$ |
| Other | $0.0 \%$ |

Table B.3.20 Wanapum Dam Overlook

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Resting/relaxing | $61.1 \%$ |
| Photography | $33.3 \%$ |
| Visiting a dam | $27.8 \%$ |
| Wildlife Viewing | $22.2 \%$ |
| Picnicking | $22.2 \%$ |
| Camping | $16.7 \%$ |
| Hiking | $11.1 \%$ |
| Swimming/visiting the beach | $5.6 \%$ |
| Boating | $5.6 \%$ |
| Riding jet skis/wave runners | $5.6 \%$ |
| Attending a concert | $5.6 \%$ |
| Waterskiing/tubing/wakeboarding | $5.6 \%$ |
| Fishing | $0.0 \%$ |
| Canoeing/kayaking/paddle boarding | $0.0 \%$ |
| Golf | $0.0 \%$ |
| Other | $52.9 \%$ |
| Other Text: Just driving through, work, mountain biking, |  |
| vacation, restroom, softball tournament, visiting friends, |  |
| driving, going to pee |  |

Table B.3.21 Wanapum Dam Upper Boat Launch

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Boating | $57.1 \%$ |
| Resting/relaxing | $42.9 \%$ |
| Swimming/visiting the beach | $28.6 \%$ |
| Fishing | $28.6 \%$ |
| Photography | $14.3 \%$ |
| Wildlife Viewing | $14.3 \%$ |
| Picnicking | $14.3 \%$ |
| Hiking | $14.3 \%$ |
| Riding jet skis/wave runners | $0.0 \%$ |
| Attending a concert | $0.0 \%$ |
| Visiting a dam | $0.0 \%$ |
| Camping | $0.0 \%$ |
| Waterskiing/tubing/wakeboarding | $0.0 \%$ |
| Canoeing/kayaking/paddle boarding | $0.0 \%$ |
| Golf | $0.0 \%$ |
| Other | $14.3 \%$ |
| Other Text: Checking area , doing boat repairs before |  |
| bringing family |  |

Table B.3.22 Wanapum Recreation Area (WSP)

|  | Yes (\% of sample) |
| :--- | :---: |
| Swimming/visiting the beach | $82.5 \%$ |
| Resting/relaxing | $57.9 \%$ |
| Camping | $42.1 \%$ |
| Picnicking | $38.6 \%$ |
| Boating | $36.8 \%$ |
| Waterskiing/tubing/wakeboarding | $28.1 \%$ |
| Photography | $17.5 \%$ |
| Attending a concert | $17.5 \%$ |
| Riding jet skis/wave runners | $14.0 \%$ |
| Hiking | $14.0 \%$ |
| Wildlife Viewing | $10.5 \%$ |
| Fishing | $8.8 \%$ |
| Canoeing/kayaking/paddle boarding | $3.5 \%$ |
| Visiting a dam | $0.0 \%$ |
| Golf | $0.0 \%$ |
| Other | $3.5 \%$ |
| Other Text: Church event, cycling |  |

Table B.3.23 Wanapum Turbine Park

|  | Indicated Yes <br> (\% of sample) |
| :--- | :---: |
| Resting/relaxing | $50.0 \%$ |
| Wildlife Viewing | $37.5 \%$ |
| Picnicking | $25.0 \%$ |
| Visiting a dam | $25.0 \%$ |
| Hiking | $25.0 \%$ |
| Swimming/visiting the beach | $12.5 \%$ |
| Boating | $12.5 \%$ |
| Fishing | $12.5 \%$ |
| Camping | $12.5 \%$ |
| Canoeing/kayaking/paddle boarding | $12.5 \%$ |
| Riding jet skis/wave runners | $0.0 \%$ |
| Photography | $0.0 \%$ |
| Attending a concert | $0.0 \%$ |
| Waterskiing/tubing/wakeboarding | $0.0 \%$ |
| Golf | $0.0 \%$ |
| Other | $37.5 \%$ |
| Other Text: Pit stop on road trip, cross state travel, | visiting |
| relatives. |  |

## Q7

Site-level responses to the questions
"How much time will you spend on your current trip?"

Table B. 7 Time spent in hours on current trip

|  | $<1 \mathrm{hr}$ | $1-4 \mathrm{hrs}$ | $5-8 \mathrm{hrs}$ | $>8 \mathrm{hrs}$ | Median | Mean | N |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Buckshot Recreation Area | $0.0 \%$ | $0.0 \%$ | $100.0 \%$ | $0.0 \%$ | 5.0 | 5.0 | 1 |
| Burkett Lake Recreation Area | $0.0 \%$ | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ | 2.0 | 2.3 | 3 |
| CBRA | $0.0 \%$ | $61.4 \%$ | $36.4 \%$ | $2.3 \%$ | 4.0 | 4.3 | 44 |
| Frenchman Coulee Recreation Area | $0.0 \%$ | $84.6 \%$ | $15.4 \%$ | $0.0 \%$ | 3.0 | 3.0 | 26 |
| Huntzinger Road Boat Launch | $0.0 \%$ | $60.0 \%$ | $40.0 \%$ | $0.0 \%$ | 4.0 | 4.2 | 5 |
| Huntzinger Road Fishing Access |  |  |  |  | 6.0 | 6.7 | 3 |
| Site | $0.0 \%$ | $0.0 \%$ | $100 \%$ | $0.0 \%$ |  |  |  |
| Jackson Creek Fish Camp | $0.0 \%$ | $70.8 \%$ | $29.2 \%$ | $0.0 \%$ | 5.0 | 5.0 | 2 |
| PRRA | $0.0 \%$ | $24.4 \%$ | $65.9 \%$ | $9.8 \%$ | 3.0 | 3.2 | 24 |
| Quilomene Dune \& Bay | $0.0 \%$ | $100 \%$ | $0.0 \%$ | $0.0 \%$ | 6.0 | 6.3 | 41 |
| Rattlesnake Cove | $0.0 \%$ | $85.7 \%$ | $14.3 \%$ | $0.0 \%$ | 3.0 | 3.0 | 5 |
| Riverstone Resort | $4.0 \%$ | $88.0 \%$ | $4.0 \%$ | $4.0 \%$ | 1.0 | 2.4 | 7 |
| Rocky Coulee | $11.8 \%$ | $88.2 \%$ | $0.0 \%$ | $0.0 \%$ | 2.0 | 2.5 | 25 |
| Sand Hollow | $0.0 \%$ | $28.6 \%$ | $71.4 \%$ | $0.0 \%$ | 1.0 | 1.9 | 17 |
| Sunland Boat Launch | $0.0 \%$ | $100 \%$ | $0.0 \%$ | $0.0 \%$ | 7.0 | 5.6 | 7 |
| Sunland Picnic Area | $0.0 \%$ | $75.0 \%$ | $25.0 \%$ | $0.0 \%$ | 3.5 | 3.0 | 4 |
| The Cove | $11.9 \%$ | $52.5 \%$ | $32.2 \%$ | $3.4 \%$ | 3.0 | 3.3 | 4 |
| Vantage Boat Launch | $0.0 \%$ | $50.0 \%$ | $37.5 \%$ | $12.5 \%$ | 4.0 | 3.7 | 59 |
| Wanapum Dam Lower Boat |  |  |  |  | 4.5 | 5.3 | 16 |
| Launch | $20.0 \%$ | $60.0 \%$ | $20.0 \%$ | $0.0 \%$ |  |  |  |
| Wanapum Dam Overlook | $14.3 \%$ | $57.1 \%$ | $28.6 \%$ | $0.0 \%$ | 1.5 | 2.1 | 10 |
| Wanapum Dam Upper Boat |  |  |  |  | 4.0 | 3.6 | 7 |
| Launch | $0.0 \%$ | $25.9 \%$ | $59.3 \%$ | $14.8 \%$ |  |  |  |
| Wanapum Recreation Area (WSP) | $40.0 \%$ | $40.0 \%$ | $20.0 \%$ | $0.0 \%$ | 6.0 | 6.4 | 27 |
| Wanapum Turbine Park | $0.0 \%$ | $33.3 \%$ | $33.3 \%$ | $33.3 \%$ | 1.0 | 1.7 | 5 |
| Total | $4.4 \%$ | $57.9 \%$ | $33.3 \%$ | $4.4 \%$ | 4.0 | 4.1 | 342 |

Table B.7.a Time spent in days on current trip

|  | 1-2 days | 3-4 days | 5-7 days | >1 week | Median | Mean | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Beverly Sand Dunes ORV Park | 60\% | 40\% | 0\% | 0\% | 2.0 | 2.0 | 5 |
| Buckshot Recreation Area | 50\% | 0\% | 50\% | 0\% | 3.5 | 3.5 | 2 |
| CBRA | 14\% | 47\% | 27\% | 11\% | 4 | 5.3 | 133 |
| Frenchman Coulee Recreation Area | 75\% | 17\% | 0\% | 8\% | 2.0 | 2.6 | 12 |
| Huntzinger Road Boat Launch | 100\% | 0\% | 0\% | 0\% | 2.0 | 2.0 | 1 |
| Huntzinger Road Fishing Access Site | 100\% | 0\% | 0\% | 0\% | 1.0 | 1.0 | 1 |
| Jackson Creek Fish Camp | 0\% | 0\% | 33\% | 67\% | 14.0 | 11.7 | 3 |
| PRRA | 22\% | 51\% | 14\% | 14\% | 3.0 | 17.9 | 37 |
| Quilomene Dune \& Bay | 19\% | 36\% | 27\% | 18\% | 4.0 | 5.7 | 67 |
| Rattlesnake Cove | 83\% | 17\% | 0\% | 0\% | 2.0 | 2.2 | 6 |
| Riverstone Resort | 67\% | 17\% | 17\% | 0\% | 2.0 | 2.5 | 6 |
| Rocky Coulee | 50\% | 36\% | 7\% | 7\% | 2.5 | 4.6 | 14 |
| Sand Hollow | 22\% | 56\% | 22\% | 0\% | 3.1 | 3.5 | 18 |
| Sunland Boat Launch | 29\% | 21\% | 29\% | 21\% | 4.0 | 16.7 | 14 |
| Sunland Picnic Area | 0\% | 100\% | 0\% | 0\% | 3.0 | 3.0 | 3 |
| The Cove | 50\% | 50\% | 0\% | 0\% | 3.0 | 3.0 | 2 |
| Vantage Boat Launch | 24\% | 24\% | 24\% | 29\% | 5.0 | 9.9 | 17 |
| Wanapum Dam Lower Boat Launch | 44\% | 33\% | 11\% | 11\% | 3.0 | 3.7 | 9 |
| Wanapum Dam Overlook | 38\% | 50\% | 0\% | 13\% | 3.0 | 17.5 | 8 |
| Wanapum Dam Upper Boat Launch | 100\% | 0\% | 0\% | 0\% | 1.0 | 1.0 | 1 |
| Wanapum Recreation Area (WSP) | 45\% | 45\% | 10\% | 0\% | 3.0 | 2.9 | 31 |
| Wanapum Turbine Park | 0\% | 50\% | 50\% | 0\% | 4.5 | 4.5 | 2 |
| Total | 27\% | 41\% | 20\% | 12\% | 3.0 | 6.8 | 392 |

Q8 Site-level responses to the questions
"If your current trip extends into two or more days, what type of overnight accommodations did you use on your trip?"

Table B.8.1 Beverly Sand Dunes ORV Park

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $100 \%$ |
| Location: Beverly ORV Park, campground |  |
| Rented cabin/condo/home/motel/hotel | $0 \%$ |
| Your own home/property | $0 \%$ |
| Other (Please specify): | $0 \%$ |

Table B.8.2 Buckshot Recreation Area

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $0 \%$ |
| Rented cabin/condo/home/motel/hotel | $0 \%$ |
| Your own home/property | $0 \%$ |
| Other (Please specify): | $100 \%$ |

Other Text: Daily visited this place for 2 or 3 months

Table B.8.3 Burkett Lake Recreation Area

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $100 \%$ |
| Location: Beverly dunes |  |
| Rented cabin/condo/home/motel/hotel | $0 \%$ |
| Your own home/property | $0 \%$ |
| Other (Please specify): | $0 \%$ |

## Table B.8.4 CBRA

|  | Ye |
| :---: | :---: |
| Campground (RV or tent) | 47.6\% |
| Location: Crescent Bar Campground, Quincy Lakes, CB off Island, 1000 trails, tent CB campground, Watershed/ The Gorge, Quincy/ Knights Inn, Wild house, Gorge Amphitheatre, Quilomene Dune, On the water, Resort RV camping Crescent Bar, KOA, tent at the campground |  |
| Rented cabin/condo/home/motel/hotel | 19.9\% |
| Location: Crescent Bar Resort, Watershed/ Gorge, Quincy, Home, Sunserra, UC Crescent Resort, The Suites at Crescent Bar, CB resort, Crescent Bar Condos, On Island Condo, White condos |  |
| Your own home/property | 32.2\% |
| Other (Please specify): | 5.5\% |
| Other Text: Live about a 1 mile away, Beach Pay, House, Friends property, Hotel |  |

Table B.8.5 Frenchman Coulee Recreation Area

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $50 \%$ |
| Location: Frenchman Coulee (WDFW), Crescent bar, Gorge |  |
| Rented cabin/condo/home/motel/hotel |  |
| Location: Moses Lake, Vantage Riverstone resort | $12.5 \%$ |
| Your own home/property |  |
| Other (Please specify): | $25.0 \%$ |
| Other Text: Family | $18.8 \%$ |

Table B.8.6 Huntzinger Road Boat Launch

| Campground (RV or tent) | Yes |
| :--- | ---: |
| Rented cabin/condo/home/motel/hotel | $0 \%$ |
| Location: Grand Coulee | $33.3 \%$ |
| Your own home/property |  |
| Other (Please specify): | $66.7 \%$ |

Table B.8.7 Huntzinger Road Fishing Access Site

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $0.0 \%$ |
| Location: | $0.0 \%$ |
| Rented cabin/condo/home/motel/hotel | $100.0 \%$ |
| Location: | $0.0 \%$ |
| Your own home/property |  |

Table B.8.8 Jackson Creek Fish Camp

| Campground (RV or tent) | Yes |
| :--- | ---: |
| Location: Multiple, House, tent | $100 \%$ |
| Rented cabin/condo/home/motel/hotel | $0 \%$ |
| Your own home/property | $0 \%$ |
| Other (Please specify): | $0 \%$ |

Table B.8.9 PRRA

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | 27.5\% |
| Location: Site10, ll PRRA, Priest rapids, Motorhome (PRRA <br> campground),  | $5.9 \%$ |
| Rented cabin/condo/home/motel/hotel |  |
| Location: Beach drive, Orchard dr. near dam | $56.9 \%$ |
| Your own home/property | $13.7 \%$ |
| Other (Please specify): Other Text: Staying at a church, Staying with friends, brother <br> lives here  |  |

Table B.8.10 Quilomene Dune \& Bay

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $20.5 \%$ |
| Location: Crescent Bar, Crescent Bar Resort RV Park, |  |
| Watches, Ellensburg Boat club, Tent Sunland, Quilomene, |  |
| Vantage, Wanapum state park | $30.7 \%$ |
| Rented cabin/condo/home/motel/hotel |  |
| Location: Condo/ VRBO, Crescent | Bar, Sunland, Crescent |
| Condos, Ellensburg |  |
| Your own home/property | $46.6 \%$ |
| Other (Please specify): | $4.7 \%$ |
| Other Text: We do both campground \& rentals, We rent a lot |  |
| in the trailer park \& put our RV on it, Boat, staying with family |  |

Table B.8.11 Rattlesnake Cove, $\mathbf{N}=11$

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $45.5 \%$ |
| Location: Gorge Campground, Wildhorse Campground |  |
| Rented cabin/condo/home/motel/hotel | $9.1 \%$ |
| Location: | $36.4 \%$ |
| Your own home/property | $9.1 \%$ |
| Other (Please specify): |  |

Table B.8.12 Riverstone Resort

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $55.6 \%$ |
| Location: Gorge, Riverstone, Vantage Riverstone, | Clean |
| Lake |  |
| Rented cabin/condo/home/motel/hotel | $44.4 \%$ |
| Location: Riverstone Resort, Riverside Hotel |  |
| Your own home/property | $0 \%$ |
| Other (Please specify): | $11.1 \%$ |

Table B.8.13 Rocky Coulee

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $57.1 \%$ |
| Location: Rocky Coulee, Puyallup, Wanapum State Park, |  |
| Rivers edge, Gorge Amphitheatre |  |
| Rented cabin/condo/home/motel/hotel | $23.8 \%$ |
| Location: Super 8, Spokane, Cover d'alene, Ellensburg, |  |
| Econo lodge at Ellensburg, Sun Lakes |  |
| Your own home/property | $14.3 \%$ |
| Other (Please specify): | $9.5 \%$ |
| Other Text: Truck, next time tent |  |

Table B.8.14 Sand Hollow

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $80.8 \%$ |
| Location: Sand Hollow Campground, Ellensburg | $7.7 \%$ |
| Rented cabin/condo/home/motel/hotel |  |
| Location: Pasco, Lake Chelan | $7.7 \%$ |
| Your own home/property | $3.8 \%$ |
| Other (Please specify): |  |

Table B.8.15 Sunland Boat Launch

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $9.5 \%$ |
| Location: Gorge | $4.8 \%$ |
| Rented cabin/condo/home/motel/hotel | $90.5 \%$ |
| Location: | $9.5 \%$ |
| Your own home/property |  |
| Other (Please specify): |  |

Table B.8.16 Sunland Picnic Area

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $0 \%$ |
| Location: | $33.3 \%$ |
| Rented cabin/condo/home/motel/hotel | $66.7 \%$ |
| Location: Sunland | $16.7 \%$ |
| Your own home/property |  |
| Other (Please specify): |  |

## Table B.8. 17 The Cove

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $0 \%$ |
| Location: | $50 \%$ |
| Rented cabin/condo/home/motel/hotel |  |
| Location: Moses Lake | $50 \%$ |
| Your own home/property | $0 \%$ |

Table B.8.18 Vantage Boat Launch

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $40 \%$ |
| Location: Silverwood, Vantage, Toward Sunland, Lake |  |
| Tahoe, Walowe Lake, Yellowstone NP, Grand Teton |  |
| National forest campground, Campel |  |
| Rented cabin/condo/home/motel/hotel | $36.7 \%$ |
| Location: Spokane Seattle, Vantage, Moses Lake, |  |
| Ritzberg, Spokane, Pasco |  |
| Your own home/property | $20 \%$ |
| Other (Please specify): |  |
| Other Text: On boat, Van, Visiting relative |  |

Table B.8.19 Wanapum Dam Lower Boat Launch

|  | Yes |
| :--- | :---: |
| Campground (RV or tent) | $10 \%$ |
| Location: Sand Hollow | $10 \%$ |
| Rented cabin/condo/home/motel/hotel | $50 \%$ |
| Location: | $30 \%$ |
| Your own home/property |  |
| Other (Please specify): |  |
| Other Text: Rest area, My friend's house, Live in |  |

Table B.8.20 Wanapum Dam Overlook

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $30 \%$ |
| Location: Wanapum State Park, Lake Easton  <br> Rented cabin/condo/home/motel/hotel $30 \%$ <br> Location: Ellensburg, Port Townsend, Yakima  <br> Your own home/property $10 \%$ <br> Other (Please specify): $40 \%$ <br> Other Text: Just driving through, Hotel, sleep outside,  <br> friends   |  |

Table B.8.21 Wanapum Dam Upper Boat Launch

| Campground (RV or tent) | Yes |
| :--- | ---: |
| Location: | $100 \%$ |
| Rented cabin/condo/home/motel/hotel | $0 \%$ |
| Location: |  |
| Your own home/property | $0 \%$ |
| Other (Please specify): | $0 \%$ |

Table B.8.22 Wanapum Recreation Area (WSP)

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $89.2 \%$ |
| Location: Wanapum State Park, Wildhorse, Gorge, |  |
| Silverwood Campground,Lake Chelan Vantage, |  |
| Rented cabin/condo/home/motel/hotel | $10.8 \%$ |
| Location: Spokane, Ritzville, WA, Moses Lake |  |
| Your own home/property | $0 \%$ |
| Other (Please specify): | $5.4 \%$ |
| Other Text: Family |  |

Table B.8.23 Wanapum Turbine Park

|  | Yes |
| :--- | ---: |
| Campground (RV or tent) | $20 \%$ |
| Location: Jackson Creek Fish Camp |  |
| Rented cabin/condo/home/motel/hotel | $20 \%$ |
| Location: Walla Walla | $40 \%$ |
| Your own home/property | $20 \%$ |
| Other (Please specify): |  |

## Q. 9 Site-level responses to the question

"Did any of the following conditions adversely affect your trip?"
Table B.9.1 Beverly Sand Dunes ORV Park

|  | Yes |
| :--- | :---: |
| Strong winds | $0 \%$ |
| Lack of shade from the sun | $100 \%$ |
| Low water levels | $0 \%$ |
| Lack of shelter from the weather | $0 \%$ |
| Lack of ADA accessibility | $0 \%$ |

Table B.9.2 Buckshot Recreation Area

|  | Yes |
| :--- | :---: |
| Strong winds | $0 \%$ |
| Lack of shade from the sun | $100 \%$ |
| Low water levels | $0 \%$ |
| Lack of shelter from the weather | $0 \%$ |
| Lack of ADA accessibility | $0 \%$ |

Table B.9.3 Burkett Lake Recreation Area

|  | Yes |
| :--- | :---: |
| Strong winds | $0 \%$ |
| Lack of shade from the sun | $100 \%$ |
| Low water levels | $0 \%$ |
| Lack of shelter from the weather | $0 \%$ |
| Lack of ADA accessibility | $50 \%$ |

Table B.9.4 CBRA

|  | Yes |
| :--- | :---: |
| Strong winds | $37.0 \%$ |
| Lack of shade from the sun | $48.1 \%$ |
| Low water levels | $21.0 \%$ |
| Lack of shelter from the weather | $9.9 \%$ |
| Lack of ADA accessibility | $1.2 \%$ |

Table B.9.5 Frenchman Coulee Recreation Area

|  | Yes |
| :--- | :---: |
| Strong winds | $33.3 \%$ |
| Lack of shade from the sun | $61.1 \%$ |
| Low water levels | $11.1 \%$ |
| Lack of shelter from the weather | $0.0 \%$ |
| Lack of ADA accessibility | $5.6 \%$ |

Table B.9.6 Huntzinger Road Boat Launch

|  | Yes |
| :--- | :---: |
| Strong winds | $50.0 \%$ |
| Lack of shade from the sun | $50.0 \%$ |
| Low water levels | $0.0 \%$ |
| Lack of shelter from the weather | $0.0 \%$ |
| Lack of ADA accessibility | $0.0 \%$ |

Table B.9.7 Jackson Creek Fish Camp

|  | Yes |
| :--- | :---: |
| Strong winds | $0.0 \%$ |
| Lack of shade from the sun | $100 \%$ |
| Low water levels | $0.0 \%$ |
| Lack of shelter from the weather | $0.0 \%$ |
| Lack of ADA accessibility | $0.0 \%$ |

Table B.9.8 PRRA

|  | Yes |
| :--- | :---: |
| Strong winds | $86.1 \%$ |
| Lack of shade from the sun | $19.4 \%$ |
| Low water levels | $5.6 \%$ |
| Lack of shelter from the weather | $5.6 \%$ |
| Lack of ADA accessibility | $2.8 \%$ |

Table B.9.9 Quilomene Dune \& Bay

|  | Yes |
| :--- | :---: |
| Strong winds | $59.6 \%$ |
| Lack of shade from the sun | $31.9 \%$ |
| Low water levels | $25.5 \%$ |
| Lack of shelter from the weather | $4.3 \%$ |
| Lack of ADA accessibility | $2.2 \%$ |

Table B.9.10 Rattlesnake Cove

|  | Yes |
| :--- | :---: |
| Strong winds | $25.0 \%$ |
| Lack of shade from the sun | $50.0 \%$ |
| Low water levels | $25.0 \%$ |
| Lack of shelter from the weather | $0.0 \%$ |
| Lack of ADA accessibility | $0.0 \%$ |

Table B.9.11 Riverstone Resort

|  | Yes |
| :--- | :---: |
| Strong winds | $66.7 \%$ |
| Lack of shade from the sun | $33.3 \%$ |
| Low water levels | $33.3 \%$ |
| Lack of shelter from the weather | $33.3 \%$ |
| Lack of ADA accessibility | $0.0 \%$ |

Table B.9.12 Rocky Coulee

|  | Yes |
| :--- | :---: |
| Strong winds | $66.7 \%$ |
| Lack of shade from the sun | $37.5 \%$ |
| Low water levels | $8.3 \%$ |
| Lack of shelter from the weather | $8.3 \%$ |
| Lack of ADA accessibility | $0.0 \%$ |

Table B.9.13 Sand Hollow

|  | Yes |
| :--- | :---: |
| Strong winds | $42.9 \%$ |
| Lack of shade from the sun | $64.3 \%$ |
| Low water levels | $21.4 \%$ |
| Lack of shelter from the weather | $21.4 \%$ |
| Lack of ADA accessibility | $3.6 \%$ |

Table B.9.14 Sunland Boat Launch

|  | Yes |
| :--- | :---: |
| Strong winds | $69.2 \%$ |
| Lack of shade from the sun | $15.4 \%$ |
| Low water levels | $30.8 \%$ |
| Lack of shelter from the weather | $7.7 \%$ |
| Lack of ADA accessibility | $7.7 \%$ |

Table B.9.15 Sunland Picnic Area

|  | Yes |
| :--- | :---: |
| Strong winds | $100 \%$ |
| Lack of shade from the sun | $0.0 \%$ |
| Low water levels | $50.0 \%$ |
| Lack of shelter from the weather | $0.0 \%$ |
| Lack of ADA accessibility | $0.0 \%$ |

Table B.9.16 The Cove

|  | Yes |
| :--- | :---: |
| Strong winds | $100 \%$ |
| Lack of shade from the sun | $0.0 \%$ |
| Low water levels | $0.0 \%$ |
| Lack of shelter from the weather | $0.0 \%$ |
| Lack of ADA accessibility | $0.0 \%$ |

Table B.9.17 Vantage Boat Launch

|  | Yes |
| :--- | :---: |
| Strong winds | $51.6 \%$ |
| Lack of shade from the sun | $54.5 \%$ |
| Low water levels | $6.5 \%$ |
| Lack of shelter from the weather | $6.5 \%$ |
| Lack of ADA accessibility | $0.0 \%$ |

Table B.9.18 Wanapum Dam Lower Boat Launch

| Strong winds | Yes |
| :--- | :---: |
| Lack of shade from the sun | $57.1 \%$ |
| Low water levels | $57.1 \%$ |
| Lack of shelter from the weather | $35.7 \%$ |
| Lack of ADA accessibility | $14.3 \%$ |

Table B.9.19 Wanapum Dam Overlook

|  | Yes |
| :--- | :---: |
| Strong winds | $60.0 \%$ |
| Lack of shade from the sun | $40.0 \%$ |
| Low water levels | $0.0 \%$ |
| Lack of shelter from the weather | $0.0 \%$ |
| Lack of ADA accessibility | $0.0 \%$ |

Table B.9.20 Wanapum Dam Upper Boat Launch

|  | Yes |
| :--- | :---: |
| Strong winds | $83.3 \%$ |
| Lack of shade from the sun | $0.0 \%$ |
| Low water levels | $16.7 \%$ |
| Lack of shelter from the weather | $0.0 \%$ |
| Lack of ADA accessibility | $0.0 \%$ |

Table B.9.21 Wanapum Recreation Area (WSP)

|  | Yes |
| :--- | :---: |
| Strong winds | $84.0 \%$ |
| Lack of shade from the sun | $8.0 \%$ |
| Low water levels | $20.0 \%$ |
| Lack of shelter from the weather | $0.0 \%$ |
| Lack of ADA accessibility | $4.0 \%$ |

Table B.9.22 Wanapum Turbine Park

|  | Yes |
| :--- | :---: |
| Strong winds | $66.7 \%$ |
| Lack of shade from the sun | $33.3 \%$ |
| Low water levels | $0.0 \%$ |
| Lack of shelter from the weather | $0.0 \%$ |
| Lack of ADA accessibility | $0.0 \%$ |

## Q10 Site-level responses to the question

"Grant PUD is interested in your opinion about the level of existing development and management at the reservoirs. Please indicate a response for any of the following facilities you used during your visit."

## Table B.10.1 Beverly Sand Dunes ORV Park

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of picnic or day use areas | 0\% | 0\% | 0\% | 0\% | 80\% | 0\% | 20\% | 0\% | 0\% | 5.4 | 0.9 | 0.0\% | 5 |
| Quality of picnic or day use areas | 0\% | 0\% | 0\% | 0\% | 80\% | 20\% | 0\% | 0\% | 0\% | 5.2 | 0.4 | 0.0\% | 5 |
| Level of public recreation development | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0 | 0.0\% | 4 |
| Number of restrooms/toilets | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0.0 | 0.0\% | 4 |
| Amount of shoreline available for use | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0.0 | 50.0\% | 4 |
| Number of boat launches | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 75.0\% | 4 |
| Quality of boat launches | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 75.0\% | 4 |
| Number of swim/sunbathing areas | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 75.0\% | 4 |
| Quality of swim/sunbathing areas | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 75.0\% | 4 |
| Number of hiking trails | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 75.0\% | 4 |
| Quality of hiking trails | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 75.0\% | 4 |
| Number of public docks | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 75.0\% | 4 |
| Quality of public docks | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0 | 50.0\% | 4 |
| Number of campsites | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0 | 0.0\% | 5 |
| Quality of campsites | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0 | 0.0\% | 5 |
| Cost to use facilities | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0 | 20.0\% | 5 |
| Quality of on-line campground reservation system | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0 | 50.0\% | 4 |
| Quality of restrooms/toilets | 0\% | 0\% | 0\% | 25\% | 75\% | 0\% | 0\% | 0\% | 0\% | 4.8 | 0.5 | 0.0\% | 4 |

[^5]Table B.10.2 Buckshot Recreation Area

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of swim/sunbathing areas | 0\% | 0\% | 0\% | 0\% | 50\% | 0\% | 0\% | 50\% | 0\% | 6.5 | 2.1 | 0.0\% | 2 |
| Quality of boat launches | 0\% | 0\% | 0\% | 0\% | 50\% | 50\% | 0\% | 0\% | 0\% | 5.5 | 0.7 | 0.0\% | 2 |
| Amount of shoreline available for use | 50\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 50\% | 5.0 | 5.7 | 0.0\% | 2 |
| Number of boat launches | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 0.0\% | 1 |
| Quality of swim/sunbathing areas | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 0.0\% | 1 |
| Number of hiking trails | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 0.0\% | 1 |
| Quality of hiking trails | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 |  | 0.0\% | 1 |
| Number of public docks | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 0.0\% | 1 |
| Quality of public docks | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 0.0\% | 1 |
| Number of campsites | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 0.0\% | 1 |
| Quality of campsites | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 |  | 0.0\% | 1 |
| Cost to use facilities | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 0.0\% | 1 |
| Quality of on-line campground reservation system | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 0.0\% | 1 |
| Level of public recreation development | 50\% | 0\% | 0\% | 0\% | 0\% | 0\% | 50\% | 0\% | 0\% | 4.0 | 4.2 | 0.0\% | 2 |
| Number of restrooms/toilets | 100\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 1.0 | - | 0.0\% | 1 |
| Quality of restrooms/toilets | 100\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 1.0 | - | 0.0\% | 1 |
| Number of picnic or day use areas | 100\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 1.0 | - | 0.0\% | 1 |
| Quality of picnic or day use areas | 100\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 1.0 | - | 0.0\% | 1 |

[^6]Table B.10.3 Burkett Lake Recreation Area

|  | Too High |  |  | About Right |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Level of public recreation development | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0.0 | 0.0\% | 2 |
| Number of restrooms/toilets | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0.0 | 0.0\% | 2 |
| Quality of restrooms/toilets | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0.0 | 0.0\% | 2 |
| Number of picnic or day use areas | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 50.0\% | 2 |
| Quality of picnic or day use areas | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 0.0\% | 1 |
| Amount of shoreline available for use | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0.0 | 0.0\% | 2 |
| Number of boat launches | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0.0 | 0.0\% | 2 |
| Quality of boat launches | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0.0 | 0.0\% | 2 |
| Number of swim/sunbathing areas | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0.0 | 0.0\% | 2 |
| Quality of swim/sunbathing areas | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0.0 | 0.0\% | 2 |
| Number of hiking trails | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 50.0\% | 2 |
| Quality of hiking trails | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 50.0\% | 2 |
| Number of public docks | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 50.0\% | 2 |
| Quality of public docks | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 50.0\% | 2 |
| Number of campsites | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 50.0\% | 2 |
| Quality of campsites | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 50.0\% | 2 |
| Cost to use facilities | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 50.0\% | 2 |
| Quality of on-line campground reservation system | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 50.0\% | 2 |

[^7]
## Table B.10.4 CBRA

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of restrooms/toilets | 0.6\% | 0.6\% | 0.0\% | 0.6\% | 43.3\% | 9.6\% | 10.8\% | 8.3\% | 26.1\% | 6.6 | 1.8 | 6.0\% | 167 |
| Quality of restrooms/toilets | 0.7\% | 0.7\% | 1.4\% | 2.9\% | 43.2\% | 5.0\% | 17.3\% | 6.5\% | 22.3\% | 6.4 | 1.8 | 13.7\% | 61 |
| Number of public docks | 0.0\% | 0.8\% | 2.5\% | 1.7\% | 51.7\% | 5.9\% | 16.9\% | 5.9\% | 14.4\% | 6.1 | 1.6 | 25.3\% | 158 |
| Quality of hiking trails | 0.0\% | 0.0\% | 2.4\% | 8.4\% | 50.6\% | 8.4\% | 8.4\% | 6.0\% | 15.7\% | 5.9 | 1.7 | 44.7\% | 150 |
| Number of hiking trails | 2.2\% | 0.0\% | 3.3\% | 4.4\% | 52.2\% | 7.8\% | 7.8\% | 8.9\% | 13.3\% | 5.8 | 1.8 | 42.3\% | 156 |
| Quality of public docks | 0.0\% | 2.8\% | 2.8\% | 1.8\% | 58.7\% | 4.6\% | 8.3\% | 7.3\% | 13.8\% | 5.8 | 1.7 | 29.2\% | 154 |
| Number of campsites | 0.8\% | 1.6\% | 1.6\% | 3.3\% | 67.2\% | 3.3\% | 4.9\% | 5.7\% | 11.5\% | 5.6 | 1.6 | 22.8\% | 158 |
| Number of boat launches | 0.7\% | 1.5\% | 0.7\% | 4.4\% | 68.4\% | 7.4\% | 6.6\% | 2.9\% | 7.4\% | 5.5 | 1.4 | 15.5\% | 161 |
| Quality of picnic or day use areas | 0.7\% | 2.9\% | 1.4\% | 5.7\% | 64.3\% | 6.4\% | 8.6\% | 3.6\% | 6.4\% | 5.4 | 1.4 | 11.4\% | 158 |
| Quality of boat launches | 0.7\% | 1.5\% | 3.7\% | 4.5\% | 67.9\% | 6.0\% | 6.0\% | 3.0\% | 6.7\% | 5.3 | 1.4 | 15.7\% | 159 |
| Quality of on-line campground reservation system | 2.0\% | 2.0\% | 0.0\% | 4.1\% | 75.5\% | 3.1\% | 4.1\% | 2.0\% | 7.1\% | 5.3 | 1.4 | 38.4\% | 159 |
| Quality of swim/sunbathing areas | 2.7\% | 1.3\% | 6.7\% | 4.7\% | 58.7\% | 8.0\% | 7.3\% | 5.3\% | 5.3\% | 5.3 | 1.6 | 8.0\% | 163 |
| Quality of campsites | 0.9\% | 2.6\% | 3.5\% | 3.5\% | 67.8\% | 8.7\% | 5.2\% | 3.5\% | 4.3\% | 5.3 | 1.3 | 26.3\% | 156 |
| Level of public recreation development | 0.0\% | 2.0\% | 2.6\% | 3.3\% | 73.5\% | 8.6\% | 4.0\% | 1.3\% | 4.6\% | 5.2 | 1.2 | 4.4\% | 158 |
| Number of swim/sunbathing areas | 1.9\% | 0.0\% | 5.6\% | 5.6\% | 66.9 | 5.0\% | 7.5\% | 3.8\% | 3.8\% | 5.2 | 1.4 | 4.8\% | 168 |
| Number of picnic or day use areas | 0.7\% | 0.7\% | 2.1\% | 7.8\% | 71.6\% | 6.4\% | 5.7\% | 1.4\% | 3.5\% | 5.2 | 1.1 | 12.4\% | 161 |
| Amount of shoreline available for use | 3.2\% | 3.2\% | 2.6 | 6.5\% | 65.8\% | 6.5\% | 5.2\% | 3.2\% | 3.9\% | 5.1 | 1.5 | 5.5\% | 164 |
| Cost to use facilities | 8.4\% | 1.5\% | 6.9\% | 6.9\% | 71.8\% | 0.8\% | 0.8\% | 0.0\% | 3.1\% | 4.6 | 1.5 | 19.1\% | 162 |

Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

Table B.10.5 Frenchman Coulee Recreation Area

| Too High |  |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 7.7\% | 50.0\% | 11.5\% | 23.1\% | 3.8\% | 3.8\% | 5.8 | 1.2 | 16.1\% | 31 |
| Amount of shoreline available for use | 0.0\% | 0.0\% | 3.6\% | 7.1\% | 50.0\% | 7.1\% | 17.9\% | 10.7\% | 3.6\% | 5.8 | 1.4 | 12.5\% | 32 |
| Quality of campsites | 5.9\% | 0.0\% | 0.0\% | 0.0\% | 58.8\% | 11.8\% | 11.8\% | 5.9\% | 5.9\% | 5.5 | 1.7 | 39.3\% | 28 |
| Number of campsites | 5.3\% | 0.0\% | 0.0\% | 5.3\% | 52.6\% | 10.5\% | 15.8\% | 5.3\% | 5.3\% | 5.5 | 1.7 | 34.5\% | 29 |
| Quality of swim/sunbathing areas | 4.0\% | 0.0\% | 0.0\% | 8.0\% | 56.0\% | 12.0\% | 12.0\% | 0.0\% | 8.0\% | 5.4 | 1.6 | 16.7\% | 30 |
| Quality of on-line campground reservation system | 0.0\% | 0.0\% | 0.0\% | 7.7\% | 69.2\% | 15.4\% | 0.0\% | 0.0\% | 7.7\% | 5.4 | 1.2 | 55.2\% | 29 |
| Number of restrooms/toilets | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 85.7\% | 2.9\% | 8.6\% | 0.0\% | 2.9\% | 5.3 | 0.9 | 0.0\% | 35 |
| Number of hiking trails | 0.0\% | 0.0\% | 3.8\% | 3.8\% | 76.9\% | 3.8\% | 3.8\% | 0.0\% | 7.7\% | 5.3 | 1.3 | 13.3\% | 30 |
| Number of boat launches | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 90.9\% | 0.0\% | 4.5\% | 0.0\% | 4.5\% | 5.3 | 0.9 | 29.0\% | 31 |
| Quality of restrooms/toilets | 0.0\% | 3.4\% | 10.3\% | 0.0\% | 75.9\% | 0.0\% | 3.4\% | 6.9\% | 0.0\% | 5.0 | 1.2 | 6.5\% | 31 |
| Number of public docks | 0.0\% | 5.0\% | 0.0\% | 5.0\% | 80.0\% | 10.0\% | 0.0\% | 0.0\% | 0.0\% | 4.9 | 0.8 | 31.0\% | 29 |
| Quality of hiking trails | 0.0\% | 0.0\% | 4.2\% | 12.5\% | 75.0\% | 8.3\% | 0.0\% | 0.0\% | 0.0\% | 4.9 | 0.6 | 17.2\% | 29 |
| Number of picnic or day use areas | 3.4\% | 3.4\% | 3.4\% | 0.0\% | 79.3\% | 3.4\% | 6.9\% | 0.0\% | 0.0\% | 4.9 | 1.2 | 6.5\% | 31 |
| Quality of picnic or day use areas | 0.0\% | 3.3\% | 6.7\% | 10.0\% | 70.0\% | 6.7\% | 3.3\% | 0.0\% | 0.0\% | 4.8 | 0.9 | 6.3\% | 32 |
| Level of public recreation development | 3.1\% | 3.1\% | 3.1\% | 3.1\% | 84.4\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 4.8 | 1.0 | 3.0\% | 33 |
| Quality of boat launches | 0.0\% | 13.0\% | 4.3\% | 4.3\% | 73.9\% | 0.0\% | 0.0\% | 0.0\% | 4.3\% | 4.7 | 1.4 | 25.8\% | 31 |
| Quality of public docks | 5.0\% | 5.0\% | 5.0\% | 10.0\% | 70.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0\% | 4.7 | 1.5 | 31.0\% | 29 |
| Cost to use facilities | 12.5\% | 0.0\% | 0.0\% | 4.2\% | 79.2\% | 0.0\% | 0.0\% | 0.0\% | 4.2\% | 4.6 | 1.6 | 20.0\% | 30 |

[^8]
## Table B.10.6 Huntzinger Road Boat Launch

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of picnic or day use areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | $33.3 \%$ | 0.0\% | 0.0\% | 0.0\% | 66.7\% | 7.7 | 2.3 | 40.0\% | 5 |
| Quality of picnic or day use areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 66.7\% | 7.7 | 2.3 | 40.0\% | 5 |
| Number of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 66.7\% | 0.0\% | 0.0\% | 16.7\% | 16.7\% | 6.2 | 1.8 | 0.0\% | 6 |
| Amount of shoreline available for use | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 80.0\% | 0.0\% | 20.0\% | 0.0\% | 0.0\% | 5.4 | 0.9 | 0.0\% | 5 |
| Number of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 66.7\% | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 5.3 | 0.6 | 40.0\% | 5 |
| Quality of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 66.7\% | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 5.3 | 0.6 | 40.0\% | 5 |
| Level of public recreation development | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 0.0\% | 5 |
| Number of restrooms/toilets | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 0.0\% | 6 |
| Number of boat launches | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 0.0\% | 6 |
| Number of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 60.0\% | 5 |
| Quality of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 60.0\% | 5 |
| Quality of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 0.0\% | 6 |
| Number of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 60.0\% | 5 |
| Quality of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 60.0\% | 5 |
| Cost to use facilities | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 16.7\% | 6 |
| Quality of on-line campground reservation system | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 50.0\% | 4 |
| Quality of restrooms/toilets | 0.0\% | 0.0\% | 16.7\% | 16.7\% | 66.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.5 | 0.8 | 0.0\% | 6 |
| Quality of restrooms/toilets | 0.0\% | 0.0\% | 12.5\% | 12.5\% | 75.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.6 | 0.7 | 0.0\% | 8 |

[^9]
## Table B.10.7 Huntzinger Road Fishing Access Site

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Amount of shoreline available for use | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 100\% | 9.0 | 0.0 | 0\% | 2 |
| Number of public docks | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 100\% | 9.0 | 0.0 | 0\% | 2 |
| Quality of boat launches | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 8.0 | - | 50\% | 2 |
| Level of public recreation development | 50\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 50\% | 5.0 | 5.7 | 0\% | 2 |
| Number of restrooms/toilets | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0.0 | 0\% | 2 |
| Quality of restrooms/toilets | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0.0 | 0\% | 2 |
| Number of boat launches | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 50\% | 2 |
| Quality of public docks | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | - | 50\% | 2 |
| Cost to use facilities | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 5.0 | 0.0 | 0\% | 2 |
| Number of picnic or day use areas | - | - | - | - | - | - | - | - | - | - | - | 100\% | 1 |
| Quality of picnic or day use areas | - | - | - | - | - | - | - | - | - | - | - | 100\% | 1 |
| Number of swim/sunbathing areas | - | - | - | - | - | - | - | - | - | - | - | 100\% | 1 |
| Quality of swim/sunbathing areas | - | - | - | - | - | - | - | - | - | - | - | 100\% | 1 |
| Number of hiking trails |  |  |  |  |  |  |  |  |  |  |  | 100\% | 1 |
| Quality of hiking trails | - | - | - | - | - | - | - | - | - | - | - | 100\% | 1 |
| Number of campsites | - | - | - | - | - | - | - | - | - | - | - | 100\% | 1 |
| Quality of campsites | - | - | - | - | - | - | - | - | - | - | - | 100\% | 1 |

[^10]Table B.10.8 Jackson Creek Fish Camp

|  | Too High |  |  | About Right |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of restrooms/toilets | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 80.0\% | 0.0\% | 0.0\% | 0.0\% | 20.0\% | 5.8 | 1.8 | 0.0\% | 5 |
| Level of public recreation development | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 0.0\% | 5 |
| Quality of restrooms/toilets | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Number of picnic or day use areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Quality of picnic or day use areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Amount of shoreline available for use | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Number of boat launches | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Quality of boat launches | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Number of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Quality of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Number of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Quality of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Number of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Quality of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Number of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 0.0\% | 4 |
| Quality of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Cost to use facilities | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Quality of on-line campground reservation system | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |

[^11]Table B.10.9 PRRA

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Amount of shoreline available for use | 1.9\% | 0.0\% | 0.0\% | 3.8\% | 64.2\% | 3.8\% | 9.4\% | 0.0\% | 17.0\% | 5.8 | 1.7 | 1.9\% | 54 |
| Number of restrooms/toilets | 0.0\% | 1.8\% | 1.8\% | 0.0\% | 68.4\% | 3.5\% | 14.0\% | 1.8\% | 8.8\% | 5.6 | 1.4 | 3.4\% | 59 |
| Number of public docks | 0.0\% | 3.9\% | 3.9\% | 2.0\% | 66.7\% | 2.0\% | 5.9\% | 5.9\% | 9.8\% | 5.5 | 1.6 | 10.5\% | 57 |
| Number of hiking trails | 0.0\% | 2.3\% | 9.3\% | 2.3\% | 55.8\% | 2.3\% | 16.3\% | 4.7\% | 7.0\% | 5.5 | 1.6 | 20.4\% | 54 |
| Number of campsites | 0.0\% | 2.3\% | 0.0\% | 2.3\% | 79.1\% | 2.3\% | 2.3\% | 4.7\% | 7.0\% | 5.4 | 1.3 | 20.4\% | 54 |
| Number of swim/sunbathing areas | 0.0\% | 0.0\% | 6.0\% | 0.0\% | 68.0\% | 8.0\% | 14.0\% | 2.0\% | 2.0\% | 5.4 | 1.1 | 9.1\% | 55 |
| Quality of restrooms/toilets | 0.0\% | 1.9\% | 5.6\% | 0.0\% | 68.5\% | 11.1\% | 5.6\% | 1.9\% | 5.6\% | 5.3 | 1.3 | 6.9\% | 58 |
| Quality of swim/sunbathing areas | 0.0\% | 0.0\% | 4.0\% | 4.0\% | 70.0\% | 4.0\% | 18.0\% | 0.0\% | 0.0\% | 5.3 | 0.9 | 10.7\% | 56 |
| Quality of on-line campground reservation system | 0.0\% | 3.0\% | 0.0\% | 6.1\% | 75.8\% | 6.1\% | 6.1\% | 0.0\% | 3.0\% | 5.2 | 1.1 | 38.9\% | 54 |
| Quality of public docks | 0.0\% | 4.2\% | 10.4\% | 2.1\% | 68.8\% | 4.2\% | 2.1\% | 4.2\% | 4.2\% | 5.0 | 1.4 | 11.1\% | 54 |
| Cost to use facilities | 0.0\% | 0.0\% | 0.0\% | 2.1\% | 95.8\% | 2.1\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.2 | 14.3\% | 56 |
| Number of boat launches | 0.0\% | 1.8\% | 5.5\% | 3.6\% | 78.2\% | 3.6\% | 7.3\% | 0.0\% | 0.0\% | 5.0 | 0.9 | 3.5\% | 57 |
| Quality of campsites | 0.0\% | 2.4\% | 4.9\% | 0.0\% | 82.9\% | 7.3\% | 0.0\% | 2.4\% | 0.0\% | 5.0 | 0.9 | 24.1\% | 54 |
| Quality of hiking trails | 0.0\% | 4.7\% | 7.0\% | 2.3\% | 74.4\% | 2.3\% | 7.0\% | 0.0\% | 2.3\% | 5.0 | 1.2 | 17.3\% | 52 |
| Number of picnic or day use areas | 2.0\% | 3.9\% | 0.0\% | 5.9\% | 84.3\% | 0.0\% | 0.0\% | 0.0\% | 3.9\% | 4.9 | 1.2 | 8.9\% | 56 |
| Level of public recreation development | 1.8\% | 1.8\% | 3.6\% | 0.0\% | 87.3\% | 5.5\% | 0.0\% | 0.0\% | 0.0\% | 4.9 | 0.8 | 6.8\% | 59 |
| Quality of picnic or day use areas | 0.0\% | 4.0\% | 6.0\% | 10.0\% | 76.0\% | 2.0\% | 2.0\% | 0.0\% | 0.0\% | 4.7 | 0.9 | 9.1\% | 55 |
| Quality of boat launches | 1.8\% | 5.5\% | 14.5\% | 7.3\% | 69.1\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 4.4 | 1.1 | 5.2\% | 58 |

[^12]Table B.10.10 Quilomene Dune \& Bay

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of restrooms/toilets | 1.1\% | 0.0\% | 0.0\% | 0.0\% | 37.4\% | 8.8\% | 6.6\% | 5.5\% | 40.7\% | 7.0 | 1.9 | 10.8\% | 102 |
| Number of public docks | 1.2\% | 2.4\% | 1.2\% | 1.2\% | 39.3\% | 2.4\% | 10.7\% | 11.9\% | 29.8\% | 6.6 | 2.0 | 16.0\% | 100 |
| Quality of restrooms/toile | 2.5\% | 0.0\% | 0.0\% | 1.3\% | 48.8\% | 6.3\% | 7.5\% | 2.5\% | 31.3\% | 6.4 | 2.0 | 19.2\% | 99 |
| Quality of public docks | 2.4\% | 0.0\% | 3.6\% | 6.0\% | 44.6\% | 1.2\% | 8.4\% | 9.6\% | 24.1\% | 6.2 | 2.1 | 17.8\% | 101 |
| Number of campsites | 1.4\% | 0.0\% | 5.6\% | 1.4\% | 59.2\% | 1.4\% | 2.8\% | 7.0\% | 21.1\% | 5.9 | 1.9 | 26.8\% | 97 |
| Number of boat launches | 2.0\% | 1.0\% | 3.0\% | 2.0\% | 58.6\% | 2.0\% | 8.1\% | 5.1\% | 18.2\% | 5.9 | 1.9 | 3.9\% | 103 |
| Number of picnic or day use areas | 3.4\% | 1.1\% | 2.3\% | 3.4\% | 54.0\% | 5.7\% | 4.6\% | 5.7\% | 19.5\% | 5.9 | 2.0 | 14.7\% | 102 |
| Amount of shoreline available for use | 2.0\% | 2.0\% | 2.0\% | 3.0\% | 58.0\% | 2.0\% | 10.0\% | 2.0\% | 19.0\% | 5.8 | 1.9 | 0.0\% | 100 |
| Quality of hiking trails | 3.5\% | 3.5\% | 0.0\% | 1.8\% | 59.6\% | 7.0\% | 1.8\% | 1.8\% | 21.1\% | 5.7 | 2.0 | 41.2\% | 97 |
| Number of hiking trails | 6.5\% | 3.2\% | 3.2\% | 1.6\% | 45.2\% | 8.1\% | 12.9\% | 0.0\% | 19.4\% | 5.7 | 2.2 | 39.2\% | 102 |
| Quality of boat launches | 2.0\% | 4.0\% | 3.0\% | 6.1\% | 55.6\% | 4.0\% | 6.1\% | 5.1\% | 14.1\% | 5.6 | 1.9 | 3.9\% | 103 |
| Number of swim/sunbathing areas | 2.0\% | 3.1\% | 4.1\% | 1.0\% | 57.1\% | 6.1\% | 16.3\% | 5.1\% | 5.1\% | 5.5 | 1.6 | 3.0\% | 101 |
| Quality of on-line campground reservation system | 2.1\% | 0.0\% | 2.1\% | 0.0\% | 72.9\% | 2.1\% | 12.5\% | 2.1\% | 6.3\% | 5.5 | 1.4 | 51.5\% | 99 |
| Level of public recreation development | 3.3\% | 2.2\% | 0.0\% | 3.3\% | 68.1\% | 4.4\% | 5.5\% | 2.2\% | 11.0\% | 5.4 | 1.7 | 6.2\% | 97 |
| Quality of swim/sunbathing areas | 2.1\% | 1.0\% | 4.2\% | 4.2\% | 61.5\% | 5.2\% | 10.4\% | 6.3\% | 5.2\% | 5.4 | 1.5 | 3.0\% | 99 |
| Quality of picnic or day use areas | 3.6\% | 3.6\% | 2.4\% | 4.8\% | 58.3\% | 6.0\% | 8.3\% | 0.0\% | 13.1\% | 5.4 | 1.8 | 16.8\% | 101 |
| Quality of campsites | 3.0\% | 1.5\% | 7.6\% | 0.0\% | 65.2\% | 1.5\% | 4.5\% | 6.1\% | 10.6\% | 5.4 | 1.8 | 32.7\% | 98 |
| Cost to use facilities | 11.3\% | 1.3\% | 6.3\% | 5.0\% | 70.0\% | 0.0\% | 1.3\% | 0.0\% | 5.0\% | 4.6 | 1.7 | 20.0\% | 100 |

[^13]Table B.10.11 Rattlesnake Cove

|  | Too High |  |  | About Right |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Amount of shoreline available for use | 20.0\% | 0.0\% | 0.0\% | 10.0\% | 30.0\% | 10.0\% | 20.0\% | 10.0\% | 0.0\% | 4.9 | 2.4 | 9.1\% | 11 |
| Number of boat launches | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 75.0\% | 0.0\% | 12.5\% | 0.0\% | 0.0\% | 4.8 | 1.7 | 27.3\% | 11 |
| Number of swim/sunbathing areas | 20.0\% | 0.0\% | 0.0\% | 10.0\% | 40.0\% | 10.0\% | 10.0\% | 10.0\% | 0.0\% | 4.7 | 2.3 | 9.1\% | 11 |
| Level of public recreation development | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 75.0\% | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 4.6 | 1.5 | 11.1\% | 9 |
| Number of restrooms/toilets | 10.0\% | 0.0\% | 0.0\% | 10.0\% | 80.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.5 | 1.3 | 9.1\% | 11 |
| Quality of swim/sunbathing areas | 22.2\% | 0.0\% | 11.1\% | 0.0\% | 44.4\% | 0.0\% | 11.1\% | 11.1\% | 0.0\% | 4.4 | 2.4 | 10.0\% | 10 |
| Quality of restrooms/toilets | 12.5\% | 0.0\% | 12.5\% | 12.5\% | 50.0\% | 0.0\% | 12.5\% | 0.0\% | 0.0\% | 4.4 | 1.8 | 27.3\% | 11 |
| Number of picnic or day use areas | 12.5\% | 0.0\% | 0.0\% | 25.0\% | 50.0\% | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 4.4 | 1.5 | 20.0\% | 10 |
| Quality of boat launches | 16.7\% | 0.0\% | 0.0\% | 0.0\% | 83.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.3 | 1.6 | 45.5\% | 11 |
| Quality of picnic or day use areas | 10.0\% | 0.0\% | 0.0\% | 40.0\% | 50.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.2 | 1.2 | 9.1\% | 11 |
| Quality of public docks | 20.0\% | 0.0\% | 0.0\% | 0.0\% | 80.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.2 | 1.8 | 50.0\% | 10 |
| Number of campsites | 16.7\% | 0.0\% | 0.0\% | 16.7\% | 66.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.2 | 1.6 | 45.5\% | 11 |
| Quality of campsites | 16.7\% | 0.0\% | 0.0\% | 16.7\% | 66.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.2 | 1.6 | 45.5\% | 11 |
| Cost to use facilities | 14.3\% | 0.0\% | 0.0\% | 28.6\% | 57.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.1 | 1.5 | 36.4\% | 11 |
| Number of public docks | 20.0\% | 0.0\% | 0.0\% | 20.0\% | 60.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.0 | 1.7 | 54.5\% | 11 |
| Quality of on-line campground reservation system | 20.0\% | 0.0\% | 0.0\% | 20.0\% | 60.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.0 | 1.7 | 54.5\% | 11 |
| Quality of hiking trails | 25.0\% | 0.0\% | 0.0\% | 25.0\% | 50.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.8 | 1.9 | 63.6\% | 11 |
| Number of hiking trails | 40.0\% | 0.0\% | 20.0\% | 0.0\% | 40.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.0 | 2.0 | 54.5\% | 11 |

Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

Table B.10.12 Riverstone Resort

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of restrooms/toilets | 0.0\% | 10.0\% | 0.0\% | 0.0\% | 40.0\% | 20.0\% | 10.0\% | 10.0\% | 10.0\% | 5.8 | 1.9 | 9.1\% | 11 |
| Quality of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 80.0\% | 0.0\% | 0.0\% | 0.0\% | 20.0\% | 5.8 | 1.7 | 9.1\% | 11 |
| Quality of on-line campground reservation system | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 83.3\% | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 5.7 | 1.6 | 40.0\% | 10 |
| Quality of campsites | 0.0\% | 14.3\% | 0.0\% | 0.0\% | 57.1\% | 0.0\% | 14.3\% | 0.0\% | 14.3\% | 5.4 | 2.1 | 30.0\% | 10 |
| Quality of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 10.0\% | 60.0\% | 10.0\% | 20.0\% | 0.0\% | 0.0\% | 5.4 | 1.0 | 9.1\% | 11 |
| Number of public docks | 0.0\% | 10.0\% | 0.0\% | 0.0\% | 70.0\% | 0.0\% | 10.0\% | 0.0\% | 10.0\% | 5.3 | 1.8 | 9.1\% | 11 |
| Number of picnic or day use areas | 0.0\% | 10.0\% | 0.0\% | 0.0\% | 60.0\% | 10.0\% | 20.0\% | 0.0\% | 0.0\% | 5.2 | 1.4 | 0.0\% | 10 |
| Number of campsites | 0.0\% | 16.7\% | 0.0\% | 0.0\% | 66.7\% | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 5.2 | 2.2 | 33.3\% | 9 |
| Number of hiking trails | 0.0\% | 14.3\% | 0.0\% | 0.0\% | 71.4\% | 0.0\% | 0.0\% | 0.0\% | 14.3\% | 5.1 | 2.0 | 30.0\% | 10 |
| Number of boat launches | 0.0\% | 12.5\% | 0.0\% | 0.0\% | 75.0\% | 0.0\% | 0.0\% | 0.0\% | 12.5\% | 5.1 | 1.9 | 20.0\% | 10 |
| Amount of shoreline available for use | 0.0\% | 9.1\% | 0.0\% | 0.0\% | 81.8\% | 0.0\% | 0.0\% | 9.1\% | 0.0\% | 5.0 | 1.3 | 0.0\% | 11 |
| Quality of boat launches | 0.0\% | 14.3\% | 0.0\% | 14.3\% | 57.1\% | 0.0\% | 0.0\% | 0.0\% | 14.3\% | 5.0 | 2.1 | 22.2\% | 9 |
| Number of swim/sunbathing areas | 0.0\% | 11.1\% | 0.0\% | 0.0\% | 66.7\% | 11.1\% | 11.1\% | 0.0\% | 0.0\% | 5.0 | 1.3 | 18.2\% | 11 |
| Quality of hiking trails | 0.0\% | 16.7\% | 0.0\% | 33.3\% | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 4.8 | 2.3 | 33.3\% | 9 |
| Quality of picnic or day use areas | 0.0\% | 9.1\% | 0.0\% | 9.1\% | 72.7\% | 9.1\% | 0.0\% | 0.0\% | 0.0\% | 4.7 | 1.0 | 0.0\% | 11 |
| Cost to use facilities | 0.0\% | 11.1\% | 0.0\% | 0.0\% | 88.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.7 | 1.0 | 18.2\% | 11 |
| Quality of restrooms/toilets | 0.0\% | 14.3\% | 0.0\% | 0.0\% | 85.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.6 | 1.1 | 12.5\% | 8 |
| Level of public recreation development | 10.0\% | 10.0\% | 0.0\% | 0.0\% | 80.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.3 | 1.5 | 9.1\% | 11 |

Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

Table B.10.13 Rocky Coulee

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of swim/sunbathing areas | 0.0\% | 0.0\% | 3.2\% | 9.7\% | 45.2\% | 9.7\% | 9.7\% | 9.7\% | 12.9\% | 5.9 | 1.7 | 16.2\% | 37 |
| Amount of shoreline available for use | 0.0\% | 0.0\% | 9.1\% | 12.1\% | 54.5\% | 3.0\% | 3.0\% | 6.1\% | 12.1\% | 5.5 | 1.7 | 5.7\% | 35 |
| Quality of swim/sunbathing areas | 0.0\% | 3.6\% | 3.6\% | 3.6\% | 67.9\% | 7.1\% | 10.7\% | 0.0\% | 3.6\% | 5.2 | 1.3 | 20.0\% | 35 |
| Number of picnic or day use areas | 0.0\% | 3.0\% | 3.0\% | 9.1\% | 63.6\% | 9.1\% | 6.1\% | 3.0\% | 3.0\% | 5.2 | 1.3 | 8.3\% | 36 |
| Number of boat launches | 0.0\% | 0.0\% | .0\% | 10.0\% | 80.0\% | 0.0\% | 10.0\% | 0.0\% | 0.0\% | 5. | 0.7 | 39.4\% | 33 |
| Number of campsites | 0.0\% | 0.0\% | 0.0\% | 10.7\% | 78.6\% | 7.1\% | 0.0\% | 3.6\% | 0.0\% | 5.1 | 0.7 | 20.0\% | 35 |
| Quality of picnic or day use areas | 6.3\% | 0.0\% | 6.3\% | 3.1\% | 62.5\% | 6.3\% | 12.5\% | 3.1\% | 0.0\% | 5.0 | 1.5 | 5.9\% | 34 |
| Number of public docks | 0.0\% | 0.0\% | 0.0\% | 9.5\% | 85.7\% | 0.0\% | 4.8\% | 0.0\% | 0.0\% | 5.0 | 0.5 | 38.2\% | 34 |
| Quality of public docks | 0.0\% | 0.0\% | 0.0\% | 9.5\% | 85.7\% | 4.8\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.4 | 36.4\% | 33 |
| Quality of on-line campground reservation system | 0.0\% | 0.0\% | 0.0\% | 12.5\% | 81.3\% | 6.3\% | 0.0\% | 0.0\% | 0.0\% | 4.9 | 0.4 | 52.9\% | 34 |
| Number of hiking trails | 0.0\% | 0.0\% | 7.1\% | 14.3\% | 64.3\% | 7.1\% | 7.1\% | 0.0\% | 0.0\% | 4.9 | 0.9 | 24.3\% | 37 |
| Number of restrooms/toilets | 0.0\% | 2.6\% | 2.6\% | 7.9\% | 78.9\% | 2.6\% | 5.3\% | 0.0\% | 0.0\% | 4.9 | 0.8 | 2.6\% | 39 |
| Quality of boat launches | 0.0\% | 0.0\% | 10.5\% | 10.5\% | 73.7\% | 0.0\% | 5.3\% | 0.0\% | 0.0\% | 4.8 | 0.9 | 40.6\% | 32 |
| Quality of hiking trails | 7.7\% | 3.8\% | 0.0\% | 7.7\% | 65.4\% | 11.5\% | 0.0\% | 0.0\% | 3.8\% | 4.8 | 1.6 | 27.8\% | 36 |
| Cost to use facilities | 0.0\% | 3.8\% | 0.0\% | 11.5\% | 84.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8 | 0.7 | 25.7\% | 35 |
| Quality of campsites | 7.1\% | 0.0\% | 0.0\% | 7.1\% | 78.6\% | 3.6\% | 3.6\% | 0.0\% | 0.0\% | 4.8 | 1.2 | 20.0\% | 35 |
| Level of public recreation development | 5.7\% | 0.0\% | 0.0\% | 17.1\% | 68.6\% | 2.9\% | 5.7\% | 0.0\% | 0.0\% | 4.7 | 1.1 | 5.4\% | 37 |
| Quality of restrooms/toilets | 8.6\% | 2.9\% | 5.7\% | 5.7\% | 77.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.4 | 1.3 | 10.3\% | 39 |

[^14]Table B.10.14 Sand Hollow

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Quality of restrooms/toilets | 0.0\% | 0.0\% | 5.9\% | 5.9\% | 50.0\% | 5.9\% | 11.8\% | 5.9\% | 14.7\% | 5.9 | 1.7 | 5.6\% | 36 |
| Number of boat launches | 0.0\% | 0.0\% | 5.9\% | 0.0\% | 70.6\% | 0.0\% | 0.0\% | 5.9\% | 17.6\% | 5.8 | 1.8 | 43.3\% | 30 |
| Number of public docks | 0.0\% | 0.0\% | 7.1\% | 0.0\% | 71.4\% | 0.0\% | 7.1\% | 0.0\% | 14.3\% | 5.6 | 1.7 | 51.7\% | 29 |
| Quality of public docks | 0.0\% | 0.0\% | 7.7\% | 0.0\% | 76.9\% | 0.0\% | 0.0\% | 0.0\% | 15.4\% | 5.5 | 1.7 | 53.6\% | 28 |
| Number of campsites | 3.7\% | 0.0\% | 3.7\% | 3.7\% | 66.7\% | 0.0\% | 7.4\% | 3.7\% | 11.1\% | 5.4 | 1.8 | 6.9\% | 29 |
| Quality of hiking trails | 4.3\% | 0.0\% | 4.3\% | 0.0\% | 69.6\% | 0.0\% | 4.3\% | 8.7\% | 8.7\% | 5.4 | 1.8 | 20.7\% | 29 |
| Quality of campsites | 0.0\% | 0.0\% | 3.7\% | 11.1\% | 63.0\% | 3.7\% | 11.1\% | 0.0\% | 7.4\% | 5.4 | 1.4 | 10.0\% | 30 |
| Amount of shoreline available for use | 0.0\% | 0.0\% | 7.1\% | 10.7\% | 57.1\% | 7.1\% | 7.1\% | 3.6\% | 7.1\% | 5.4 | 1.5 | 9.7\% | 31 |
| Number of hiking trails | 8.0\% | 0.0\% | 4.0\% | 0.0\% | 64.0\% | 0.0\% | 8.0\% | 8.0\% | 8.0\% | 5.3 | 2.0 | 16.7\% | 30 |
| Quality of boat launches | 0.0\% | 0.0\% | 12.5\% | 0.0\% | 68.8\% | 6.3\% | 0.0\% | 0.0\% | 12.5\% | 5.3 | 1.6 | 44.8\% | 29 |
| Quality of swim/sunbathing areas | 0.0\% | 0.0\% | 7.7\% | 3.8\% | 73.1\% | 0.0\% | 3.8\% | 3.8\% | 7.7\% | 5.3 | 1.4 | 16.1\% | 31 |
| Quality of picnic or day use areas | 0.0\% | 0.0\% | 6.9\% | 3.4\% | 72.4\% | 6.9\% | 0.0\% | 3.4\% | 6.9\% | 5.3 | 1.3 | 6.5\% | 31 |
| Quality of on-line campground reservation system | 0.0\% | 0.0\% | 11.8\% | 0.0\% | 70.6\% | 5.9\% | 5.9\% | 0.0\% | 5.9\% | 5.2 | 1.3 | 39.3\% | 28 |
| Number of swim/sunbathing areas | 0.0\% | 0.0\% | 8.0\% | 8.0\% | 72.0\% | 0.0\% | 4.0\% | 0.0\% | 8.0\% | 5.2 | 1.4 | 16.7\% | 30 |
| Number of restrooms/toilets | 0.0\% | 0.0\% | 2.9\% | 2.9\% | 82.9\% | 2.9\% | 8.6\% | 0.0\% | 0.0\% | 5.1 | 0.7 | 2.8\% | 36 |
| Level of public recreation development | 7.7\% | 0.0\% | 0.0\% | 7.7\% | 69.2\% | 3.8\% | 3.8\% | 0.0\% | 7.7\% | 5.0 | 1.7 | 10.3\% | 29 |
| Number of picnic or day use areas | 6.1\% | 0.0\% | 6.1\% | 0.0\% | 78.8\% | 3.0\% | 3.0\% | 3.0\% | 0.0\% | 4.8 | 1.3 | 0.0\% | 33 |
| Cost to use facilities | 10.3\% | 3.4\% | 3.4\% | 0.0\% | 82.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.4 | 1.4 | 6.5\% | 31 |

[^15]Table B.10.15 Sunland Boat Launch

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of public docks | 5.0\% | 0.0\% | 0.0\% | 0.0\% | 40.0\% | 0.0\% | 10.0\% | 5.0\% | 40.0\% | 6.8 | 2.3 | 4.8\% | 21 |
| Quality of public docks | 5.6\% | 0.0\% | 0.0\% | 0.0\% | 44.4\% | 0.0\% | 16.7\% | 0.0\% | 33.3\% | 6.4 | 2.3 | 10.0\% | 20 |
| Quality of boat launches | 4.3\% | 0.0\% | 0.0\% | 4.3\% | 47.8\% | 0.0\% | 8.7\% | 4.3\% | 30.4\% | 6.3 | 2.2 | 0.0\% | 23 |
| Quality of hiking trails | 5.3\% | 0.0\% | 0.0\% | 0.0\% | 57.9\% | 5.3\% | 5.3\% | 5.3\% | 21.1\% | 5.9 | 2.1 | 9.5\% | 21 |
| Number of boat launches | 4.8\% | 0.0\% | 0.0\% | 0.0\% | 66.7\% | 0.0\% | 4.8\% | 9.5\% | 14.3\% | 5.8 | 1.9 | 4.5\% | 22 |
| Amount of shoreline available for use | 5.0\% | 0.0\% | 5.0\% | 0.0\% | 65.0\% | 0.0\% | 5.0\% | 0.0\% | 20.0\% | 5.6 | 2.1 | 0.0\% | 20 |
| Number of hiking trails | 5.9\% | 0.0\% | 0.0\% | 0.0\% | 70.6\% | 0.0\% | 5.9\% | 0.0\% | 17.6\% | 5.6 | 2.0 | 10.5\% | 19 |
| Number of swim/sunbathing areas | 5.0\% | 0.0\% | 0.0\% | 5.0\% | 70.0\% | 5.0\% | 0.0\% | 5.0\% | 10.0\% | 5.4 | 1.7 | 0.0\% | 20 |
| Quality of swim/sunbathing areas | 5.0\% | 0.0\% | 5.0\% | 0.0\% | 75.0\% | 0.0\% | 0.0\% | 0.0\% | 15.0\% | 5.3 | 1.9 | 0.0\% | 20 |
| Number of restrooms/toilets | 4.5\% | 0.0\% | 0.0\% | 0.0\% | 77.3\% | 9.1\% | 0.0\% | 4.5\% | 4.5\% | 5.2 | 1.4 | 0.0\% | 22 |
| Quality of restrooms/toilets | 4.5\% | 0.0\% | 4.5\% | 4.5\% | 68.2\% | 4.5\% | 4.5\% | 4.5\% | 4.5\% | 5.1 | 1.6 | 0.0\% | 22 |
| Quality of on-line campground reservation system | 10.0\% | 0.0\% | 0.0\% | 0.0\% | 60.0\% | 20.0\% | 0.0\% | 10.0\% | 0.0\% | 5.1 | 1.7 | 44.4\% | 18 |
| Quality of campsites | 7.7\% | 0.0\% | 7.7\% | 7.7\% | 61.5\% | 0.0\% | 0.0\% | 0.0\% | 15.4\% | 5.1 | 2.1 | 27.8\% | 18 |
| Number of campsites | 6.7\% | 0.0\% | 6.7\% | 6.7\% | 60.0\% | 0.0\% | 13.3\% | 0.0\% | 6.7\% | 5.1 | 1.8 | 25.0\% | 20 |
| Number of picnic or day use areas | 5.0\% | 0.0\% | 15.0\% | 10.0\% | 55.0\% | 0.0\% | 0.0\% | 0.0\% | 15.0\% | 5.0 | 2.0 | 4.8\% | 21 |
| Quality of picnic or day use areas | 5.0\% | 0.0\% | 10.0\% | 5.0\% | 70.0\% | 0.0\% | 0.0\% | 0.0\% | 10.0\% | 5.0 | 1.7 | 0.0\% | 20 |
| Cost to use facilities | 14.3\% | 0.0\% | 0.0\% | 0.0\% | 64.3\% | 14.3\% | 0.0\% | 7.1\% | 0.0\% | 4.8 | 1.8 | 26.3\% | 19 |
| Level of public recreation development | 20.0\% | 0.0\% | 5.0\% | 5.0\% | 45.0\% | 10.0\% | 0.0\% | 0.0\% | 15.0\% | 4.8 | 2.5 | 0.0\% | 20 |

[^16]Table B.10.16 Sunland Picnic Area

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 33.3\% | 33.3\% | 0.0\% | 0.0\% | 33.3\% | 6.7 | 1.9 | 25.0\% | 8 |
| Quality of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 33.3\% | 33.3\% | 0.0\% | 0.0\% | 33.3\% | 6.7 | 1.9 | 25.0\% | 8 |
| Quality of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 42.9\% | 0.0\% | 28.6\% | 14.3\% | 14.3\% | 6.6 | 1.6 | 12.5\% | 8 |
| Number of restrooms/toilets | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 62.5\% | 0.0\% | 37.5\% | 0.0\% | 0.0\% | 5.8 | 1.0 | 0.0\% | 8 |
| Number of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 71.4\% | 14.3\% | 0.0\% | 0.0\% | 14.3\% | 5.7 | 1.5 | 12.5\% | 8 |
| Quality of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 83.3\% | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 5.7 | 1.6 | 25.0\% | 8 |
| Number of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 60.0\% | 20.0\% | 20.0\% | 0.0\% | 0.0\% | 5.6 | 0.9 | 28.6\% | 7 |
| Quality of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 87.5\% | 0.0\% | 0.0\% | 0.0\% | 12.5\% | 5.5 | 1.4 | 0.0\% | 8 |
| Quality of boat launches | 0.0\% | 0.0\% | 0.0\% | 20.0\% | 60.0\% | 0.0\% | 0.0\% | 20.0\% | 0.0\% | 5.4 | 1.5 | 37.5\% | 8 |
| Number of picnic or day use areas | 0.0\% | 0.0\% | 0.0\% | 12.5\% | 75.0\% | 0.0\% | 0.0\% | 0.0\% | 12.5\% | 5.4 | 1.5 | 0.0\% | 8 |
| Quality of picnic or day use areas | 0.0\% | 0.0\% | 12.5\% | 12.5\% | 62.5\% | 0.0\% | 0.0\% | 0.0\% | 12.5\% | 5.1 | 1.7 | 0.0\% | 8 |
| Level of public recreation development | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 0.0\% | 8 |
| Number of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 12.5\% | 8 |
| Cost to use facilities | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 25.0\% | 8 |
| Quality of on-line campground reservation system | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 50.0\% | 8 |
| Number of boat launches | 0.0\% | 0.0\% | 0.0\% | 20.0\% | 80.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8 | 0.4 | 37.5\% | 8 |
| Quality of restrooms/toilets | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 75.0\% | 0.0\% | 12.5\% | 0.0\% | 0.0\% | 4.8 | 1.7 | 0.0\% | 8 |
| Amount of shoreline available for use | 0.0\% | 0.0\% | 12.5\% | 12.5\% | 62.5\% | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 4.8 | 0.9 | 0.0\% | 8 |

[^17]Table B.10.17 The Cove


[^18]Table B.10.18 Vantage Boat Launch

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 53.3\% | 20.0\% | 10.0\% | 3.3\% | 13.3\% | 6.0 | 1.4 | 47.4\% | 57 |
| Quality of hiking trails | 0.0\% | 0.0\% | 0.0\% | 3.6\% | 46.4\% | 25.0\% | 14.3\% | 0.0\% | 10.7\% | 5.9 | 1.3 | 50.9\% | 57 |
| Number of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 2.0\% | 58.0\% | 6.0\% | 22.0\% | 8.0\% | 4.0\% | 5.9 | 1.3 | 19.4\% | 62 |
| Number of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 66.7\% | 6.7\% | 13.3\% | 0.0\% | 13.3\% | 5.9 | 1.4 | 47.4\% | 57 |
| Amount of shoreline available for use | 0.0\% | 1.9\% | 3.8\% | 1.9\% | 50.0\% | 13.5\% | 17.3\% | 5.8\% | 5.8\% | 5.7 | 1.5 | 13.3\% | 60 |
| Quality of swim/sunbathing areas | 0.0\% | 2.1\% | 4.2\% | 2.1\% | 62.5\% | 12.5\% | 6.3\% | 4.2\% | 6.3\% | 5.5 | 1.4 | 21.3\% | 61 |
| Number of public docks | 0.0\% | 0.0\% | 2.2\% | 8.7\% | 63.0\% | 6.5\% | 8.7\% | 8.7\% | 2.2\% | 5.5 | 1.2 | 23.3\% | 60 |
| Number of restrooms/toilets | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 80.3\% | 3.0\% | 12.1\% | 1.5\% | 3.0\% | 5.4 | 1.0 | 4.3\% | 69 |
| Quality of restrooms/toilets | 0.0\% | 0.0\% | 3.4\% | 3.4\% | 72.4\% | 1.7\% | 10.3\% | 3.4\% | 5.2\% | 5.4 | 1.3 | 9.4\% | 64 |
| Quality of campsites | 0.0\% | 0.0\% | 0.0\% | 3.4\% | 79.3\% | 10.3\% | 0.0\% | 0.0\% | 6.9\% | 5.3 | 1.1 | 50.8\% | 59 |
| Quality of on-line campground reservation system | 0.0\% | 0.0\% | 4.2\% | 4.2\% | 79.2\% | 0.0\% | 4.2\% | 0.0\% | 8.3\% | 5.3 | 1.3 | 57.9\% | 57 |
| Number of picnic or day use areas | 0.0\% | 0.0\% | 3.8\% | 0.0\% | 75.5\% | 9.4\% | 7.5\% | 3.8\% | 0.0\% | 5.3 | 0.9 | 11.7\% | 60 |
| Quality of picnic or day use areas | 0.0\% | 0.0\% | 4.0\% | 2.0\% | 78.0\% | 6.0\% | 6.0\% | 2.0\% | 2.0\% | 5.2 | 1.0 | 12.3\% | 57 |
| Level of public recreation development | 0.0\% | 0.0\% | 1.7\% | 5.0\% | 85.0\% | 3.3\% | 0.0\% | 0.0\% | 5.0\% | 5.2 | 1.0 | 7.7\% | 65 |
| Quality of public docks | 0.0\% | 2.2\% | 4.3\% | 10.9\% | 69.6\% | 4.3\% | 2.2\% | 4.3\% | 2.2\% | 5.0 | 1.2 | 22.0\% | 59 |
| Number of boat launches | 0.0\% | 0.0\% | 7.7\% | 3.8\% | 80.8\% | 3.8\% | 0.0\% | 0.0\% | 3.8\% | 5.0 | 1.0 | 14.8\% | 61 |
| Cost to use facilities | 5.7\% | 0.0\% | 5.7\% | 0.0\% | 88.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.7 | 1.0 | 38.6\% | 57 |
| Quality of boat launches | 3.9\% | 7.8\% | 13.7\% | 5.9\% | 64.7\% | 2.0\% | 2.0\% | 0.0\% | 0.0\% | 4.3 | 1.3 | 17.7\% | 62 |

[^19]Table B.10.19 Wanapum Dam Lower Boat Launch

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Level of public recreation development | 0.0\% | 0.0\% | 5.3\% | 0.0\% | 84.2\% | 0.0\% | 5.3\% | 5.3\% | 0.0\% | 5.2 | 1.0 | 9.5\% | 21 |
| Number of restrooms/toilets | 0.0\% | 4.8\% | 0.0\% | 0.0\% | 85.7\% | 9.5\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.7 | 4.5\% | 22 |
| Quality of restrooms/toilets | 9.1\% | 0.0\% | 0.0\% | 9.1\% | 63.6\% | 4.5\% | 4.5\% | 0.0\% | 9.1\% | 5.0 | 1.8 | 4.3\% | 23 |
| Number of picnic or day use areas | 0.0\% | 0.0\% | 0.0\% | 5.3\% | 73.7\% | 10.5\% | 5.3\% | 0.0\% | 5.3\% | 5.4 | 1.1 | 13.6\% | 22 |
| Quality of picnic or day use areas | 5.6\% | 0.0\% | 0.0\% | 0.0\% | 88.9\% | 0.0\% | 0.0\% | 5.6\% | 0.0\% | 4.9 | 1.2 | 14.3\% | 21 |
| Amount of shoreline available for use | 5.0\% | 0.0\% | 0.0\% | 5.0\% | 70.0\% | 5.0\% | 10.0\% | 0.0\% | 5.0\% | 5.2 | 1.5 | 4.8\% | 21 |
| Number of boat launches | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 73.7\% | 5.3\% | 5.3\% | 10.5\% | 5.3\% | 5.7 | 1.3 | 9.5\% | 21 |
| Quality of boat launches | 0.0\% | 0.0\% | 5.3\% | 0.0\% | 57.9\% | 15.8\% | 5.3\% | 10.5\% | 5.3\% | 5.7 | 1.4 | 13.6\% | 22 |
| Number of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 75.0\% | 0.0\% | 0.0\% | 0.0\% | 25.0\% | 6.0 | 1.8 | 23.8\% | 21 |
| Quality of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 80.0\% | 0.0\% | 0.0\% | 0.0\% | 20.0\% | 5.8 | 1.7 | 31.8\% | 22 |
| Number of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 66.7\% | 0.0\% | 13.3\% | 0.0\% | 20.0\% | 6.1 | 1.7 | 31.8\% | 22 |
| Quality of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 66.7\% | 6.7\% | 6.7\% | 0.0\% | 20.0\% | 6.0 | 1.6 | 34.8\% | 23 |
| Number of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 73.3\% | 6.7\% | 0.0\% | 6.7\% | 13.3\% | 5.8 | 1.5 | 31.8\% | 22 |
| Quality of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 81.3\% | 0.0\% | 0.0\% | 6.3\% | 12.5\% | 5.7 | 1.5 | 30.4\% | 23 |
| Number of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 70.6\% | 5.9\% | 0.0\% | 0.0\% | 23.5\% | 6.0 | 1.7 | 22.7\% | 22 |
| Quality of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 73.3\% | 13.3\% | 0.0\% | 0.0\% | 13.3\% | 5.7 | 1.4 | 31.8\% | 22 |
| Cost to use facilities | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 92.9\% | 0.0\% | 0.0\% | 0.0\% | 7.1\% | 5.3 | 1.1 | 33.3\% | 21 |
| Quality of on-line campground reservation system | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 83.3\% | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 5.7 | 1.6 | 45.5\% | 22 |

Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

Table B.10.20 Wanapum Dam Overlook

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 55.6\% | 0.0\% | 11.1\% | 11.1\% | 22.2\% | 6.4 | 1.8 | 35.7\% | 14 |
| Quality of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 80.0\% | 0.0\% | 0.0\% | 0.0\% | 20.0\% | 5.8 | 1.8 | 58.3\% | 12 |
| Quality of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 75.0\% | 0.0\% | 12.5\% | 0.0\% | 12.5\% | 5.8 | 1.5 | 42.9\% | 14 |
| Number of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 83.3\% | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 5.7 | 1.6 | 50.0\% | 12 |
| Number of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 14.3\% | 57.1\% | 14.3\% | 0.0\% | 0.0\% | 14.3\% | 5.6 | 1.6 | 41.7\% | 12 |
| Number of boat launches | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 66.7\% | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 5.5 | 1.8 | 50.0\% | 12 |
| Quality of boat launches | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 66.7\% | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 5.5 | 1.8 | 50.0\% | 12 |
| Quality of swim/sunbathing areas | 0.0\% | 0.0\% | 16.7\% | 0.0\% | 66.7\% | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 5.3 | 2.0 | 50.0\% | 12 |
| Amount of shoreline available for use | 0.0\% | 0.0\% | 10.0\% | 10.0\% | 70.0\% | 0.0\% | 0.0\% | 0.0\% | 10.0\% | 5.1 | 1.5 | 16.7\% | 12 |
| Level of public recreation development | 0.0\% | 0.0\% | 0.0\% | 9.1\% | 90.9\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.9 | 0.3 | 21.4\% | 14 |
| Number of campsites | 0.0\% | 0.0\% | 14.3\% | 14.3\% | 57.1\% | 0.0\% | 14.3\% | 0.0\% | 0.0\% | 4.9 | 1.2 | 41.7\% | 12 |
| Cost to use facilities | 0.0\% | 0.0\% | 16.7\% | 0.0\% | 66.7\% | 16.7\% | 0.0\% | 0.0\% | 0.0\% | 4.8 | 1.0 | 50.0\% | 12 |
| Number of restrooms/toilets | 0.0\% | 8.3\% | 0.0\% | 0.0\% | 91.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8 | 0.9 | 7.7\% | 13 |
| Number of picnic or day use areas | 0.0\% | 0.0\% | 8.3\% | 8.3\% | 83.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.8 | 0.6 | 7.7\% | 13 |
| Quality of picnic or day use areas | 0.0\% | 0.0\% | 7.7\% | 23.1\% | 61.5\% | 7.7\% | 0.0\% | 0.0\% | 0.0\% | 4.7 | 0.8 | 7.1\% | 14 |
| Quality of campsites | 0.0\% | 0.0\% | 16.7\% | 0.0\% | 83.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.7 | 0.8 | 50.0\% | 12 |
| Quality of on-line campground reservation system | 0.0\% | 0.0\% | 16.7\% | 16.7\% | 66.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.5 | 0.8 | 50.0\% | 12 |

Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

## Table B.10.21 Wanapum Dam Upper Boat Launch

|  | Too High |  |  | About Right |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of public docks | 0.0\% | 0.0\% | 20.0\% | 0.0\% | 20.0\% | 0.0\% | 40.0\% | 0.0\% | 20.0\% | 6.2 | 2.3 | 0.0\% | 5 |
| Quality of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 40.0\% | 0.0\% | 60.0\% | 0.0\% | 0.0\% | 6.2 | 1.1 | 0.0\% | 5 |
| Number of boat launches | 0.0\% | 0.0\% | 14.3\% | 0.0\% | 28.6\% | 14.3\% | 42.9\% | 0.0\% | 0.0\% | 5.7 | 1.5 | 0.0\% | 7 |
| Quality of boat launches | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 66.7\% | 0.0\% | 33.3\% | 0.0\% | 0.0\% | 5.7 | 1.0 | 0.0\% | 6 |
| Quality of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 66.7\% | 0.0\% | 33.3\% | 0.0\% | 0.0\% | 5.7 | 1.2 | 25.0\% | 4 |
| Quality of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 60.0\% | 20.0\% | 20.0\% | 0.0\% | 0.0\% | 5.6 | 0.9 | 16.7\% | 6 |
| Number of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 75.0\% | 0.0\% | 25.0\% | 0.0\% | 0.0\% | 5.5 | 1.0 | 20.0\% | 5 |
| Number of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 75.0\% | 0.0\% | 25.0\% | 0.0\% | 0.0\% | 5.5 | 1.0 | 20.0\% | 5 |
| Number of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 80.0\% | 0.0\% | 20.0\% | 0.0\% | 0.0\% | 5.4 | 0.9 | 0.0\% | 5 |
| Quality of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 80.0\% | 0.0\% | 20.0\% | 0.0\% | 0.0\% | 5.4 | 0.9 | 0.0\% | 5 |
| Number of picnic or day use areas | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 50.0\% | 16.7\% | 16.7\% | 0.0\% | 0.0\% | 5.3 | 1.0 | 0.0\% | 6 |
| Quality of picnic or day use areas | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 50.0\% | 16.7\% | 16.7\% | 0.0\% | 0.0\% | 5.3 | 1.0 | 0.0\% | 6 |
| Amount of shoreline available for use | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 66.7\% | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 5.3 | 0.5 | 0.0\% | 6 |
| Number of restrooms/toilets | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 0.0\% | 7 |
| Quality of on-line campground reservation system | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 0.0\% | 3 |
| Level of public recreation development | 0.0\% | 0.0\% | 20.0\% | 0.0\% | 80.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.6 | 0.9 | 0.0\% | 5 |
| Quality of restrooms/toilets | 0.0\% | 0.0\% | 14.3\% | 14.3\% | 71.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.6 | 0.8 | 0.0\% | 7 |
| Cost to use facilities | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 66.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.7 | 2.3 | 25.0\% | 4 |

[^20]Table B.10.22 Wanapum Recreation Area (WSP)

|  | Too High |  |  | About Right |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of hiking trails | 0.0\% | 0.0\% | 5.7\% | 2.9\% | 65.7\% | 5.7\% | 5.7\% | 5.7\% | 8.6\% | 5.5 | 1.5 | 34.0\% | 53 |
| Amount of shoreline available for use | 1.8\% | 0.0\% | 7.3\% | 7.3\% | 49.1\% | 7.3\% | 18.2\% | 3.6\% | 5.5\% | 5.5 | 1.6 | 1.8\% | 56 |
| Number of campsites | 2.4\% | 2.4\% | 0.0\% | 7.3\% | 63.4\% | 2.4\% | 9.8\% | 4.9\% | 7.3\% | 5.4 | 1.6 | 26.8\% | 56 |
| Quality of hiking trails | 0.0\% | 0.0\% | 5.7\% | 2.9\% | 77.1\% | 2.9\% | 2.9\% | 2.9\% | 5.7\% | 5.3 | 1.2 | 35.2\% | 54 |
| Number of swim/sunbathing areas | 0.0\% | 3.8\% | 5.7\% | 1.9\% | 62.3\% | 13.2\% | 9.4\% | 0.0\% | 3.8\% | 5.2 | 1.3 | 5.4\% | 56 |
| Quality of swim/sunbathing areas | 0.0\% | 2.0\% | 3.9\% | 7.8\% | 64.7\% | 9.8\% | 5.9\% | 2.0\% | 3.9\% | 5.2 | 1.2 | 5.6\% | 54 |
| Number of public docks | 0.0\% | 0.0\% | 6.5\% | 3.2\% | 74.2\% | 6.5\% | 3.2\% | 3.2\% | 3.2\% | 5.2 | 1.1 | 42.6\% | 54 |
| Quality of restrooms/toilets | 1.9\% | 0.0\% | 3.8\% | 9.6\% | 63.5\% | 9.6\% | 7.7\% | 0.0\% | 3.8\% | 5.2 | 1.3 | 7.1\% | 56 |
| Number of restrooms/toilets | 1.9\% | 0.0\% | 1.9\% | 1.9\% | 84.6\% | 1.9\% | 3.8\% | 0.0\% | 3.8\% | 5.1 | 1.1 | 5.5\% | 55 |
| Number of boat launches | 0.0\% | 0.0\% | 2.4\% | 4.9\% | 82.9\% | 2.4\% | 7.3\% | 0.0\% | 0.0\% | 5.1 | 0.7 | 25.5\% | 55 |
| Level of public recreation development | 2.0\% | 0.0\% | 2.0\% | 0.0\% | 88.0\% | 2.0\% | 4.0\% | 0.0\% | 2.0\% | 5.1 | 1.0 | 0.0\% | 50 |
| Quality of public docks | 0.0\% | 0.0\% | 9.4\% | 3.1\% | 75.0\% | 6.3\% | 6.3\% | 0.0\% | 0.0\% | 5.0 | 0.9 | 41.8\% | 55 |
| Number of picnic or day use areas | 1.9\% | 0.0\% | 11.3\% | 3.8\% | 73.6\% | 5.7\% | 0.0\% | 1.9\% | 1.9\% | 4.8 | 1.2 | 3.6\% | 55 |
| Cost to use facilities | 0.0\% | 3.8\% | 9.6\% | 9.6\% | 69.2\% | 0.0\% | 1.9\% | 1.9\% | 3.8\% | 4.8 | 1.3 | 7.1\% | 56 |
| Quality of on-line campground reservation system | 2.9\% | 2.9\% | 2.9\% | 11.8\% | 73.5\% | 2.9\% | 0.0\% | 0.0\% | 2.9\% | 4.8 | 1.2 | 35.8\% | 53 |
| Quality of boat launches | 0.0\% | 0.0\% | 9.5\% | 7.1\% | 81.0\% | 2.4\% | 0.0\% | 0.0\% | 0.0\% | 4.8 | 0.7 | 25.0\% | 56 |
| Quality of campsites | 2.3\% | 7.0\% | 2.3\% | 4.7\% | 74.4\% | 9.3\% | 0.0\% | 0.0\% | 0.0\% | 4.7 | 1.1 | 23.2\% | 56 |
| Quality of picnic or day use areas | 3.9\% | 5.9\% | 7.8\% | 7.8\% | 70.6\% | 2.0\% | 2.0\% | 0.0\% | 0.0\% | 4.5 | 1.2 | 1.9\% | 52 |

[^21]Table B.10.23 Wanapum Turbine Park

|  | Too High |  | About Right |  |  |  |  | Too Low |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Level of public recreation development | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 0.0\% | 7 |
| Number of restrooms/toilets | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 0.0\% | 8 |
| Quality of restrooms/toilets | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 0.0\% | 7 |
| Number of picnic or day use areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 14.3\% | 7 |
| Quality of picnic or day use areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 0.0\% | 7 |
| Amount of shoreline available for use | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 16.7\% | 6 |
| Number of boat launches | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 20.0\% | 5 |
| Quality of boat launches | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 50.0\% | 6 |
| Number of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 50.0\% | 6 |
| Quality of swim/sunbathing areas | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 50.0\% | 6 |
| Number of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 50.0\% | 0.0\% | 50.0\% | 0.0\% | 0.0\% | 6.0 | 1.4 | 66.7\% | 6 |
| Quality of hiking trails | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 66.7\% | 6 |
| Number of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 66.7\% | 6 |
| Quality of public docks | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 60.0\% | 5 |
| Number of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 16.7\% | 6 |
| Quality of campsites | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 33.3\% | 6 |
| Cost to use facilities | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 33.3\% | 6 |
| Quality of on-line campground reservation system | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0.0 | 50.0\% | 6 |

[^22]
## Q11 Site-level responses to the question

"Please indicate the extent that the following issues were problems for you during your visit today"

Table B.11.1 Beverly Sand Dunes ORV Park

|  | No Problem |  |  |  |  | Big problem | Mean | SD | DK | N |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Adequate protection from the wind | $60.0 \%$ | $20.0 \%$ | $0.0 \%$ | $0.0 \%$ | $20.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 2.0 | 1.7 | $0.0 \%$ | 5 |
| Disruptive behavior by others | $80.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $20.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.8 | 1.8 | $0.0 \%$ | 5 |
| Adequate safety and security | $60.0 \%$ | $20.0 \%$ | $20.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.6 | 0.9 | $0.0 \%$ | 5 |
| Litter around the reservoir shoreline | $80.0 \%$ | $20.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.2 | 0.4 | $0.0 \%$ | 5 |
| Adequate information/warnings <br> provided | $80.0 \%$ | $20.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.2 | 0.4 | $0.0 \%$ | 5 |

Note: Response Scale: 1= No Problem, $9=$ Big Problem

Table B.11.2 Buckshot Recreation Area

|  | No Problem |  |  |  |  | Big problem | Mean | SD | DK | N |  |  |
| :--- | ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Litter around the reservoir shoreline | $33.3 \%$ | $33.3 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $33.3 \%$ | 4.0 | 4.4 | $0.0 \%$ |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Adequate safety and security | $33.3 \%$ | $33.3 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $33.3 \%$ | 4.0 | 4.4 | $0.0 \%$ |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Adequate protection from the wind | $33.3 \%$ | $33.3 \%$ | $0.0 \%$ | $0.0 \%$ | $33.3 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 2.7 | 2.1 | $0.0 \%$ |
| Adequate information/warnings | $33.3 \%$ | $33.3 \%$ | $0.0 \%$ | $0.0 \%$ | $33.3 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 2.7 | 2.1 | $0.0 \%$ |
| $\quad$ provided | $33.3 \%$ | $33.3 \%$ | $0.0 \%$ | $0.0 \%$ | $33.3 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 2.7 | 2.1 | $0.0 \%$ |
| Disruptive behavior by others | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 5.0 | - | $0.0 \%$ |
| Other |  |  |  |  |  |  |  |  |  |  |  |  |

Note: Response Scale: $1=$ No Problem, $9=$ Big Problem

Table B.11.3 Burkett Lake Recreation Area

|  | No Problem |  |  |  |  | Big problem | Mean | SD | DK | N |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | $0.0 \%$ | $50.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $50.0 \%$ | $0.0 \%$ | 5.0 | 4.2 | $0.0 \%$ | 2 |
| Litter around the reservoir shoreline | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.0 | 0.0 | $0.0 \%$ | 2 |
| Adequate safety and security | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.0 | 0.0 | $0.0 \%$ | 2 |
| Adequate protection from the wind | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.0 | 0.0 | $0.0 \%$ | 2 |
| Adequate information/warnings <br> provided | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.0 | 0.0 | $0.0 \%$ | 2 |

Note: Response Scale: 1= No Problem, 9= Big Problem

## Table B.11.4 CBRA

| No Problem |  |  |  |  |  |  | Big problem |  |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 45.8\% | 6.5\% | 8.5\% | 11.1\% | 15.0\% | 3.9\% | 3.3\% | 3.3\% | 2.6\% | 3.0 | 2.3 | 7.3\% | 165 |
| Litter around the reservoir shoreline | 50.6\% | 13.3\% | 8.2\% | 2.5\% | 11.4\% | 5.7\% | 5.1\% | 2.5\% | 0.6\% | 2.6 | 2.2 | 5.4\% | 167 |
| Adequate information/warnings provided | 55.8\% | 8.8\% | 6.8\% | 6.1\% | 13.6\% | 3.4\% | 1.4\% | 2.0\% | 2.0\% | 2.5 | 2.1 | 8.7\% | 161 |
| Disruptive behavior by others | 58.2\% | 8.9\% | 7.0\% | 4.4\% | 12.0\% | 1.9\% | 3.2\% | 1.9\% | 2.5\% | 2.5 | 2.2 | 3.1\% | 163 |
| Adequate safety and security | 59.1\% | 8.4\% | 6.5\% | 5.2\% | 9.1\% | 3.2\% | 3.9\% | 3.9\% | 0.6\% | 2.5 | 2.2 | 5.5\% | 163 |
| Other | 16.7\% | 0.0\% | 0.0\% | 0.0\% | 25.0\% | 0.0\% | 16.7\% | 0.0\% | 41.7\% | 6.3 | 3.0 | 20.0\% | 15 |

(please specify): Camp reservation sticker info; No boat trailer parking left today at 2.30 pm ; Speed limit surrounding camp areas not monitored; Porta-potty was full; no TP; Bathrooms; Would be nice to know when water is low; Behavior in the park on weekend load not family oriented; Pets off leash running around people, loud/music past 10 pm , campfires during burn ban; Dogs off leash, no available garbage cans.
Note: Response Scale: 1= No Problem, 9= Big Problem

Table B.11.5 Frenchman Coulee Recreation Area

| No Problem |  |  |  |  |  |  |  | Big problem |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 50.0\% | 9.4\% | 3.1\% | 15.6\% | 6.3\% | 9.4\% | 3.1\% | 3.1\% | 0.0\% | 2.8 | 2.2 | 5.9\% | 34 |
| Adequate information/warnings provided | 68.8\% | 9.4\% | 3.1\% | 3.1\% | 9.4\% | 0.0\% | 3.1\% | 0.0\% | 3.1\% | 2.1 | 2.0 | 5.9\% | 34 |
| Litter around the reservoir shoreline | 55.9\% | 26.5\% | 5.9\% | 0.0\% | 5.9\% | 0.0\% | 2.9\% | 2.9\% | 0.0\% | 2.0 | 1.7 | 5.6\% | 36 |
| Disruptive behavior by others | 81.3\% | 9.4\% | 3.1\% | 3.1\% | 0.0\% | 3.1\% | 0.0\% | 0.0\% | 0.0\% | 1.4 | 1.1 | 8.6\% | 35 |
| Adequate safety and security | 78.8\% | 12.1\% | 3.0\% | 6.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4 | 0.8 | 5.7\% | 35 |
| Other | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | - | 50.0\% | 2 |

[^23]Table B.11.6 Huntzinger Road Boat Launch

| No Problem |  |  |  |  |  |  | Big problem |  |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Litter around the reservoir shoreline | 66.7\% | 22.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 11.1\% | 2.1 | 2.6 | 0.0\% | 9 |
| Adequate protection from the wind | 77.8\% | 0.0\% | 11.1\% | 0.0\% | 11.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7 | 1.4 | 0.0\% | 9 |
| Adequate information/warnings provided | 88.9\% | 0.0\% | 0.0\% | 0.0\% | 11.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4 | 1.3 | 0.0\% | 9 |
| Adequate safety and security | 88.9\% | 11.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1 | 0.3 | 0.0\% | 9 |
| Disruptive behavior by others | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | 0.0 | 0.0\% | 9 |

Note: Response Scale: 1= No Problem, 9= Big Problem

Table B.11.7 Jackson Creek Fish Camp

| No Problem |  |  |  |  |  |  | Big problem |  |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 50.0\% | 0.0\% | 0.0\% | 0.0\% | 25.0\% | 25.0\% | 0.0\% | 0.0\% | 0.0\% | 3.3 | 2.6 | 0.0\% | 4 |
| Adequate information/warnings provided | 50.0\% | 0.0\% | 0.0\% | 25.0\% | 25.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.8 | 2.1 | 0.0\% | 4 |
| Disruptive behavior by others | 66.7\% | 0.0\% | 0.0\% | 0.0\% | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3 | 2.3 | 25.0\% | 4 |
| Adequate safety and security | 50.0\% | 25.0\% | 0.0\% | 0.0\% | 25.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3 | 1.9 | 0.0\% | 4 |
| Litter around the reservoir shoreline | 80.0\% | 0.0\% | 0.0\% | 0.0\% | 20.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8 | 1.8 | 0.0\% | 5 |
| Other | 66.7\% | 0.0\% | 0.0\% | 0.0\% | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3 | 2.3 | 0.0\% | 3 |

Note: Response Scale: $1=$ No Problem, $9=$ Big Problem

## Table B.11.8 PRRA

| No Problem |  |  |  |  |  |  | Big problem |  |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 51.8\% | 5.4\% | 7.1\% | 8.9\% | 16.1\% | 0.0\% | 3.6\% | 3.6\% | 3.6\% | 2.9 | 2.4 | 6.7\% | 60 |
| Adequate information/warnings provided | 83.6\% | 5.5\% | 5.5\% | 3.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 1.4 | 1.3 | 9.8\% | 61 |
| Disruptive behavior by others | 89.1\% | 1.8\% | 5.5\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 1.3 | 1.3 | 9.8\% | 61 |
| Litter around the reservoir shoreline | 89.7\% | 5.2\% | 1.7\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 1.7\% | 1.3 | 1.2 | 4.9\% | 61 |
| Adequate safety and security | 91.4\% | 3.4\% | 3.4\% | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 1.2 | 0.8 | 4.9\% | 61 |
| Other | 0.0\% | 60.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 40.0\% | 4.8 | 3.6 | 0.0\% | 10 |
| (please specify): | The beach; swimming area too close to marina; graffiti; washing hands in bathroom. |  |  |  |  |  |  |  |  |  |  |  |  |

Note: Response Scale: 1= No Problem, 9= Big Problem

Table B.11.9 Quilomene Dune \& Bay

| No Problem |  |  |  |  |  |  | Big problem |  |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 35.8\% | 6.3\% | 11.6\% | 9.5\% | 20.0\% | 5.3\% | 7.4\% | 1.1\% | 3.2\% | 3.4 | 2.3 | 7.8\% | 103 |
| Adequate information/warnings provided | 44.2\% | 9.5\% | 9.5\% | 5.3\% | 10.5\% | 4.2\% | 9.5\% | 1.1\% | 6.3\% | 3.2 | 2.6 | 6.9\% | 102 |
| Litter around the reservoir shoreline | 47.6\% | 11.7\% | 9.7\% | 5.8\% | 5.8\% | 4.9\% | 4.9\% | 2.9\% | 6.8\% | 3.0 | 2.6 | 1.0\% | 104 |
| Disruptive behavior by others | 55.4\% | 11.9\% | 5.9\% | 6.9\% | 9.9\% | 2.0\% | 3.0\% | 2.0\% | 3.0\% | 2.5 | 2.2 | 1.9\% | 103 |
| Adequate safety and security | 59.2\% | 11.2\% | 13.3\% | 7.1\% | 3.1\% | 1.0\% | 3.1\% | 1.0\% | 1.0\% | 2.1 | 1.8 | 6.7\% | 105 |
| Other | 60.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 40.0\% | 4.2 | 4.4 | 44.4\% | 9 |

(please specify): $\quad$ Number of motels available \& horrible restaurants, we brought our own this time; Too much warning signage;

Note: Response Scale: 1= No Problem, $9=$ Big Problem
Table B.11.10 Rattlesnake Cove

| No Problem |  |  |  |  |  |  | Big problem |  |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Disruptive behavior by others | 90.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.0\% | 0.0\% | 1.7 | 2.2 | 9.1\% | 11 |
| Adequate protection from the wind | 66.7\% | 11.1\% | 11.1\% | 11.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7 | 1.1 | 18.2\% | 11 |
| Adequate information/warnings provided | 80.0\% | 0.0\% | 20.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.4 | 0.8 | 9.1\% | 11 |
| Adequate safety and security | 90.0\% | 10.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.1 | 0.3 | 9.1\% | 11 |
| Litter around the reservoir shoreline | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | 0.0 | 9.1\% | 11 |
| Other | - | - | - | - | - | - | - | - | - | - | - | 100.0\% | 1 |
| (please specify): | Too man | $y$ peopl | for a sm | all comm | unity |  |  |  |  |  |  |  |  |

Note: Response Scale: $1=$ No Problem, $9=$ Big Problem
Table B.11.11 Riverstone Resort

| No Problem |  |  |  |  |  |  | Big problem |  |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 44.4\% | 11.1\% | 22.2\% | 11.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 11.1\% | 2.8 | 2.6 | 10.0\% | 10 |
| Adequate information/warnings provided | 87.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 1.6 | 1.8 | 20.0\% | 10 |
| Litter around the reservoir shoreline | 88.9\% | 0.0\% | 11.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2 | 0.7 | 10.0\% | 10 |
| Adequate safety and security | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | 0.0 | 10.0\% | 10 |
| Disruptive behavior by others | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | 0.0 | 20.0\% | 10 |
| Other | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 |  | 50.0\% | 2 |

Note: Response Scale: 1= No Problem, 9= Big Problem

Table B.11.12 Rocky Coulee

| No Problem |  |  |  |  |  |  | Big problem |  |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 67.7\% | 6.5\% | 0.0\% | 3.2\% | 6.5\% | 6.5\% | 6.5\% | 3.2\% | 0.0\% | 2.4 | 2.3 | 11.4\% | 35 |
| Adequate information/warnings provided | 72.7\% | 15.2\% | 3.0\% | 0.0\% | 3.0\% | 3.0\% | 3.0\% | 0.0\% | 0.0\% | 1.7 | 1.5 | 5.7\% | 35 |
| Adequate safety and security | 90.3\% | 6.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 3.2\% | 0.0\% | 0.0\% | 1.3 | 1.1 | 11.4\% | 35 |
| Litter around the reservoir shoreline | 90.9\% | 3.0\% | 6.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2 | 0.5 | 5.7\% | 35 |
| Disruptive behavior by others | 96.3\% | 3.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | 0.2 | 20.6\% | 34 |
| Other | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.0 | - | 50.0\% | 2 |
| (please specify): | Direct |  |  |  |  |  |  |  |  |  |  |  |  |

Note: Response Scale: 1= No Problem, 9= Big Problem
Table B.11.13 Sand Hollow

| No Problem |  |  |  |  |  |  |  | Big problem |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Litter around the reservoir shoreline | 66.7\% | 12.1\% | 6.1\% | 3.0\% | 3.0\% | 6.1\% | 3.0\% | 0.0\% | 0.0\% | 1.9 | 1.7 | 0.0\% | 33 |
| Adequate safety and security | 66.7\% | 6.7\% | 13.3\% | 0.0\% | 0.0\% | 3.3\% | 3.3\% | 0.0\% | 6.7\% | 2.2 | 2.4 | 3.2\% | 31 |
| Adequate protection from the wind | 51.7\% | 3.4\% | 10.3\% | 0.0\% | 3.4\% | 0.0\% | 6.9\% | 6.9\% | 17.2\% | 3.7 | 3.4 | 0.0\% | 29 |
| Adequate information/warnings provided | 57.1\% | 10.7\% | 10.7\% | 3.6\% | 7.1\% | 7.1\% | 0.0\% | 0.0\% | 3.6\% | 2.4 | 2.1 | 6.7\% | 30 |
| Disruptive behavior by others | 80.0\% | 0.0\% | 10.0\% | 0.0\% | 3.3\% | 0.0\% | 3.3\% | 0.0\% | 3.3\% | 1.8 | 1.9 | 3.2\% | 31 |
| Other | 25.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 75.0\% | 7.0 | 4.0 | 0.0\% | 4 |
| (please specify): | D h | ed | eave | lone, | sel | ice; D | elo | nt; D | ptiv | avior |  | mploy |  |

Note: Response Scale: $1=$ No Problem, $9=$ Big Problem

Table B.11.14 Sunland Boat Launch

| No Problem |  |  |  |  |  |  | Big problem |  |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 73.7\% | 0.0\% | 0.0\% | 0.0\% | 15.8\% | 0.0\% | 10.5\% | 0.0\% | 0.0\% | 2.3 | 2.2 | 0.0\% | 19 |
| Disruptive behavior by others | 66.7\% | 4.8\% | 9.5\% | 4.8\% | 4.8\% | 0.0\% | 4.8\% | 0.0\% | 4.8\% | 2.2 | 2.3 | 0.0\% | 21 |
| Litter around the reservoir shoreline | 73.7\% | 10.5\% | 0.0\% | 5.3\% | 5.3\% | 0.0\% | 0.0\% | 0.0\% | 5.3\% | 1.9 | 2.1 | 0.0\% | 19 |
| Adequate safety and security | 81.0\% | 4.8\% | 0.0\% | 4.8\% | 4.8\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 1.8 | 2.0 | 0.0\% | 21 |
| Adequate information/warnings provided | 78.9\% | 5.3\% | 0.0\% | 5.3\% | 10.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6 | 1.4 | 0.0\% | 19 |
| Other | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | - | 0.0\% | 1 |
| (please specify): | Noisy m | ic; Con |  |  |  |  |  |  |  |  |  |  |  |

Note: Response Scale: 1= No Problem, 9= Big Problem

Table B.11.15 Sunland Picnic Area

| No Problem |  |  |  |  |  |  | Big problem |  |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate information/warnings provided | 71.4\% | 0.0\% | 0.0\% | 0.0\% | 28.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1 | 2.0 | 12.5\% | 8 |
| Disruptive behavior by others | 75.0\% | 0.0\% | 0.0\% | 0.0\% | 12.5\% | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 2.1 | 2.1 | 0.0\% | 8 |
| Litter around the reservoir shoreline | 62.5\% | 12.5\% | 12.5\% | 0.0\% | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9 | 1.5 | 0.0\% | 8 |
| Adequate protection from the wind | 62.5\% | 12.5\% | 12.5\% | 0.0\% | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9 | 1.5 | 0.0\% | 8 |
| Adequate safety and security | 75.0\% | 12.5\% | 0.0\% | 0.0\% | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.6 | 1.4 | 0.0\% | 8 |
| Other | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | - | 0.0\% | 1 |

Note: Response Scale: $1=$ No Problem, $9=$ Big Problem

Table B.11.16 The Cove

| No Problem |  |  |  |  |  |  | Big problem |  |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 50.0\% | 0.0\% | 16.7\% | 16.7\% | 0.0\% | 0.0\% | 16.7\% | 0.0\% | 0.0\% | 2.8 | 2.4 | 0.0\% | 6 |
| Litter around the reservoir shoreline | 83.3\% | 0.0\% | 16.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3 | 0.8 | 0.0\% | 6 |
| Adequate safety and security | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | 0.0 | 0.0\% | 6 |
| Adequate information/warnings provided | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | 0.0 | 0.0\% | 6 |
| Disruptive behavior by others | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | 0.0 | 16.7\% | 6 |
| Other | 50.0\% | 50.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5 | 0.7 | 0.0\% | 2 |
| (please specify): | No boat | aunch |  |  |  |  |  |  |  |  |  |  |  |

Note: Response Scale: 1= No Problem, 9= Big Problem

Table B.11.17 Vantage Boat Launch

|  | No Problem |  |  |  |  |  | Big problem | Mean | SD | DK | N |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | $54.8 \%$ | $4.8 \%$ | $4.8 \%$ | $9.7 \%$ | $11.3 \%$ | $4.8 \%$ | $4.8 \%$ | $1.6 \%$ | $3.2 \%$ | 2.8 | 2.4 | $7.5 \%$ |
| 67 |  |  |  |  |  |  |  |  |  |  |  |  |
| Litter around the reservoir shoreline | $80.3 \%$ | $6.1 \%$ | $0.0 \%$ | $4.5 \%$ | $1.5 \%$ | $7.6 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.6 | 1.5 | $5.7 \%$ |
| Adequate information/warnings | $80.3 \%$ | $6.6 \%$ | $6.6 \%$ | $1.6 \%$ | $3.3 \%$ | $0.0 \%$ | $1.6 \%$ | $0.0 \%$ | $0.0 \%$ | 1.5 | 1.2 | $10.3 \%$ |
| $\quad$ provided | $85.5 \%$ | $8.1 \%$ | $1.6 \%$ | $0.0 \%$ | $3.2 \%$ | $0.0 \%$ | $1.6 \%$ | $0.0 \%$ | $0.0 \%$ | 1.3 | 1.1 | $7.5 \%$ |
| Disruptive behavior by others | $85.5 \%$ | $9.7 \%$ | $0.0 \%$ | $1.6 \%$ | $3.2 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.3 | 0.8 | $7.5 \%$ |
| Adequate safety and security | $80.0 \%$ | $20.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.2 | 0.4 | $16.7 \%$ |
| Other |  |  |  |  |  |  |  |  |  |  |  |  |

[^24]Table B.11.18 Wanapum Dam Lower Boat Launch

| No Problem |  |  |  |  |  |  | Big problem |  |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 45.0\% | 5.0\% | 5.0\% | 0.0\% | 25.0\% | 20.0\% | 0.0\% | 0.0\% | 0.0\% | 3.2 | 2.2 | 4.8\% | 1 |
| Adequate information/warnings provided | 65.0\% | 5.0\% | 10.0\% | 5.0\% | 10.0\% | 5.0\% | 0.0\% | 0.0\% | 0.0\% | 2.1 | 1.7 | 4.8\% | 21 |
| Litter around the reservoir shoreline | 70.0\% | 10.0\% | 5.0\% | 5.0\% | 5.0\% | 5.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8 | 1.5 | 4.8\% | 21 |
| Disruptive behavior by others | 81.0\% | 4.8\% | 0.0\% | 4.8\% | 4.8\% | 0.0\% | 0.0\% | 0.0\% | 4.8\% | 1.8 | 2.0 | 0.0\% | 21 |
| Adequate safety and security | 71.4\% | 9.5\% | 4.8\% | 4.8\% | 9.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7 | 1.3 | 0.0\% | 21 |
| Other | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 9.0 | 0.0 | 0.0\% | 2 |
| (please specify): | Please provide more education on life jackets. With the Dam creating all the currents I don't believe how few life jackets I saw. Sad! |  |  |  |  |  |  |  |  |  |  |  |  |

Note: Response Scale: 1= No Problem, 9= Big Problem

Table B.11.19 Wanapum Dam Overlook

|  | No Problem |  |  |  |  | Big problem | Mean | SD | DK | N |  |  |
| :--- | ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Disruptive behavior by others | $71.4 \%$ | $14.3 \%$ | $0.0 \%$ | $0.0 \%$ | $7.1 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $7.1 \%$ | 2.0 | 2.3 | $12.5 \%$ |

Note: Response Scale: 1= No Problem, 9= Big Problem

Table B.11.20 Wanapum Dam Upper Boat Launch

| No Problem |  |  |  |  |  |  | Big problem |  |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 50.0\% | 16.7\% | 0.0\% | 16.7\% | 0.0\% | 0.0\% | 16.7\% | 0.0\% | 0.0\% | 2.7 | 2.4 | 0.0\% | 6 |
| Adequate information/warnings provided | 83.3\% | 16.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2 | 0.4 | 0.0\% | 6 |
| Litter around the reservoir shoreline | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | 0.0 | 0.0\% | 6 |
| Adequate safety and security | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | 0.0 | 0.0\% | 6 |
| Disruptive behavior by others | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | 0.0 | 0.0\% | 6 |
| Other | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.0 | - | 0.0\% | 1 |

[^25]Table B.11.21 Wanapum Recreation Area (WSP)

| No Problem |  |  |  |  |  |  |  | Big problem |  | Mean | SD | DK | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adequate protection from the wind | 58.8\% | 5.9\% | 9.8\% | 2.0\% | 13.7\% | 2.0\% | 2.0\% | 0.0\% | 5.9\% | 2.5 | 2.3 | 7.3\% | 55 |
| Disruptive behavior by others | 71.2\% | 5.8\% | 1.9\% | 1.9\% | 5.8\% | 1.9\% | 5.8\% | 3.8\% | 1.9\% | 2.3 | 2.3 | 5.5\% | 55 |
| Litter around the reservoir shoreline | 79.2\% | 5.7\% | 1.9\% | 0.0\% | 1.9\% | 3.8\% | 7.5\% | 0.0\% | 0.0\% | 1.8 | 1.9 | 3.6\% | 55 |
| Adequate information/warnings provided | 75.5\% | 7.5\% | 5.7\% | 1.9\% | 3.8\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 1.7 | 1.6 | 3.6\% | 55 |
| Adequate safety and security | 83.0\% | 7.5\% | 1.9\% | 0.0\% | 0.0\% | 5.7\% | 0.0\% | 0.0\% | 1.9\% | 1.5 | 1.6 | 3.6\% | 55 |
| Other | - | - | - | - | - | - | - | - | - | - | - | 100.0\% | 2 |
| (please specify): | Glass in | water |  |  |  |  |  |  |  |  |  |  |  |

Note: Response Scale: 1= No Problem, 9= Big Problem

Table B.11.22 Wanapum Turbine Park

|  | No Problem |  |  |  |  | Big problem | Mean | SD | DK | N |  |  |
| :--- | :---: | ---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Adequate protection from the wind | $71.4 \%$ | $14.3 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $14.3 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.9 | 1.9 | $12.5 \%$ |

Note: Response Scale: 1= No Problem, $9=$ Big Problem

## Q12 Site-level responses to the question

"Help us understand crowding issues by answering the following questions. (mark one response for each item)"

Table B.12.1 Beverly Sand Dunes ORV Park

| Not at all crowded |  |  |  |  |  |  | Extremely crowded |  |  | Mean | SD | DK/NA | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | - | 0.0\% | 5 |
| How crowded did you expect to feel today? | 20.0\% | 20.0\% | 20.0\% | 0.0\% | 0.0\% | 20.0\% | 0.0\% | 0.0\% | 20.0\% | 4.2 | 3.3 | 0.0\% | 5 |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded

Table B.12.2 Buckshot Recreation Area

| Not at all crowded |  |  |  |  |  |  | Extremely crowded |  |  | Mean | SD | DK/NA | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | 33.3\% | 66.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7 | 0.6 | 0.0\% | 3 |
| How crowded did you expect to feel today? | 0.0\% | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 33.3\% | 33.3\% | 6.3 | 3.8 | 0.0\% | 3 |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded

Table B.12.3 Burkett Lake Recreation Area

|  | Not at all crowded |  |  |  | Extremely crowded | Mean | SD | DK/NA | N |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you <br> feel today? | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.0 |  | $0.0 \%$ | 3 |
| How crowded did you <br> expect to feel | $66.7 \%$ | $33.3 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.3 | 0.6 | $0.0 \%$ |  |
| today? |  |  |  |  |  |  |  |  |  |  |  |  |  |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded

## Table B.12.4 CBRA

|  | Not at all crowded |  |  | Extremely crowded | Mean | SD | DK/NA | N |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| How crowded did you <br> feel today? | $45.1 \%$ | $15.6 \%$ | $8.7 \%$ | $9.2 \%$ | $2.9 \%$ | $11.6 \%$ | $2.9 \%$ | $2.3 \%$ | $1.7 \%$ | 2.8 | 2.2 | $0.0 \%$ |
| How crowded did you <br> expect to feel | $20.4 \%$ | $12.0 \%$ | $4.2 \%$ | $19.2 \%$ | $9.0 \%$ | $20.4 \%$ | $4.2 \%$ | $6.0 \%$ | $4.8 \%$ | 4.2 | 2.4 | $2.3 \%$ |
| today? |  |  |  |  |  |  |  |  |  |  |  |  |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded
Table B.12.5 Frenchman Coulee Recreation Area

|  | Not at all crowded |  |  |  | Extremely crowded | Mean | SD | DK/NA | N |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| How crowded did you <br> feel today? | $65.7 \%$ | $22.9 \%$ | $5.7 \%$ | $2.9 \%$ | $0.0 \%$ | $2.9 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.6 | 1.1 | $0.0 \%$ |
| How crowded did you <br> expect to feel <br> today? | $35.3 \%$ | $17.6 \%$ | $11.8 \%$ | $17.6 \%$ | $8.8 \%$ | $8.8 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 2.7 | 1.7 | $2.9 \%$ |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded
Table B.12.6 Huntzinger Road Boat Launch

|  | Not at all crowded |  |  |  | Extremely crowded | Mean | SD | DK/NA | N |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| How crowded did you <br> feel today? | $88.9 \%$ | $11.1 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.1 | 0.3 | $0.0 \%$ | 9 |
| How crowded did you <br> expect to feel today? | $12.5 \%$ | $0.0 \%$ | $12.5 \%$ | $12.5 \%$ | $25.0 \%$ | $12.5 \%$ | $12.5 \%$ | $12.5 \%$ | $0.0 \%$ | 4.9 | 2.2 | $0.0 \%$ | 8 |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded
Table B.12.7 Jackson Creek Fish Camp

| Not at all crowded |  |  |  |  |  |  | Extremely crowded |  |  | Mean | SD | DK/NA | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | - | 0.0\% | 5 |
| How crowded did you expect to feel today? | 80.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 20.0\% | 0.0\% | 2.4 | 3.1 | 0.0\% | 5 |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded

## Table B.12.8 PRRA

|  | Not at all crowded |  |  |  | Extremely crowded | Mean | SD | DK/NA | N |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| How crowded did you <br> feel today? | $76.7 \%$ | $11.7 \%$ | $5.0 \%$ | $5.0 \%$ | $0.0 \%$ | $1.7 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.5 | 1.0 | $0.0 \%$ |
| How crowded did you <br> expect to feel <br> today? | $39.7 \%$ | $12.1 \%$ | $13.8 \%$ | $19.0 \%$ | $3.4 \%$ | $6.9 \%$ | $3.4 \%$ | $1.7 \%$ | $0.0 \%$ | 2.8 | 1.9 | $1.7 \%$ |

Note: Response Scale: $1=$ Not at all Crowded, $9=$ Extremely Crowded
Table B.12.9 Quilomene Dune \& Bay

|  | Not at all crowded |  |  | Extremely crowded | Mean | SD | DK/NA | N |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| How crowded did you <br> feel today? | $37.0 \%$ | $18.5 \%$ | $9.3 \%$ | $16.7 \%$ | $1.9 \%$ | $10.2 \%$ | $2.8 \%$ | $1.9 \%$ | $1.9 \%$ | 2.9 | 2.1 | $0.0 \%$ |
| How crowded did you <br> expect to feel | $20.6 \%$ | $7.5 \%$ | $7.5 \%$ | $13.1 \%$ | $6.5 \%$ | $22.4 \%$ | $5.6 \%$ | $8.4 \%$ | $8.4 \%$ | 4.6 | 2.6 | $0.9 \%$ |
| today? |  |  |  |  |  |  |  |  |  |  |  |  |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded
Table B.12.10 Rattlesnake Cove

|  | Not at all crowded |  |  |  |  |  | Extremely crowded |  |  | Mean | SD | DK/NA | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | 63.6\% | 18.2\% | 18.2\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.5 | 0.8 | 0.0\% | 11 |
| How crowded did you expect to feel today? | 18.2\% | 9.1\% | 9.1\% | 18.2\% | 9.1\% | 36.4\% | 0.0\% | 0.0\% | 0.0\% | 4.0 | 2.0 | 0.0\% | 11 |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded
Table B.12.11 Riverstone Resort

|  | Not at all crowded |  |  |  |  |  | Extremely crowded |  |  | Mean | SD | DK/NA | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | 81.8\% | 9.1\% | 9.1\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.3 | 0.6 | 0.0\% | 11 |
| How crowded did you expect to feel today? | 12.5\% | 12.5\% | 12.5\% | 0.0\% | 12.5\% | 25.0\% | 25.0\% | 0.0\% | 0.0\% | 4.6 | 2.3 | 20.0\% | 10 |

Note: Response Scale: $1=$ Not at all Crowded, $9=$ Extremely Crowded

Table B.12.12 Rocky Coulee

|  | Not at all crowded |  |  |  |  | Extremely crowded | Mean | SD | DK/NA | N |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| How crowded did you <br> feel today? | $63.6 \%$ | $15.2 \%$ | $18.2 \%$ | $0.0 \%$ | $0.0 \%$ | $3.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.7 | 1.1 | $2.9 \%$ |$\quad 34$

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded
Table B.12.13 Sand Hollow

| Not at all crowded |  |  |  |  |  |  | Extremely crowded |  |  | Mean | SD | DK/NA | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | 81.8\% | 9.1\% | 3.0\% | 0.0\% | 0.0\% | 6.1\% | 0.0\% | 0.0\% | 0.0\% | 1.5 | 1.3 | 0.0\% | 33 |
| How crowded did you expect to feel today? | 43.3\% | 10.0\% | 3.3\% | 6.7\% | 3.3\% | 13.3\% | 13.3\% | 3.3\% | 3.3\% | 3.5 | 2.7 | 3.2\% | 31 |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded
Table B.12.14 Sunland Boat Launch

|  | Not at all crowded |  |  |  |  |  | Extremely crowded |  |  | Mean | SD | DK/NA | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | 57.1\% | 28.6\% | 4.8\% | 4.8\% | 4.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.7 | 1.1 | 8.7\% | 23 |
| How crowded did you expect to feel today? | 35.0\% | 10.0\% | 15.0\% | 20.0\% | 5.0\% | 15.0\% | 0.0\% | 0.0\% | 0.0\% | 3.0 | 1.8 | 9.1\% | 22 |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded
Table B.12.15 Sunland Picnic Area

| Not at all crowded |  |  |  |  |  |  | Extremely crowded |  |  | Mean | SD | DK/NA | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | 62.5\% | 12.5\% | 0.0\% | 25.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.9 | 1.4 | 0.0\% | 8 |
| How crowded did you expect to feel today? | 25.0\% | 12.5\% | 25.0\% | 25.0\% | 0.0\% | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 3.0 | 1.7 | 0.0\% | 8 |

[^26]Table B.12.16 The Cove

|  | Not at all crowded |  |  |  |  | Extremely crowded | Mean | SD | DK/NA | N |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| How crowded did you <br> feel today? | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.0 | - | $0.0 \%$ |$\quad 6$

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded

## Table B.12.17 Vantage Boat Launch

| Not at all crowded |  |  |  |  |  |  | Extremely crowded |  |  | Mean | SD | DK/NA | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | 72.5\% | 14.5\% | 4.3\% | 7.2\% | 0.0\% | 1.4\% | 0.0\% | 0.0\% | 0.0\% | 1.5 | 1.0 | 2.8\% | 71 |
| How crowded did you expect to feel today? | 35.9\% | 12.5\% | 4.7\% | 12.5\% | 9.4\% | 20.3\% | 1.6\% | 3.1\% | 0.0\% | 3.3 | 2.2 | 5.9\% | 68 |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded
Table B.12.18 Wanapum Dam Lower Boat Launch

|  | Not at all crowded |  |  |  |  |  | Extremely crowded | Mean | SD | DK/NA | N |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you <br> feel today? | $60.0 \%$ | $15.0 \%$ | $10.0 \%$ | $10.0 \%$ | $0.0 \%$ | $5.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 1.9 | 1.4 | $4.8 \%$ | 21 |
| How crowded did you <br> expect to feel tod | $20.0 \%$ | $10.0 \%$ | $15.0 \%$ | $30.0 \%$ | $0.0 \%$ | $15.0 \%$ | $5.0 \%$ | $5.0 \%$ | $0.0 \%$ | 3.7 | 2.1 | $0.0 \%$ | 20 |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded
Table B.12.19 Wanapum Dam Overlook

| Not at all crowded |  |  |  |  |  |  | Extremely crowded |  |  | Mean | SD | DK/NA | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | 68.8\% | 12.5\% | 0.0\% | 6.3\% | 0.0\% | 12.5\% | 0.0\% | 0.0\% | 0.0\% | 1.9 | 1.8 | 5.9\% | 17 |
| How crowded did you expect to feel today? | 58.8\% | 0.0\% | 11.8\% | 11.8\% | 0.0\% | 5.9\% | 5.9\% | 5.9\% | 0.0\% | 2.6 | 2.4 | 0.0\% | 17 |

Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded

Table B.12.20 Wanapum Dam Upper Boat Launch

| Not at all crowded |  |  |  |  |  |  | Extremely crowded |  |  | $\begin{array}{r} \hline \text { Mean } \\ 2.0 \end{array}$ | $\begin{gathered} \mathrm{SD} \\ \hline 2.0 \end{gathered}$ | $\begin{array}{r} \hline \text { DK/NA } \\ 0.0 \% \end{array}$ | N6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | 66.7\% | 16.7\% | 0.0\% | 0.0\% | 0.0\% | 16.7\% | 0.0\% | 0.0\% | 0.0\% |  |  |  |  |
| How crowded did you expect to feel today? | 50.0\% | 33.3\% | 0.0\% | 16.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.8 | 1.2 | 0.0\% | 6 |

Table B.12.21 Wanapum Recreation Area (WSP)

| Not at all crowded |  |  |  |  |  |  | Extremely crowded |  |  | Mean | SD | DK/NA | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | 47.3\% | 9.1\% | 1.8\% | 23.6\% | 7.3\% | 3.6\% | 7.3\% | 0.0\% | 0.0\% | 2.7 | 2.0 | 0.0\% | 55 |
| How crowded did you expect to feel today? | 24.1\% | 7.4\% | 14.8\% | 33.3\% | 5.6\% | 13.0\% | 1.9\% | 0.0\% | 0.0\% | 3.4 | 1.7 | 1.8\% | 55 |

Table B.12.22 Wanapum Turbine Park

| Not at all crowded |  |  |  |  |  |  | Extremely crowded |  |  | Mean | SD | DK/NA | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| How crowded did you feel today? | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.0 | - | 12.5\% | 8 |
| How crowded did you expect to feel today? | 57.1\% | 0.0\% | 14.3\% | 14.3\% | 0.0\% | 14.3\% | 0.0\% | 0.0\% | 0.0\% | 2.4 | 2.0 | 12.5\% | 8 |

## Q13.a Site-level responses to the question

"If you used the area shown in Photo A, what is the maximum number of people you think could use the recreation site pictured at any one time without you feeling too crowded? "

Table B.13.a Maximum number of people that could use the recreation site

| Site | Number of people |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\leq 20$ | 21-40 | 41-60 | 61-80 | 81-100 | $>100$ | Min | Max | Mean | SD | N |
| Beverly Sand Dunes ORV Park | 40\% | 20\% | 0\% | 0\% | 40\% | 0\% | 6 | 100 | 51.2 | 45.4 | 5 |
| Buckshot Recreation Area | 50\% | 0\% | 0\% | 0\% | 0\% | 50\% | 6 | 1000 | 503.0 | 702.9 | 2 |
| Burkett Lake Recreation Area | 100\% | 0\% | 0\% | 0\% | 0\% | 0\% | 3 | 8 | 5.7 | 2.5 | 3 |
| CBRA | 29\% | 12\% | 7\% | 7\% | 15\% | 30\% | 1 | 1000 | 128.2 | 186.7 | 136 |
| Frenchman Coulee Recreation Area | 52\% | 26\% | 13\% | 0\% | 0\% | 10\% | 5 | 500 | 51.4 | 95.2 | 31 |
| Huntzinger Road Boat Launch | 33\% | 17\% | 33\% | 0\% | 17\% | 0\% | 15 | 100 | 44.2 | 31.8 | 6 |
| Huntzinger Road Fishing Access Site | 100\% | 0\% | 0\% | 0\% | 0\% | 0\% | 2 | 8 | 5.3 | 3.1 | 3 |
| Jackson Creek Fish Camp | 100\% | 0\% | 0\% | 0\% | 0\% | 0\% | 4 | 20 | 14.7 | 9.2 | 3 |
| PRRA | 54\% | 10\% | 17\% | 4\% | 8\% | 6\% | 1 | 300 | 41.3 | 56.5 | 48 |
| Quilomene Dune \& Bay | 2\% | 1\% | 7\% | 1\% | 16\% | 73\% | 3 | 8000 | 637.0 | 1115.6 | 91 |
| Rattlesnake Cove | 56\% | 22\% | 11\% | 0\% | 0\% | 11\% | 5 | 300 | 55.2 | 92.8 | 9 |
| Riverstone Resort | 10\% | 10\% | 30\% | 0\% | 0\% | 50\% | 20 | 500 | 170.2 | 183.9 | 10 |
| Rocky Coulee | 41\% | 24\% | 24\% | 7\% | 3\% | 0\% | 1 | 100 | 35.4 | 23.5 | 29 |
| Sand Hollow | 43\% | 23\% | 3\% | 3\% | 17\% | 10\% | 4 | 400 | 59.8 | 81.7 | 30 |
| Sunland Boat Launch | 21\% | 32\% | 32\% | 5\% | 11\% | 0\% | 4 | 100 | 43.6 | 26.5 | 19 |
| Sunland Picnic Area | 14\% | 0\% | 29\% | 14\% | 14\% | 29\% | 13 | 200 | 98.3 | 74.4 | 7 |
| The Cove | 17\% | 33\% | 17\% | 0\% | 17\% | 17\% | 20 | 200 | 75.8 | 66.8 | 6 |
| Vantage Boat Launch | 14\% | 10\% | 24\% | 17\% | 22\% | 12\% | 2 | 300 | 73.4 | 53.6 | 58 |
| Wanapum Dam Lower Boat Launch | 31\% | 15\% | 46\% | 8\% | 0\% | 0\% | 3 | 70 | 37.5 | 22.0 | 13 |
| Wanapum Dam Overlook | 67\% | 25\% | 0\% | 0\% | 0\% | 8\% | 6 | 260 | 37.3 | 70.8 | 12 |
| Wanapum Dam Upper Boat Launch | 100\% | 0\% | 0\% | 0\% | 0\% | 0\% | 1 | 20 | 11.0 | 9.5 | 3 |
| Wanapum Recreation Area (WSP) | 12\% | 13\% | 17\% | 12\% | 17\% | 29\% | 3 | 800 | 116.3 | 134.8 | 52 |
| Wanapum Turbine Park | 14\% | 29\% | 57\% | 0\% | 0\% | 0\% | 20 | 50 | 41.4 | 12.1 | 7 |

## Q13.b Site-level responses to the question

"What is the maximum number of people that you saw actually using the recreation site pictured at any one time during your visit today?"
Table B.13.b Maximum number of people that you saw actually using the recreation site

| Site | Number of people |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | $1 \leq 20$ | 21-40 | 41-60 | 61-80 | 81-100 | $>100$ | DK | Min | Max | Mean | SD | N |
| Beverly Sand Dunes ORV Park | 33\% | 67\% | 0\% | 0\% | 0\% | 0\% | 0\% | - | 0 | 10 | 4.3 | 5.1 | 3 |
| Buckshot Recreation Area | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 0\% |  | 3 | 3 | 3.0 |  | 1 |
| Burkett Lake Recreation Area | 33\% | 67\% | 0\% | 0\% | 0\% | 0\% | 0\% | - | 0 | 4 | 2.3 | 2.1 | 3 |
| CBRA | 1\% | 39\% | 16\% | 10\% | 4\% | 11\% | 18\% | 17.9\% | 0 | 1500 | 82.4 | 155.4 | 125 |
| Frenchman Coulee Recreation Area | 6\% | 94\% | 0\% | 0\% | 0\% | 0\% | 0\% | 8.6\% | 0 | 20 | 6.2 | 4.5 | 31 |
| Huntzinger Road Boat Launch | 20\% | 80\% | 0\% | 0\% | 0\% | 0\% | 0\% | - | 0 | 8 | 4.60 | 3.0 | 5 |
| Huntzinger Road Fishing Access Site | 50\% | 50\% | 0\% | 0\% | 0\% | 0\% | 0\% | - | 0 | 4 | 2.00 | 2.8 | 2 |
| Jackson Creek Fish Camp | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 0\% | 40.0\% | 1 | 1 | 1.0 | 0.0 | 2 |
| PRRA | 8\% | 75\% | 15\% | 2\% | 0\% | 0\% | 0\% | 7.1\% | 0 | 50 | 11.4 | 12.1 | 48 |
| Quilomene Dune \& Bay | 0\% | 8\% | 8\% | 14\% | 7\% | 17\% | 45\% | 13.5\% | 10 | 3000 | 266.9 | 433.5 | 86 |
| Rattlesnake Cove | 0\% | 78\% | 11\% | 11\% | 0\% | 0\% | 0\% | 12.5\% | 4 | 60 | 16.2 | 18.3 | 9 |
| Riverstone Resort | 0\% | 89\% | 0\% | 11\% | 0\% | 0\% | 0\% | 9.1\% | 3 | 50 | 15.4 | 14.5 | 9 |
| Rocky Coulee | 19\% | 81\% | 0\% | 0\% | 0\% | 0\% | 0\% | 11.1\% | 0 | 15 | 4.8 | 4.3 | 27 |
| Sand Hollow | 7\% | 70\% | 10\% | 10\% | 0\% | 0\% | 3\% | 6.3\% | 0 | 500 | 31.5 | 89.6 | 30 |
| Sunland Boat Launch | 0\% | 90\% | 5\% | 0\% | 5\% | 0\% | 0\% | 13.3\% | 2 | 75 | 13.3 | 16.1 | 20 |
| Sunland Picnic Area | 13\% | 63\% | 13\% | 13\% | 0\% | 0\% | 0\% | - | 0 | 50 | 18.9 | 17.7 | 8 |
| The Cove | 0\% | 100\% | 0\% | 0\% | 0\% | 0\% | 0\% | - | 1 | 2 | 1.5 | 0.5 | 6 |
| Vantage Boat Launch | 2\% | 82\% | 5\% | 7\% | 2\% | 0\% | 2\% | 7.8\% | 0 | 200 | 18.0 | 28.7 | 57 |
| Wanapum Dam Lower Boat Launch | 0\% | 92\% | 8\% | 0\% | 0\% | 0\% | 0\% | 7.7\% | 2 | 30 | 8.2 | 7.9 | 12 |
| Wanapum Dam Overlook | 10\% | 90\% | 0\% | 0\% | 0\% | 0\% | 0\% | 12.5\% | 0 | 13 | 5.4 | 4.8 | 10 |
| Wanapum Dam Upper Boat Launch | 33\% | 67\% | 0\% | 0\% | 0\% | 0\% | 0\% | 25.0\% | 0 | 8 | 4.0 | 4.0 | 3 |
| Wanapum Recreation Area (WSP) | 2\% | 47\% | 16\% | 9\% | 2\% | 7\% | 18\% | 18.2\% | 0 | 250 | 52.73 | 61.1 | 45 |
| Wanapum Turbine Park | 57\% | 43\% | 0\% | 0\% | 0\% | 0\% | 0\% |  | 0 | 8 | 1.86 | 3.0 | 7 |

## Q14 Site-level responses to the question

"Please estimate how much money you and your party will spend TODAY while on this trip (e.g., fuel, lodging, restaurants, groceries, admissions, fees, outdoor gear, etc.)."

Table B. 14 Current day trip Expenditure

| Site | Current day Trip Expenditure (\$) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1-50 | 51-100 | 101-150 | 151-200 | 201-300 | 301-500 | $>500$ | Mean | Median | SD | N |
| Beverly Sand Dunes ORV Park | 0.0\% | 0.0\% | 40.0\% | 20.0\% | 0.0\% | 40.0\% | 0.0\% | 0.0\% | 180.0 | 150.0 | 90.8 | 5 |
| Buckshot Recreation Area | 0.0\% | 66.7\% | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 48.3 | 50.0 | 27.5 | 3 |
| Burkett Lake Recreation Area | 33.3\% | 66.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 10.7 | 12.0 | 10.1 | 3 |
| CBRA | 2.5\% | 21.0\% | 18.5\% | 10.5\% | 10.5\% | 11.1\% | 11.7\% | 21.6\% | 330.0 | 150.0 | 518.4 | 162 |
| Frenchman Coulee Recreation Area | 8.8\% | 58.8\% | 11.8\% | 2.9\% | 2.9\% | 5.9\% | 5.9\% | 5.9\% | 140.0 | 45.0 | 348.7 | 34 |
| Huntzinger Road Boat Launch | 0.0\% | 66.7\% | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 52.5 | 50.0 | 31.3 | 6 |
| Huntzinger Road Fishing Access Site | 0.0\% | 66.7\% | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 45.0 | 40.0 | 18.0 | 3 |
| Jackson Creek Fish Camp | 0.0\% | 20.0\% | 40.0\% | 0.0\% | 0.0\% | 40.0\% | 0.0\% | 0.0\% | 160.0 | 100.0 | 108.4 | 5 |
| PRRA | 14.5\% | 20.0\% | 27.3\% | 3.6\% | 16.4\% | 5.5\% | 12.7\% | 3.6\% | 143.6 | 100.0 | 141.2 | 55 |
| Quilomene Dune \& Bay | 0.9\% | 10.3\% | 24.3\% | 7.5\% | 14.0\% | 8.4\% | 18.7\% | 31.8\% | 774.7 | 200.0 | 3,974.5 | 107 |
| Rattlesnake Cove | 0.0\% | 50.0\% | 10.0\% | 20.0\% | 20.0\% | 0.0\% | 0.0\% | 0.0\% | 91.5 | 75.0 | 73.8 | 10 |
| Riverstone Resort | 0.0\% | 50.0\% | 10.0\% | 0.0\% | 20.0\% | 20.0\% | 0.0\% | 0.0\% | 123.0 | 75.0 | 104.5 | 10 |
| Rocky Coulee | 16.1\% | 54.8\% | 19.4\% | 6.5\% | 0.0\% | 0.0\% | 3.2\% | 3.2\% | 61.2 | 40.0 | 91.7 | 31 |
| Sand Hollow | 10.0\% | 36.7\% | 23.3\% | 0.0\% | 6.7\% | 13.3\% | 6.7\% | 6.7\% | 181.9 | 85.0 | 367.0 | 30 |
| Sunland Boat Launch | 9.1\% | 40.9\% | 22.7\% | 4.5\% | 4.5\% | 13.6\% | 4.5\% | 0.0\% | 104.6 | 55.0 | 109.6 | 22 |
| Sunland Picnic Area | 14.3\% | 42.9\% | 14.3\% | 0.0\% | 0.0\% | 14.3\% | 14.3\% | 14.3\% | 140.0 | 50.0 | 189.6 | 7 |
| The Cove | 0.0\% | 66.7\% | 33.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 57.5 | 50.0 | 35.2 | 6 |
| Vantage Boat Launch | 6.2\% | 27.7\% | 26.2\% | 7.7\% | 15.4\% | 7.7\% | 3.1\% | 7.7\% | 187.6 | 100.0 | 320.7 | 65 |
| Wanapum Dam Lower Boat Launch | 5.9\% | 11.8\% | 41.2\% | 0.0\% | 23.5\% | 11.8\% | 5.9\% | 0.0\% | 146.5 | 100.0 | 100.9 | 17 |
| Wanapum Dam Overlook | 7.1\% | 28.6\% | 28.6\% | 0.0\% | 28.6\% | 0.0\% | 0.0\% | 7.1\% | 158.2 | 77.5 | 253.8 | 14 |
| Wanapum Dam Upper Boat Launch | 0.0\% | 50.0\% | 25.0\% | 25.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 75.0 | 62.5 | 61.2 | 4 |
| Wanapum Recreation Area (WSP) | 1.9\% | 17.3\% | 25.0\% | 17.3\% | 11.5\% | 13.5\% | 11.5\% | 11.5\% | 182.4 | 150.0 | 150.6 | 52 |

Q16 Site-level responses to the question
If you were on the water today, "what areas of the Priest Rapids/Wanapum reservoirs did you use today? (Mark all areas used)"

Table B. 16 Percent response on used areas of the Priest Rapids/Wanapum Reservoirs

| Site | \% response on used areas of the Priest Rapids/Wanapum Reservoirs |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit A | Unit B | Unit C | Unit D | Unit E | Unit F | Unit G | N |
| Buckshot Recreation Area |  |  |  |  |  | 100.0\% |  | 1 |
| CBRA | 41.9\% | 87.1\% | 51.6\% | 3.2\% |  |  |  | 31 |
| Frenchman Coulee Recreation Area |  |  | 50.0\% | 100.0\% |  |  |  | 2 |
| Huntzinger Road Boat Launch |  |  |  |  |  | 100.0\% |  | 1 |
| Huntzinger Road Fishing Access Site | 50.0\% | 50.0\% | 50.0\% | 50.0\% | 100.0\% | 50.0\% |  | 2 |
| PRRA | 5.9\% | 5.9\% | 5.9\% | 5.9\% | 5.9\% | 17.6\% | 94.1\% | 17 |
| Quilomene Dune \& Bay | 14.6\% | 53.9\% | 84.3\% | 20.2\% | 6.7\% | 2.2\% | 3.4\% | 89 |
| Rattlesnake Cove |  |  |  | 100.0\% | 100.0\% |  |  | 1 |
| Rocky Coulee |  |  |  | 100.0\% |  |  |  | 2 |
| Sand Hollow |  |  |  |  | 100.0\% | 100.0\% |  | 1 |
| Sunland Boat Launch |  |  | 92.9\% | 35.7\% | 7.1\% |  |  | 14 |
| Vantage Boat Launch |  | 22.2\% | 55.6\% | 66.7\% | 55.6\% |  |  | 18 |
| Wanapum Dam Lower Boat Launch |  |  |  |  |  | 100.0\% |  | 2 |
| Wanapum Dam Overlook | 100.0\% |  |  | 100.0\% |  |  |  | 1 |
| Wanapum Dam Upper Boat Launch |  |  |  |  | 100.0\% |  |  | 1 |
| Wanapum Recreation Area (WSP) | - | 5.9\% | 5.9\% | 11.8\% | 94.1\% | - | - | 17 |

## Q17.a Site-level responses to the question

"Did you have to wait to use a boat launch today?"

Table B.17.a Response on having to wait to use boat launch

| Site | Yes | No | N |
| :--- | ---: | ---: | ---: |
| Beverly Sand Dunes ORV Park | - | $100.0 \%$ | 1 |
| CBRA | $22.5 \%$ | $77.5 \%$ | 40 |
| Frenchman Coulee Recreation Area | - | $100.0 \%$ | 4 |
| Huntzinger Road Boat Launch | - | $100.0 \%$ | 1 |
| Huntzinger Road Fishing Access Site | - | $100.0 \%$ | 2 |
| Jackson Creek Fish Camp | - | $100.0 \%$ | 2 |
| PRRA | $4.0 \%$ | $96.0 \%$ | 25 |
| Quilomene Dune \& Bay | $20.9 \%$ | $79.1 \%$ | 91 |
| Riverstone Resort | - | $100.0 \%$ | 1 |
| Rocky Coulee | - | $100.0 \%$ | 3 |
| Sand Hollow | $28.6 \%$ | $100.0 \%$ | 6 |
| Sunland Boat Launch | $15.4 \%$ | $84.4 \%$ | 14 |
| Vantage Boat Launch | $16.7 \%$ | $83.3 \%$ | 26 |
| Wanapum Dam Lower Boat Launch | - | $100.0 \%$ | 1 |
| Wanapum Dam Overlook | - | $100.0 \%$ | 4 |
| Wanapum Dam Uper Boat Launch | $5.0 \%$ | $95.0 \%$ | 20 |
| Wanapum Recreation Area (WSP) |  |  |  |

## Q.17.aa Site-level responses to the question

"How long did you wait to use a boat launch today?"

Table B.17.aa Current conditions on waiting times to use boat launch

| Site | Wait Time (in minutes) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 5 | 10 | 15 | 16 | 20 | Mean | SD | Min | Max | N |
| CBRA | 10.0\% | 40.0\% | 50.0\% | 0.0\% | 0.0\% | 0.0\% | 7.1 | 3.3 | 1 | 10 | 10 |
| Huntzinger Road Boat Launch | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 15.0 | - | 15 | 15 | 1 |
| PRRA | 0.0\% | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 10.0 | - | 10 | 10 | 1 |
| Quilomene Dune \& Bay | 0.0\% | 26.3\% | 52.6\% | 0.0\% | 5.3\% | 15.8\% | 10.6 | 5.0 | 5 | 20 | 19 |
| Sunland Boat Launch | 0.0\% | 25.0\% | 75.0\% | 0.0\% | 0.0\% | 0.0\% | 8.8 | 2.5 | 5 | 10 | 4 |
| Vantage Boat Launch | 0.0\% | 100.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 5.0 | 0 | 5 | 5 | 3 |
| Wanapum Recreation Area (WSP) | 0.0\% | 50.0\% | 0.0\% | 50.0\% | 0.0\% | 0.0\% | 10.0 | 7.1 | 5 | 15 | 2 |

Q17.b Site-level responses to the question
"How long of a wait to launch your boat is acceptable to you?"

Table B.17.b Acceptability of waiting times to use boat launch (in minutes)

|  | Acceptable waiting times (in minutes) |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Site | 0 | $1-5$ | $6-10$ | $11-15$ | $16-20$ | $21-25$ | $>25$ | Mean | SD | Min | Max |
| N |  |  |  |  |  |  |  |  |  |  |  |
| CBRA | $14.3 \%$ | $22.9 \%$ | $45.7 \%$ | $14.3 \%$ | $2.9 \%$ | $0.0 \%$ | $0.0 \%$ | 8.31 | 5.092 | 0 | 20 |
| Huntzinger Road Boat Launch |  | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $100.0 \%$ | 45.00 |  | 45 | 45 |
| Huntzinger Road Fishing Access Site | $50.0 \%$ | $0.0 \%$ | $0.0 \%$ | $50.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 7.50 | 10.607 | 0 | 15 |
| PRRA | $20.0 \%$ | $40.0 \%$ | $13.3 \%$ | $26.7 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 7.13 | 5.768 | 0 | 15 |
| Quilomene Dune \& Bay | $10.5 \%$ | $13.2 \%$ | $31.6 \%$ | $27.6 \%$ | $7.9 \%$ | $1.3 \%$ | $7.9 \%$ | 14.16 | 16.810 | 0 | 120 |
| Rocky Coulee | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 0.00 | 0.000 | 0 | 0 |
| Sand Hollow |  | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $100.0 \%$ | 30.00 | 0.000 | 30 | 30 |
| Sunland Boat Launch | $10.0 \%$ | $40.0 \%$ | $50.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 7.00 | 3.496 | 0 | 10 |
| Vantage Boat Launch | $15.0 \%$ | $30.0 \%$ | $30.0 \%$ | $15.0 \%$ | $10.0 \%$ | $0.0 \%$ | $0.0 \%$ | 8.75 | 6.043 | 0 | 20 |
| Wanapum Dam Lower Boat Launch |  | $40.0 \%$ | $20.0 \%$ | $20.0 \%$ | $0.0 \%$ | $0.0 \%$ | $20.0 \%$ | 13.00 | 10.368 | 5 | 30 |
| Wanapum Dam Overlook | $50.0 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | $50.0 \%$ | $0.0 \%$ | $0.0 \%$ | 9.00 | 12.728 | 0 | 18 |
| Wanapum Dam Upper Boat Launch |  | $33.3 \%$ | $33.3 \%$ | $33.3 \%$ | $0.0 \%$ | $0.0 \%$ | $0.0 \%$ | 10.00 | 5.000 | 5 | 15 |
| Wanapum Recreation Area (WSP) | $7.1 \%$ | $28.6 \%$ | $28.6 \%$ | $21.4 \%$ | $14.3 \%$ | $0.0 \%$ | $0.0 \%$ | 10.07 | 6.220 | 0 | 20 |

## Q18.a. 1 Site-level responses to the question

Please rate each photo by indicating how acceptable you think "how many boats could use the segments of the reservoirs that you used today without you feeling too crowded and unsafe". A rating of -4 means the number of boats is "very unacceptable", and a rating of +4 means the number of boats is "very acceptable".

Table B.18.a. 1 CBRA

|  | N | Mean | SD |
| :--- | ---: | ---: | ---: |
| Photo 1 | 31 | 3.4 | 1.6 |
| Photo 2 | 30 | 3.7 | 0.8 |
| Photo 3 | 30 | 3.6 | 0.9 |
| Photo 4 | 30 | 3.1 | 1.5 |
| Photo 5 | 31 | 2.4 | 1.9 |
| Photo 6 | 31 | 1.6 | 2.5 |



Figure B.18.a. 1 Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at CBRA

Table B.18.a. 2 Frenchman Coulee Recreation Area

|  | N | Mean | SD |
| :--- | ---: | ---: | ---: |
| Photo 1 | 2 | -0.5 | 4.9 |
| Photo 2 | 2 | -0.5 | 4.9 |
| Photo 3 | 1 | -4.0 | - |
| Photo 4 | 1 | -4.0 | - |
| Photo 5 | 1 | -4.0 | - |
| Photo 6 | 1 | -4.0 | - |



Figure B.18.a. 2 Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Frenchman Coulee Recreation Area

Table B.18.a. 3 Huntzinger Road Boat Launch

|  | N | Mean | SD |
| :--- | ---: | ---: | ---: |
| Photo 1 | 3 | 4.0 | 0.0 |
| Photo 2 | 3 | 4.0 | 0.0 |
| Photo 3 | 3 | 4.0 | 0.0 |
| Photo 4 | 3 | 4.0 | 0.0 |
| Photo 5 | 3 | 2.7 | 2.3 |
| Photo 6 | 3 | 2.0 | 3.5 |



Figure B.18.a. 3 Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Huntzinger Road Boat Launch

Table B.18.a. 4 Jackson Creek Fish Camp

|  | N | Mean | SD |
| :--- | ---: | ---: | ---: |
| Photo 1 | 1 | 0 | - |
| Photo 2 | 1 | 0 | - |
| Photo 3 | 1 | 0 | - |
| Photo 4 | 1 | 0 | - |
| Photo 5 | 1 | 0 | - |
| Photo 6 | 1 | 0 | - |



Figure B.18.a. 4 Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Jackson Creek Fish Camp

Table B.18.a. 5 PRRA

|  | N | Mean | SD |
| :--- | ---: | ---: | ---: |
| Photo 1 | 17 | 3.2 | 1.6 |
| Photo 2 | 17 | 3.2 | 1.4 |
| Photo 3 | 17 | 2.8 | 1.4 |
| Photo 4 | 17 | 2.2 | 1.9 |
| Photo 5 | 17 | 0.5 | 2.6 |
| Photo 6 | 17 | -0.1 | 2.6 |



Figure B.18.a. 5 Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Jackson Creek Fish Camp

Table B.18.a. 6 Quilomene Dune \& Bay

|  | N | Mean | SD |
| :--- | ---: | ---: | ---: |
| Photo 1 | 80 | 3.5 | 1.4 |
| Photo 2 | 80 | 3.5 | 1.4 |
| Photo 3 | 80 | 3.3 | 1.5 |
| Photo 4 | 77 | 3.2 | 1.6 |
| Photo 5 | 82 | 2.6 | 2.1 |
| Photo 6 | 81 | 2.3 | 2.5 |



Figure B.18.a. 6 Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Quilomene Dune \& Bay

Table B.18.a. 7 Rocky Coulee

|  | N | Mean | SD |
| :--- | ---: | ---: | ---: |
| Photo 1 | 2 | 1.5 | 3.5 |
| Photo 2 | 2 | 2.5 | 2.1 |
| Photo 3 | 2 | 2.5 | 2.1 |
| Photo 4 | 2 | 3.0 | 1.4 |
| Photo 5 | 2 | 2.0 | 0.0 |
| Photo 6 | 2 | 1.0 | 1.4 |



Figure B.18.a. 7 Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Rocky Coulee

Table B.18.a. 8 Sunland Boat Launch

|  | N | Mean | SD |
| :--- | ---: | ---: | ---: |
| Photo 1 | 11 | 3.7 | 0.6 |
| Photo 2 | 11 | 3.8 | 0.6 |
| Photo 3 | 10 | 3.3 | 0.8 |
| Photo 4 | 11 | 3.2 | 1.1 |
| Photo 5 | 11 | 2.5 | 1.8 |
| Photo 6 | 11 | 1.7 | 2.6 |



Figure B.18.a. 8 Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Sunland Boat Launch

Table B.18.a.9 Vantage Boat Launch

|  | N | Mean | SD |
| :--- | ---: | ---: | ---: |
| Photo 1 | 20 | 3.9 | 0.3 |
| Photo 2 | 20 | 3.9 | 0.4 |
| Photo 3 | 20 | 3.7 | 0.7 |
| Photo 4 | 20 | 3.4 | 1.3 |
| Photo 5 | 20 | 2.7 | 1.8 |
| Photo 6 | 20 | 2.5 | 2.3 |



Figure B.18.a.9 Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Vantage Boat Launch

Table B.18.a. 10 Wanapum Dam Lower Boat Launch

|  | N | Mean | SD |
| :--- | ---: | ---: | ---: |
| Photo 1 | 6 | 0.7 | 2.5 |
| Photo 2 | 6 | 0.5 | 2.3 |
| Photo 3 | 6 | 0.5 | 2.3 |
| Photo 4 | 6 | 0.3 | 2.3 |
| Photo 5 | 6 | 0.3 | 2.3 |
| Photo 6 | 6 | 0.3 | 2.3 |



Figure B.18.a. 10 Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Wanapum Dam Lower Boat Launch

Table B.18.a. 11 Wanapum Dam Upper Boat Launch

|  | N | Mean | SD |
| :--- | ---: | ---: | ---: |
| Photo 1 | 3 | 1.3 | 2.3 |
| Photo 2 | 3 | 1.3 | 2.3 |
| Photo 3 | 3 | 1.3 | 2.3 |
| Photo 4 | 3 | 1.3 | 2.3 |
| Photo 5 | 3 | 0.3 | 0.6 |
| Photo 6 | 3 | 0.0 | 0.0 |



Figure B.18.a.11 Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Wanapum Dam Upper Boat Launch

Table B.18.a.12 Wanapum Recreation Area (WSP)

|  | N | Mean | SD |
| :--- | ---: | ---: | ---: |
| Photo 1 | 14 | 2.9 | 2.2 |
| Photo 2 | 13 | 2.8 | 2.3 |
| Photo 3 | 13 | 2.6 | 2.3 |
| Photo 4 | 13 | 2.4 | 2.4 |
| Photo 5 | 14 | 1.9 | 2.5 |
| Photo 6 | 14 | 1.3 | 2.7 |



Figure B.18.a.12 Social norm curve for the acceptability of number of boats without feeling too crowded and unsafe at Wanapum Recreation Area (WSP)

## Q18.b Site-level responses to the question

"Which photo shows the highest number of boats that should be allowed on the reservoir segments you used today? In other words, at what point should boats be restricted from using the reservoir because it is too crowded and unsafe? (If you think use should not be restricted, please indicate)"

Table B.18.b Highest number of boats to be allowed on the reservoir segment

| Site | Photo <br> 1 | Photo 2 | Photo <br> 3 | Photo <br> 4 | Photo 5 | Photo 6 | Mean | SD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CBRA | - | 13.3\% | - | 26.7\% | 40.0\% | 20.0\% | 4.5 | 1.2 |
| PRRA | 12.5\% | - | 12.5\% | 37.5\% | 25.0\% | 12.5\% | 4.0 | 1.5 |
| Quilomene Dune \& Bay |  |  | 13.0\% | 13.0\% | 17.4\% | 56.5\% | 5.2 | 1.1 |
| Rocky Coulee | - | - | 100.0\% | - | - | - | 3.0 | - |
| Sunland Boat Launch | - | - | - | 50.0\% | 50.0\% | - | 4.5 | 0.7 |
| Vantage Boat Launch | 14.3\% | 28.6\% | - | - | 28.6\% | 28.6\% | 3.9 | 2.1 |
| Wanapum Dam Lower Boat Launch | - | - | - | - | 100.0\% | - | 5.0 |  |
| Wanapum Recreation Area (WSP) |  | 14.3\% | 14.3\% | - | - | 71.4\% | 5.0 | 1.7 |

Q18.bb Management unit level responses to the question
"None of the photos show a high enough number of boats to restrict use" (check box if you agree)
Table B.18.bb Agreement that none of the photos show a high enough number of boats to restrict use

| Site | Yes | No | N |
| :--- | :---: | :---: | :---: |
| CBRA | $55.6 \%$ | $44.4 \%$ | 27 |
| Huntzinger Road Boat Launch | $100.0 \%$ | - | 3 |
| PRRA | $50.0 \%$ | $50.0 \%$ | 14 |
| Quilomene Dune \& Bay | $71.3 \%$ | $28.8 \%$ | 80 |
| Rocky Coulee | - | $100.0 \%$ | 2 |
| Sand Hollow | $100.0 \%$ | - | 1 |
| Sunland Boat Launch | $71.4 \%$ | $28.6 \%$ | 7 |
| Vantage Boat Launch | $64.7 \%$ | $35.3 \%$ | 17 |
| Wanapum Dam Lower Boat <br> Launch | $100.0 \%$ | - | 5 |
| Wanapum Dam Overlook | $100.0 \%$ | - | 1 |
| Wanapum Dam Upper Boat <br> Launch | $100.0 \%$ | - | 3 |
| Wanapum Recreation Area <br> (WSP) | $63.6 \%$ | $36.4 \%$ | 11 |

## Q18.c Management unit level responses to the question

"Which photo looks most like the number of boats you typically saw on the reservoir segments you used today?"

Table A-B.18.c Photo that reflects number of boats seen on the reservoir

|  | $\begin{gathered} \hline \hline \text { Photo } \\ 1 \end{gathered}$ | $\begin{gathered} \text { Photo } \\ 2 \end{gathered}$ | $\begin{gathered} \hline \text { Photo } \\ 3 \end{gathered}$ | $\begin{gathered} \hline \text { Photo } \\ 4 \end{gathered}$ | $\begin{gathered} \text { Photo } \\ 5 \end{gathered}$ | $\begin{gathered} \text { Photo } \\ 6 \end{gathered}$ | Mean | SD | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CBRA | 12.0\% | 16.0\% | 16.0\% | 40.0\% | 4.0\% | 12.0\% | 3.44 | 1.474 | 25 |
| Huntzinger Road Boat Launch | 66.7\% | 33.3\% | - | - | - | - | 1.33 | . 577 | 3 |
| PRRA | 23.5\% | 29.4\% | 29.4\% | 5.9\% | 5.9\% | 5.9\% | 2.59 | 1.417 | 17 |
| Quilomene Dune \& Bay | 6.0\% | 11.9\% | 13.4\% | 13.4\% | 17.9\% | 37.3\% | 4.37 | 1.650 | 67 |
| Rocky Coulee | - | - | 100.0\% | - | - | - | 3.00 | - | 1 |
| Sunland Boat Launch | 10.0\% | 20.0\% | 20.0\% | - | 10.0\% | 40.0\% | 4.00 | 2.000 | 10 |
| Vantage Boat Launch | 35.7\% | 28.6\% | 7.1\% | 14.3\% |  | 14.3\% | 2.57 | 1.785 | 14 |
| Wanapum Dam Lower Boat Launch | - | - | - | 50.0\% | 50.0\% | - | 4.50 | 0.707 | 2 |
| Wanapum Dam Upper Boat Launch | 100.0\% | - | - | - | - | - | 1 | - | 1 |
| Wanapum Recreation Area (WSP) | 30.0\% | - | 30.0\% | 20.0\% | - | 20.0\% | 3.20 | 1.874 | 10 |

## APPENDIX C

Site-level Use Count Results





MOULTATE $\bigcirc 94^{\circ} \mathrm{F}$ 29.34inHg CBARPLAY 01 JUL 2015 11:15 am




## CBRA On-Is. (Active Recreation Area - Camera 2)

## Site Name: CBRA On-Is.

## Amenities: Active Recreation Area










## Amenities: Boat Launch

 Marina




## Rattlesnake Cove

Site Name: Rattlesnake Cove

Amenities: Picnic Area
Swim Area









## Sunland Picnic Area

## Site Name: Sunland Picnic Area

## Amenities: Picnic Area






Quilomene Dune and Bay





Frenchman Coulee Recreation Area (Boat Launch)

| Site Name: Frenchman Coulee Recreation | Amenities:Boat Launch <br> Area |
| :---: | :---: |
| Picnic Area (Not shown in photo) |  |






Frenchman Coulee Recreation Area (Trail)

## Site Name: Frenchman Coulee Recreation Amenities: Trail (entire area in foreground) Area






## Rocky Coulee (Boat Launch)






## Rocky Coulee (Picnic Area)

Amenities: Picnic Area





Vantage Boat Launch

Site Name: Vantage Boat Launch

## Amenities: Boat Launch (excludes marked picnic areas) Picnic Area






Sand Hollow (Picnic Area - Camera 1)




Sand Hollow (Picnic Area - Camera 2)




Sand Hollow (Picnic Area - Camera 3)





Sand Hollow (Swim Area)

## Amenities: Picnic Area <br> Swim Area






## Wanapum Dam Lower Boat Launch

Site Name: Wanapum Dam Lower Boat Launch
Amenities: Boat Launch





## Wanapum Dam Upper Boat Launch

Site Name: Wanapum Dam Upper Boat Launch
Amenities: Boat Launch









## Wanapum Recreation Area (Picnic Area)












Wanapum Turbine Park (Picnic Area - Camera 2)

Site Name: Wanapum Turbine Park
Amenities: Picnic Area





## Amenities: Overlook Vista (All areas not marked otherwise) Picnic Area






## The Cove (Camera 1)

## Amenities: Boat Launch

Picnic Area





Time of Day

## The Cove (Camera 2)










## Huntzinger Road Boat Launch (Overflow)

Site Name: Huntzinger Road Boat Launch Amenities: Boat Launch





Time of Day











## Jackson Creek Fish Camp






Priest Rapids Recreation Area (Boat Launch - Camera 1)

Site Name: Priest Rapids Recreation Area

## Amenities: Boat Launch Trail




Priest Rapids Recreation Area (Boat Launch - Camera 2)

## Amenities: Boat Launch Trail









Amenities: Picnic Area
Water Trail Boat Launch





Priest Rapids Recreation Area (Picnic Area - Camera 1)

Site Name: Priest Rapids Recreation Area

Amenities: Picnic Area
Trail





Priest Rapids Recreation Area (Picnic Area - Camera 2)

Site Name: Priest Rapids Recreation Area
Amenities: Picnic Area
Trail



Type of Item Counted






## APPENDIX D

| Date: |
| :--- |
| Time of Day (24hr): |
| Site: |

## 2015 Recreation User Survey

As a recreation provider along the Columbia River, Grant PUD is interested in hearing about your recreation visit to Priest Rapids or Wanapum Reservoirs. Your participation is important to us and will help us determine current and future recreation needs. Thank vou for vour participation.

1. How many people are in your vehicle today, including yourself? $\qquad$
2. What is your zip code? $\qquad$
3. Please indicate which of the following activities you are participating in on this trip (mark all that app/y):

| S Swimming/visiting the beach | $\square$ Resting/relaxing | $\square$ Camping |
| :---: | :---: | :---: |
| $\square$ Boating | $\square$ Picnicking | W Waterskiing/tubing/wakeboarding |
| - Riding jetskis/waverunners | $\square$ Attending a concert | $\square$ Hiking |
| $\square$ Photography | $\square$ Fishing | - Canoeing/kayaking/paddle boarding |
| - Wildlife Viewing | $\square$ Visiting a dam | $\square$ Golf |
| $\square$ Other |  |  |

4. Of the activities listed above, which is your primary activity on this trip? $\qquad$
5. What did you like the most about your visit to this recreation site?
6. What did you like the least about your visit to this recreation site?
7. How much time will you spend on your current trip?

8. If your current trip extends into two or more days, what type of overnight accommodations did you use on your trip? (mark all that apply)

- Campground (RV or tent) $\rightarrow$ Location: $\qquad$
$\square$ Rented cabin/condo/home/motel/hotel $\rightarrow$ Location: $\qquad$
- Your own home/property
- Other (Please specify): $\qquad$


## 9. a. Did any of the following conditions adversely affect your trip? (mark all that apply)

$\square$ Strong winds
Lack of shelter from the weather
Lack of shade from the sunLack of ADA accessibility - Low water levels
b. If you checked any of the above conditions, describe how they affected your trip?
10. Grant PUD is interested in your opinion about the level of existing development and management at the reservoirs. Please indicate a response for any of the following facilities you used during your visit.

|  | Too high | About right |  |  |  |  |  |  | $\begin{aligned} & \text { Too } \\ & \text { low } \end{aligned}$ | Don't know |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Level of public recreation development | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Number of restrooms/toilets | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Quality of restrooms/toilets | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Number of picnic or day use areas | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Quality of picnic or day use areas | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Amount of shoreline available for use | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Number of boat launches | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Quality of boat launches | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Number of swim/sunbathing areas | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Quality of swim/sunbathing areas | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Number of hiking trails | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Quality of hiking trails | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Number of public docks | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Quality of public docks | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Number of campsites | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Quality of campsites | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Cost to use facilities | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |
| Quality of on-line campground reservation system | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |

11. Please indicate the extent that the following issues were problems for you during your visit today. (mark one response for each item)

|  | No <br> Problem |  |  |  |  |  |  |  | Big <br> Problem | Don't Know or <br> Not Applicable |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Litter around the reservoir shoreline | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | $\square$ | N/A |

12. Help us understand crowding issues by answering the following questions. (mark one response for each item)

|  | Not at all <br> Crowded | Slightly <br> Crowded | Moderately <br> Crowded | Extremely <br> Crowded | Don't Know or <br> Not Applicable |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| How crowded did you feel today? | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | N/A |
| How crowded did you expect to feel today? | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | N/A |

13 a. If you used the area shown in photo $\mathbf{A}$, what is the maximum number of people you think could use the recreation site pictured at any one time without you feeling too crowded?

Number of people $\qquad$
b. What is the maximum number of people that you saw actually using the recreation site pictured at any one time during your visit today?

Number of people _........... OR .......... Don't know or can't remember
14. Please estimate how much money you and your party will spend TODAY while on this trip (e.g., fuel, lodging, restaurants, groceries, admissions, fees, outdoor gear, etc.).
\$ $\qquad$
15. If you could ask Grant PUD to change some things about the way they manage recreation at Wanapum and Priest Rapids reservoirs, what would you ask them to do?

## Please complete the remaining questions only if you were on the water today (boating, fishing,

 etc.). If you were not on the water today, thank you for completing the survey!16. What areas of the Priest Rapids/Wanapum reservoirs did you use today? Please mark a line on the map on the next page showing where you traveled on the water today, and place an ' $X$ ' at any locations where you stopped for more than 30 minutes


17. a. Did you have to wait to use a boat launch today?Yes $\rightarrow$ How long did you wait? $\qquad$ minutes

- No
b. How long of a wait to launch your boat is acceptable to you? $\qquad$ minutes

18. We would like to know how many boats you think could use the segments of the reservoirs that you used today without you feeling too crowded and unsafe. To help judge this, we have a series of photos that show different numbers of boats. Please look at these photos.
a. Please rate each photo by indicating how acceptable you think it is based on the number of boats shown. A rating of -4 means the number of boats is "very unacceptable", and a rating of +4 means the number of boats is "very acceptable". (Circle one number for each photograph.)

|  | Very Unacceptable |  |  |  |  | Very Acceptable |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :---: |
| Photo 1 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 |  |
| Photo 2 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 |  |
| Photo 3 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 |  |
| Photo 4 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 |  |
| Photo 5 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 |  |
| Photo 6 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 |  |

b. Which photo shows the highest number of boats that should be allowed on the reservoir segments you used today? In other words, at what point should boats be restricted from using the reservoir because it is too crowded and unsafe? (If you think use should not be restricted, please indicate)

Photo number: $\qquad$
OR
None of the photos show a high enough number of boats to restrict use.
c. Which photo looks most like the number of boats you typically saw on the reservoir segments you used today?

Photo number: $\qquad$

We thank you for your time and input on this survey. If you have any further questions regarding this survey or the area in general, please feel free to contact Grant PUD at (509) 754-0500 or lands@grantpud.org.

Study Photos of Boat Density Referenced in the Survey




Study Photos Referenced in the Survey as "Photo A"


Buckshot Recreation Area


Crescent Bar Marina


Crescent Bar Off-Island Boat Launch


Crescent Bar Off-Island Campground


Crescent Bar On-Island Picnic Area


Crescent Bar On-Island Boat Launch


Beverly ORV Park - Dispersed Camping


Burkett Lake Trail


Frenchman Coulee Boat Launch and Picnic Area


Huntzinger Fishing Pier


Huntzinger Boat Launch


Jackson Creek Fish Camp Campground


PRRA Trail


PRRA Swim Area


PRRA Boat Launch


## PRRA North Picnic Area



PRRA Picnic Area


Rattlesnake Cove Swim Area and Picnic Area


## Rocky Coulee Campground



Rocky Coulee Picnic Area


Sand Hollow Campground


Sand Hollow Picnic Area (North)


Sand Hollow Picnic Area (South)


Sand Hollow Swim Area


Sunland Picnic Area


Sunland Boat Launch


The Cove Picnic Area


Wanapum Turbine Park Picnic Area


Vantage Boat Launch


Wanapum Dam Overlook


Wanapum Dam Lower Boat Launch


Wanapum Dam Upper Boat Launch


Wanapum Recreation Area (WSP) Boat Launch


Wanapum Recreation Area (WSP) Picnic Area


Wanapum Recreation Area (WSP) Swim Area

## APPENDIX E

Example of a Recreational Use Assessment Form -
Boat-Based Counts of Boat Density and Boat Types

## Recreational Use Assessment Form - Boat-Based Counts of Boat Density and Boat Types

Observers: Chris Clarke, Brad Harshman Start Time: 10:20 End Time: 1:20 Date: 6/23/2015
Temperature: 85 Wind speed at Wanapum Dam: 10 mph Precipitation: No

|  | Management Unit |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A |  | B |  | C |  | D |  | E |  | F |  | G |  |
|  |  |  | \# Boats |  | \# <br> Boats |  | \# <br> Boats | People | \# Boats |  | \# <br> Boats | People | \# Boats |  |
| Motorboats |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fishing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 2 |
| Towing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 1 | 4 | 0 | 0 | 1 | 2 | 1 | 2 | 0 | 0 | 1 | 2 |
| PWC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Towing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-motorboat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Instructions: Count the number of boats and number of people associated with those boats. Boat numbers should be tallied by boat types and management units, as shown above. Only count boats and associated people who are actively boating. This is defined as boats that are on the water and where another boat could reasonably navigate around it on all sides. People actively boating are those individuals clearly associated with boats previously described. Boats or people within a signed or marked non-wake zone at a specific site, other than the shoreline no-wake zone that exists on the entire reservoir, should not be counted since they are not considered to be actively boating. Boats or people not meeting these descriptions will instead be counted towards use of a shore-based amenity. Definitions: A boat fishing is defined as a boat of any type actively fishing (e.g., with lines in the water). A towing boat is defined as a boat of any type towing a person for recreational purposes. A boat counted under the "other category" is defined as all boats not counted in the fishing or towing definitions. A nonmotorboat is defined as a boat of any type without a motorized power source.

## APPENDIX F

Example of a Recreational Use Assessment Form -Observer-Based Counts

## Recreational Use Assessment Form - Observer-Based Counts at Amenities

Observer Brad Harshman, Chris Clarke Start Time 10:20 End Time 1:20 Date 6/23/2015 Period Wan Boat Survey

| Site Name | FERC Amenity Type | $\begin{aligned} & 0 \\ & \stackrel{0}{0} \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \hline \end{aligned}$ |  |  | $\begin{aligned} & u \\ & 3 \\ & 0 \\ & 0 \\ & 0 \\ & \# \\ & \# \end{aligned}$ |  |  | $\begin{aligned} & \frac{0}{2} \\ & \frac{0}{0} \\ & 0 \\ & \# \end{aligned}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Columbia Siding | Access Point | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| A6 Memorial | Informal Use Area (Boat In) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Tarpiscan Creek | Hunting Area | 1 | 0 | 0 | 0 | 0 | 0 | 1 | N/A | N/A | N/A | N/A | N/A |
| Apricot Orchard Boat Launch | Access Point | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Apricot Orchard Boat Launch | Hunting Area | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Columbia Cliffs | Informal Use Area (Boat In) | 0 | 0 | 2 | 1 | 2 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Upper West Bar | Hunting Area | 0 | 0 | O | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Lower West Bar | Informal Use Area (Boat In) | 0 | N/A | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| CBRA On-Is. | Informal Use Area (Boat In) | N/A | N/A | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Quincy Wildlife Area | Access Point | N/A | N/A | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |

Note: Only count items within the boundaries of the formal FERC amenity. For example, only boats on land or pulled up to land should be counted. Continued on next page!!!

Page 1 of 3

## Recreational Use Assessment Form - Observer-Based Counts at Amenities

Observer Brad Harshman, Chris Clarke Start Time 10:20 End Time 1:20 Date 6/23/2015 Period Wan Boat Survey

| Site Name | FERC Amenity Type | $\begin{aligned} & \frac{0}{0} \\ & \frac{0}{0} \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \# \end{aligned}$ |  | $\begin{aligned} & \text { y } \\ & 0 \\ & 0 \\ & 000 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \# \\ & \# \end{aligned}$ | $U$ 3 0 U \# |  |  | O $\sim$ 0 0 $\#$ $\#$ |  |  | 0 0 0 0 0 <br>  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sunland Shoreline | Access Point | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A |
| Quilomene Dune and Bay | Informal Use Area (Boat In) | 0 | 0 | 2 | 1 | 0 | 0 | 7 | N/A | N/A | N/A | N/A | N/A |
| Quilomene Dune and Bay | Dispersed Camp Area | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Quilomene Bar | Hunting Area | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Whiskey Dick Creek | Hunting Area | 0 | N/A | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Cayuse Creek | Hunting Area | O | N/A | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Riverstone Resort | Access Point | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Airstrip Access Area | Informal Use Area (Boat In) | N/A | N/A | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Sand Hollow (both southern bays) | Informal Use Area | N/A | N/A | 0 | 0 | 0 | 0 | 16 | N/A | N/A | N.A | N/A | N/A |
| Sand Hollow (North) | Access Point | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |

Note: Only count items within the boundaries of the formal FERC amenity. For example, only boats on land or pulled up to land should be counted. Continued on next page!!!

Page 2 of 3

## Recreational Use Assessment Form - Observer-Based Counts at Amenities

Observer Brad Harshman, Chris Clarke Start Time 10:20 End Time 1:20 Date 6/23/2015 Period Wan Boat Survey

| Site Name | FERC Amenity Type | $\begin{aligned} & \stackrel{0}{0} \\ & \frac{0}{0} \\ & \ddot{0} \\ & \vdots \\ & 0 \\ & \# \end{aligned}$ |  |  | $\begin{aligned} & \text { U } \\ & 0 \\ & 0 \\ & 0 \\ & 0 \\ & \# \end{aligned}$ |  |  | $\begin{aligned} & \frac{0}{2} \\ & 0 \\ & 0 \\ & 0 \\ & \# \end{aligned}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Black Sands Beach | Informal Use Area (Boat In) | N/A | N/A | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| McCumber Beach | Informal Use Area (Boat In) | N/A | N/A | 1 | 0 | 0 | 0 | 3 | N/A | N/A | N/A | N/A | N/A |
| Yo Yo Rock | Boat Launch | 1 | 1 | 0 | 0 | 0 | 0 | 0 | N/A | 1 | N/A | 0 | N/A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Note: Only count items within the boundaries of the formal FERC amenity. For example, only boats on land or pulled up to land should be counted. Continued on next page!!!

Page 3 of 3

## Recreational Use Assessment Form - Observer-Based Counts at Amenities

Observer Brad Harshman, Chris Clarke Start Time 10:20 End Time 1:20 Date 6/23/2015 Period Priest Boat Survey

| Site Name | FERC Amenity Type | $\begin{aligned} & \frac{0}{0} \\ & \frac{\pi}{0} \\ & 0 \\ & 0 \\ & \# \end{aligned}$ |  |  | $\begin{aligned} & u \\ & 3 \\ & 0 \\ & 0 \\ & \# \\ & \# \end{aligned}$ |  |  | $\begin{aligned} & 0 \\ & \stackrel{0}{2} \\ & 0 \\ & 0 \\ & \# \end{aligned}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Crab Creek Park | Access Point | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Haystack Rocks | Access Point | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Sentinel Gap | Access Point | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Priest Rapids Wildlife Area | Hunting Area | N/A | N/A | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
| Goose Island | Hunting Area | N/A | N/A | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | N/A |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Note: Only count items within the boundaries of the formal FERC amenity. For example, only boats on land or pulled up to land should be counted


[^0]:    Note: Mean based on 9 categories with $1=$ Not at all crowded, $9=$ Extremely crowded

[^1]:    Note: Response Scale 1= Too high, 5=About Right, $9=$ Too Low

[^2]:    Note: Response Scale: $1=$ Too high, $5=$ About Right, $9=$ Too Low

[^3]:    Note: Response Scale: 1=Too high, 5=About Right, 9=Too Low

[^4]:    Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

[^5]:    Note: Response Scale: 1= Too high, 5=About Right, $9=$ Too Low

[^6]:    Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

[^7]:    Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

[^8]:    Note: Response Scale: 1= Too high, 5=About Right, $9=$ Too Low

[^9]:    Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

[^10]:    Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

[^11]:    Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

[^12]:    Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

[^13]:    Note: Response Scale: 1= Too high, 5=About Right, $9=$ Too Low

[^14]:    Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

[^15]:    Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

[^16]:    Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

[^17]:    Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

[^18]:    Note: Response Scale: 1= Too high, 5=About Right, $9=$ Too Low

[^19]:    Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

[^20]:    Note: Response Scale: 1= Too high, 5=About Right, $9=$ Too Low

[^21]:    Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

[^22]:    Note: Response Scale: 1= Too high, 5=About Right, 9= Too Low

[^23]:    Note: Response Scale: 1= No Problem, 9= Big Problem

[^24]:    Note: Response Scale: 1= No Problem, 9= Big Problem

[^25]:    Note: Response Scale: 1= No Problem, 9= Big Problem

[^26]:    Note: Response Scale: 1= Not at all Crowded, 9= Extremely Crowded

