



Visitor Survey of Day-use Visitors at Luckiamute Landing State Natural Area

Final Report

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Nature
HISTORY
Discovery

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EXECUTIVE SUMMARY

Objectives

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

Methods

Data were obtained from questionnaires administered to random samples of day user visitors to the park between July 4 and September 22, 2013. The day-use visitor survey involved on-site intercepts. The total number of completed questionnaires was $n = 161$ with a response rate of 90%. The sample size allows generalizations about the population of day users at Luckiamute Landing State Natural Area at a margin of error of ± 7.7 at the 95% confidence level.

Results

Personal and Visit Characteristics

- The most popular activities were hiking or walking (85%), dog walking (42%), and bird or wildlife watching (40%). The least popular activities were boating (4%), bicycling on local roads (10%), running or jogging (10%), fishing (12%), and picnicking or barbecuing (12%).
- The most common main activity groups were hiking or walking (44%), and dog walking (25%). The least common activity groups were boating (motor, canoe, kayak), picnicking or barbecuing, sightseeing, and running or jogging (all 1%).
- Day users spent an average of over two hours in the park, with 87% of users spending up to three hours in the park. The majority of day users (38%), however, spent two hours in the park.
- The majority of visitors were local with 59% living within ten miles from the park, and another 34% originating 11 to 30 miles from the park. Only 7% of respondents traveled over 30 miles to reach the park. Day users, on average, traveled approximately 14.5 miles to visit the park.
- In total, 68% of respondents had visited this park before, whereas 32% had not visited previously.
- Users had visited an average of approximately 13 times in the past 12 months. The highest proportion (29%) had visited the park three to five times, with 18% visiting 13 to 24 times and 18% visiting two times in the past year. Only 1% of users had never visited the park before with 4% making just one trip during the last 12 months.
- Average group size was less than two people. Groups most commonly consisted of one (47%) and two people (35%). Few users visited in groups of four (6%) or five or more people (1%).
- In total, 43% of park users brought dogs with them and 57% did not bring dogs.
- Most users arrived at the park in their family's personal vehicle (92%), 7% arrived in somebody else's vehicle, and another 1% arrived in another form of transportation. On average, there were 2.02 people in each personal family vehicle, 2.86 people in

somebody else's vehicle. For all day use vehicles, there was an average of 2.04 people in the vehicle.

- Almost all (88%) of users considered this park their main destination for their recreational activities with 7% indicating the visit to this park was for recreation, but was not their main destination.
- If they had been unable to go to Luckiamute Landing State Natural Area for this visit, most park visitors would have either gone somewhere else for the same activity (61%), come back another time (20%), or stayed home (9%). Furthermore, if unable to visit the park, day users reported that they would have traveled approximately 14 miles for the same activity and 13 miles for a different activity.
- If they had been unable to go to Luckiamute Landing State Natural Area for this visit, many day users would have gone to Adair County Park, Takena Landing Park, Bald Hill Natural Area, McDonald Dunn Forest, E.E. Wilson Wildlife Area, William L. Finley National Wildlife Refuge, Minto-Brown Island Park, Sarah Helmick State Recreation Site, Peavy Arboretum, Willamette City Park, and the Oregon Coast.

Physical Activity and Other Health Benefits

- A majority of all visitors indicated that they participated in moderate physical activity (89%), while 30% indicated participating in vigorous physical activity. Visitors who indicated participating in moderate and vigorous physical activity spent an average of approximately 78 minutes participating in moderate physical activity and 63 minutes participating in vigorous physical activity.
- Over half (53%) of all visitors indicated that their level of physical activity during their visit to Luckiamute Landing State Natural Area was about the same as their daily life, whereas 37% indicated it was more, and 10% indicated it was less.
- Park visitors reported their visit helped to reduce stress (83%), improve mental health (86%), and reduce anxiety (78%). Fewer users indicated that their visit improved their level of physical fitness (68%) or improved their physical health (74%).

Visitor Spending

- Most visitors to the park were locals (living within 30 miles of the park; 92%).
- The majority of local day users reported spending \$1-\$25 (52%) or spending no money (23%), while the majority of non-local day users reported spending \$26-\$50 (46%) and \$1-\$25 (27%). The majority of all day users reported spending \$1-\$25 (49%) or spending no money (21%).
- Most local day-use visitor parties reported spending on gasoline and oil (71%). Most non-local day visitors reported spending money on gasoline and oil (100%), restaurants and bars (83%), and groceries (71%). Most visitors to Luckiamute Landing State Natural Area reported spending some money on gasoline and oil (73%).
- Day users reported that they would spend no more than an average of \$20 than they already spent before deciding not to visit the park. The largest percentage of day users (47%) would be willing to spend an additional \$1-\$25, with another 33% not willing to spend any more than they already spent.
- Only 3% of visitors were staying away from home within 30 miles of the park. Of those users staying away from home within 30 miles of the park, respondents indicated staying an average of over one and a half nights (1.67).

Obtaining Information about the Parks

- Almost all users (94%) were able to find the information they needed when planning their visit to this park, and the few (6%) who did not find it would like highway signs with directions to the park, information on wildlife ecology and cultural history, and maps with trail distances and information.
- The most heavily used sources of information were previous visits (73% used sometimes or often), friends or family members (67%), highway signs (66%), and official internet websites (58%). The least used sources were health care providers (7%), videos / DVDs (10%), community organizations (12%), and the radio (18%). The most popular other ways users obtained information about the park was through word of mouth, the Willamette River Recreation Guide, Oregon Department of Fish and Wildlife, geocaching, and exploring.
- Official internet websites (e.g., Oregon State Parks, Travel Oregon; 53%) was overwhelmingly the first primary source used by most respondents to find information about the park, followed by friends or family members (21%), and highway signs (7%). Few people used other sources when obtaining information.

Satisfaction with Experiences and Conditions

- Users considered the most important characteristics at this park were the opportunities to escape crowds of people (95%), absence of litter (93%), overall cleanliness of park (e.g., lawn care, lack of graffiti; 89%), cleanliness / conditions of toilets / bathrooms (83%), and condition / maintenance of park trails (80%). The least important attributes were the facilities for groups to gather (24%), number and amount of information / education programs or materials (32% to 40%), ease of movement or access (e.g., wheelchair, elderly, stroller; 32%), and the presence of park rangers / personnel (41%).
- Overall satisfaction among users was high, as 91% were satisfied with the highest proportion of users being “very satisfied” (55%). Almost no respondents (9%) were dissatisfied.
- Users were most satisfied with overall park cleanliness (97%), opportunities to escape crowds of people (93%), absence of litter (91%), personal safety (90%), condition / maintenance of park trails (84%), the courteousness of park rangers / personnel (83%), and the number of toilets / bathrooms (81%). Users were least satisfied with the facilities for groups to gather (42%), number and quality of education programs (47% to 49%), ease of movement or access (e.g., wheelchair, elderly, stroller; 52%), information specifically about conditions or hazards in the park (53%).
- An Importance – Performance analysis showed that almost all park attributes were in the “keep up the good work” category, indicating that users thought that staff were doing a good job managing conditions and experiences. No attributes, however, fell into the “concentrate here” quadrant.
- Most respondents were also satisfied with the natural environment (92%), and the facilities and services (90%).
- Most respondents (92%) said they were likely to return to this park in the future.
- Almost all visitors (98%) to Luckiamute Landing State Natural Area would recommend the park to their friends or family. Reasons respondents indicated they would not recommend the park were because they do not want more hunters at the park, too much poison oak, and they do not want others to come and infringe on the natural setting.

- The most commonly reported outstanding features and things to do at Luckiamute Landing State Natural Area involved: (a) fishing; (b) hiking; (c) the beauty of the natural scenery; (d) tranquility and quietness; (e) wildlife viewing; (f) river access; and (g) lack of crowds.
- Day users felt not at all crowded, with 11% of all park users feeling some degree of crowding on their visit. These results suggest that crowding in this park is in the “suppressed crowding” range, and crowding is likely limited by management, situational factors, or natural factors and may offer unique low-density experiences.

Attitudes About Programs and Management Strategies

- Over half (55%) of day users would consider participating in a Let’s Go program. Programs with the most interest were birding (32%), hiking (25%), kayaking (24%), and rafting (23%). The least supported Let’s Go programs were disc golfing (7%), geocaching (8%), scenic bicycling on roads (10%), and horseback riding (10%). The most popular “other” programs were plant identification, hunting, and hunting safety.
- Only 1% of day users indicated utilizing a concession service or activity (e.g., fishing, rafting, bicycling, scenic or historic tour) while at Luckiamute Landing State Natural Area. The most popular concession service / activity was bicycling
- Users most strongly supported management strategies designed to provide more opportunities at the park for escaping crowds (88%), more opportunities for viewing wildlife (86%), more opportunities for hiking (76%), restoring park to historical conditions (62%), to not change anything (62%), provide more information / education (nature, history, archeology; 58%), more natural buffers to block views of development outside park (55%), and more recycling containers (50%). The least supported strategies were to close the park to all recreation and tourism activities (6%), limit the number of people allowed per day (8%), provide food for sale (restaurants, snack shops; 9%), wireless internet access in the park (11%), more enclosed shelters (16%), and downloadable mobile phone applications (19%).
- There was overall low support for service reductions in the park. The highest support was for returning the park to a natural area (47%), and reduced ground maintenance (e.g., mowing; 24%), with the lowest support for reducing the number of hours open (2%), reducing janitorial services (13%), scaling down facilities (e.g., restrooms, shelters; 15%), and reducing ranger patrols (15%).

Sociodemographic Characteristics of Users

- There were more male (59%) than female (34%) users at this park.
- The average age of users was approximately 48 years old, and the largest proportions of users were 60 to 69 years old (26%) and 50 to 59 years old (25%).
- The average annual household income before taxes of respondents was approximately \$58,600, and the largest proportion of users had incomes from \$30,000 to \$49,999 (23%) and \$50,000 to \$69,999 (23%). Visitors to Luckiamute Landing State Natural Area are generally wealthier than the Oregon population at large (Oregon median household income in 2010 was \$51,994).
- Almost all respondents were white (i.e., Caucasian; 96%) with few Asians (1%), Hispanic / Latinos (1%), Native Hawaiian or Pacific Islander (1%), and Blacks / African Americans (1%).

- Almost all respondents (99%) reported English as their primary language spoken in their homes.
- Approximately 99% of users resided in Oregon, and 1% resided in Nevada. Among park users, 94% resided in the Willamette Valley region of Oregon, 4% resided in the Portland Metro region, and 2% resided in other states. No respondents indicated residing in the Coastal, Southern, Eastern, Central, or Mt. Hood / Gorge regions of the state.
- In total, 98% of users said that nobody in their group had a disability, whereas 2% had at least one group member with a disability. Of those who had a disability, 1% was associated with walking and another 1% was associated with hearing.

Recommendations

Management Recommendations

- Almost all day and overnight users traveled to this park in their own vehicles (92%), so adequate parking is important and should be considered in planning and management.
- Almost half (43%) brought dogs with them to this park, so it will be important to ensure adequate facilities to accommodate dogs and their owners (e.g., pick up bags, signs specifying regulations or restrictions). Furthermore, 31% of all visitors supported requiring dogs be on leash at all times and 41% supported making the park more pet friendly.
- Almost all users (91%) were satisfied with their experiences and the conditions at this park. Satisfaction, however, was consistently lower for the amount (47%) and quality (49%) of information and education materials and programs. Managers may wish to evaluate these services to users to ensure they are meeting visitor needs.
- Approximately 11% of day users felt crowded at the park. These results suggest that crowding in this park is in the “suppressed crowding” range, and crowding is likely limited by management, situational factors, or natural factors and may offer unique low-density experiences.
- Users most strongly supported strategies designed to provide more opportunities at the park for escaping crowds (88%), more opportunities for viewing wildlife (86%), more opportunities for hiking (76%), restoring park to historical conditions (62%), to not change anything (62%), provide more information / education (nature, history, archeology; 58%), more natural buffers to block views of development outside park (55%), and more recycling containers (50%). Managers may want to consider some or all of these strategies.
- An Importance – Performance analysis showed that almost all park attributes were in the “keep up the good work” category, indicating that users thought that staff were doing a good job managing conditions and experiences.
- The largest proportion of users depended on official internet websites (53%) as the first primary source of obtaining information about parks such as Luckiamute Landing State Natural Area. Given these findings, it is imperative for staff to ensure that agency and park internet websites are easy to navigate, up to date, and provide comprehensive information.
- Almost all park visitors (94%) were able to find the information they needed when planning their visit to Luckiamute Landing State Natural Area. However, some visitors (6%) were not able to find all information needed. The most popular information needed

was highway signs with directions to the park, information on wildlife ecology and cultural history, and maps with trail distances and information.

- Users also provided 122 verbatim open ended comments on what they found to be the most outstanding features or things to do at Luckiamute Landing State Natural Area. The most common outstanding features and things to do involved: (a) fishing; (b) hiking; (c) the beauty of the natural scenery; (d) tranquility and quietness; (e) wildlife viewing; (f) river access; and (g) lack of crowds. This information could be added to the Luckiamute Landing State Natural Area website to inform future visitors regarding what other visitors feel are the most outstanding features at the park.
- Users provided 92 verbatim open ended positive and negative comments, and suggestions for possible improvement of Luckiamute Landing State Natural Area and other park related issues. The most common concerns raised involved: (a) better enforcement of off leash dogs and the mess created by dogs; (b) removal of invasive species and poison oak; (c) connect the trails; (e) provide running water for dogs and people; (f) more access to river; (g) monitor illegal behavior; (h) trail maintenance (fill holes, add directional signage); (i) keep the park natural; (j) interpretive signs about plants and wildlife; and (k) the conflict between hunters and non-hunters.

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INTRODUCTION AND OBJECTIVES

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

METHODS

Data were obtained from questionnaires (see Appendix B) administered to randomly selected sample of day users at Luckiamute Landing State Natural Area between July and September 2013. An on-site (face to face) survey method was used. A respondent was only allowed one opportunity to complete a questionnaire.

Onsite Survey of Day Users

Day users 18 years of age and older who visited Luckiamute Landing State Natural Area between July 4 and September 22, 2013 were approached in person (face to face) and asked to complete the seven page questionnaire onsite at this park. Day users were asked if they would be willing to complete the questionnaire and asked to immediately complete and return the full length questionnaire onsite. Questionnaires were printed on both sides of two legal sized (8 ½ x 14) pages and folded into a small booklet, and took most respondents approximately 15 to 20 minutes to complete. Respondents were provided with a clipboard and pen to complete the questionnaire. A number of volunteers (e.g., Camp Hosts) administered these questionnaires to reduce costs.

Sample Sizes and Response Rates

As shown in Table 1, the total number of completed questionnaires was $n = 161$ with an estimated total response rate of 90%.

Table 1. Sample sizes and response rates

	Initial contacts	Completed surveys (n)	Response rate (%)
Day Users	179	161	90

The sample size allows generalizations about the population of day users at Luckiamute Landing State Natural Area at a margin of $\pm 7.7\%$, at the 95% confidence level.

Questionnaires included questions on a range of topics such as prior visitation, activity participation, visitor spending, satisfaction, support of management, and demographic characteristics. To highlight key findings, data were often recoded into major response categories (e.g., agree, disagree; support, oppose), but basic descriptive findings of uncollapsed questions (i.e., strongly, slightly agree) are provided in Appendix C.

RESULTS

Personal and Visit Characteristics

Activity Groups. The questionnaires asked respondents to check all of the activities in which they participated at Luckiamute Landing State Natural Area on their most recent trip. Table 2 shows that the most popular activities at this park were hiking or walking (85%), dog walking (42%), and bird or wildlife watching (40%). The least popular activities were boating (4%), bicycling on local roads (10%), running or jogging (10%), fishing (12%), and picnicking or barbecuing (12%).

Table 2. Day user recreation activities at the park

Activity	Participation (%) ^a
Hiking or walking	85
Dog walking	42
Bird or wildlife watching	40
Sightseeing	35
Other	19
Outdoor photography	17
Picnicking or barbecuing	12
Fishing	12
Running or jogging	10
Bicycling on local roads	10
Boating (motor, canoe, kayak)	4

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

^c The most popular “other” activities were: hunting, swimming / wading, dog training, geocaching, and rock hunting.

Respondents were then asked to specify the one primary activity in which they participated most often during their recent visit to Luckiamute Landing State Natural Area. Table 3 shows that the most common primary activity groups were hiking or walking (44%), and dog walking (25%). The least common activity groups were boating (motor, canoe, kayak), picnicking or barbecuing, sightseeing, and running or jogging (all 1%).

Table 3. Primary day-use activities at the park

Activity	Day Users (%)
Hiking or walking	44
Dog walking	25
Other	12
Fishing	9
Bicycling on local roads	3
Bird or wildlife watching	3
Outdoor photography	2
Running or jogging	1
Sightseeing	1
Picnicking or barbecuing	1
Boating (motor, canoe, kayak)	1

Duration of Visit. Day users were asked to report how many *hours* they spent at Luckiamute Landing State Natural Area on their recent trip. Table 4 shows that, on average, day users spent over two hours in the park, with 87% of users spending up to three hours in the park. The majority of day users (38%), however, spent two hours in the park.

Table 4. Duration of visit at the park ^a

1 hour	36
2 hours	38
3 hours	13
4 to 5 hours	10
6 to 9 hours	3
10 or more hours	0
Mean / average hours	2.06

^a Cell entries are percentages (%) unless specified as means / averages

Distance Traveled. Respondents were also asked to report about how far from home they traveled to get to the park. Table 5 shows that the vast majority of visitors were local with 59% living within ten miles from the park, and another 34% originating 11 to 30 miles from the park.

Only 7% of respondents traveled over 30 miles to reach the park. Day users, on average, traveled approximately 14.5 miles to visit the park.

Table 5. Day user distance traveled to the park ^a

5 miles or less	23
6 to 10 miles	36
11 to 30 miles	34
31 or more miles	7
Mean / average	14.51

^a Cell entries are percentages (%) unless specified as means / averages

Previous Visitation. Users were asked if they had ever visited Luckiamute Landing State Natural Area before their most recent trip. Table 6 shows that 68% of respondents had visited this park before, whereas 32% had not visited previously.

Table 6. Day user previous visitation to the park

	Day Users (%)
Yes, visited park before	68
No, not visited park before	32

Users who had previously visited this park were then asked how many trips they had made to this park in the past 12 months. Table 7 shows that users had visited an average of approximately 13 times in the past 12 months. The highest proportion (29%) had visited the park three to five times, with 18% visiting 13 to 24 times and 18% visiting two times in the past year. Only 1% of users had never visited the park before with 4% making just one trip during the last 12 months.

Table 7. Day user number of previous visits to the park in the last 12 months ^a

	Day Users (%)
0 Trips	1
1 Trip	4
2 Trips	18
3 to 5 Trips	29
6 to 12 Trips	17
13 to 24 Trips	18
More than 24 Trips	14
Mean / average trips ^c	13.13

^a Cell entries are percentages (%) unless specified as means / average

Group Size. Respondents were asked to report how many people, including themselves, accompanied them at Luckiamute Landing State Natural Area on their most recent trip. Table 8 shows that the average group size was less than two people. Groups most commonly consisted of one (47%) and two people (35%). Few users visited in groups of four (6%) or five or more people (1%).

Table 8. Day user group size at the park ^a

	Day Users (%)
1 Person (alone)	47
2 People	35
3 People	12
4 People	6
5 or more people	1
Mean / average ^c	1.78

^a Cell entries are percentages (%) unless specified as means / average

Bringing Dogs to the Park. The questionnaires asked respondents if they or anyone else in their group brought dog(s) with them to Luckiamute Landing State Natural Area. Table 9 shows that 43% of park users brought dogs with them and 57% did not bring dogs.

Table 9. Day users bringing dogs with them to the park

	Day Users (%)
No, did not bring dog(s)	57
Yes, brought dog(s)	43

Transportation to the Park. Respondents were asked how they got to Luckiamute Landing State Natural Area on their most recent trip. Table 10 shows that almost all users arrived at the park in their family’s personal vehicle (92%), 7% arrived in somebody else’s vehicle, and another 1% arrived in another form of transportation. On average, there were 2.02 people in each personal family vehicle, and 2.86 people in somebody else’s vehicle. Bicycling was the most popular “other” way people reached the park. For all day use vehicles, there was an average of 2.04 people in the vehicle.

Table 10. Day user transportation to the park

	Day Users (%)
My family’s personal vehicle ^a	92
Somebody else’s personal vehicle ^b	7
Other ^c	1

^a Number of people in vehicle: mean / average = 2.02

^b Number of people in vehicle: mean / average = 2.86

^c Number of people in vehicle: mean / average = N/A

Reasons for Visiting. Visitors were asked if this park was the main reason for their trip. Table 11 shows that 88% of users considered this park their main destination for their recreational activities with 7% indicating the visit to this park was for recreation, but was not their main destination.

Table 11. Day users in whether the park was their main destination ^a

	Day Users (%)
Primarily for recreation – this park was main destination	88
Primarily for recreation – main destination was not this park	7
Primarily for business, family, or other reasons – park was side trip	0
Some other reason	5

Alternatives to Visit. Respondents were then asked what things they would have considered doing if they were not able to go to Luckiamute Landing State Natural Area for this visit. As shown in Table 12, most users responded that, if unable to go to the park for this visit, they would have either gone somewhere else for the same activity (61%), come back another time (20%), or stayed home (9%). Furthermore, if unable to visit the park, day users reported that they would have traveled approximately 14 miles for the same activity and 13 miles for a different activity.

Table 12. Day user alternatives to park visit

	Day Users (%)
Gone somewhere else for same activity ^a	61
Come back another time	20
Stayed home	9
Something else (none of these)	4
Gone somewhere else for a different activity ^b	4
Gone to work at my regular job	2

^a If gone somewhere else for same activity, how far from home is the place you would have gone instead: mean / average = 14.24 miles.

^b If gone somewhere else for different activity, how far from home is the place you would have gone instead: mean / average = 13.13 miles.

Respondents were also asked to specify what other park they would consider going to if they had not been able to go to Luckiamute Landing State Natural Area. Many users indicated that they would visit Adair County Park, Tadena Landing Park, Bald Hill Natural Area, McDonald Dunn Forest, E.E. Wilson Wildlife Area, William L. Finley National Wildlife Refuge, Minto-Brown Island Park, Sarah Helmick State Recreation Site, Peavy Arboretum, Willamette City Park, and the Oregon Coast.

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

- The most popular activities were hiking or walking (85%), dog walking (42%), and bird or wildlife watching (40%). The least popular activities were boating (4%), bicycling on local roads (10%), running or jogging (10%), fishing (12%), and picnicking or barbecuing (12%).
- The most common main activity groups were hiking or walking (44%), and dog walking (25%). The least common activity groups were boating (motor, canoe, kayak), picnicking or barbecuing, sightseeing, and running or jogging (all 1%).
- Day users spent an average of over two hours in the park, with 87% of users spending up to three hours in the park. The majority of day users (38%), however, spent two hours in the park.
- The majority of visitors were local with 59% living within ten miles from the park, and another 34% originating 11 to 30 miles from the park. Only 7% of respondents traveled over 30 miles to reach the park. Day users, on average, traveled approximately 14.5 miles to visit the park.

- In total, 68% of respondents had visited this park before, whereas 32% had not visited previously.
- Users had visited an average of approximately 13 times in the past 12 months. The highest proportion (29%) had visited the park three to five times, with 18% visiting 13 to 24 times and 18% visiting two times in the past year. Only 1% of users had never visited the park before with 4% making just one trip during the last 12 months.
- Average group size was less than two people. Groups most commonly consisted of one (47%) and two people (35%). Few users visited in groups of four (6%) or five or more people (1%).
- In total, 43% of park users brought dogs with them and 57% did not bring dogs.
- Most users arrived at the park in their family's personal vehicle (92%), 7% arrived in somebody else's vehicle, and another 1% arrived in another form of transportation. On average, there were 2.02 people in each personal family vehicle, 2.86 people in somebody else's vehicle. For all day use vehicles, there was an average of 2.04 people in the vehicle.
- Almost all (88%) of users considered this park their main destination for their recreational activities with 7% indicating the visit to this park was for recreation, but was not their main destination.
- If they had been unable to go to Luckiamute Landing State Natural Area for this visit, most park visitors would have either gone somewhere else for the same activity (61%), come back another time (20%), or stayed home (9%). Furthermore, if unable to visit the park, day users reported that they would have traveled approximately 14 miles for the same activity and 13 miles for a different activity.
- If they had been unable to go to Luckiamute Landing State Natural Area for this visit, many day users would have gone to Adair County Park, Tadena Landing Park, Bald Hill Natural Area, McDonald Dunn Forest, E.E. Wilson Wildlife Area, William L. Finley National Wildlife Refuge, Minto-Brown Island Park, Sarah Helmick State Recreation Site, Peavy Arboretum, Willamette City Park, and the Oregon Coast.

Physical Activity and Other Health Benefits

Day users were asked their extent of participation in moderate physical activity (e.g., walking, bicycling, canoeing at a moderate pace), and vigorous physical activity (e.g., jogging, walking, or bicycling at a vigorous pace, breaking a sweat, heart beating rapidly) during their trip to Luckiamute Landing State Natural Area (Table 13). A majority of all visitors indicated that they participated in moderate physical activity (89%), while 30% indicated participating in vigorous physical activity. Visitors who indicated participating in moderate and vigorous physical activity spent an average of approximately 78 minutes participating in moderate physical activity and 63 minutes participating in vigorous physical activity.

Table 13. Day user participation in moderate and vigorous physical activity during visit ^a

Moderate Physical Activity	
No	11
Yes	89
Avg (min)	78.09
Vigorous Physical Activity	
No	70
Yes	30
Avg (min)	63.10

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

Furthermore, 53% of all visitors indicated that their level of physical activity during their visit to Luckiamute Landing State Natural Area was about the same as their daily life, whereas 37% indicated it was more, and 10% indicated it was less (Table 14).

Table 14. Comparison of day user level of physical activity at park to daily life

	Day Users (%)
Physical activity ABOUT THE SAME as daily life	53
Physical activity MORE than daily life	37
Physical activity LESS than daily life	10

Park visitors were asked to rate the degree that their visit to Luckiamute Landing State Natural Area had improved their mental and physical health. Table 15 shows that, overall, park visitors reported their visit helped to reduce stress (83%), improve mental health (86%), and reduce anxiety (78%). Fewer users indicated that their visit improved their level of physical fitness (68%) or improved their physical health (74%).

Table 15. Day user physical and mental health benefits related to park visitation

	Day Users (%) ^a
Reducing stress	83
Improving mental health	86
Reducing anxiety	78
Improving physical health	74
Improving level of physical fitness	68

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

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

- A majority of all visitors indicated that they participated in moderate physical activity (89%), while 30% indicated participating in vigorous physical activity. Visitors who indicated participating in moderate and vigorous physical activity spent an average of approximately 78 minutes participating in moderate physical activity and 63 minutes participating in vigorous physical activity.
- Over half (53%) of all visitors indicated that their level of physical activity during their visit to Luckiamute Landing State Natural Area was about the same as their daily life, whereas 37% indicated it was more, and 10% indicated it was less.
- Park visitors reported their visit helped to reduce stress (83%), improve mental health (86%), and reduce anxiety (78%). Fewer users indicated that their visit improved their level of physical fitness (68%) or improved their physical health (74%).

Visitor Spending

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

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

- The number of nights spent away from home in the local area was greater than 30,

- The reported size of the group was greater than 10 individuals,
- Spending per day/night was greater or equal to \$500 or spending on recreation and equipment rental was greater or equal to \$500 in total.

Table 16 includes the percentages of all park day users that are local and non-local visitors. Most visitors to the park are locals (living within 30 miles of the park; 92%).

Table 16. Day users, local / non-local

	Day Users (%)
Local	92
Non-Local	8

Table 17 shows the proportion of total spending for local and non-local day users and reported on a party trip basis. The majority of local day users reported spending \$1-\$25 (52%) or spending no money (23%), while the majority of non-local day users reported spending \$26-\$50 (46%) and \$1-\$25 (27%). The majority of all day users reported spending \$1-\$25 (49%) or spending no money (21%).

Table 17. Local and non-local day user total local spending in dollars per party per trip

	Local (%)	Non-local (%)	All (%)
Spent no money	23	0	21
\$1 - \$25	52	27	49
\$26 - \$50	14	46	17
\$51 - \$150	8	18	10
\$151 - \$350	2	9	3
\$351 - \$500	0	0	0

Table 18 includes the proportion of visitor parties that reported spending any dollars on the eight spending categories (e.g., motel, camping, restaurants and bars, groceries, etc.). For local day use visitors, most reported spending some money on gasoline and oil (71%). Most non-local day visitors reported spending money on gasoline and oil (100%), restaurants and bars (83%), and groceries (71%). Most visitors to Luckiamute Landing State Natural Area reported spending some money on gasoline and oil (73%).

Table 18. Local and non-local day user party spending of any dollars in eight spending categories

Spending Categories	Local (%)	Non-local (%)	All ^a (%)
Gasoline and oil	71	100	73
Groceries	30	71	35
Restaurants and bars	29	83	34
Souvenirs, clothing, and other miscellaneous	8	33	9
Recreation and equipment (guide fees, equipment rental)	2	33	6
Motel, lodge, cabin, B&B, other lodging	4	33	5
Park entry, parking, or recreation use fees	4	0	4
Camping	2	0	2

Visitors indicated that they would spend no more than an average of \$20 than they already spent at Luckiamute Landing State Natural Area before they would consider not taking the trip (Table 19). The highest percentage of day users (47%) would be willing to spend an additional \$1-\$25, with another 33% not willing to spend any more than they already spent.

Table 19. Day user additional spending before deciding not to visit

	Day Users (%)
No more than already spent	33
\$1 - \$25	47
\$26 - \$50	14
\$51 - \$150	4
\$151 - \$350	1
\$351 - \$550	0
\$551 – and up	0
Avg (\$)	19.55

Respondents were asked to indicate if they were staying away from home within 30 miles of Luckiamute Landing State Natural Area, and the number of nights they were staying if they were. Table 20 shows that only 3% of visitors were staying away from home within 30 miles of the park. Of those users staying away from home within 30 miles of the park, respondents indicated staying an average of over one and a half nights (1.67).

Table 20. Day user nights staying away from home within 30 miles of park

	Day Users
Staying away from home ^a	3
Mean number of nights ^b	1.67

^a Cell entries in this row are percentages (%) of visitors staying away from home within 30 miles.

^b Cell entries in this row are mean (avg) nights staying away from home within 30 miles.

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

- Most visitors to the park were locals (living within 30 miles of the park; 92%).
- The majority of local day users reported spending \$1-\$25 (52%) or spending no money (23%), while the majority of non-local day users reported spending \$26-\$50 (46%) and \$1-\$25 (27%). The majority of all day users reported spending \$1-\$25 (49%) or spending no money (21%).
- Most local day-use visitor parties reported spending on gasoline and oil (71%),. Most non-local day visitors reported spending money on gasoline and oil (100%), restaurants and bars (83%), and groceries (71%). Most visitors to Luckiamute Landing State Natural Area reported spending some money on gasoline and oil (73%).
- Day users reported that they would spend no more than an average of \$20 than they already spent before deciding not to visit the park. The largest percentage of day users (47%) would be willing to spend an additional \$1-\$25, with another 33% not willing to spend any more than they already spent.
- Only 3% of visitors were staying away from home within 30 miles of the park. Of those users staying away from home within 30 miles of the park, respondents indicated staying an average of over one and a half nights (1.67).

Obtaining Information about the Parks

The questionnaires contained several questions examining how users obtained information about state parks such as Luckiamute Landing State Natural Area and whether they were able to obtain the information they needed. Table 21 shows that almost all users (94%) were able to find the information they needed when planning their visit to this park, and the few (6%) who did not find the information they needed would like: highway signs with directions to the park,

information on wildlife ecology and cultural history, and maps with trail distances and information.

Table 21. Whether day users found the information needed about the park

	Day Users (%)
Yes, found the information needed	94
No, did not find the information needed ^a	6

^a The most popular information needed was: highway signs; information on wildlife, ecology, and cultural history; maps with trail distances and information

Respondents were also presented with a list of 16 possible sources for finding information and asked how often they obtained information from these sources when thinking about visiting a park such as Luckiamute Landing State Natural Area. Table 22 shows that the most heavily used sources of information were previous visits (73% used sometimes or often), friends or family members (67%), highway signs (66%), and official internet websites (58%). The least used sources were health care providers (7%), videos / DVDs (10%), community organizations (12%), and the radio (18%). The most popular other ways users obtained information about the park was through word of mouth, the Willamette River Recreation Guide, Oregon Department of Fish and Wildlife, geocaching, and exploring.

Table 22. Day user use of information sources

	Day Users (%) ^a
Previous visit	73
Friends or family members	67
Highway signs	66
Official internet websites	58
Brochures	43
Books	35
Magazines	32
Newspapers	31
Social media websites	30
Other	30
Television	21
Work	21
Radio	18
Community organization or church	12
Videos / DVDs	10
Health care providers	7

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

^b The most popular “other” ways were: google earth, word of mouth, Willamette River recreation guide, Oregon Department of Fish and Wildlife, geocaching, and exploring.

Respondents were then asked to specify from this list of information sources what one source they would first use when obtaining information about a park such as Luckiamute Landing State Natural Area. Table 23 shows that official internet websites (e.g., Oregon State Parks, Travel Oregon; 53%) was overwhelmingly the first primary source used by most respondents, followed by friends or family members (21%), and highway signs (7%). Few people used other sources when obtaining information.

Table 23. Day user’s primary information sources

	Day Users (%)
Official internet websites	53
Friends or family members	21
Highway signs	7
Brochures	5
Previous visit	4
Social media websites	3
Books	2
Other	2
Newspapers	1
Magazines	1
Radio	1

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

- Almost all users (94%) were able to find the information they needed when planning their visit to this park, and the few (6%) who did not find it would like highway signs with directions to the park, information on wildlife ecology and cultural history, and maps with trail distances and information.
- The most heavily used sources of information were previous visits (73% used sometimes or often), friends or family members (67%), highway signs (66%), and official internet websites (58%). The least used sources were health care providers (7%), videos / DVDs (10%), community organizations (12%), and the radio (18%). The most popular other ways users obtained information about the park was through word of mouth, the Willamette River Recreation Guide, Oregon Department of Fish and Wildlife, geocaching, and exploring.
- Official internet websites (e.g., Oregon State Parks, Travel Oregon; 53%) was overwhelmingly the first primary source used by most respondents to find information

about the park, followed by friends or family members (21%), and highway signs (7%). Few people used other sources when obtaining information.

Satisfaction with Experiences and Conditions

Overall Satisfaction. Respondents were asked “overall, how dissatisfied or satisfied were you with your *overall experience* at Luckiamute Landing State Natural Area?” Table 24 shows that overall satisfaction was high, as 91% were satisfied and almost no respondents (9%) were dissatisfied. In addition, the highest proportion of users was “very satisfied” (55%).

Table 24. Day user overall satisfaction

	Day Users (%)
Very Satisfied	55
Satisfied	36
Dissatisfied or Neutral	9

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

Table 25 shows that the most important characteristics were the opportunities to escape crowds of people (95%), absence of litter (93%), overall cleanliness of park (e.g., lawn care, lack of graffiti; 89%), cleanliness / conditions of toilets / bathrooms (83%), and condition / maintenance of park trails (80%). The least important attributes were the facilities for groups to gather (24%), number and amount of information / education programs or materials (32% to 40%), ease of movement or access (e.g., wheelchair, elderly, stroller; 32%), and the presence of park rangers / personnel (41%).

Table 25. Day user specific *expectations* at the park

	Day Users (%) ^a
Opportunities to escape crowds of people	95
Absence of litter	93
Overall cleanliness of park (e.g., graffiti, lawn care)	89
Cleanliness / conditions of toilets / bathrooms	83
Condition / maintenance of park trails	80
Personal safety	76
Courteousness of park rangers / personnel	75
Parking for vehicles	75
Number of park trails	69
Number of toilets / bathrooms	67
Signs with directions in the park	64
Information specifically about condition or hazards in the park	61
Signs with directions to the park	54
Variety of things to do	44
Presence of park rangers / personnel	41
Quality of information / education programs or materials	40
Ease of movement or access (e.g., wheelchair, elderly, stroller)	32
Number of information / education programs or materials	32
Facilities for groups to gather	24

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

Table 26 shows that the majority of users were satisfied with most of these characteristics at Luckiamute Landing State Natural Area. Users were most satisfied with overall park cleanliness (97%), opportunities to escape crowds of people (93%), absence of litter (91%), personal safety (90%), condition / maintenance of park trails (84%), the courteousness of park rangers / personnel (83%), and the number of toilets / bathrooms (81%). Users were least satisfied with the facilities for groups to gather (42%), number and quality of education programs (47% to 49%), ease of movement or access (e.g., wheelchair, elderly, stroller; 52%), information specifically about conditions or hazards in the park (53%).

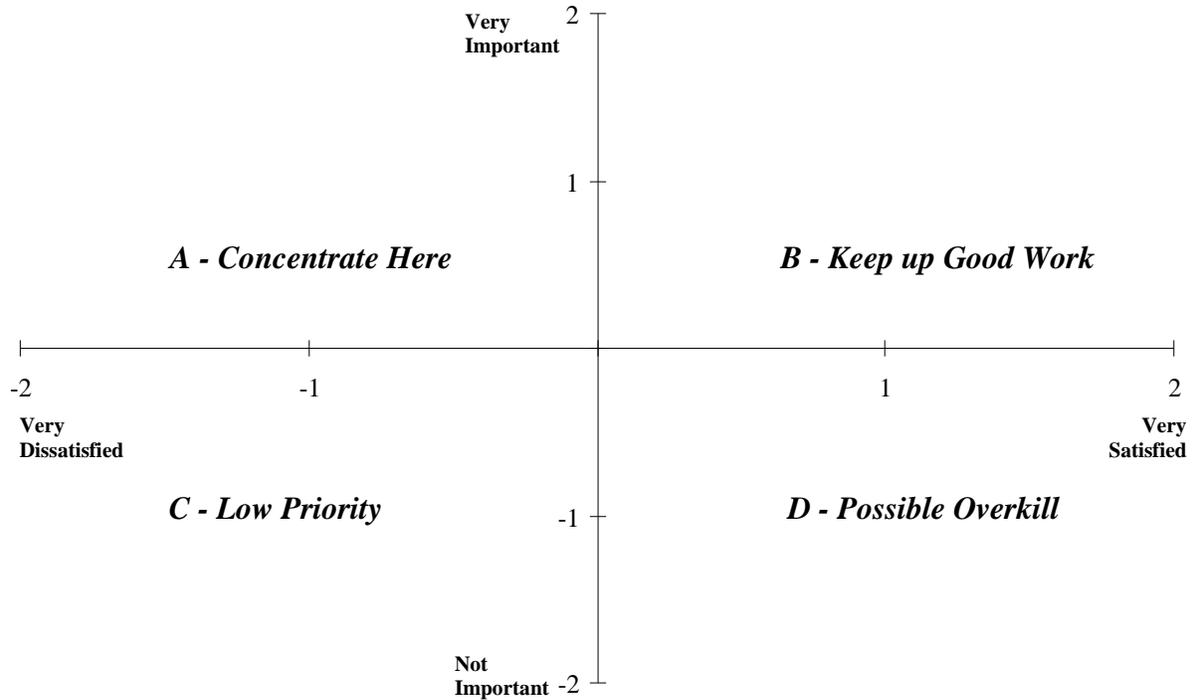
Table 26. Day user specific *satisfactions* at the park

	Day Users (%) ^a
Overall cleanliness of park (e.g., graffiti, lawn care)	97
Opportunities to escape crowds of people	93
Absence of litter	91
Personal safety	90
Condition / maintenance of park trails	84
Courteousness of park rangers / personnel	83
Number of toilets / bathrooms	81
Parking for vehicles	80
Cleanliness / conditions of toilets / bathrooms	79
Number of park trails	76
Variety of things to do	76
Presence of park rangers / personnel	74
Signs with directions to the park	65
Signs with directions in the park	60
Information specifically about condition or hazards in the park	53
Ease of movement or access (e.g., wheelchair, elderly, stroller)	52
Quality of information / education programs or materials	49
Number of information / education programs or materials	47
Facilities for groups to gather	42

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

Importance – Performance Analysis.

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



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

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

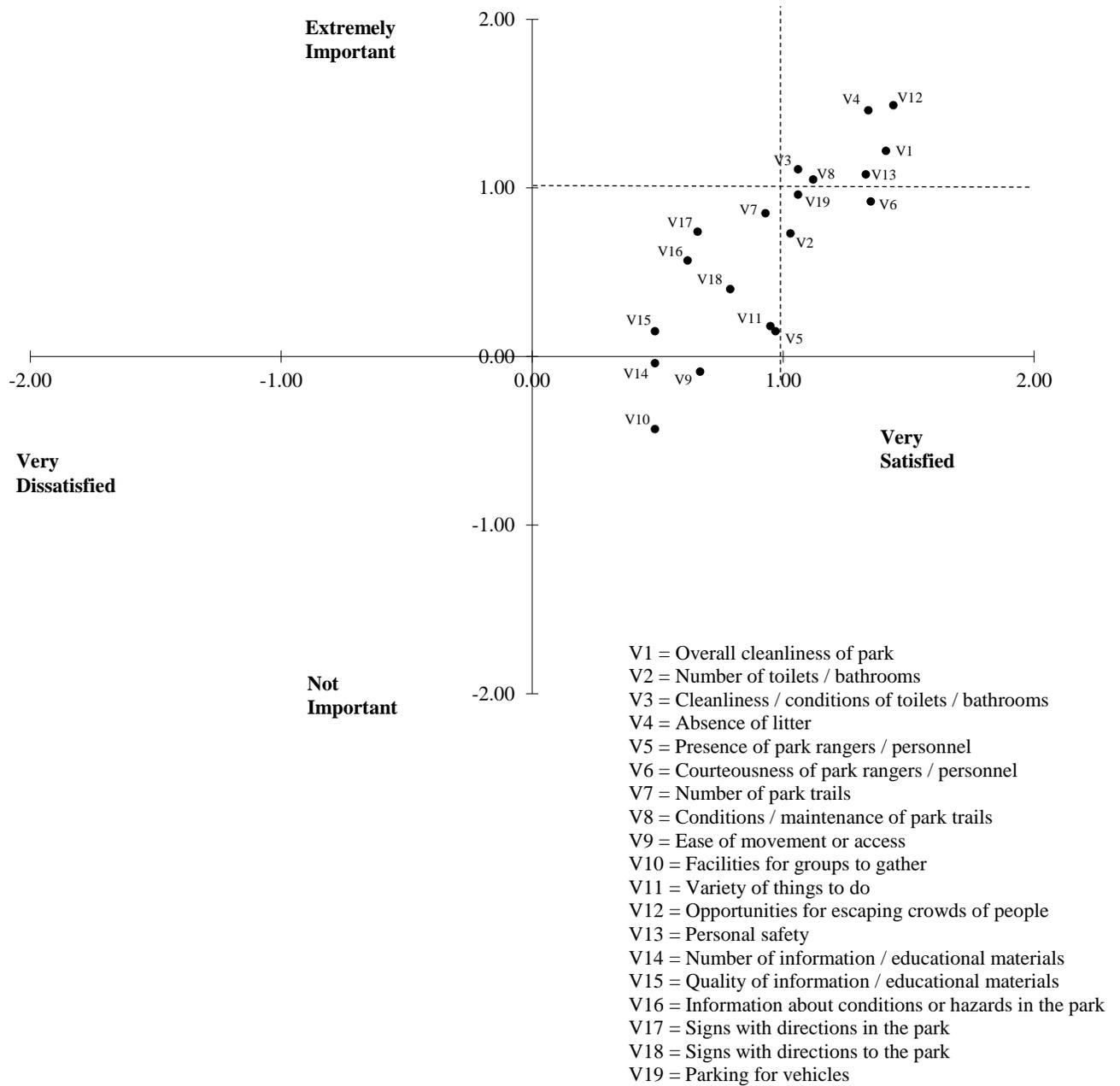


Figure 2 is the I-P matrix for day users. The matrix shows that almost all attributes were in the “keep up the good work” quadrant, indicating that users thought that park staff were doing a good job managing conditions and experiences at Luckiamute Landing State Natural Area. For this state park visitor survey project, we are also taking a closer examination of I-P scores in the “keep up the good work” quadrant within the dashed lines included in Figures 2. These results reveal that there were no attributes that fell into the “concentrate here” quadrant.

Respondents were asked several additional questions about their satisfaction with Luckiamute Landing State Natural Area, including this park’s natural environment, facilities and services, and fees. Users were also asked how likely they would return to this state park. Table 27 shows high user satisfaction with the environment (92%), and the facilities and services (90%). In total, 92% of respondents said they were likely to return to this park in the future.

Table 27. Day user likelihood of returning and satisfaction with the park facilities and environment

	Day Users (%)
Satisfaction with natural environment ^a	92
Satisfaction with facilities and services ^a	90
Likelihood of returning ^b	92

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

^b Cell entries are percentages (%) of users who said they were “likely” or “very likely” to return to the park in the future.

Table 28 shows that almost all visitors (98%) to Luckiamute Landing State Natural Area would recommend the park to their friends or family. Reasons respondents indicated they would not recommend the park were because they do not want more hunters at the park, too much poison oak, and they do not want others to come and infringe on the natural setting.

Table 28. Day user recommendation of park to friends and family

	Day Users (%)
Yes, recommend park	98
No, would not recommend park	2

Outstanding Features. Users also provided 122 verbatim open ended comments on what they found to be the most outstanding features or things to do at Luckiamute Landing State Natural Area. The most common outstanding features or things to do involved: (a) fishing; (b) hiking; (c) the beauty of the natural scenery; (d) tranquility and quietness; (e) wildlife viewing; (f) river access; and (g) lack of crowds.

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

Table 29 shows that, on average, day users felt not at all crowded. More specifically, only 11% of all park users felt some degree of crowding on their visit. According to Shelby, Vaske, and Heberlein (1989), and Vaske and Shelby (2008), these results suggest that crowding in this park is in the “suppressed crowding” range, and crowding is likely limited by management, situational factors, or natural factors and may offer unique low-density experiences.

Table 29. Day user crowding evaluations

	Day Users
Perception of crowding ^a	1.54
Reported feeling crowded (%)	11

^a Mean on 9 point crowding scale of 1-2 “not at all crowded” to 3-4 “slightly crowded” to 5-7 “moderately crowded” to 8-9 “extremely crowded.” (Median = 1, Mode = 1).

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

- Users considered the most important characteristics at this park were the opportunities to escape crowds of people (95%), absence of litter (93%), overall cleanliness of park (e.g., lawn care, lack of graffiti; 89%), cleanliness / conditions of toilets / bathrooms (83%), and condition / maintenance of park trails (80%). The least important attributes were the facilities for groups to gather (24%), number and amount of information / education programs or materials (32% to 40%), ease of movement or access (e.g., wheelchair, elderly, stroller; 32%), and the presence of park rangers / personnel (41%).
- Overall satisfaction among users was high, as 91% were satisfied with the highest proportion of users being “very satisfied” (55%). Almost no respondents (9%) were dissatisfied.
- Users were most satisfied with overall park cleanliness (97%), opportunities to escape crowds of people (93%), absence of litter (91%), personal safety (90%), condition / maintenance of park trails (84%), the courteousness of park rangers / personnel (83%),

and the number of toilets / bathrooms (81%). Users were least satisfied with the facilities for groups to gather (42%), number and quality of education programs (47% to 49%), ease of movement or access (e.g., wheelchair, elderly, stroller; 52%), information specifically about conditions or hazards in the park (53%).

- An Importance – Performance analysis showed that almost all park attributes were in the “keep up the good work” category, indicating that users thought that staff were doing a good job managing conditions and experiences. No attributes, however, fell into the “concentrate here” quadrant.
- Most respondents were also satisfied with the natural environment (92%), and the facilities and services (90%).
- Most respondents (92%) said they were likely to return to this park in the future.
- Almost all visitors (98%) to Luckiamute Landing State Natural Area would recommend the park to their friends or family. Reasons respondents indicated they would not recommend the park were because they do not want more hunters at the park, too much poison oak, and they do not want others to come and infringe on the natural setting.
- The most commonly reported outstanding features and things to do at Luckiamute Landing State Natural Area involved: (a) fishing; (b) hiking; (c) the beauty of the natural scenery; (d) tranquility and quietness; (e) wildlife viewing; (f) river access; and (g) lack of crowds.
- Day users felt not at all crowded, with 11% of all park users feeling some degree of crowding on their visit. These results suggest that crowding in this park is in the “suppressed crowding” range, and crowding is likely limited by management, situational factors, or natural factors and may offer unique low-density experiences.

Attitudes About Programs and Management Strategies

Let's Go Program Interest. The questionnaires asked respondents to indicate if they, or their family members, would consider participating in a weekend program (i.e., Let's Go program) for beginners to learn basic outdoor skills and to identify all of the skills they would be interested in learning about. Table 30 indicates that 55% of day users would consider participating in such a program at a nearby park. From those who indicated overall interest in Let's Go programs, the

most popular programs were birding (32%), hiking (25%), kayaking (24%), and rafting (23%). The least supported Let’s Go programs were disc golfing (7%), geocaching (8%), scenic bicycling on roads (10%), and horseback riding (10%). The most popular “other” programs were plant identification, hunting, and hunting safety.

Table 30. Day user consideration of participating in “Let’s Go” programs

Day Users (%) ^a	
Overall Interest	
Yes	55
Specific Program Interest	
Birding	32
Hiking	25
Kayaking	24
Rafting	23
Fishing	21
Stargazing	21
Canoeing	19
Mountain biking	13
Rock climbing	13
Camping	12
Horseback riding	10
Scenic bicycling on roads	10
Geocaching	8
Disc golfing	7
Other ^b	5

^a Cell entries are percentages (%) of users who reported interest in “Let’s Go” programs.

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

^b The most popular “other” programs were: plant identification, hunting, and hunting safety.

Respondents were also asked if they, or members of their group, participated in any concession service / activity such as a guided tour (e.g., fishing, rafting, bicycling, scenic, historic) or equipment rental (e.g., kayak, bicycle). Table 31 shows that only 1% of day users utilized a concession service or activity while at Luckiamute Landing State Natural Area. The most popular concession service / activity was bicycling.

Table 31 Day user participation in concession services/activities

Day Users (%)	
Utilized a concession service/activity ^a	1
Did not utilize a concession service/activity	99

^a The most popular concession services/activities indicated were: bicycling.

Attitudes About Management Strategies. Several items in the questionnaire examined user attitudes about possible management strategies at Luckiamute Landing State Natural Area. Users were asked, for example, the extent they opposed or supported several potential new strategies for this park. Table 32 shows that the most strongly supported strategies were to provide more opportunities at the park for escaping crowds (88%), more opportunities for viewing wildlife (86%), more opportunities for hiking (76%), restoring park to historical conditions (62%), to not change anything (62%), provide more information / education (nature, history, archeology; 58%), more natural buffers to block views of development outside park (55%), and more recycling containers (50%). The least supported strategies were to close the park to all recreation and tourism activities (6%), limit the number of people allowed per day (8%), provide food for sale (restaurants, snack shops; 9%), wireless internet access in the park (11%), more enclosed shelters (16%), and downloadable mobile phone applications (19%).

Table 32. Day user attitudes about management at the park

	Day Users (%) ^a
More opportunities for escaping crowds	88
More opportunities for viewing wildlife	86
More opportunities for hiking	76
Restore park to historical conditions	62
Do not change anything / keep things as they are now	62
More information / education (nature, history, archeology)	58
Natural buffers to block views of development outside park	55
More recycling containers	50
Limit the number of large groups allowed per day	49
Improved maintenance or upkeep of facilities / services	43
Make the park more pet friendly	41
More trash cans	40
Require all dogs be kept on leash at all times	31
More programs led by park rangers	26
More group picnic areas	24
More paved trails	24
Downloadable mobile phone applications	19
More enclosed shelters	16
Wireless internet access within the park	11
Food for sale (restaurants, snack shops, etc.)	9
Limit the number of people allowed per day	8
Close this park to all recreation / tourism activities	6

^a Cell entries are percentages (%) of users whose response was “support” or “strongly support” management action.

Park users were also asked the extent that they would oppose or support possible service reductions at Luckiamute Landing State Natural Area. Table 33 shows overall low support for service reductions with the highest support for returning the park to a natural area (47%), and

reduced ground maintenance (e.g., mowing; 24%). The least supported service reductions were for fewer hours open (2%), reduced janitorial services (13%), scaled down facilities (e.g., restrooms, shelters; 15%), and fewer ranger patrols (15%).

Table 33. Day user support of possible service reductions at the park

	Day Users (%)
Return the park to a natural area	47
Reduced ground maintenance (e.g., mowing)	24
Fewer ranger patrols	15
Scaled down facilities (e.g., restrooms, shelters)	15
Reduced janitorial services	13
Fewer hours open	2

^a Cell entries are percentages (%) of users whose response was “support” or “strongly support.”

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

- Over half (55%) of day users would consider participating in a Let’s Go program. Programs with the most interest were birding (32%), hiking (25%), kayaking (24%), and rafting (23%). The least supported Let’s Go programs were disc golfing (7%), geocaching (8%), scenic bicycling on roads (10%), and horseback riding (10%). The most popular “other” programs were plant identification, hunting, and hunting safety.
- Only 1% of day users indicated utilizing a concession service or activity (e.g., fishing, rafting, bicycling, scenic or historic tour) while at Luckiamute Landing State Natural Area. The most popular concession service / activity was bicycling
- Users most strongly supported management strategies designed to provide more opportunities at the park for escaping crowds (88%), more opportunities for viewing wildlife (86%), more opportunities for hiking (76%), restoring park to historical conditions (62%), to not change anything (62%), provide more information / education (nature, history, archeology; 58%), more natural buffers to block views of development outside park (55%), and more recycling containers (50%). The least supported strategies were to close the park to all recreation and tourism activities (6%), limit the number of people allowed per day (8%), provide food for sale (restaurants, snack shops; 9%), wireless internet access in the park (11%), more enclosed shelters (16%), and downloadable mobile phone applications (19%).
- There was overall low support for service reductions in the park. The highest support was for returning the park to a natural area (47%), and reduced ground maintenance (e.g.,

mowing; 24%), with the lowest support for reducing the number of hours open (2%), reducing janitorial services (13%), scaling down facilities (e.g., restrooms, shelters; 15%), and reducing ranger patrols (15%).

Sociodemographic Characteristics of Users

Table 34 shows demographic characteristics of users. There were more male (59%) than female (34%) users at Luckiamute Landing State Natural Area. The average age of respondents was 48 years old, and the largest proportions of users were 60 to 69 years old (26%) and 50 to 59 years old (25%). Almost all respondents were white (i.e., Caucasian; 96%) with few Asians (1%), Hispanic / Latinos (1%), Native Hawaiian or Pacific Islander (1%), and Blacks / African Americans (1%). The average annual household income before taxes of respondents was approximately \$58,600, and the largest proportion of users had incomes from \$30,000 to \$49,999 (23%) and \$50,000 to \$69,999 (23%). Visitors to Luckiamute Landing State Natural Area are generally wealthier than the Oregon population at large (Oregon median household income in 2010 was \$51,994). Almost all users (99%) considered English as the primary language spoken in their homes.

Table 34. Day user demographic characteristics

	Day Users ^a
Gender	
Female	34
Male	59
Age	
Less than 20 years old	3
20 – 29 years	12
30 – 39 years	19
40 – 49 years	11
50 – 59 years	25
60 – 69 years	26
70 – 79 years	3
80+ years old	1
Average age (mean years)	48
Household income (before taxes)	
Less than \$10,000	2
\$10,000 – \$29,999	10
\$30,000 – \$49,999	23
\$50,000 – \$69,999	23
\$70,000 – \$89,999	17
\$90,000 – \$109,999	10
\$110,000 – \$129,999	6
\$130,000 – \$149,999	2
\$150,000 – \$169,999	2
\$170,000 or more	3
Average income (mean dollars)	58,600
Ethnicity	
White (Caucasian)	96
Asian	1
Hispanic / Latino	1
Native Hawaiian or Pacific Islander	1
Black / African American	1
Language spoken most often at home	
English	99
Other	1

^a Cell entries are percentages (%) unless specified as means or averages.

Table 35 shows that all users resided in the USA (100%) with 99% of users residing in Oregon, and 1% residing in Nevada. Among park users, 94% resided in the Willamette Valley region of Oregon (<http://www.guidetooregon.com/regions/map.html>), 4% resided in the Portland Metro

region, and 2% resided in other states. No respondents indicated residing in the Coastal, Southern, Eastern, Central, or Mt. Hood / Gorge regions of the state.

Table 35. Day user location of residence

	Day Users (%)
Country	
USA	100
State	
Oregon ^a	99
Nevada	1

^a In total, 94% of park users resided in the Willamette Valley region of Oregon, 4% resided in the Portland Metro region, and 2% resided in other states. No respondents lived in the Coastal, Southern, Eastern, Central, or Mt. Hood / Gorge regions of the state.

Table 36 shows that 98% of users said that nobody in their group had a disability, whereas 2% had at least one group member with a disability. Of those who had a disability, 1% was associated with walking and another 1% was associated with hearing.

Table 36. Day user disabilities

	Day Users (%)
Disability in group	
No	98
Yes ^a	2

^a Types of disabilities: walking = 1%, hearing = 1%, other = 1%

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

- There were more male (59%) than female (34%) users at this park.
- The average age of users was approximately 48 years old, and the largest proportions of users were 60 to 69 years old (26%) and 50 to 59 years old (25%).
- The average annual household income before taxes of respondents was approximately \$58,600, and the largest proportion of users had incomes from \$30,000 to \$49,999 (23%) and \$50,000 to \$69,999 (23%). Visitors to Luckiamute Landing State Natural Area are generally wealthier than the Oregon population at large (Oregon median household income in 2010 was \$51,994).
- Almost all respondents were white (i.e., Caucasian; 96%) with few Asians (1%), Hispanic / Latinos (1%), Native Hawaiian or Pacific Islander (1%), and Blacks / African Americans (1%).

- Almost all respondents (99%) reported English as their primary language spoken in their homes.
- Approximately 99% of users resided in Oregon, and 1% resided in Nevada. Among park users, 94% resided in the Willamette Valley region of Oregon, 4% resided in the Portland Metro region, and 2% resided in other states. No respondents indicated residing in the Coastal, Southern, Eastern, Central, or Mt. Hood / Gorge regions of the state.
- In total, 98% of users said that nobody in their group had a disability, whereas 2% had at least one group member with a disability. Of those who had a disability, 1% was associated with walking and another 1% was associated with hearing.

RECOMMENDATIONS

Management Recommendations

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

- Almost all day and overnight users traveled to this park in their own vehicles (92%), so adequate parking is important and should be considered in planning and management.
- Almost half (43%) brought dogs with them to this park, so it will be important to ensure adequate facilities to accommodate dogs and their owners (e.g., pick up bags, signs specifying regulations or restrictions). Furthermore, 31% of all visitors supported requiring dogs be on leash at all times and 41% supported making the park more pet friendly.
- Almost all users (91%) were satisfied with their experiences and the conditions at this park. Satisfaction, however, was consistently lower for the amount (47%) and quality (49%) of information and education materials and programs. Managers may wish to evaluate these services to users to ensure they are meeting visitor needs.
- Approximately 11% of day users felt crowded at the park. These results suggest that crowding in this park is in the “suppressed crowding” range, and crowding is likely limited by management, situational factors, or natural factors and may offer unique low-density experiences.

- Users most strongly supported strategies designed to provide more opportunities at the park for escaping crowds (88%), more opportunities for viewing wildlife (86%), more opportunities for hiking (76%), restoring park to historical conditions (62%), to not change anything (62%), provide more information / education (nature, history, archeology; 58%), more natural buffers to block views of development outside park (55%), and more recycling containers (50%). Managers may want to consider some or all of these strategies.
- An Importance – Performance analysis showed that almost all park attributes were in the “keep up the good work” category, indicating that users thought that staff were doing a good job managing conditions and experiences.
- The largest proportion of users depended on official internet websites (53%) as the first primary source of obtaining information about parks such as Luckiamute Landing State Natural Area. Given these findings, it is imperative for staff to ensure that agency and park internet websites are easy to navigate, up to date, and provide comprehensive information.
- Almost all park visitors (94%) were able to find the information they needed when planning their visit to Luckiamute Landing State Natural Area. However, some visitors (6%) were not able to find all information needed. The most popular information needed was highway signs with directions to the park, information on wildlife ecology and cultural history, and maps with trail distances and information. This information could be added to the Luckiamute Landing State Natural Area website to inform future visitors regarding what other visitors feel are the most outstanding features at the park.
- Users also provided 122 verbatim open ended comments on what they found to be the most outstanding features or things to do at Luckiamute Landing State Natural Area. The most common outstanding features and things to do involved: (a) fishing; (b) hiking; (c) the beauty of the natural scenery; (d) tranquility and quietness; (e) wildlife viewing; (f) river access; and (g) lack of crowds.
- Users provided 92 verbatim open ended positive and negative comments, and suggestions for possible improvement of Luckiamute Landing State Natural Area and other park related issues. The most common concerns raised involved: (a) better enforcement of off leash dogs and the mess created by dogs; (b) removal of invasive species and poison oak;

(c) connect the trails; (e) provide running water for dogs and people; (f) more access to river; (g) monitor illegal behavior; (h) trail maintenance (fill holes, add directional signage); (i) keep the park natural; (j) interpretive signs about plants and wildlife; and (k) the conflict between hunters and non-hunters.

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APPENDIX A: OPEN-ENDED COMMENTS

Positive Comments

- Looks great now.
- Great park, keep up good work.
- Doing just fine currently.
- Don't change too much- keep it natural.
- I like it the way it is being kept now.
- I like it as it is now.
- It is great as is.
- It was already pretty great.
- Just fine as is.
- Just have a wonderful day.
- Just keep doing what you are doing. This park has been free of trash and vandalism, which is something I like to see.
- Keep doing what you're doing.
- Keep it simple and free.
- Keep up doing great job.
- Keep up the good work.
- Leave as is, no more improvements.
- Leave it alone to be most natural. I have appreciated the trail maintenance.
- Like it like it is now. Don't make it into a city-like park. Prefer it as a natural area.
- Nice as it is.
- Have enjoyed the state of this park for a number of years.
- Thank you.
- Very happy with the current state of the natural area.
- Very pleasant park. Had a most enjoyable time.
- We like it the way it is. Love to get away from everyone and enjoy the trails and water.
Thank you.

Negative Comments and / or Issues for Improvement

- As much as possible, maintain the natural, eliminate the invasive species, and keep hiking trails cleared.
- All dogs on leash.
- Eliminate hunting.
- Keep dogs on leash at all times.
- Provide information on signboard regarding activities available (hiking, bird watching), and the appropriate seasons or months when birds are visible.
- Nice to know what month you can expect to see types of birds, turtles, etc., and their nest times and other interesting information about the area (post a sign).
- Make the trail loop around (south trail).

- South trail to loop from beginning to end.
- More turtles.
- Remove poison oak.
- Trail signs so we can know where it is okay to walk and where not. Unsure what is the farmer's property and what is part of USNA. Thanks.
- Add bicycle rack at the entrance.
- Add drinking water to the site. Thanks.
- Better care of the weeds, there is way too much invasive pressure in former agriculture ground. Get Knap Weed, Wild Oats, thistle, St. Johns Wart & others under control. Get a better farmer tenant.
- Better river access for canoes and for swimming / wading.
- Bicycle racks and water.
- Bring back horse riding.
- Leave the park natural, and as is.
- Carve out a couple more banks to fish from.
- Cease acquiring more park land, and increase funding maintenance of existing parks.
- Clean out port-a-potties more often.
- Clear trail early in the year for better access.
- Keep it natural for wildlife, the beauty of nature, and the peace and quiet meditation.
- Concentrate money on the maintenance and improvement of park facilities and lands.
- Continue the restoration work.
- Continue to restore native vegetation.
- Link the trails.
- Do not improve it so that it gets more popular.
- Try to develop more educational materials to help visitors appreciate it as a natural area.
- Have water for dogs during warm weather.
- Easier access to rivers and ponds within park, especially for launching canoes and kayaks.
- A plate for some of the plants and trees to tell what kind of plant or tree it is.
- Forbid motorized vehicles to the river in this area.
- Funding for native plantings.
- Maybe develop more trails in wooded area.
- Improve maintenance of port-a-potty.
- Add more trails through forest.
- Enforce dog poop violations.
- Restrict river access to non-motorized only.
- Improve the last few feet of the river access trail. It is very steep and hard to get down.
- Information about the birds and other wildlife.
- More of the hay-strewn paths because they are easier to walk on and quiet so as not to scare the wildlife.
- Perhaps close it during winter when the area is underwater.

- Maybe a new picnic table, it's a little rough.
- Keep hunting access & game management.
- Keep it natural.
- Keep it off leash dog walk.
- Keep it open for all users including hunting.
- Keep it open for hunting. How come all State Recreation Sites exclude hunting? A major income to the state.
- Keep the blackberry and poison oak down.
- Keep the park as natural as possible. Eliminate invasive species and replace with natural plants. More funding and volunteers would help.
- Keep trail mowed.
- Large area in middle of park I think should be turned into a food plot for the animals.
- Could you bring back horse riding in this area?
- Longer hikes with overnight camping.
- More access and views of river.
- More areas where you can park and signs saying where to park.
- Put areas for mountain bike trails.
- More signs with directions and information.
- More river access from trail.
- More trails.
- More trails that lead to ponds.
- More trails through the lowland forest. Heard about it by word of mouth. Need more outreach.
- More trails to fishing areas.
- More trails.
- More trails.
- A large running area to be leash free (not caged in dog park) regardless of nesting season.
- Maybe check by the river occasionally to verify homeless people are not setting up camp in area.
- No firing of firearms
- Path maintenance.
- Maintenance of natural flora.
- Do not overdevelop. Providing a bathroom, trash, and recycle bins is enough. Thanks.
- Paths with dirt, filling in the really deep holes.
- At closing, have a ranger there.
- Planting the field with a crop that migrating waterfowl can use in the winter, producing more permanent ponds, and increasing duck habitat.
- Poison Oak is bad.
- Possibly add a water facet or tap for dog water.
- Post guideline for river campers.
- Allow dogs off leash all year.

-
- Post information if blackberries are sprayed.
 - Put hand sanitizer in the bathroom.
 - Remove the nesting bird regulation as that administrative rule no longer exists.
 - Restock the bags for dogs.
 - Restore natural vegetation.
 - Running water for drinking.
 - Stop the hunting. I don't feel safe in the park with people shooting and threatening to shoot us. Ban all fire arms from park.
 - The poison oak is out of control. That will keep us from coming here or recommending this park.
 - There is a desperate need for public lands to train gun dogs. Only Sauvie is open in spring and not convenient for people not from Portland.
 - Treat the poison oak around pond.
 - Beef up security just a bit. Thanks.
 - Parks needs to stay natural.
 - Running water.
 - We are working on prairie grass restoration; it would be nice to get more help on it.

APPENDIX B: QUESTIONNAIRES

**Day Visitor Experiences and Perceptions
at Luckiamute Landing State Natural Area**



Please Complete this Survey and Return it as Soon as Possible

Participation is Voluntary and Responses are Anonymous

Thank You for Your Participation

A Study Conducted by:



Nature
HISTORY
Discovery

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

1. Before this trip, had you ever visited Luckiamute Landing State Natural Area? (check ONE)
 - No
 - Yes → if yes, how many day trips have you made to this park in the past 12 months? (write number) _____ trip(s)

2. How many hours did you spend at Luckiamute Landing State Natural Area on this trip? (write number) _____ hour(s)

3. Please check all recreation activities you did at Luckiamute Landing SNA on this trip. (check **ALL THAT APPLY**)

<input type="checkbox"/> A. Hiking or walking	<input type="checkbox"/> E. Outdoor photography	<input type="checkbox"/> I. Boating (motor, canoe, kayak)
<input type="checkbox"/> B. Dog walking	<input type="checkbox"/> F. Sightseeing	<input type="checkbox"/> J. Fishing
<input type="checkbox"/> C. Running or jogging	<input type="checkbox"/> G. Picnicking or barbecuing	<input type="checkbox"/> K. Other (write response) _____
<input type="checkbox"/> D. Bicycling on local roads	<input type="checkbox"/> H. Bird or wildlife watching	_____

4. From activities in Question 3 above, what ONE primary activity did you do at Luckiamute Landing State Natural Area on this trip? (write a letter that matches your response)
 Letter for primary activity _____

5. Which of the following best describes the purpose of your trip? (check ONE)
 - Primarily for recreation – this park was my main destination
 - Primarily for recreation – my main destination was NOT this park
 - Primarily for business, family, or other reasons – this park was a side trip
 - Some other reason

6. About how far from your home did you travel to get to this park? (write number of miles) _____ mile(s)

7. Overall, how dissatisfied or satisfied were you with your overall experience at Luckiamute Landing SNA? (check ONE)
 - Very Dissatisfied
 - Dissatisfied
 - Neither
 - Satisfied
 - Very Satisfied

8. How dissatisfied or satisfied were you with the natural environment at Luckiamute Landing State Natural Area? (check ONE)
 - Very Dissatisfied
 - Dissatisfied
 - Neither
 - Satisfied
 - Very Satisfied

9. How dissatisfied or satisfied were you with the facilities / services at Luckiamute Landing State Natural Area? (check ONE)
 - Very Dissatisfied
 - Dissatisfied
 - Neither
 - Satisfied
 - Very Satisfied

10. How unlikely or likely are you to return to Luckiamute Landing State Natural Area in the future? (check ONE)
 - Very Unlikely
 - Unlikely
 - Neither
 - Likely
 - Very Likely

11. How **important** is it to you that each of the following is at Luckiamute Landing State Natural Area? (circle one number for **EACH**)

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

12. Now, how **dissatisfied or satisfied** were you with the following at Luckiamute Landing SNA? (circle a number for **EACH**)

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

13. To what extent do you **oppose or support** each of the following possible management actions at Luckiamute Landing SNA? **(circle one number for EACH)**

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

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

14. To what extent would you **oppose or support** each of the following possible service reductions at Luckiamute Landing SNA? **(circle one number for EACH)**

	Strongly Oppose	Oppose	Neither	Support	Strongly Support
Fewer hours open.	1	2	3	4	5
Fewer ranger patrols.	1	2	3	4	5
Scaled down facilities (e.g., fewer restrooms, picnic shelters).	1	2	3	4	5
Reduced janitorial services.	1	2	3	4	5
Return the park to a natural area.	1	2	3	4	5
Reduced ground maintenance (e.g., mowing, landscaping).	1	2	3	4	5

15. To what extent did you feel crowded at Luckiamute Landing State Natural Area on this trip? (**circle a number**)

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

16. **Including yourself**, how many people accompanied you at Luckiamute Landing SNA on this trip? _____ person(s)

17. Did you or anyone in your group bring dog(s) with you to Luckiamute Landing SNA? (**check ONE**) No Yes

18. Did anyone in your group have a disability?

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

19. When you were thinking about visiting an Oregon State Park such as Luckiamute Landing State Natural Area, about how often did you obtain information from each of the following sources when making your decision? (**circle one number for EACH**)

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

20. From the list of sources in question 19 above, which **ONE** would you use **FIRST** when obtaining information about an Oregon State Park? (**write letter**)

Letter _____

21. When planning your visit to Luckiamute Landing SNA, were you able to find the information you needed? (**check ONE**)

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

22. How did you get to Luckiamute Landing State Natural Area on this trip? (**check ONE**)

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

23. If you had NOT been able to go to Luckiamute Landing SNA for this visit, what would you have done? (**check ONE**)

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

24. If you had NOT been able to go to Luckiamute Landing State Natural Area for this visit, what other park(s) would you have considered going to instead? (**list park names**) _____

25. Would you recommend a Luckiamute Landing State Natural Area visit to friends or family members? (**check ONE**)

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

26. What do you feel are the most outstanding features or things to do at Luckiamute Landing State Natural Area? (write response)

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

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

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

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

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

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

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

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

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

31. Is your level of physical activity at Luckiamute Landing State Natural Area more than, less than, or about the same as your level of physical activity in your day-to-day life? **(check ONE)**

- My physical activity is MORE at Luckiamute Landing State Natural Area than my daily life.
- My physical activity is LESS at Luckiamute Landing State Natural Area than in my daily life.
- My physical activity is ABOUT THE SAME at Luckiamute Landing State Natural Area as it is in my daily life.

32. To what degree did this Luckiamute Landing State Natural Area visit result in the following health benefits for you? **(circle one number for EACH)**

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

33. For each of the following categories, please estimate how much you and other members of your party spent and plan to spend on this trip both inside the Park and within **30 miles** of Luckiamute Landing State Natural Area. **Please round off to the nearest dollar.**

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

34. Are you staying away from home either inside the Park or within 30 miles of Luckiamute Landing SNA on this trip? (**check ONE**)

No

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

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

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

37. How old are you? (**write response**) _____ years old

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

White (Caucasian)

Hispanic / Latino

American Indian or Alaskan Native

Other (write response) _____

Black / African American

Asian

Native Hawaiian or Pacific Islander

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

English

Spanish

Russian

Other (write response) _____

40. Where do you live? (**write responses**) City / town _____ State _____ Country _____ Zipcode _____

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

Less than \$10,000

\$90,000 to \$109,999

\$10,000 to \$29,999

\$110,000 to \$129,999

\$30,000 to \$49,999

\$130,000 to \$149,999

\$50,000 to \$69,999

\$150,000 to \$169,999

\$70,000 to \$89,999

\$170,000 or more

Please tell us how we can improve Luckiamute Landing State Natural Area:

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

APPENDIX C: UNCOLLAPSED PERCENTAGES

**Day Visitor Experiences and Perceptions
at Luckiamute Landing State Natural Area**



Please Complete this Survey and Return it as Soon as Possible

Participation is Voluntary and Responses are Anonymous

Thank You for Your Participation

A Study Conducted by:



Nature
HISTORY
Discovery

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

1. Before this trip, had you ever visited Luckiamute Landing State Natural Area? (**check ONE**)
 - 32% No
 - 68% Yes → if yes, how many day trips have you made to this park in the past 12 months? (**write number**) 13.13 trip(s)

2. How many hours did you spend at Luckiamute Landing State Natural Area on this trip? (**write number**) 2.06 hour(s)

3. Please check **all** recreation activities you did at Luckiamute Landing SNA on this trip. (**check ALL THAT APPLY**)

85% A. Hiking or walking	17% E. Outdoor photography	4% I. Boating (motor, canoe, kayak)
42% B. Dog walking	35% F. Sightseeing	12% J. Fishing
10% C. Running or jogging	12% G. Picnicking or barbecuing	19% K. Other (write response) _____
10% D. Bicycling on local roads	40% H. Bird or wildlife watching	_____ <u>see report</u> _____

4. From activities in Question 3 above, what **ONE primary activity** did you do at Luckiamute Landing State Natural Area on this trip? (**write a letter that matches your response**)

Letter for primary activity see report

5. Which of the following best describes the purpose of your trip? (**check ONE**)
 - 88% Primarily for recreation – this park was my main destination
 - 7% Primarily for recreation – my main destination was NOT this park
 - 0% Primarily for business, family, or other reasons – this park was a side trip
 - 5% Some other reason

6. About how far from your home did you travel to get to this park? (**write number of miles**) 14.51 mile(s)

7. Overall, how dissatisfied or satisfied were you with your **overall experience** at Luckiamute Landing SNA? (**check ONE**)

3% Very Dissatisfied	2% Dissatisfied	5% Neither	36% Satisfied	55% Very Satisfied
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8. How dissatisfied or satisfied were you with the **natural environment** at Luckiamute Landing State Natural Area? (**check ONE**)

2% Very Dissatisfied	1% Dissatisfied	5% Neither	46% Satisfied	47% Very Satisfied
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9. How dissatisfied or satisfied were you with the **facilities / services** at Luckiamute Landing State Natural Area? (**check ONE**)

1% Very Dissatisfied	1% Dissatisfied	8% Neither	49% Satisfied	42% Very Satisfied
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10. How unlikely or likely are you to return to Luckiamute Landing State Natural Area in the future? (**check ONE**)

2% Very Unlikely	2% Unlikely	4% Neither	27% Likely	66% Very Likely
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11. How **important** is it to you that each of the following is at Luckiamute Landing State Natural Area? (circle one number for **EACH**)

	Not Important		Neither		Extremely Important
Overall cleanliness of park (e.g., graffiti, lawn care).	2%	2%	7%	50%	39%
Number of toilets / bathrooms.	4	9	20	45	22
Cleanliness / conditions of toilets / bathrooms.	2	2	13	49	34
Absence of litter.	0	1	6	40	53
Presence of park rangers / personnel.	13	10	36	30	11
Courteousness of park rangers / personnel.	7	1	16	44	32
Number of park trails.	4	5	22	41	29
Condition / maintenance of park trails.	2	1	18	50	30
Ease of movement or access (e.g., wheelchair, elderly, baby stroller).	16	15	37	25	7
Facilities for groups to gather.	28	16	33	21	4
Variety of things to do.	12	13	31	35	10
Opportunities to escape crowds of people.	1	1	3	37	58
Personal safety.	1	4	19	38	38
Number of information / education programs or materials.	14	16	38	23	9
Quality of information / education programs or materials.	11	12	37	31	9
Information specifically about conditions or hazards in the park.	7	10	22	39	21
Signs about directions within the park.	7	7	22	34	30
Signs about directions to the park.	12	7	27	36	17
Parking for vehicles.	1	6	19	48	28

12. Now, how **dissatisfied or satisfied** were you with the following at Luckiamute Landing SNA? (circle a number for **EACH**)

	Very Dissatisfied	Dissatisfied	Neither	Satisfied	Very Satisfied
Overall cleanliness of park (e.g., graffiti, lawn care).	1%	0%	3%	51%	45%
Number of toilets / bathrooms.	1	5	13	51	30
Cleanliness / conditions of toilets / bathrooms.	1	3	17	48	32
Absence of litter.	1	3	5	45	47
Presence of park rangers / personnel.	1	1	24	46	28
Courteousness of park rangers / personnel.	0	0	17	31	52
Number of park trails.	1	4	20	53	22
Condition / maintenance of park trails.	0	4	13	51	32
Ease of movement or access (e.g., wheelchair, elderly, stroller).	1	3	44	31	21
Facilities for groups to gather.	3	3	52	27	15
Variety of things to do.	1	3	21	53	23
Opportunities to escape crowds of people.	1	0	6	41	52
Personal safety.	0	1	10	46	44
Number of information / education programs or materials.	3	7	43	32	16
Quality of information / education programs or materials.	4	6	41	36	13
Information specifically about conditions or hazards in the park.	1	3	43	39	14
Signs about directions within the park.	3	4	33	44	16
Signs about directions to the park.	2	3	30	43	21
Parking for vehicles.	1	3	17	50	30

13. To what extent do you **oppose or support** each of the following possible management actions at Luckiamute Landing SNA? **(circle one number for EACH)**

	Strongly Oppose	Oppose	Neither	Support	Strongly Support
Provide more opportunities for escaping crowds of people.	1%	2%	9%	36%	52%
Provide more opportunities for viewing wildlife.	1	1	13	45	41
Food for sale (restaurants, snack shops, etc.)	56	22	13	5	3
Provide more group picnic areas.	19	19	38	22	3
Provide more opportunities for hiking.	1	3	20	42	34
Provide more paved trails.	24	16	36	17	7
Provide more trash cans.	9	4	47	34	6
Provide more recycling containers.	5	7	38	41	9
Provide more information / education about nature, history, or archeology.	5	3	33	47	11
Provide more programs led by park rangers.	12	14	49	22	4
Provide wireless internet access within the park.	41	20	28	7	5
Provide downloadable mobile phone applications.	29	14	38	16	3
Provide more enclosed shelters.	29	15	41	13	3
Improve maintenance or upkeep of facilities / services.	6	3	49	31	12
Require all dogs be kept on leash at all times.	31	15	24	18	12
Make the park more pet friendly.	11	8	41	27	14
Provide natural buffers to block views of development outside the park.	4	6	35	32	23
Restore it to historical conditions (e.g., replace non-native with native plants)	5	7	26	29	33
Limit the number of people allowed per day.	27	27	39	5	3
Limit the number of large groups allowed (e.g., no more than 10-20 people).	13	10	28	28	21
Close this park to all recreation / tourism activities.	59	21	14	5	1
Do not change anything / keep things as they are now.	3	5	30	33	29

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

14. To what extent would you **oppose or support** each of the following possible service reductions at Luckiamute Landing SNA? **(circle one number for EACH)**

	Strongly Oppose	Oppose	Neither	Support	Strongly Support
Fewer hours open.	34%	40%	24%	2%	0%
Fewer ranger patrols.	15	18	52	10	5
Scaled down facilities (e.g., fewer restrooms, picnic shelters).	14	26	45	10	5
Reduced janitorial services.	18	30	39	10	3
Return the park to a natural area.	6	10	37	22	25
Reduced ground maintenance (e.g., mowing, landscaping).	13	22	41	17	7

15. To what extent did you feel crowded at Luckiamute Landing State Natural Area on this trip? (**circle a number**)

72%	17%	6%	1%	1%	3%	1%	0%	0%
Not at all Crowded		Slightly Crowded			Moderately Crowded		Extremely Crowded	

16. **Including yourself**, how many people accompanied you at Luckiamute Landing SNA on this trip? 1.78 person(s)

17. Did you or anyone in your group bring dog(s) with you to Luckiamute Landing SNA? (**check ONE**) 57% No 43% Yes

18. Did anyone in your group have a disability?

98% No

2% Yes → if yes, what are these disabilities? (**check ALL THAT APPLY**) 1% Hearing 0% Sight 1% Walking
0% Learning 1% Other _____

19. When you were thinking about visiting an Oregon State Park such as Luckiamute Landing State Natural Area, about how often did you obtain information from each of the following sources when making your decision? (**circle one number for EACH**)

	Never		Sometimes		Often
A. Official internet websites (e.g., Oregon State Parks, Travel Oregon).	34%	8%	33%	11%	14%
B. Social media internet websites (e.g., Facebook, Twitter).	61	9	22	4	4
C. Brochures.	47	11	30	8	6
D. Newspapers.	56	13	25	4	2
E. Magazines.	53	15	28	1	3
F. Books.	50	14	26	6	3
G. Television.	61	18	19	1	1
H. Videos / DVDs.	73	18	8	0	1
I. Radio.	64	19	14	2	1
J. Community organization or church.	74	15	9	1	1
K. Health care providers.	78	14	6	0	1
L. Work.	67	12	13	5	3
M. Friends or family members.	26	7	24	25	18
N. Highway signs.	23	12	24	26	16
O. Previous visit.	23	4	20	18	35
P. Other (write response) _____	63	7	14	5	12

20. From the list of sources in question 19 above, which **ONE** would you use **FIRST** when obtaining information about an Oregon State Park? (**write letter**)

Letter see report

21. When planning your visit to Luckiamute Landing SNA, were you able to find the information you needed? (**check ONE**)

94% Yes

6% No → if no, what additional information did you need? (**write response**) see report

22. How did you get to Luckiamute Landing State Natural Area on this trip? (**check ONE**)

- 92% My family's personal vehicle → how many total people were in the vehicle? 2.02 person(s)
- 7% Somebody else's personal vehicle → how many total people were in the vehicle? 2.86 person(s)
- 1% Other (write response) → how many total people were in the vehicle? N/A person(s)

23. If you had NOT been able to go to Luckiamute Landing SNA for this visit, what would you have done? (**check ONE**)

- 61% Gone somewhere else for the same activity → how far from home is the place you would go instead? 14.24 miles(s)
- 4% Gone somewhere else for a different activity → how far from home is the place you would go instead? 13.13 miles(s)
- 20% Come back another time
- 9% Stayed home
- 2% Gone to work at my regular job
- 4% Something else (none of these)

24. If you had NOT been able to go to Luckiamute Landing State Natural Area for this visit, what other park(s) would you have considered going to instead? (**list park names**) _____

see report

25. Would you recommend a Luckiamute Landing State Natural Area visit to friends or family members? (**check ONE**)

- 98% Yes
- 2% No → if no, why not? (**write response**) see report

26. What do you feel are the most outstanding features or things to do at Luckiamute Landing State Natural Area? (write response)

see report

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

- 45% No
- 55% Yes → if yes, what types of activities would you/your family be interested in learning about? (**check ALL THAT APPLY**)

- 32% Birding 7% Disc golfing 25% Hiking 13% Mountain biking 10% Scenic bicycling on roads
- 12% Camping 21% Fishing 10% Horseback riding 23% Rafting 21% Stargazing
- 19% Canoeing 8% Geocaching 24% Kayaking 13% Rock climbing 5% Other see report

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

- 99% No
- 1% Yes → if yes, what type of concession service/activity (write in response)

see report

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

11% No

89% Yes → if yes, how much time did you spend in moderate physical activity for this trip? 78.09 minutes

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

70% No

30% Yes → if yes, how much time did you spend in vigorous physical activity for this trip? 63.10 minutes

31. Is your level of physical activity at Luckiamute Landing State Natural Area more than, less than, or about the same as your level of physical activity in your day-to-day life? (check **ONE**)

37% My physical activity is MORE at Luckiamute Landing State Natural Area than my daily life.

10% My physical activity is LESS at Luckiamute Landing State Natural Area than in my daily life.

53% My physical activity is ABOUT THE SAME at Luckiamute Landing State Natural Area as it is in my daily life.

32. To what degree did this Luckiamute Landing State Natural Area visit result in the following health benefits for you? (circle one number for EACH)

	Not at all				A great deal
A. Reducing your stress.	2%	0%	15%	35%	48%
B. Improving your level of physical fitness.	2	1	28	36	32
C. Improving your physical health.	1	0	25	41	33
D. Improving your mental health.	2	1	12	42	44
E. Reducing your anxiety.	3	1	18	36	42

33. For each of the following categories, please estimate how much you and other members of your party spent and plan to spend on this trip both inside the Park and within **30 miles** of Luckiamute Landing State Natural Area. **Please round off to the nearest dollar.**

Motel, lodge, cabin, B&B, other lodging: \$ see report 00

Camping: \$.00

Restaurants and bars: \$.00

Groceries: \$.00

Gasoline and oil: \$.00

Park entry, parking, or recreation use fees: \$.00

Recreation and equipment (guide fees, equipment rental): \$.00

Souvenirs, clothing, and other miscellaneous: \$.00

34. Are you staying away from home either inside the Park or within 30 miles of Luckiamute Landing SNA on this trip? (**check ONE**)
 97% No
 3% Yes → if yes, how many nights are you staying away from home inside the Park or within 30 miles of this Park?
1.67 night(s)
35. Considering the amount that you spent on this trip, how much more would you have spent on this trip before deciding not to take it? \$ 19.55
36. Are you: (**check ONE**) 63% Male 37% Female
37. How old are you? (**write response**) 48 years old
38. Which of the following best describes you? (**check ONE**)
 96% White (Caucasian) 1% Hispanic / Latino 0% American Indian or Alaskan Native 0% Other (write response)
 1% Black / African American 1% Asian 1% Native Hawaiian or Pacific Islander _____
39. What language is spoken most often at your home? (**check ONE**)
 99% English 0% Spanish 0% Russian 1% Other (write response) Dutch
40. Where do you live? (**write responses**) City / town _____ State _____ Country _____ Zipcode see report
41. Which of these broad categories best describes your *current annual household income before taxes*? (**check ONE**)
 2% Less than \$10,000 10% \$90,000 to \$109,999
 10% \$10,000 to \$29,999 6% \$110,000 to \$129,999
 23% \$30,000 to \$49,999 2% \$130,000 to \$149,999
 23% \$50,000 to \$69,999 2% \$150,000 to \$169,999
 17% \$70,000 to \$89,999 3% \$170,000 or more

Please tell us how we can improve Luckiamute Landing State Natural Area:

see report

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