

Oregon Snowmobiler Participation and Priorities

Report in support of the 2015-2024 Oregon Trails Plan

Conducted by Oregon State University for the Oregon Parks and Recreation Department

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Acknowledgments

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Executive Summary

In preparation for the 2015-2024 Oregon Trails Plan, the Oregon Parks and Recreation Department contracted with Oregon State University to conduct surveys of Oregon residents regarding their participation in four categories of trail-related recreation: non-motorized trail, non-motorized boat, motorized (ATV / OHV), and snowmobile recreation. Each survey was designed to elicit information on current use patterns (amount, location, and type of use), user experiences and preferences, and the economic contribution of the recreation activity. This report provides the results of the snowmobiler survey.

A probability sample was drawn at random from the list of all persons with snowmobiles registered with the Oregon DMV. Each person in the sample was invited to participate in the survey by completing either an online or paper questionnaire. A total of 501 respondents (40% of the sample) completed the survey and indicated they had engaged in snowmobiling in Oregon in the past five years. Approximately two-thirds (68%) of the surveys were completed online, one-third (32%) in paper format. Due to an underrepresentation of young snowmobilers amongst respondents, the data were weighted, using the age distribution of DMV registrants as the reference distribution.

Three-quarters (77%) of respondents were male, but the genders were more evenly represented once additional snowmobilers in the household were taken into account (56% male, 44% female). The mean age of respondents was 49 years old, while the mean age of all snowmobilers in households was 39 years old. Snowmobilers tend to have higher income than Oregonians as a whole, with 44% having annual household income of \$100,000 or more.

The average snowmobiling household owns 3.4 snowmobiles, with 30% owning two snowmobiles (the most common number in the household). Statewide, the number of registered snowmobiles peaked at 17,771 in 2006, with a downward trend since then. That trend presumably in part reflects the recession, but the continued decline since economic recovery may in part reflect generally declining snow amounts since 2006.

Almost all respondents (96%) took at least one day trip and 72% took at least one multi-day trip in an average season over the past five years. A roughly equal number of days was spent on day (47%) and multi-day (53%) trips. Two-thirds (67%) of day trips occurred within 60 miles of home, while 70% of multi-day trips occurred further than 60 miles from home. On average, there were 3.3 persons in the travel party for "typical" day trips and 3.6 for typical multi-day trips. The median length of multi-day trips was three days.

Almost half (45%) of respondents reported that the number of day trips remained the same in the past five years, with similar amounts reporting an increase (28%) versus a decrease (27%). The number of multi-day trips was somewhat more likely to decrease (31%) than increase (25%). Various reasons were given for increases, with more free time being the most common. The most common reason for a decrease was less snow.

Respondents engaged in a variety of activities on their trips, in addition to snowmobiling, with dining out being the most common. Hotel / motel was the most common form of lodging used on multi-day trips. The most preferred content for online information was trail maps and snow depth.

On average, respondents engaged in snowmobiling 26 days per year, with more than a third of those days (9.2) being in Central Oregon (Region 8). The three most visited parking areas, by average number of days, were in Central Oregon (Dutchman Flat, Wanoga, and Ten Mile).

Respondents reported their "most often visited" area, statewide for mail questionnaire respondents and for each region in which they rode for online respondents. They then reported distance traveled from home to the site and perceived crowding. Salt Creek Summit was the area with the greatest average distance traveled, at 281 miles. Dutchman Flat was the area with the highest level of crowding in the parking area (8.0 on a 1 to 9 scale), while Langdon Lake / Morning Creek was the area with the highest level of crowding while riding (4.7).

When considering where to ride, respondents indicated that backcountry off-trail riding opportunities, parking, and trail grooming / maintenance were most important, with 71%, 71%, and 67%, respectively, indicating that these were somewhat or very important factors. With respect to preferred trail length, respondents placed higher priority on trails under 100 miles long, with long interconnected trails (more than 100 miles) being less important.

With respect to priorities for future funding, various priorities in the write-in Other category were rated as most important (most related to sustaining and expanding access). Backcountry off-trail riding and expanding the trail system were the next most important, with 66% and 65%, respectively, rating these priorities somewhat or very important. With respect to problems on snowmobile trails, by far the most common response was closure of trails and riding areas, with 54% rating it as a moderate or serious problem.

Based on survey responses and DMV registration data, Oregon resident snowmobilers spend an estimated \$15 million per year on day and multi-day snowmobiling trips. This figure does not include expenditure on vehicles or other equipment that occurs outside of trips. The \$15 million trip expenditure, combined with the trip expenditure of out-of-state snowmobilers riding in Oregon, supports 155 jobs and generates approximately \$5.0 million in labor income and \$7.7 million in value added.

1. Introduction

1.1. Background

In preparation for the 2015-2024 Oregon Trails Plan, the Oregon Parks and Recreation Department (OPRD, Oregon State Parks) contracted with Oregon State University (OSU) to conduct surveys of Oregon residents regarding their participation in four categories of trail-related recreation: non-motorized trail, non-motorized boat, motorized (ATV / OHV), and snowmobile recreation. Each survey was designed to elicit information on current use patterns (amount, location, and type of use), user experiences and preferences, and the economic contribution of the recreation activity. This report provides the results of the snowmobiler questionnaire.

1.2. Data presentation

For ease of reading, numbers are rounded in this report; this may lead to some percentages not totaling 100. All averages in this report are means rather than medians. There are "missing values" for many variables. For example, some people did not answer the income question. Percentages shown in this report are "valid percentages" unless otherwise noted; valid percentages adjust for missing values and total 100.

Exclusion of missing values also leads to discrepancies. For example, there were 501 completes in the probability sample (Table 1.1), but only 498 with an identifiable region – from self-report or mailing address. Table 1.2 only includes the latter respondents.

The paper version of the questionnaire is included in Appendix 3. In presenting results, reference is made to question numbers in the paper version (e.g., Q7). Some questions were asked only in the online version and therefore lack reference numbers.

1.3. Survey methodology

The probability sample was designed to be as representative as possible of Oregon resident snowmobilers. It was drawn at random from the list of all persons with snowmobiles registered with the Oregon DMV.¹

The probability sample was complemented by a convenience sample. For the convenience sample, 28 snowmobile clubs (user groups) in Oregon were contacted and asked to encourage survey participation via e-newsletters, Facebook posts, and other avenues. Unfortunately, there were only 64 complete responses in the convenience sample, and almost half of those were from a single region (Region 6). Therefore, only results for the probability sample are presented in this report. Because other reports in this project include the convenience sample, results are specifically referred to below as being from the probability sample.

Persons in the probability sample could complete the questionnaire in either online or paper format. Each person in the probability sample was sent the following correspondence:

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¹ http://www.oregon.gov/odot/dmv/pages/vehicle/snowmobile.aspx

- A "pre-letter" from OPRD explaining the reason for the questionnaire and encouraging participation.
- An invitation letter from OSU, with the URL for the online questionnaire and a postage-paid reply postcard for those preferring to complete the questionnaire in traditional paper format. Paper questionnaires were sent to those returning the postcard.
- A reminder letter and reply postcard from OSU, sent to persons who had not completed the online questionnaire or returned the postcard within approximately one week.
- A reminder letter from OSU, with the URL for the online questionnaire, as well as a copy of the paper questionnaire and postage-paid reply envelope, sent to persons who had not completed the questionnaire within approximately three weeks.

For households with more than one adult snowmobiler, the invitation letter requested that the adult snowmobiler with the most recent birthday complete the questionnaire. Because the 2013-2014 season had unusually low snow, respondents were asked to answer the questions with respect to their snowmobile riding during an average season in the past five years / seasons.

The questionnaire was developed in collaboration with OPRD and the project planning advisory committee.²

Response rates are shown in Table 1.1 below. The probability sample response rate of 42% (40% responded and snowmobiled in the past five years, 2% responded but did not snowmobile in that period) is good by current survey standards. This rate does not include a substantial number of persons who completed part of the questionnaire but were removed from the sample as only partial completes. It does include persons who completed a majority of the questionnaire, despite leaving some questions unanswered.

| Table 1.1. Response rates | | | | |
|--|--------------------|--|--|--|
| | Probability sample | | | |
| Initial sample | 1,250 | | | |
| Eligible (undeliverables removed) | 1,242 | | | |
| Responded, did not snowmobile in the past five years | 27 | | | |
| Percent of eligible | 2% | | | |
| Responded, snowmobiled in the past five years | 501 | | | |
| Percent of eligible | 40% | | | |

For the probability sample, 68% of the questionnaires were completed online and 32% in paper format.

Figure 1.1 shows the planning regions across the state, and Table 1.2 shows the number of respondents by region. Table 1.2 reflects respondents who snowmobiled in the past five years and whose region of residence could be identified.

² The advisory committee included, alphabetically: Mike Choate (OSSA), Chuck Frayer (USFS), Ron Greb (OSSA), Dennis Jordan (OSSA), Duane Miles (OSSA), TJ Reilly (OSSA), Vera Riser (OSSA), Karen Spencer (Baker County), John Spieger (OSSA), Peggy Spieger (OSSA), John Vogel (OSSA), Fred Way (USFS).

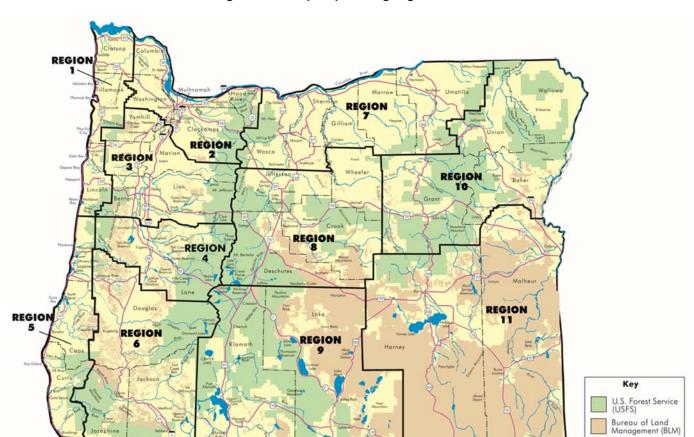


Figure 1.1. Map of planning regions

| Table 1.2. Number of respondents who snowmobiled in past five years, by region | | | | | |
|--|-------------|---|--|--|--|
| Region | Probability | Percent of statewide probability sample | | | |
| 1 | 9 | 2 | | | |
| 2 | 74 | 15 | | | |
| 3 | 52 | 10 | | | |
| 4 | 45 | 9 | | | |
| 5 | 8 | 2 | | | |
| 6 | 58 | 12 | | | |
| 7 | 48 | 10 | | | |
| 8 | 112 | 22 | | | |
| 9 | 28 | 6 | | | |
| 10 | 57 | 11 | | | |
| 11 | 7 | 1 | | | |
| Statewide total | 498 | | | | |

1.4. Maximizing data accuracy

The goal of surveys such as this one is to use a sample (limited number of respondents) to obtain information on the population (everyone of interest, in this case all snowmobilers resident in Oregon). Because only a portion of the population is sent a questionnaire, and not all recipients complete the questionnaire, this type of data collection is susceptible to various sources of error.

This survey administration addressed the four main sources of error in the following ways:

- Coverage error was addressed through the use of the DMV registration list sampling frame.
 By its nature, this sampling frame excludes people who snowmobile but who do not live in a snowmobile-owning household.
- Sampling error was addressed through a reasonably-large sample size.
- Measurement error was addressed through an extensive questionnaire development and review process.
- Non-response error was addressed by maximizing response rates via multiple mailings, as well as identifying and correcting for potential non-response error via weighting.

Non-response error arises when those who complete the questionnaire (respondents) differ from those who do not (non-respondents) on a variable of interest. This potential error jeopardizes conclusions about the population based on responses in the sample. Sample data were weighted by age. The DMV registration list was "cleaned" by removing persons under 18 years old or with a mailing address outside Oregon. Duplicate entries per household were removed using zip code and street address within the Excel Remove Duplicates function. The resulting age distribution matched those of snowmobiler studies in Wyoming and Pennsylvania, except in the lower and upper age groups. The registration list distribution was modified by adding 4% to the lowest age group (18 to 29) and subtracting 4% from the highest age group (70 or older). The resulting adjusted distribution was a reasonable match with the Wyoming and Pennsylvania results and was used to calculate age weights. These weights help address potential non-response error due to low response rates from younger snowmobilers. Weighting can reduce error, but the potential for some error is inevitable in survey research.

1.5. Demographics and snowmobile ownership

This section presents demographic results from the snowmobiler survey probability sample. Within that sample, 77% of respondents were male and 23% female. Respondents also reported the gender and age of additional snowmobilers in the household. When these additional snowmobilers were accounted for, the distribution was more equally balanced (Table 1.3). Across all listed snowmobilers, 56% were male and 44% female. Note that the number of observations decreases as one moves from respondent to 6th snowmobiler (i.e., there are fewer households with 6 snowmobilers than with 1 or 2 snowmobilers).

| Table 1.3. Gender of snowmobilers in household, percent | | | | | |
|---|------|--------|--|--|--|
| | Male | Female | | | |
| Respondent | 77 | 23 | | | |
| 2nd snowmobiler | 39 | 61 | | | |
| 3rd snowmobiler | 57 | 43 | | | |
| 4th snowmobiler | 43 | 58 | | | |
| 5th snowmobiler | 56 | 44 | | | |
| 6th snowmobiler | 65 | 35 | | | |
| Total | 56 | 44 | | | |

Figure 1.2a shows the age distribution for respondents and for all adult Oregonians. Snowmobiling participation occurs across age groups, though it is particularly high amongst people in the 40 to 59 age range.

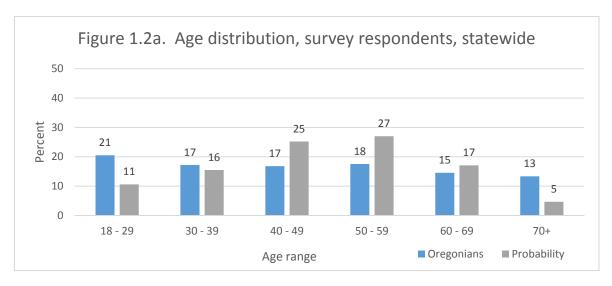
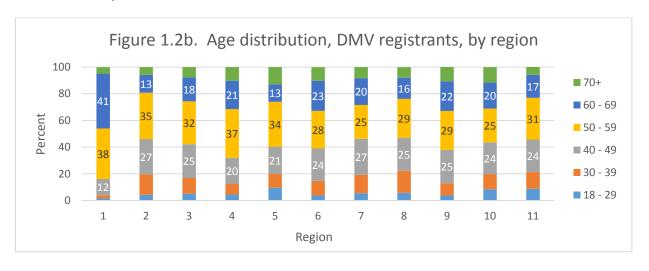


Figure 1.2b shows the age distribution, by region, for owners of snowmobilers registered with the Oregon DMV. There is regional variation, but most owners are in the middle age ranges (from 40 to 60 years old). Relatively few registrants live in Region 1 and 5, so results for those regions should be interpreted with caution.



As with gender, respondents reported the ages of additional snowmobilers in the household. As shown in Table 1.4, the age of additional snowmobilers was lower than that of the respondent. Evaluation of the full distributions suggests that the "2nd snowmobiler" typically was an additional adult, whereas the 3rd or higher snowmobilers often were children (Figure 1.3). The average age across all snowmobilers was 39.

| _ | of snowmobilers in d, years old |
|-----------------|---------------------------------|
| | Mean age |
| Respondent | 49 |
| 2nd snowmobiler | 47 |
| 3rd snowmobiler | 24 |
| 4th snowmobiler | 21 |
| 5th snowmobiler | 24 |
| 6th snowmobiler | 34 |
| Total | 39 |

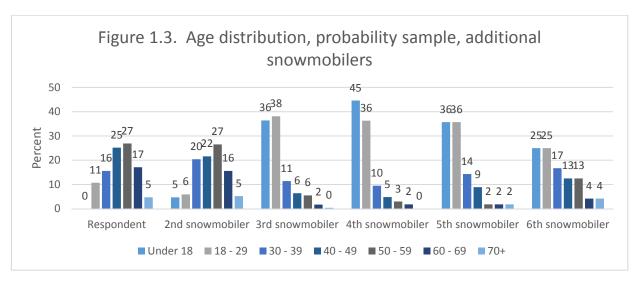
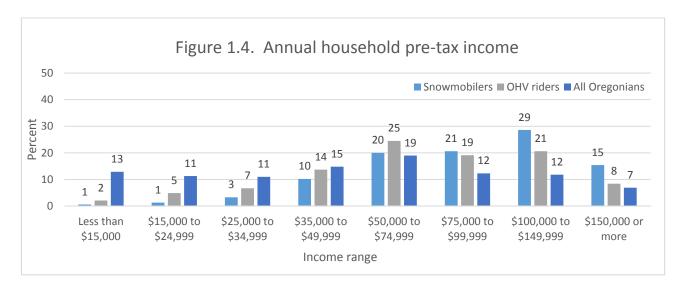


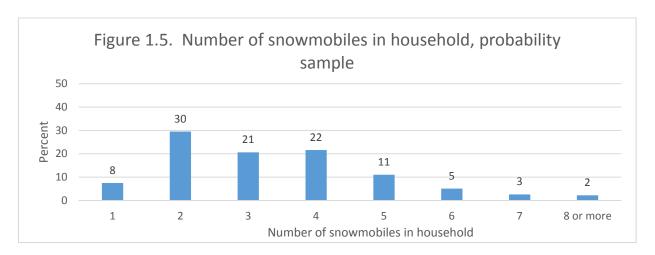
Figure 1.4 shows the distribution of annual household pre-tax income for snowmobilers, OHV riders, and Oregonians as a whole. Snowmobilers and OHV riders (at least those in each group who own and register their vehicles) have higher income than Oregonians as a whole. This is especially true for snowmobilers.



Only 1% of respondents reported they identified as Latino. Almost all (98%) reported they identified as white, with 1% reporting American Indian, and less than 1% Asian, African American, or Native Hawaiian; respondents could select multiple categories. Relative to the Oregon population as a whole, minorities are under-represented amongst snowmobilers.

Amongst probability sample respondents, 40% belonged to a snowmobile organization or club, 59% did not, and 1% were unsure (Q27).

Most snowmobile households own more than one snowmobile, with two, three, and four being the most common number of snowmobiles owned (Figure 1.5, Q1). With the small number of "more than 8 snowmobiles" responses set to eight, the average number of snowmobiles owned per household was 3.4.

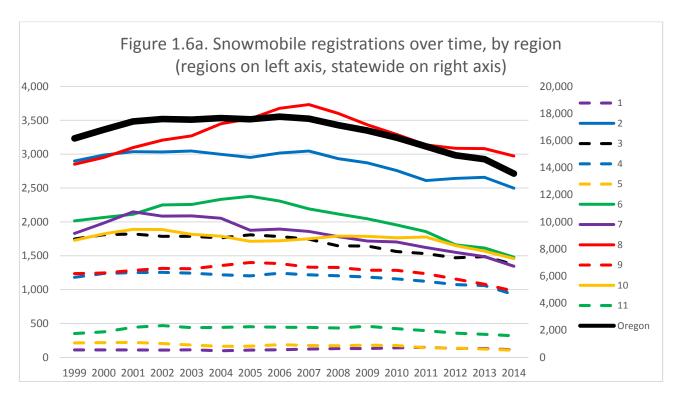


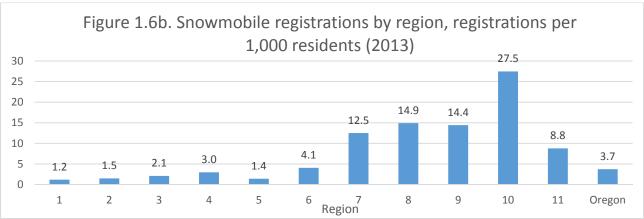
All snowmobiles in Oregon must be registered with the DMV, and Figure 1.6a shows registration counts by region and statewide over time.³ Figure 1.6b shows registration rates across regions in per capita terms, using registrations per 1,000 residents.

Statewide registrations peaked in 2006 at 17,771. The subsequent drop presumably reflects the recession, though registrations have not recovered as the economy has improved in recent years.

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³ Some snowmobiles are ridden without being registered. The level of non-compliance is unknown, but anecdotal reports indicate that in some locations it may be as high as 20%.





Snow amounts may help explain the lack of recovery in registration numbers. Figure 1.7 shows the average across December and February for snow water equivalents at the Cascades Summit monitoring site, at 5,100 feet near Odell Lake, between Highway 58 and Diamond Peak.⁴ There is substantial year-to-year variation, but the general trend since 2006 is downward. This has been noticed by snowmobilers, as indicated in Figure 2.5b below (low snow is a reason for fewer snowmobiling trips).

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⁴ Data from NRCS website: http://www.wcc.nrcs.usda.gov/nwcc/rgrpt?report=swe hist&state=OR

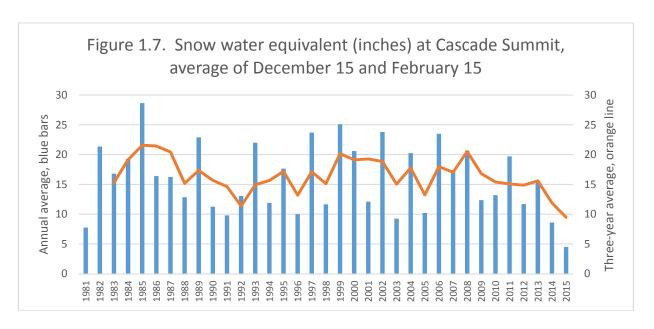
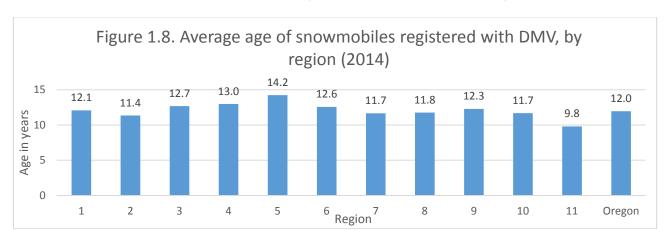


Figure 1.8 shows the average age of registered snowmobiles, by region. Figures were calculated as 2014 minus the model year for snowmobiles registered as of May 2014. Statewide, the average registered vehicle was 12 years old. Median values were close to the presented means, which indicates that the means are not "pulled up" by a small number of particularly old vehicles.



2. Trip characteristics and participation

This section presents trip characteristics and participation estimates. See also the Section 3 results for "most often visited" site, including distance traveled to those sites.

2.1. Day trip and multi-day trip characteristics

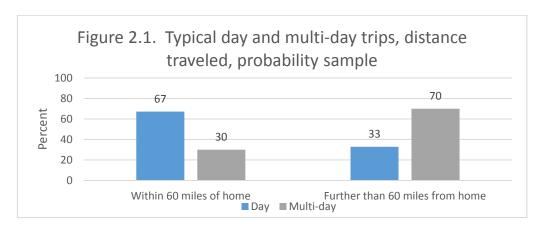
Almost all respondents (96%) took at least one day trip, while 72% took at least one multi-day trip in an average season over the past five years.

Statewide, 47% of the total days were spent on day trips and 53% on multi-day trips. Multi-day trips are defined as those involving an overnight stay away from home, even if the respondent only snowmobiled one day during the trip. The day versus multi-day distinction is used in presenting results in this section as well as in estimating economic contribution in Section 4.

In the mail questionnaire, respondents reported the total number of days snowmobiling in each region and the allocation of those into days on day trips and days on multi-day trips (Q15). In the online questionnaire, respondents reported the number of days snowmobiling at specific parking areas by region, with an "other areas on public land" category for sites not listed. The total number of days across sites in a given region was then presented, and respondents allocated those days into days on day trips and days on multi-day trips.

Observations were included in the above day trip versus multi-day trip percentages only if reported "days on day trips" and "days on multi-day trips" matched total days snowmobiling in the region. Across all "respondent by region" combinations, 82% involved no days in the region, 15.4% involved matches (days on day trips + days on multi-day trips = total days) and 2.7% involved errors. Thus, 85% (15.4 / (15.4 + 2.7)) of the allocations involved matches and are included.

The following results are for the "typical" day and multi-day trips, defined as the single location where respondents most often engaged in each type of trip in the average season in the past five years. Figure 2.1 indicates that two-thirds of day trips (67%) were within 60 miles of home while more than two-thirds (70%) of multi-day trips were more than 60 miles from home (Q17 and Q21).



The remaining results in this section and in section 4 (expenditure and economic significance) are based on travel parties. The National Visitor Use Monitoring (NVUM) approach to outliers is followed here, with observations excluded if reported travel party was eight or more persons, length of stay was more than 30 days, total expenditure was \$500 or more per night (per day for day trips), or sporting goods expenditure was \$500 or more.⁵ In addition, respondents were excluded if they indicated that their confidence in their expenditure reporting was below five on a 0 to 10 scale, where 5 = Somewhat confident (this was not asked in the mail questionnaire). Exclusion was "listwise" across the set of questions within each type of trip. For example, if one of the above conditions was met for multi-day trips, the respondent does not appear in the results for any of these questions within the multi-day trip analysis.

Figure 2.2 shows number of persons in travel party for day and multi-day trips. For both types of trips, four people in the travel party is the most common. The average number of persons is 3.3 for day trips and 3.6 for multi-day trips.

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⁵ White, E.M., D.B. Goodding, and D.J. Stynes. 2013. Estimation of national forest visitor spending averages from National Visitor Use Monitoring: round 2. Gen. Tech. Rep. PNW-GTR-883. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station.

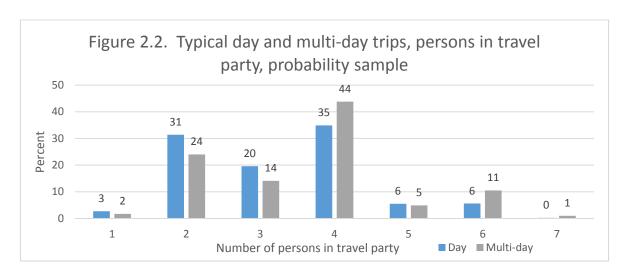
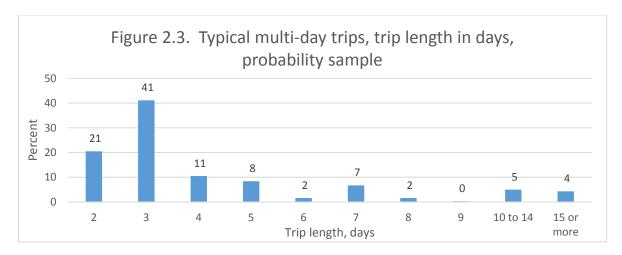
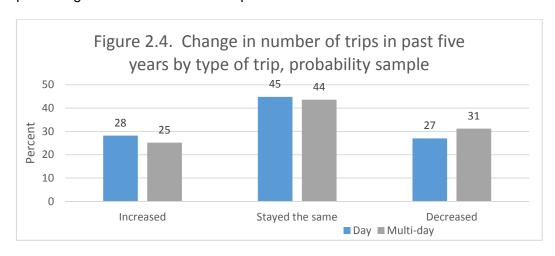


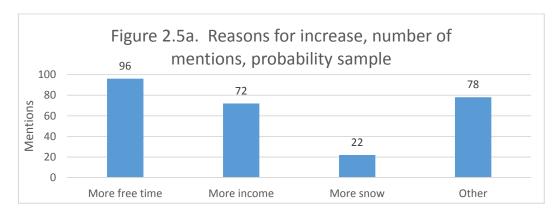
Figure 2.3 shows number of days for multi-day trips. As a reminder, this includes trip days that did not involve snowmobiling. Three days is the most common trip length, which may reflect a high proportion of "long weekend" trips. The average number of days was 4.7 days, keeping in mind that this mean is "pulled up" by longer trips (10 or more days). The median is 3 days.



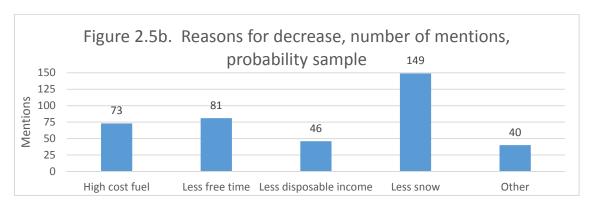
Respondents indicated whether the numbers of each type of trip (day trip and multi-day trip) had increased in the pasts five years (Q10), with results in Figure 2.4. Results are similar across trip type, and the percentage of respondents for whom number of trips has increased is similar to the percentage for whom number of trips has decreased.



In Q11, respondents indicated the reason for any change in trip frequency, with online respondents seeing the items specific to their change (e.g., "more free time" was an option only if number of trips increased). As shown in Figure 2.5a, the main reason for an increase in snowmobiling trips was more free time. Responses in the Other category were diverse and included kids becoming old enough to ride, better access to overnight facilities (own cabin or otherwise), more interest among friends, and better snowmobiles.



Less snow was the most common reasons for a decrease in snowmobiling trips (Figure 2.5b). The most common Other responses were related to age or to less interest among children or friends.



Snowmobilers engage in a variety of activities while on day or multi-day trips (Q13, Figure 2.6), with dining out being the most frequent.

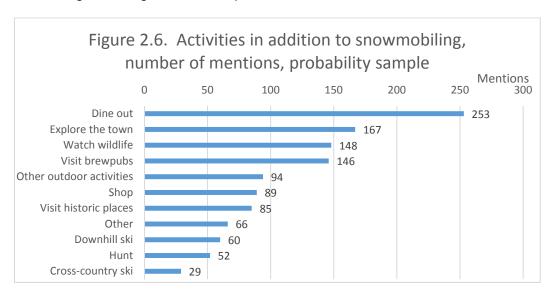
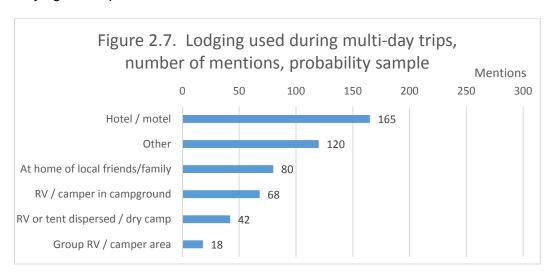
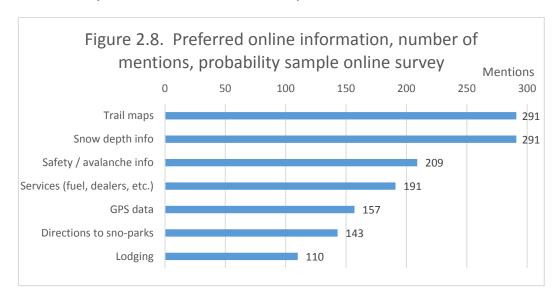


Figure 2.7 indicates that hotels and motels are the most commonly used form of lodging while on multi-day trips (Q12). Responses in the Other category were varied, with "own cabin" being the most common. Other common responses included renting a cabin, owning a second home, and staying in sno-parks with RVs.



Respondents completing the online survey indicated the types of information they would like to see on the internet for Oregon riding areas. As shown in Figure 2.8, the most preferred information was trail maps and information on snow depth.



2.2. Participation by region

Table 2.1 shows the estimated number of days snowmobiling per respondent and across all Oregon resident snowmobilers, per year. The per respondent estimate is derived from this survey (Q15). It is higher than the estimated 22.8 days that each Oregon-registered snowmobile is used per year, from the 2001/2002 fuel use report (the most recent available). Both of these estimates are higher than the 20 days per snowmobile found in Wyoming in both the 2000/2001 season and the 2011/2012 season.⁶

⁶ Nagler et al. 2012. 2011-2012 Wyoming Comprehensive Snowmobile Recreation Report.

The estimate for all snowmobilers is the product of the per respondent estimate and the number of registered snowmobiles in 2014 (13,563, see Figure 1.6 above). In total, Oregon residents are estimated to engage in snowmobiling 352,500 days per year.

Note there was a small amount of reported use in regions where no use was expected, notably Region 1 and Region 5. This is a reminder that errors are possible as respondents identify the region in which use occurred. This is especially true since many snowmobile parking areas are in locations that straddle regional boundaries. Respondents were asked to report use in the region where parked, regardless of whether region boundaries were crossed while riding. Nonetheless, some allocation of days across regions may be incorrect. Appendix 4 contains the map of parking areas and associated regions.

| Table 2.1. Days per year snowmobiling by Oregon resident snowmobilers | | | | | | |
|--|------------|--------------|--|--|--|--|
| _ | Per | All | | | | |
| | respondent | snowmobilers | | | | |
| Region 1 | 0.2 | 2,600 | | | | |
| Region 2 | 1.4 | 18,900 | | | | |
| Region 3 | 1.9 | 26,300 | | | | |
| Region 4 | 0.6 | 7,500 | | | | |
| Region 5 | 0.0 | 400 | | | | |
| Region 6 | 3.6 | 48,600 | | | | |
| Region 7 | 2.4 | 32,800 | | | | |
| Region 8 | 9.2 | 124,600 | | | | |
| Region 9 | 3.2 | 43,300 | | | | |
| Region 10 | 3.5 | 46,900 | | | | |
| Region 11 | 0.1 | 700 | | | | |
| Statewide | 26.0 | 352,500 | | | | |

Across all national forests in Oregon, Forest Service National Visitor Use Monitoring (NVUM) data suggest that 83.4% of snowmobile visits are made by Oregon residents and 16.6% by non-residents. Non-resident visits are in addition to those shown in Table 2.1.

2.3. Participation by parking area

Table 2.2 shows the average number of days snowmobiled by parking area, across all respondents in the survey (Q2). Dutchman Flat and Wanoga are the parking areas with the highest number of days.

The sum across all listed sites (24.7 days) is lower than the statewide total in Table 2.1 (26.0 days) because the latter includes days at sites other than those specifically listed in the survey. Respondents had the opportunity to write / type in sites other than those listed in the survey (shown in Table 2.2). This provided some indication of the proportion of snowmobiling that involved parking at listed sites versus other sites. However, an estimate of this proportion is difficult for various reasons, including the possibility that some sites were not entered (doing so required additional time) and the possibility that some entered sites correspond with a listed site in Table 2.2 (respondents know the site by a name other than that listed). Given this caveat, responses suggest that between 5% and 15% of snowmobiling days on public land in Oregon involve parking areas other than those in Table 2.2.

| Table 2.2. | Table 2.2. Days snowmobiled per year by site, average across all respondents | | | | |
|----------------|--|--------------|--|--|--|
| Site number | Site name | Average days | | | |
| | All listed sites combined | 24.7 | | | |
| 31 | Dutchman Flat | 2.80 | | | |
| 30 | Wanoga | 2.07 | | | |
| 26 | Ten Mile | 1.65 | | | |
| 37 | Ray Benson | 1.28 | | | |
| 23 | Crescent Lake | 1.26 | | | |
| 27 | Paulina Lake | 0.95 | | | |
| 29 | Edison Butte | 0.92 | | | |
| 40 | Skyline Road | 0.86 | | | |
| 32 | Three Creek Lake Road | 0.85 | | | |
| 19 | South Diamond | 0.82 | | | |
| 18 | Three Lakes (West Diamond Lake) | 0.79 | | | |
| 16 | Thousand Springs | 0.77 | | | |
| 57 | Langdon Lake / Morning Creek / MP 20 | 0.70 | | | |
| 41 | Frog Lake | 0.69 | | | |
| 24 | Junction | 0.53 | | | |
| 61 | Catherine Summit | 0.52 | | | |
| 59 | Tollgate / Woodland | 0.44 | | | |
| 10 | Great Meadow | 0.41 | | | |
| 62 | Clear Creek | 0.32 | | | |
| 2 | Mount Ashland | 0.28 | | | |
| 6 | Fish Lake | 0.28 | | | |
| 14 | Annie Creek | 0.28 | | | |
| 28 | East Lake | 0.27 | | | |
| 60 | Andies Prairie / Horseshoe Prairie / MP 27 | 0.27 | | | |
| 54 | Grande Ronde Lake | 0.26 | | | |
| 36 | Little Nash | 0.25 | | | |
| 55 | Four Corners | 0.25 | | | |
| 39 | McCoy | 0.24 | | | |
| 48 | Walton Lake | 0.24 | | | |
| 20 | North Crater Lake | 0.23 | | | |
| 51 | Huddleston | 0.21 | | | |
| 63 | Salt Creek Summit | 0.20 | | | |
| 56 | Mt. Emily | 0.18 | | | |
| 11 | Four Mile Lake Road | 0.17 | | | |
| 22 | Waldo Lake Road | 0.17 | | | |
| 15 | Union Creek | 0.16 | | | |
| 53 | Blue Springs Summit | 0.15 | | | |
| 43 | White River East | 0.14 | | | |
| 45 | Little John | 0.14 | | | |

| 50 | Starr Ridge | 0.14 |
|----|--------------------------------|------|
| 17 | Claude Lewis Trailhead | 0.12 |
| 38 | Big Springs | 0.12 |
| 42 | Trillium Lake | 0.12 |
| 46 | Billy Bob | 0.12 |
| 9 | Dead Indian | 0.11 |
| 25 | Six Mile | 0.11 |
| 44 | Bennett Pass | 0.10 |
| 58 | Spout Springs Ski Area / MP 22 | 0.10 |
| 64 | Ferguson Ridge | 0.09 |
| 13 | Camas | 0.08 |
| 35 | Lava Lake | 0.08 |
| 52 | Dixie Mountain | 0.08 |
| 33 | Ikenick | 0.07 |
| 21 | Walt Haring | 0.06 |
| 47 | Ochoco Divide | 0.06 |
| 12 | Quartz Mountain | 0.05 |
| 34 | Tombstone Summit | 0.04 |
| 8 | Rainbow Bay | 0.03 |
| 49 | Idlewild | 0.03 |
| 1 | Page Mountain | 0.01 |
| 4 | Big Elk | 0.01 |
| 7 | Ichabod Spring | 0.01 |
| 3 | Buck Prairie | 0.00 |
| 5 | Summer Home | 0.00 |

3. Experiences, preferences, and priorities

Respondents indicated the parking area where they rode most (Q3), then reported the distance traveled to the area (Q4, one-way driving miles from home) and how crowded they felt in the area (Q5, separately for crowding in the parking area and while riding). The open-ended suggestions for improvement by site (Q6) are presented verbatim in Appendix 1.

Mail survey respondents reported one statewide "most often visited" area, while online survey respondents reported a "most often visited" area for each region in which they rode. Thus, they may report multiple "most often visited" areas across the state.

Feelings of crowding were based on the following 1 to 9 scale:

| How crowded do you feel | Not at all crowded | | _ | Slightly crowded | | Moderately crowded | | Extre crow | , |
|-------------------------|-----------------------|---|---|---------------------|---|--------------------|---|---------------|---|
| In the parking area | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| While riding | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Table 3.1 presents results, sorted by the number of observations by parking area. Yellow highlights indicate the three sites with at least five observations and with the highest values in each category (one-way driving miles from home, crowding in parking area, crowding while riding). Salt Creek Summit was the site most distant from home, with snowmobilers traveling an average of 281 miles to the site. Dutchman Flat had the highest crowding rating in the parking area, while Langdon Lake had the highest crowding rating while riding.

Sites 65 through 67 reflect locations that were not on the list and were "written in" at least four times. Site 65 reflects write in of "Diamond Lake" without identifying whether it was West Diamond Lake, South Diamond, or some other site in the area. Site 98 reflects the "most often" site being "Other areas on public land" without specification of location. Site 99 reflects specific "most often" sites not on the list that were written in fewer than four times.

| | Table 3.1. Travel distances and crowding by "most often" site | | | | | | |
|--------|---|--------------|----------|--------|--------------|--------|--|
| Site | | Perceived | crowding | | | | |
| number | Site name | Observations | Mean | Median | Parking area | Riding | |
| | All sites combined | 805 | 95 | 66 | 4.6 | 3.0 | |
| 23 | Crescent Lake | 61 | 115 | 100 | 3.4 | 2.8 | |
| 31 | Dutchman Flat | 56 | 78 | 37 | 8.0 | 4.3 | |
| 40 | Skyline Road | 45 | 69 | 59 | 6.2 | 3.5 | |
| 37 | Ray Benson | 44 | 77 | 76 | 4.7 | 3.5 | |
| 30 | Wanoga | 42 | 84 | 31 | 5.9 | 4.6 | |
| 26 | Ten Mile | 40 | 81 | 59 | 5.7 | 3.6 | |
| 41 | Frog Lake | 38 | 67 | 60 | 4.8 | 2.7 | |
| 27 | Paulina Lake | 30 | 162 | 158 | 4.9 | 3.4 | |
| 10 | Great Meadow | 27 | 94 | 48 | 3.9 | 2.5 | |
| 18 | Three Lakes (W. Diamond Lake) | 25 | 161 | 120 | 4.8 | 3.4 | |
| 19 | South Diamond | 19 | 137 | 124 | 4.3 | 3.5 | |
| 57 | Langdon Lake / Morning Crk | 19 | 46 | 38 | 5.7 | 4.7 | |
| 59 | Tollgate / Woodland | 19 | 125 | 76 | 2.9 | 2.7 | |
| 61 | Catherine Summit | 18 | 94 | 35 | 4.4 | 2.7 | |
| 16 | Thousand Springs | 17 | 74 | 65 | 5.2 | 2.7 | |
| 29 | Edison Butte | 16 | 82 | 79 | 6.1 | 3.1 | |
| 32 | Three Creek Lake Road | 13 | 74 | 75 | 5.7 | 3.6 | |
| 63 | Salt Creek Summit | 13 | 281 | 299 | 3.0 | 1.9 | |
| 62 | Clear Creek | 12 | 167 | 183 | 4.0 | 2.5 | |
| 46 | Billy Bob | 11 | 107 | 84 | 2.9 | 2.9 | |
| 24 | Junction | 10 | 94 | 95 | 3.5 | 2.5 | |
| 65 | Diamond Lake (unspec.) | 10 | 112 | 100 | 4.2 | 3.0 | |
| 55 | Four Corners | 9 | 73 | 62 | 4.7 | 2.7 | |
| 39 | McCoy | 8 | 77 | 86 | 3.3 | 2.6 | |
| 14 | Annie Creek | 7 | 43 | 42 | 3.4 | 2.5 | |
| 22 | Waldo Lake Road | 6 | 68 | 75 | 2.6 | 1.3 | |
| 51 | Huddleston | 6 | 85 | 37 | 4.5 | 3.7 | |
| 54 | Grande Ronde Lake | 6 | 59 | 38 | 2.9 | 1.6 | |

| 56 | Mt. Emily | 6 | 104 | 40 | 2.3 | 2.1 |
|----|--------------------------------|----|-----|-----|-----|-----|
| 48 | Walton Lake | 5 | 32 | 30 | 5.2 | 3.0 |
| 60 | Andies / Horseshoe Prairie | 5 | 66 | 21 | 4.5 | 3.1 |
| 13 | Camas | 4 | 43 | 18 | 1.6 | 1.3 |
| 20 | North Crater Lake | 4 | 500 | 500 | 5.4 | 2.0 |
| 66 | Halfway | 4 | 266 | 307 | 1.6 | 1.3 |
| 9 | Dead Indian | 3 | 34 | 34 | 2.9 | 2.6 |
| 15 | Union Creek | 3 | 60 | 55 | 1.6 | 1.6 |
| 33 | Ikenick | 3 | 40 | 40 | 9.0 | 5.0 |
| 34 | Tombstone Summit | 3 | 189 | 189 | 2.0 | 1.0 |
| 35 | Lava Lake | 3 | 114 | 109 | 2.0 | 1.3 |
| 49 | Idlewild | 3 | 226 | 289 | 1.9 | 1.9 |
| 53 | Blue Springs Summit | 3 | 52 | 48 | 1.2 | 1.0 |
| 64 | Ferguson Ridge | 3 | 6 | 6 | 1.0 | 1.0 |
| 6 | Fish Lake | 2 | 70 | 70 | 2.0 | 1.0 |
| 25 | Six Mile | 2 | 119 | 153 | 5.0 | 3.5 |
| 36 | Little Nash | 2 | 59 | 59 | 2.1 | 2.0 |
| 38 | Big Springs | 2 | 95 | 95 | 4.9 | 4.9 |
| 42 | Trillium Lake | 2 | 85 | 85 | 4.0 | 2.5 |
| 43 | White River East | 2 | 62 | 62 | 2.7 | 2.3 |
| 45 | Little John | 2 | 40 | 40 | 3.4 | 1.6 |
| 50 | Starr Ridge | 2 | 71 | 71 | 1.9 | 1.3 |
| 3 | Buck Prairie | 1 | 300 | 300 | 1.0 | 1.0 |
| 8 | Rainbow Bay | 1 | 150 | 150 | 6.0 | 5.0 |
| 21 | Walt Haring | 1 | 34 | 34 | 3.5 | 1.5 |
| 28 | East Lake | 1 | 35 | 35 | 3.0 | 1.0 |
| 47 | Ochoco Divide | 1 | 30 | 30 | 3.0 | 2.0 |
| 52 | Dixie Mountain | 1 | 140 | 140 | 1.0 | 1.0 |
| 58 | Spout Springs Ski Area / MP 22 | 1 | 43 | 43 | 5.0 | 3.0 |
| 67 | Sumpter | 1 | 30 | 30 | 2.5 | 2.0 |
| 99 | Other (specified) | 67 | 75 | 46 | 3.5 | 2.2 |
| 98 | Other (unspec.) | 37 | 76 | 65 | 3.3 | 2.6 |

Figure 3.1 shows the importance of considerations when deciding where to ride (Q8), percent rating 4 or 5 on a 5-point scale. The two top considerations in deciding where to ride are backcountry off-trail riding opportunities and availability of parking. Responses in the Other category included a range of considerations, with the most common being access to good snow throughout the season.

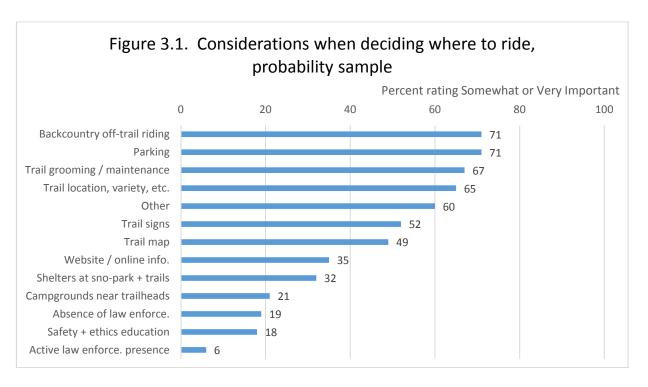
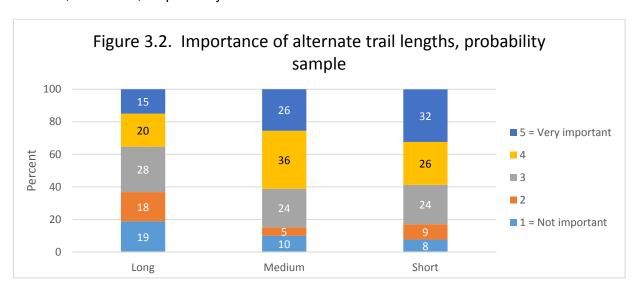


Figure 3.2 shows preferences for various trail lengths (Q9), which were described in the survey as follows:

- Long interconnected trails (more than 100 miles)
- Medium trails (50 to 100 miles)
- Short trails (fewer than 50 miles)

Many respondents rate all trail lengths as important, but trails over 100 miles received the fewest ratings of 4 or 5 on the 5-point scale. That average ratings were 2.9, 3.6, and 3.7 for Long, Medium, and Short, respectively.



Respondents indicated the funding importance of various potential improvements (Q7), with Figure 3.3 showing percent rating 4 or 5 on a 5-point scale. The Other category received the highest ratings, keeping in mind that most people did not provide "write-in actions" and associated ratings for the Other category. Percentages are of those that listed an action / rating in the Other

category; those that did so presumably considered it a high priority for funding. Actions written in the Other category were diverse, with many focusing on access – expanding current access and avoiding future access restrictions. Backcountry off-trail riding opportunities and expanded trail systems also were rated highly by respondents.

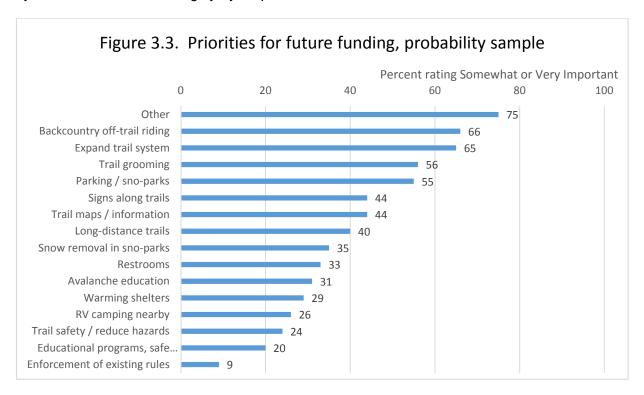
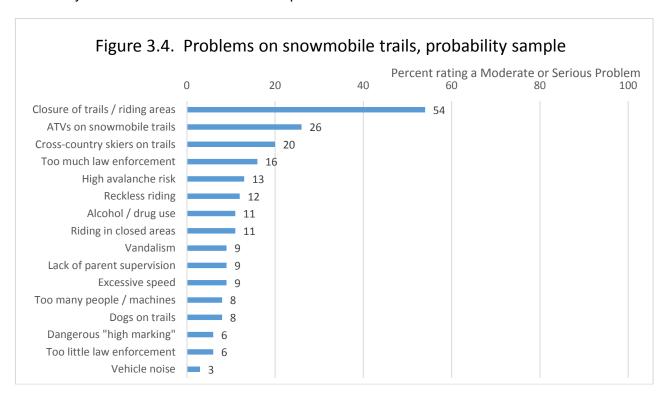


Figure 3.4 shows ratings of problems based on respondent experiences while riding snowmobiles (Q25), percent rating 4 or 5 on a 5-point scale. Closure of trails and riding areas was the most commonly rated as a moderate or serious problem.



Open-ended recommendations for improving snowmobiling in "rode most often" sites (Q6) and statewide generally (Q26) are provided in Appendix 1.

4. Expenditure and economic contribution

This section outlines snowmobiler expenditure, based on the "typical trips" described in Section 2.1. Note that this expenditure is only associated with travel, not with equipment purchase or maintenance. The expenditure and economic contribution reflects snowmobiling activity by both local (to the snowmobiling location) and non-local Oregon residents.

As noted in Section 2.1, these results are based on travel parties. The National Visitor Use Monitoring (NVUM) approach to outliers is followed here, with observations excluded if reported travel party was eight or more persons, length of stay was more than 30 days, total expenditure per travel party was \$500 or more per night (per day for day trips), or sporting goods expenditure per travel party was \$500 or more. In addition, respondents were excluded if they indicated that their expenditure reporting was below five on a 1 to 10 certainty scale, where 5 = Somewhat confident (this was not asked in the mail questionnaire). Exclusion was "listwise" across the set of questions within each trip type. For example, if one of the above conditions was met for multi-day trips, the respondent does not appear in the results for any of these questions within the multi-day trip analysis.

Table 4.1 provides an NVUM reference point for expenditure estimates. The probability sample data reflect Oregon residents snowmobiling in Oregon. For expenditure and persons per party, the NVUM data reflect national averages for in-state and out-of-state visitors (Table 3 and Table A-2 in White and Stynes 2010⁸). Both probability sample and NVUM expenditure data are dollars per party per trip, amounts spent within 50 miles (for the snowmobiler survey, within 50 miles of the parking location; for NVUM, within 50 miles of the on-site survey location). The NVUM data are inflation adjusted from 2007 to 2014. The NVUM nights per trip data reflect Oregon resident snowmobilers on national forests in Oregon.

Expenditure on day trips in the probability sample is significantly higher than the NVUM equivalents (local day trips and non-local day trips). The difference may be explained by a variety of factors, including more persons per party, high fuel prices, and potentially greater distances from population centers to snowmobiling locations. However, reporting errors, including respondent overestimation, also may occur.

⁸ White, E.M. and D.J. Stynes. 2010. Updated spending profiles for national forest recreation visitors by activity. Report under Joint Venture Agreement # 10-JV-11261955-018.

⁷ White, E.M., D.B. Goodding, and D.J. Stynes. 2013. Estimation of national forest visitor spending averages from National Visitor Use Monitoring: round 2. Gen. Tech. Rep. PNW-GTR-883. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station.

| | Local day trips | Local multi-day trips | Non-local day trips | Non-local multi-day trips |
|------------------------------------|--------------------|-----------------------------|------------------------|---------------------------------|
| Expenditure, \$ per party per trip | | | | |
| Probability sample | 165 | 357 | 212 | 650 |
| NVUM, national, snowmobile | 84 | 355 | 147 | 732 |
| Persons per party | | | | |
| Probability sample | 3.2 | 3.7 | 3.4 | 3.6 |
| NVUM, national, snowmobile | 2.3 | 2.9 | 2.5 | 2.8 |
| Nights per trip | | | | |
| Probability sample | | 4.7 | | 3.3 |
| NVUM, Oregon resident snowmobilers | | 2.9 | | 3.8 |

Table 4.2 presents expenditure by trip type. Expenditure per person per day was calculated by dividing statewide expenditure across survey respondents by the number of user days, separately for day trips and multi-day trips. User occasions reflects the total amount in Table 2.1, allocated across day and multi-day based on survey responses (Q15). Statewide expenditure is the product of expenditure per person per day and user occasions, with total expenditure reflecting the sum of the values in the day and multi-day columns.

| Table 4.2. Statewide snowmobiling trip expenditure by trip type | | | | | | | |
|---|-----------|---------|-------------|-----------|---|-----|-----------|
| Expenditure, \$ per person per day | | User | occasions (| days) | Statewide expenditure (millions of dollars) | | |
| Day | Multi-day | Total | Day | Multi-day | Total | Day | Multi-day |
| 55 | 32 | 352,500 | 165,000 | 187,500 | 15.1 | 9.1 | 6.0 |

Note that expenditure per day for multi-day trips is based on overall trip expenditure and trip length, including days that did not involve snowmobiling. However, user occasions and expenditure only reflect days engaged in snowmobiling.

The calculations in this report only reflect the contribution of Oregon residents. Non-residents who engage in snowmobiling in Oregon contribute additional amounts to the economy. The magnitude of this additional contribution is unknown, but can be estimated from external data sources. NVUM data provide one reference point for estimating the balance of Oregon resident versus non-resident snowmobiling activity in Oregon. Across all national forest units in Oregon, 83.4% of the visits are by Oregon residents and 16.6% by non-residents. If this pattern is the same for snowmobiling outside national forests, the statewide contribution of non-resident snowmobilers would be an additional 20% of the estimates provided here (16.6% / 83.4%).

Snowmobiler expenditure was "run" through the IMPLAN input-output model to estimate "multiplier effects" of money flowing through the local economy. To illustrate, assume that a snowmobiler eats lunch at Restaurant X. In order to provide the lunch, Restaurant X hires employees and purchases food that is then prepared for customers. Food is an input purchased from another business, and this process generates indirect effects. Wages paid to employees generate induced effects, because those employees spend a portion of their income in the local economy (perhaps by eating at Restaurant Y or shopping at Supermarket Z). Additional information on input-output and its application for this analysis is provided in Appendix 2.

Table 4.3 shows the expenditure breakdown across categories and trip type, in dollars per person per day. Expenditure categories were as follows:

- Hotel, motel, condo, cabin, B&B, or other lodging except camping
- Camping (RV, tent, etc.)
- Restaurants, bars, pubs
- Groceries
- Gas and oil
- Other transportation
- Park / forest entry, parking, or recreation use fees
- Recreation and entertainment, including guide fees
- Sporting goods
- Other expenses, such as souvenirs

| Table 4.3. Expenditure by category and trip type, dollars per person per day | | | | |
|--|-------|-----------|--|--|
| | Day | Multi-day | | |
| Hotel | 0.00 | 7.62 | | |
| Camping | 0.00 | 0.44 | | |
| Restaurants | 11.24 | 5.84 | | |
| Groceries | 6.41 | 4.38 | | |
| Gas | 30.73 | 11.81 | | |
| Other transportation | 1.57 | 0.47 | | |
| Recreation fees | 2.94 | 0.42 | | |
| Recreation + guiding | 0.62 | 0.38 | | |
| Sporting goods | 1.29 | 0.39 | | |
| Other | 0.32 | 0.31 | | |
| Total | 55.14 | 32.06 | | |

Expenditure per person per day is higher for day trips than for multi-day trips, primarily due to differences in gas expenditure. This may reflect that fuel associated with traveling to snowmobile destinations is spread across multiple days and potentially additional persons in the case of multi-day trips.

Table 4.4 shows the results of the multiplier analysis. The columns are as follows:

- Employment, full-time or part-time jobs
- Labor income, which includes employee compensation (including wages, salaries, and benefits) and proprietary income (including self-employment income).
- Value added, which includes labor income, rents, profits, and indirect business taxes.
- Output, which is the dollar value of goods and services sold.

Note that much travel-related expenditure is on retail items, such as gas, with only the retail margin included in this analysis. As a result, output may be lower than expenditure, despite the multiplier effect.

Statewide, the \$15 million expenditure by Oregon resident snowmobilers (Table 4.2) annually contributes 129 jobs, \$4.1 million in labor income, and \$6.5 million in value added. Inclusion of

out-of-state snowmobilers is estimated to add another 20% to these figures. Table 4.4 shows statewide multiplier effects.

| Table 4.4. Multiplier effects of snowmobiler trip expenditure, in-state and out-of- state snowmobilers; employment in jobs, other measures in dollars | | | | | |
|--|------------|--------------|-------------|------------|--|
| Origin | Employment | Labor Income | Value Added | Output | |
| In-state | 129 | 4,137,500 | 6,453,000 | 10,999,400 | |
| Out-of-state | 26 | 827,500 | 1,290,600 | 2,199,900 | |
| Combined | 155 | 4,965,000 | 7,743,600 | 13,199,300 | |

Appendix 1. Open-ended comments

This appendix presents open-ended recommendations for improving snowmobiling in "rode most often" sites (Q6), by site, and statewide generally (Q26).

By site

| Site # | Site name | Comment | |
|-----------|------------------------|--|--|
| 3 | Buck Prairie | better grooming | |
| 10 | Great Meadow | Again the parking lot needs to be bigger for special events. | |
| 10 | Great Meadow | Better trail maps and signage on the trails. Lot of interconnected trails if you know where to go, but not marked well. | |
| 10 | Great Meadow | Bigger Paking Lot & Warming Hut | |
| 10 | Great Meadow | Clear the snow better to make it easier to get into from the Hwy. | |
| 10 | Great Meadow | have forest service do more logging to better snowmobile recreation | |
| 10 | Great Meadow | more regular grooming of trails | |
| 10 | Great Meadow | Need larger parking lots to accommodate larger vehicles | |
| 10 | Great Meadow | No further restrictions on available riding areas | |
| 10 | Great Meadow | Open up more areas to ride around Four Mile Lake, Sunset and Mt McLoughlin | |
| 10 | Great Meadow | Parking lot is great | |
| 10 | Great Meadow | there is a public safety officer with a bad attitude. | |
| 10 | Great Meadow | we always had a great time | |
| 10 | Great Meadow | Advertising | |
| 10 | Great Meadow | Less interference from Forest Service law enforcement. They seem to just look for a reason to write a ticket for no reason | |
| 10 | Great Meadow | Warming Hut | |
| 11 | Four Mile Lake Road | A bigger parking area with nice little stub roads into the woods for privacy (rv/camper parking) | |
| 13 | Camas | Cleaner restroom | |
| 14 | Annie Creek | trails were in nice shape here. groomer has been broke down a few times in this area. nice warning hut. More out houses would be nice. | |
| 14 | Annie Creek | Plowing the staging area | |
| 15 | Union Creek | better loading area | |
| 15 | Union Creek | Improve the trails around Thousand Springs. Very rough and seldomed groomed | |
| 15 | Union Creek | more loop trails | |
| 16 | Thousand Springs | Clear out parking lot @ Fish Lake | |
| 16 | Thousand Springs | Coin op Showers and flush toilets | |
| 16 | Thousand Springs | Expand the Parking lot and allow a trail from Thousand Springs to Crater Lake and Annie Springs. | |
| 16 | Thousand Springs | have forest service do more logging that meets the needs for snowmobile recreation | |
| 16 | Thousand Springs | Increase parking lot size. During special events, this lot overflows onto the highway. | |
| 16 | Thousand Springs | Increase the size of the parking area | |
| 16 | Thousand Springs | larger snow park for crowded weekends, more trail system miles to reach more backcountry riding | |
| 16 | Thousand Springs | More logging to create jobs and more open space for ridding | |
| 16 | Thousand Springs | More parking as we have had to park on the street and got ticketed. | |
| 16 | Thousand Springs | No further restrictions on the available riding area | |
| 16 | Thousand Springs | Nothing comes to mind. the trails are usually are well groomed and marked | |

| 16 | Thousand Springs | Pave the parking lot, better signage, more trails |
|----|-------------------------------|---|
| 16 | Thousand Springs | Safer highway crossings |
| 16 | Thousand Springs | Improve/expand parking lot |
| 16 | Thousand Springs | Increase parking area, more open areas |
| 16 | Thousand Springs | Larger/resurface parking lots |
| 18 | Three Lakes (W. Diamond Lake) | a second parking lot accross the hiway or other close location. |
| 18 | Three Lakes (W. Diamond Lake) | Add additional trails |
| 18 | Three Lakes (W. Diamond Lake) | Designating more trails for snowmobiles ONLY! NO quads |
| 18 | Three Lakes (W. Diamond Lake) | I thought the riding and the trails were in outstanding shape. The groomers have done a great job in this area |
| 18 | Three Lakes (W. | i try to go on weekdays |
| | Diamond Lake) | |
| 18 | Three Lakes (W. Diamond Lake) | keeping trails groomed, keeping large areas off limits to ATV-only because the ATVs tend to rip up the trails causing them to be almost unrideable for snowmobilers |
| 18 | Three Lakes (W. Diamond Lake) | Larger parking areas with restrooms |
| 18 | Three Lakes (W. Diamond Lake) | More avaiable parking |
| 18 | Three Lakes (W. Diamond Lake) | More grooming of the trails. |
| 18 | Three Lakes (W. Diamond Lake) | More Parking |
| 18 | Three Lakes (W. Diamond Lake) | Need snow park with a shelter off Highway 38 between Diamond Lake and Lemola Lake |
| 18 | Three Lakes (W. Diamond Lake) | Open up more areas to ride. Specifcally around Crater Lake. |
| 18 | Three Lakes (W. Diamond Lake) | Remove the hostility from skiers toward snowmobilers, they dont want to share the land |
| 18 | Three Lakes (W. Diamond Lake) | The riding area seems to be getting smaller. |
| 19 | South Diamond | Excellent experiences |
| 19 | South Diamond | Improve grooming and trail maintenance. Trails tend to be soft even when groomed. Harden up. |
| 19 | South Diamond | keep the trails groomed, especially where 4wATVs go, and designate more snowmobile only areas. MORE PARKING |
| 19 | South Diamond | more access to the closed areas around Crater Lake |
| 19 | South Diamond | More Space to park, turn around. More snow moved out of parking area. |
| 19 | South Diamond | Parking |
| 19 | South Diamond | the trails are usually groomed really well, and we love the fact that we can ride to commercial restaurants and fuel. |
| 19 | South Diamond | Trail grooming more frequently |
| 19 | South Diamond | Add restrooms not only for snowmobilers but also highway use |
| 19 | South Diamond | Free gas |
| 19 | South Diamond | Restrict ATV's |
| 20 | North Crater Lake | More trails would be nice |
| 22 | Waldo Lake Road | Better trail designations. Possible listing gas areas on maps |
| 22 | Waldo Lake Road | Extend grooming |
| 22 | Waldo Lake Road | Make a bigger parking area |
| 23 | Crescent Lake | better grooming |
| 23 | Crescent Lake | Enlarge parking at Crescent Lake; educate cross country skiers to share the snowmobile trails we groom. |
| 23 | Crescent Lake | Keep trail groomed more often |
| | 1 | |

| 23 | Crescent Lake | smoother trails and better direction signs | |
|----|---------------|---|--|
| 23 | Crescent Lake | better grooming | |
| 23 | Crescent Lake | ERiding is good there | |
| 23 | Crescent Lake | fix the parking lot at the Junction Snow Park and the water that runs of the trail sometimes from Crescent Lake Snow Park, keep air plains off of the Crescent Lake air port during the winter | |
| 23 | Crescent Lake | grooming more frequently | |
| 23 | Crescent Lake | increase parking at the snowpark | |
| 23 | Crescent Lake | keep the parking area clear more often at the parking lot nearest the Crescent Lake Resort | |
| 23 | Crescent Lake | larger snow park, for vehicles and trailer | |
| 23 | Crescent Lake | More frequent trail grooming. Particularly to Summit Lk. | |
| 23 | Crescent Lake | more grooming | |
| 23 | Crescent Lake | More Grooming | |
| 23 | Crescent Lake | more grooming | |
| 23 | Crescent Lake | More grooming at night.that seems to work best to keep trails more rideable. | |
| 23 | Crescent Lake | more parking | |
| 23 | Crescent Lake | More snow :) | |
| 23 | Crescent Lake | more trail grooming | |
| 23 | Crescent Lake | One thing to keep in mind is some of these snow parks are to low to ride all year it takes a heavy and low snow level to even ride in some areas place snow parks higher. | |
| 23 | Crescent Lake | Parking. | |
| 23 | Crescent Lake | repave the parking lot, maybe enlarge the parking lot | |
| 23 | Crescent Lake | Riding area and parking area groomed better | |
| 23 | Crescent Lake | Total plowing of parking area. The old pavement is in need of heavy repair. | |
| 23 | Crescent Lake | trail maintenance and parking lot plowed | |
| 23 | Crescent Lake | Trails groomed more frequently. | |
| 23 | Crescent Lake | Better trail management | |
| 23 | Crescent Lake | Less restricted areas | |
| 23 | Crescent Lake | More grooming northside of Hwy 58-repair damage to trails | |
| 24 | Junction | Better job marking trails | |
| 24 | Junction | Groom the trails more often. | |
| 24 | Junction | it is awesome just the way it is. | |
| 24 | Junction | Just keep it open and or open up more trail | |
| 24 | Junction | More consistent trail grooming. | |
| 24 | Junction | nothing, crescent lake area is the best area to ride in the entire state if the snow cooperates! | |
| 24 | Junction | Re-pave snow park lot. | |
| 24 | Junction | stop the forest servce snowmobile police harrashing us when we are riding and treating us like we are criminals and trying to make the snowmobilers feel unwelcomed and telling us that they dont want us out there riding .they stop you when your rididng andcheck you out and treat you as a criminal and lecture you on how we have no real right to be there riding and dont want us out there . | |
| 24 | Junction | Better access to snowmobile trails from parking lot-Plow snow to allow multiple access points from lot | |
| 24 | Junction | More trails | |
| 24 | Junction | Overall great | |
| 25 | Six Mile | Don't know as we ride and explore | |

| 25 | Six Mile | Larger parking area |
|----|--------------|--|
| | Six Mile | |
| 25 | | Loading/unloading ramp |
| 26 | Ten Mile | a little more parking organization |
| 26 | Ten Mile | better marking on the trails |
| 26 | Ten Mile | bigger parking area at Dutchman Flatt's. not enough room for how popular the riding area is |
| 26 | Ten Mile | Enlarge the parking area at Ten Mile |
| 26 | Ten Mile | Groom the parking lot better |
| 26 | Ten Mile | Improve the restroom facilities |
| 26 | Ten Mile | Local Club, Lodgepole Dodgers do a GREAT Job maintaining & marking trails. |
| 26 | Ten Mile | make bigger snow park, you cant park at Paulina or Eastlake, because the gate is locked at 10 mile sno park |
| 26 | Ten Mile | More parking area |
| 26 | Ten Mile | More parking for trailers. Better organization of space. Designate seperate parking for cars without trailers. |
| 26 | Ten Mile | More parking or seperate place to park Motor Homes |
| 26 | Ten Mile | more rider ed |
| 26 | Ten Mile | More sign as to wear snowshowers should park. They always take up most of the parking and never double up!!!!! |
| 26 | Ten Mile | more trails, better signage, better access to prime riding areas |
| 26 | Ten Mile | road and parking lot needs better snow removable |
| 26 | Ten Mile | stop the forest service riding police at harashing us when we ride . they are stopping you while riding and questing on the laws and if you have a tags and where you have been as if to incinuate that you are braking the law in some way and we have no righ to be on |
| 26 | Ten Mile | there land and dont want snowmobilers to ride. Ten Mile = Increase the size of the parking lot; Wanoga, Dutchman = Open up more |
| 20 | Terriville | riding area and keep cross country skiers to their own area |
| 26 | Ten Mile | The sno parks and trail systems seem in good shape, crowded on weekends though. |
| 26 | Ten Mile | the snow mobile club keeps trails in excellant condition |
| 26 | Ten Mile | Weekends r terrible too many people I ride on weekdays |
| 26 | Ten Mile | Additional parking |
| 26 | Ten Mile | Better grooming |
| 26 | Ten Mile | Enlarge parking area |
| 26 | Ten Mile | Enlarge parking lot/add more restrooms |
| 26 | Ten Mile | Good riding area-parking can get a little tight |
| 26 | Ten Mile | More parking on busy weekends-Limit RV's |
| 26 | Ten Mile | Trail grooming |
| 27 | Paulina Lake | Add more parking |
| 27 | Paulina Lake | Additional snow park parking |
| 27 | Paulina Lake | Addtional parking, on weekends the lot is full. Need better overflow parking on main road. |
| 27 | Paulina Lake | better trail grooming. more open areas to ride |
| 27 | Paulina Lake | Excellent conditions when the snow is adequate. Otherwise grooming suffers. |
| 27 | Paulina Lake | Increase the parking area at 10 mile, improve the rest rooms |
| 27 | Paulina Lake | Making parking lots larger as all vehicles and trailers are getting larger |
| 27 | Paulina Lake | More and better signs marking the designated trails. |
| 27 | Paulina Lake | More grooming!!!! |
| 27 | Paulina Lake | MORE GROOMING, the trails are rough |
| | | I |

| 27 | Paulina Lake | More lodging near riding areas. | |
|----|--------------|---|--|
| 27 | Paulina Lake | more parking | |
| 27 | Paulina Lake | Not enough parking at the upper parking lot when the snow is low. Don't plow ALL the snow off the parking alot, leave enough to ride your machine on. | |
| 27 | Paulina Lake | parking and bathroom maintanence and availability | |
| 27 | Paulina Lake | Usually ride back country | |
| 28 | East Lake | Groomed trails were always nice and well done. Overall a great experience most of the time. | |
| 29 | Edison Butte | more parking | |
| 29 | Edison Butte | control overnight parking and trailer lengths at non designated areas, IE(dutchmans flat) | |
| 29 | Edison Butte | Edison is great. Need larger parking lot at higher elevation. Dutchman is too small and gets filled up by Nordic skiers which could park at Mt Bachelor & access the same trail systems. Regardless Dutchman is way too small. Wanoga sno park is great but t low elevation in late season. | |
| 29 | Edison Butte | groom more trails and roads | |
| 29 | Edison Butte | increased trail grooming | |
| 29 | Edison Butte | Its a good parking area, just low elevation, so early & late season its hard to get on the snow. | |
| 29 | Edison Butte | More grooming of trails. Better instructions for cars to not park in trailer areas. | |
| 29 | Edison Butte | more parking | |
| 29 | Edison Butte | Open addtional areas for snowmobile access | |
| 29 | Edison Butte | Better out of bounds marking | |
| 30 | Wanoga | Allow additional riding areas | |
| 30 | Wanoga | better access to the high country. More parking at Dutchman. Allow parking at Mount Bachelor. | |
| 30 | Wanoga | better groomed trials. I also would park at Dutchman Flats but I never can get a spot!!! | |
| 30 | Wanoga | Better marked trails | |
| 30 | Wanoga | Better marked trails | |
| 30 | Wanoga | Build another snow park | |
| 30 | Wanoga | Complete the Kapka Butte parking lot. Only because we've been shot down to enlarging Dutchman for over 15 years | |
| 30 | Wanoga | Designate a overnight area.over day use.also the snow park gets a lot of out of state users.maybe out of state riders/users should have to pay higher snow park permit fees. | |
| 30 | Wanoga | enlarge the parking area. Allow more use at Duchman Flats, i.e. trailers. | |
| 30 | Wanoga | Having a snowpark higher in elevation and more parking | |
| 30 | Wanoga | Having more parking and more riding areas. | |
| 30 | Wanoga | Improve grooming and trail maintenance. Trails tend to be soft even when groomed. Harden up. | |
| 30 | Wanoga | Increase parking lot size if possible. I really like the additional parking lot for sledders only. A few years ago, sledding vehicles would take a full size parking space made for towing vehicle & trailer. | |
| 30 | Wanoga | increased parking, cell phone availability for safety, quick grooming | |
| 30 | Wanoga | keep the clubhouse at Wanoga open midweek and at night or build a primitive warming shelter at Wanoga. | |
| 30 | Wanoga | more groomed trails | |
| 30 | Wanoga | More grooming of trails. | |
| 30 | Wanoga | more parking and groomed trailers to handle the large weekend crowds | |
| 30 | Wanoga | more parking area | |
| 30 | Wanoga | More parking at dutchman and room for 4 place snowmobile trailers, current rule is 40 ft for truck and trailer | |
| 30 | Wanoga | More parking at higher areas .Example Dutchman for early and later season rides. | |

| 30 | Wanoga | More parking for larger rigs with trailers and enough room to allow overnight stays in the parking area. | |
|----|---------------|--|--|
| 30 | Wanoga | more parking on weekend | |
| 30 | Wanoga | Need better trail grooming!!! Please do it much more often. | |
| 30 | Wanoga | Need more parking!! This season there will be a new parking area, but not enough. | |
| 30 | Wanoga | No suggestions, as this is some of the best riding in the state. | |
| 30 | Wanoga | Open a new snow park at the higher elevations as Wanoga is often without snow and Dutchman fills up by 6:30am | |
| 30 | Wanoga | open tumalo mountain | |
| 30 | Wanoga | small parking areas thruought the region, | |
| 30 | Wanoga | Stopping the forrest service from closing more of our riding areas and adding more area to park at higher elevations | |
| 30 | Wanoga | Expand parking, create another lot at ? Elevation-maybe Edison #29 are (not Dutchman Flats though | |
| 30 | Wanoga | Larger riding areas | |
| 30 | Wanoga | More grooming-another trail to Moon Mt. | |
| 30 | Wanoga | More trail grooming | |
| 30 | Wanoga | Need new parking near Dutchman | |
| 31 | Dutchman Flat | make parking area bigger, sharing with cross country skiers, elk lake resort cabin parking, hard to park a vehicle and trailer | |
| 31 | Dutchman Flat | Adding/maintaining a parking area. | |
| 31 | Dutchman Flat | Additional parking - expand Dutchman Flat Snow-Park | |
| 31 | Dutchman Flat | Additional parking in the dutchman flat area that would accomodate longer trailers | |
| 31 | Dutchman Flat | Better instruction for trailers vs nontrailer vehicals. Where to park, how to park, more parking. | |
| 31 | Dutchman Flat | bigger parking area, seperate lot for skiers | |
| 31 | Dutchman Flat | Bigger parking lots. Open more terrain to snowmobiles! | |
| 31 | Dutchman Flat | change the layout of the parking area | |
| 31 | Dutchman Flat | Complete the new parking area at Kiowa; Dutchman is too small for amount of use. | |
| 31 | Dutchman Flat | Dutchman parking lot needs to be expanded!, and its the only location where there was any snow most of the season. Wanoga, and anything down lower just doesn't get snow sometimes, the new proposed lot by the sunriver exit will be equally as worthless aswanoga is. Dutchman is the only option but it needs a major expansion | |
| 31 | Dutchman Flat | expand dutchman parking area. it is the highest in elevation, thusly, during low snow years often the only access | |
| 31 | Dutchman Flat | Expand Dutchman Snowpark | |
| 31 | Dutchman Flat | Expand parking area. Allow riding to Edison on S side of road. | |
| 31 | Dutchman Flat | Expand the Dutchman flat snow park size. With low snow levels it is the only park in the area where snow can be accessed. | |
| 31 | Dutchman Flat | Expansion of the parking lot | |
| 31 | Dutchman Flat | Greatly increase size of parking. Because of heavy use-greatly increase trail grooming frequency. | |
| 31 | Dutchman Flat | i try to go on weekdays | |
| 31 | Dutchman Flat | Increase parking | |
| 31 | Dutchman Flat | larger parking areas | |
| 31 | Dutchman Flat | More parking | |
| 31 | Dutchman Flat | More Parking, at Dutchman,not enough space for snombl trlr! Too many CCskiers, more groomed and designated trails | |
| 31 | Dutchman Flat | Need more parking at Dutchman Flat. This is a very important high elevation access point for backcountry riding. | |
| 31 | Dutchman Flat | Parking (day use and overnight) is the only improvement needed. Dutchman needs trailer parking immensely, or there needs to be an agreement with Mt. Bachelor for | |

| | | parking overflow with snowmobile riding access to Mt. Bachelor parking area (walking from Mt.B to your sled waiting for you at Dutchman is not realistic). | |
|----|--------------------------|--|--|
| 31 | Dutchman Flat | ten times the size of dutchman's parking lot & separate sledders from cross country skiers | |
| 31 | Dutchman Flat | The parking is a nightmare. Their needs to be more area to park. | |
| 31 | Dutchman Flat | This is a multiuse area and gets taken over by backcounty skiers and needs to be made bigger | |
| 31 | Dutchman Flat | Triple the size of the parking area!!! Keep that parking area for snowmobile and non-motorized use AND triple the size!!! Dutchman is the ONLY higher elevation park and necessary for (1) low snow seasons, (2) early & late season use and (3) for elderly (4) handicapped riders who cannot withstand the bumpy, rough and low snow conditions of the trail from Wanoga to Dutchman. Allow overnight parking at Dutchman!!! Riders and non-motorized users stay overnight at Elk Lake Resort, all the more reason for oernight parking. There should be no length restrictions at Dutchman. KAPKA is not the solution. This survey will likely show that Dutchman is the most popular park in Region 8 (depending on survey distribution). It is EXTRAORDINARILY popular with ridersand non-motorized users (ski, snowshoe, back country skiers and snowboarders). There is never an empty parking space and Dutchman is likely the smallest park in Oregon. KAPKA (a parking lot at a lower elevation) is not the solution because of the earlie reasons listed, Region 8 and Central Oregon must have an expansion of this higher elevation park!!! | |
| 31 | Dutchman Flat | We frequently cant get into dutchman, especially during holidays. Minimal parking enforcement there. Often motorhomes pulling trailers take up big areas. Plus there is at least a conflict or two every season with skiers. Ive had my trailer unhooked frm my vehicle before and had lug nuts removed from a trailer tire. We often park at Vista Butte at the sunriver junction. No necessarily a snow park, but it gives fast access to trail 6 and to the moon meadow area. Due to increased issues with dutchman,the latter part of last season I started going to Three Creeks parking area and riding in that zone. Parking is never an issue, put it is lower in elevation and snow depths can be low. My suggestion is a much bigger lot at dutchman. There are tons of beatle kill trees on the south side of the lot, so extend the lot and make it long. Also split it into two areas. One for skiers, one for sleds, and actually enforce the parking rules. The two sides would get along better if they were split. | |
| 31 | Dutchman Flat | Better/more consistent grooming | |
| 31 | Dutchman Flat | Build a parking lot | |
| 31 | Dutchman Flat | Expand Dutchman and move cross country skiers to to Mt. Bachelor | |
| 31 | Dutchman Flat | Expand parking | |
| 31 | Dutchman Flat | Expansion please | |
| 31 | Dutchman Flat | Larger parking area | |
| 31 | Dutchman Flat | Larger parking area that allows 4 place trailers, stop closing areas like Dutchman and Tumalo. I've been riding here since 1986 | |
| 31 | Dutchman Flat | More parking | |
| 31 | Dutchman Flat | More parking for large trailers and tow vehicles. | |
| 31 | Dutchman Flat | New snowpark at Dutchman | |
| 31 | Dutchman Flat | Turn part of the flat into parking lot | |
| 32 | Three Creek Lake Road | Parking Lots need to be larger | |
| 32 | Three Creek Lake Road | A LOT more trails and play areas (Snow Feilds) | |
| 32 | Three Creek Lake Road | Keep the non snowmobilers in a separate parking lot. Single cars take up a full truck and trailer space. | |
| 32 | Three Creek Lake Road | Keep the outhouses open by 3 Creeks Lake for access while riding | |
| 32 | Three Creek Lake Road | More grooming on the trail | |
| 32 | Three Creek Lake Road | more parking for trailers, lots of skiers and snowshoers parking with a single car in a trailer space | |
| 32 | Three Creek Lake Road | move commercial operator out of upper parking lot and into lower lot as was the original plan | |

| 32 | Three Creek Lake Road | Move Snomobile rentals/tours to lower adjoining parking lot, have designated car parking in lower adjoining lot. Keep larger parking area for trailer parking or make additional parking. Make a higher elevation snoparks for season begin and end. More trail |
|----|--------------------------|---|
| 32 | Three Creek Lake Road | Ticket skiers that park in the snowmobile park rather than the Nordic lot. It's very hard to park a trailer in the Nordic lot and every year the problem of skiers taking up space meant for trailers gets worse. Higher a few rangers that care about the snowmobiling sport. |
| 32 | Three Creek Lake Road | Add additional trails |
| 32 | Three Creek Lake Road | Keep snowshoers and nordic skiers in their own lot |
| 32 | Three Creek Lake Road | More groomed trails |
| 33 | Ikenick | More parking, bigger lots. |
| 34 | Tombstone Summit | Do not have any suggestions. |
| 35 | Lava Lake | groom snowmobile trails |
| 36 | Little Nash | better grooming |
| 36 | Little Nash | Plow Mekenzie Pass turnaround out more often |
| 37 | Ray Benson | Additional parking at Ray Benson Snow Park |
| 37 | Ray Benson | better grooming of trails |
| 37 | Ray Benson | better parking |
| 37 | Ray Benson | better parking lot maintenance |
| 37 | Ray Benson | Better signage on where you can or can't ride. |
| 37 | Ray Benson | better trail signage |
| 37 | Ray Benson | improve the trail grooming |
| 37 | Ray Benson | improved trail markings |
| 37 | Ray Benson | Larger parking area |
| 37 | Ray Benson | love it there |
| 37 | Ray Benson | More plowing of the parking during big snowfall - I understand it competes with clearing roads. |
| 37 | Ray Benson | More snoparks, better maintained/plowed parking areas, more trails |
| 37 | Ray Benson | more trail signage |
| 37 | Ray Benson | more trails for people to scatter out some more, wider road entrance into ray benson, it's a little tight when you meet another vehical both towing traylors |
| 37 | Ray Benson | ODT keeping Ray Benson lots clear for parking |
| 37 | Ray Benson | Open more area to ride make a few more looped trails to help snowmobiles get better experiance. I think we should be able to ride all our forest areas with snowmobiles they do no damage to the environment. Make it so the groomer can cross the highway from elow little nash and groom big springs area there are many miles in that area that are not accessble for gromming without haluling the groomer there. |
| 37 | Ray Benson | Open up more riding areas and have Cross Country skiers stay in designated areas |
| 37 | Ray Benson | Snow Plows can do a better job keeping the parking lot clean for easier access, |
| 37 | Ray Benson | We love riding there |
| 37 | Ray Benson | Enlarge parking lot/add more restrooms |
| 37 | Ray Benson | Extend the groomed trail system |
| 37 | Ray Benson | Parking lots need cleared more often |
| 37 | Ray Benson | RV hook ups-power |
| 37 | Ray Benson | Trail maps are good/trail markers are terrible |
| 39 | McCoy | enlarge snow park/add new snow park-more trails & a second shelter |
| 39 | McCoy | frequent plowing to the upper parking area |

| 39 | McCoy | Not enough parking at the bottom and top parking area. Needs a parking lot mid way because of elevation and snow level. |
|----|--------------|---|
| 39 | McCoy | Plow parking lot more frequently. |
| 40 | Skyline Road | Access to higher elevation riding. |
| 40 | Skyline Road | Add more snow parks |
| 40 | Skyline Road | better marked trails and roads |
| 40 | Skyline Road | make dog sleders not park at entrance to trail, and clean up after them selfs and dogs |
| 40 | Skyline Road | More truck and trailer parking! Most times you have to get there super early or else |
| 40 | Skyline Road | there is no where to park and you have to go back home. Add more EXTREMELY needed snow parks |
| 40 | Skyline Road | Additional Outhouse |
| 40 | Skyline Road | better marked trails and roads |
| 40 | Skyline Road | better trail grooming |
| 40 | Skyline Road | bigger parking |
| 40 | Skyline Road | Bigger parking Bigger parking lot is needed here. It is by far the most popular place because of the |
| +0 | • | great facilities, but more parking is needed. |
| 40 | Skyline Road | Find an alternate trail route along roads plowed open for logging year-around, and post No Wheeled Vehicles on trails. |
| 40 | Skyline Road | making bigger snow park, for vehicles and trailers |
| 40 | Skyline Road | More grooming of the trails. More parking. Bypass Govt. Camp ski traffic. |
| 40 | Skyline Road | More open play areas versus just trail riding. |
| 40 | Skyline Road | More parking areas |
| 40 | Skyline Road | more trail grooming. |
| 40 | Skyline Road | more trails |
| 40 | Skyline Road | more truck and trailer parking! Most time going up there you have to get there super early or else there is no where to park and you have to turn around and come home. |
| 40 | Skyline Road | Mt Hood Snowmobile Club Sponsers a charity ride. I attend and participate. |
| 40 | Skyline Road | Need additional or larger parking lot |
| 40 | Skyline Road | Cleaner restroom |
| 40 | Skyline Road | Enlarge parking lot |
| 40 | Skyline Road | Increase parking |
| 40 | Skyline Road | Larger parking/better bathrooms |
| 40 | Skyline Road | Make designated areas for motorhome and trailer |
| 40 | Skyline Road | More grooming northside of Hwy 58-repair damage to trails |
| 40 | Skyline Road | More parking/groom trails |
| 40 | Skyline Road | The club in that area ot friendly. Moved to Diamond Lake-Larger parking/better bathrooms |
| 40 | Skyline Road | Trail maps, riding areas-off trail |
| 40 | Skyline Road | Widen entrance/exit roads |
| 41 | Frog Lake | A warming shelter in the area would be nice |
| 41 | Frog Lake | better trail maps and trail markings |
| 41 | Frog Lake | better trail signs |
| 41 | Frog Lake | bigger parking and educate people w/o a snowmobile trailer to not park in the middle of the parking |
| 41 | Frog Lake | bigger parking lot, better trail signs(we got lost a lot), more grooming |
| 41 | Frog Lake | Larger parking lot |
| 41 | Frog Lake | more grooming |
| 41 | Frog Lake | More grooming done to trails. |

| 41 | Frog Lake | More parking areas for trailers. |
|----|-------------------------------|--|
| 41 | Frog Lake | More parking. Expanded riding area |
| 41 | Frog Lake | More trails put in |
| 41 | Frog Lake | more parking |
| 41 | Frog Lake | Need more "open" or "play" areas versus just trails. |
| 41 | Frog Lake | nothing |
| 41 | Frog Lake | parking area on west side |
| 41 | Frog Lake | People park in all sorts of orientations and in all areas. It's frustrating when you have a trailer & people without trailers are parked all over without any order. |
| 41 | Frog Lake | Signage on trails (marking) could be better. |
| 41 | Frog Lake | signs markers |
| 41 | Frog Lake | Warming Hut |
| 41 | Frog Lake | Warming hut is needed. |
| 41 | Frog Lake | Clear fallen trees and cleaner bathrooms |
| 42 | Trillium Lake | Long drive so would like off trail access |
| 43 | White River East | Expansion of the Sno Park and better warming shelters |
| 45 | Little John | mark and maintain trails better |
| 45 | Little John | Nothing - it an excellent area to ride. Well groomed and supervised by law enforcement |
| 46 | Billy Bob | mark and maintain trails |
| 46 | Billy Bob | we try new areas of the state every year this is one in the last five years. Our goal is to ride as much of our state as we can over the years. |
| 46 | Billy Bob | Work on getting more snow! Well maintained |
| 48 | Walton Lake | better grooming of trails |
| 48 | Walton Lake | better parking, curtial winter logging operations in and around sno-park |
| 48 | Walton Lake | plowing of road and parking lot-has been just 1 lane in past which is dangerous since it is 2 way traffic |
| 48 | Walton Lake | Plow road wider to snow park, clear parking areas |
| 49 | Idlewild | Keep all riding trails and roads open |
| 51 | Huddleston | Enjoyed snowmobiling where there were not a lot of people |
| 51 | Huddleston | More snowmobile classes-courteous riders |
| 52 | Dixie Mountain | no wilderness |
| 53 | Blue Springs Summit | Quit grooming trails |
| 53 | Blue Springs Summit | Snow Park |
| 54 | Grande Ronde Lake | Better access to ski lodge |
| 55 | Four Corners | Ability to ride at a higher elevation |
| 55 | Four Corners | Better snow park and parking area |
| 55 | Four Corners | For the County Road Crew to keep the road plowed |
| 55 | Four Corners | Having the local County road crew plow-out the parking lot. |
| 55 | Four Corners | more outhouses |
| 56 | Mt. Emily | outhouse |
| 56 | Mt. Emily | Some better maps and signage on the trails for people that haven't ridden this area would help a lot. |
| 57 | Langdon Lake / Morning Crk | better grooming on the trails |
| 57 | Langdon Lake / Morning Crk | keep up with the groomed trails |

| 57 | Langdon Lake / Morning Crk | More parking |
|----|--|---|
| 57 | Langdon Lake / | open more areas |
| 57 | Morning Crk Langdon Lake / | Snow Grooming, Brushing of trails in summer |
| 57 | Morning Crk Langdon Lake / Morning Crk | the forest service treats us like criminals, they pull us over to check tags and most of us are very resonsible people, come up on a saturday night about midnight and stop the ones that are driving drunk |
| 57 | Langdon Lake / Morning Crk | the trails could use more frequent grooming but for a volunteer only operation they are acceptable. |
| 57 | Langdon Lake / Morning Crk | more area |
| 57 | Langdon Lake / Morning Crk | Better trail markings and grooming |
| 57 | Langdon Lake / Morning Crk | Grooming trails |
| 57 | Langdon Lake / Morning Crk | More off road parking |
| 59 | Tollgate / Woodland | ensure that the road from the highway to the parking area is clear. |
| 59 | Tollgate / Woodland | More grooming of the trails on the weekends! |
| 59 | Tollgate / Woodland | Better warming hut, gathering area. |
| 59 | Tollgate / Woodland | Keep up the groomed trails in the private land trail areas |
| 59 | Tollgate / Woodland | more grooming |
| 59 | Tollgate / Woodland | More grooming of trails |
| 59 | Tollgate / Woodland | snow grooming |
| 59 | Tollgate / Woodland | We just like the big play areas and plenty of snow. |
| 60 | Andies / Horseshoe Prairie | More parking/more trails |
| 60 | Andies / Horseshoe Prairie | Smoother trails for the first 10 miles |
| 61 | Catherine Summit | A few more trails. |
| 61 | Catherine Summit | better outhouse in parking area |
| 61 | Catherine Summit | Keep it open, no restrictions |
| 61 | Catherine Summit | keep the parking lot clean as it is usually a challenge not to get stuck in the lot |
| 61 | Catherine Summit | more frequent trail grooming |
| 61 | Catherine Summit | Smoother access trail to riding areas. It's brutal only a couple days after grooming. |
| 61 | Catherine Summit | Better parking |
| 61 | Catherine Summit | Enlarge parking area |
| 61 | Catherine Summit | Groomed trails |
| 61 | Catherine Summit | Make bigger |
| 61 | Catherine Summit | Paving parking lot |
| 61 | Catherine Summit | Restroom improvement |
| 62 | Clear Creek | Better snow park development. Hard to park and turn around |
| 62 | Clear Creek | improve the Clear Creek Sno Park. It's too small |
| 62 | Clear Creek | Just keep it open!! |
| 62 | Clear Creek | larger snow park more marked trails |

| 62 | Clear Creek | much better grooming |
|----|---------------------------|---|
| 62 | Clear Creek | Need bigger parking area. |
| 62 | Clear Creek | A warming hut |
| 62 | Clear Creek | Don't mess with it-Open more out back |
| 63 | Salt Creek Summit | make more areas like this available closer to home! |
| 63 | Salt Creek Summit | nothing except make the parking free (no pass required) |
| 63 | Salt Creek Summit | Better grooming |
| 63 | Salt Creek Summit | More trail grooming |
| 64 | Ferguson Ridge | groomed every once an awhile would be great! |
| 65 | Diamond Lake (unspec.) | More vehicle and trailer parking space, especially on busy 3 day weekends. |
| 65 | Diamond Lake (unspec.) | Add more snow parks. |
| 65 | Diamond Lake (unspec.) | Better grooming of the trails |
| 65 | Diamond Lake (unspec.) | Groom trails more frequently |
| 65 | Diamond Lake (unspec.) | Maintain trails better |
| 65 | Diamond Lake (unspec.) | They do a good job of keeping the trails plowed/groomed |
| 66 | Halfway | public restrooms |
| 67 | Sumpter | Areas with rest rooms |
| 67 | Sumpter | More grooming, more parking |
| 98 | Other (unspec.) | Free parking, more trails, easier access |
| 98 | Other (unspec.) | not maximizing parking lot |
| 98 | Other (unspec.) | Better sled |
| 98 | Other (unspec.) | Don't close riding area |
| 98 | Other (unspec.) | everyone knows the rules of snowmobiling |
| 98 | Other (unspec.) | improved trail markings |
| 98 | Other (unspec.) | increase grooming the trails and build bridges where creeks seep thru the snow and make it hard to cross |
| 98 | Other (unspec.) | more grooming |
| 98 | Other (unspec.) | need some snow parks |
| 98 | Other (unspec.) | No snowparks |
| 98 | Other (unspec.) | Open more area for people to ride the more area you close the tighter it make the area for more people this in turn make more conflicts. more area means less frequenciey of runins with other recreationalist, and we all need to get along of course. |
| 98 | Other (unspec.) | Parking. |
| 98 | Other (unspec.) | Simply keep it open. |
| 98 | Other (unspec.) | Wider parking area |
| 98 | Other (unspec.) | Bathrooms |
| 98 | Other (unspec.) | better grooming |
| 98 | Other (unspec.) | better trail maps and trail markings |
| 98 | Other (unspec.) | More trails and trail signs on the East side of Mt. Hood, snowmobile trail maps |
| 98 | Other (unspec.) | Keeping the parking area plowed properly |
| 98 | Other (unspec.) | ride from 2nd home |
| 98 | Other (unspec.) | Parking and bathrooms |
| 98 | Other (unspec.) | Better Parking |
| | L | I . |

| 99 | Other (specified) | clear cut hill side for more hill climb area |
|----|-------------------|---|
| 99 | Other (specified) | Does not seem to be a designated area for snowmobiling but many locals use this area. It would be useful if there was signage designating it as a place you can snowmobile, maybe a map showing possible trails, trail markers, act. |
| 99 | Other (specified) | Four wheel drive vehicles also use the area until snow depth prevents their use. |
| 99 | Other (specified) | Increase size of parking lot and increase the amount of public land available for riding (i.e.less restricted wilderness areas) |
| 99 | Other (specified) | Put a sno park up the Clackamas river so we don't have to go through Government Camp to ride. |
| 99 | Other (specified) | Close road to snowmobilers and skiers during high snow periods |
| 99 | Other (specified) | kappka snow parking needs to built |
| 99 | Other (specified) | Groomed trails |
| 99 | Other (specified) | Leave public lands open to the public (snowmobiles and others) |
| 99 | Other (specified) | looks great nice job of gromming trails |
| 99 | Other (specified) | Nothing really the trails are good and you can make it all the way to the Hyatt Lake Resort for lunch |
| 99 | Other (specified) | The parking areas are managed poorly. Snow covers the lines and so everyone parks however they feel like. After mixing in trailers and pickups and RV's each parking area fills up at about 50% capacity. It becomes such a jumbled mess that you can not leaveand return and are often times blocked in. Consider placing cones or flags to mark parking places and driving lanes. Also consider making larger parking lots. The lots are very small compared to the size of the riding areas. |
| 99 | Other (specified) | we liked it except for the closure of certain trails due to the monument. |
| 99 | Other (specified) | A better snowpark and clearcuts. |
| 99 | Other (specified) | Increased trail grooming frequency. Increased parking area . |
| 99 | Other (specified) | Snowmobiling in Oregon has limited access to the forest. In the area that we rode most loggers and 4x4 also go in. |
| 99 | Other (specified) | I ride from my home to this area via FS lands. Once in the area (about 10 miles) there are groomed trails. The only improvement for me, would be to stop 4wheel drive vehicles from driving on back roads in the snow. |
| 99 | Other (specified) | Keep all of thepublic lands open with the exception of designated wilderness. |
| 99 | Other (specified) | More snowmobile snow parks & fewer cross country only snow parks. Very one-sided against S/M parking & trails. |
| 99 | Other (specified) | no logging and leave it as it is |
| 99 | Other (specified) | Allow parking on the gravel roads. Currently no vehicles are allowed past the intersection of the road. Typically the snow may be 1+ miles up the mountain meaning you have to ride on gravel before hitting it. |
| 99 | Other (specified) | The area has many roads to ride just no warming huts around this area |
| 99 | Other (specified) | better plowed roads for access |
| 99 | Other (specified) | better trail marking |
| 99 | Other (specified) | enlarge parking area |
| 99 | Other (specified) | keep all public lands open: All! |
| 99 | Other (specified) | Keep area open |
| 99 | Other (specified) | More parking |
| 99 | Other (specified) | more parking at anthony lakes upper area and clear the road to make a loop up top. hard to turn around |
| 99 | Other (specified) | More Trails |
| 99 | Other (specified) | more trails, bathrooms |
| 99 | Other (specified) | snow removal is an issue at the parking area and has big piles to ride over to access the trail head from parking area. |
| 99 | Other (specified) | Stop wilderness encroachment! |
| 99 | Other (specified) | Need a snow park between Unity and Austin Junction |

| 99 | Other (specified) | Nothing I love everything about the Steens |
|----|-------------------|--|
| 99 | Other (specified) | Add parking area |
| 99 | Other (specified) | Allow access to higher elevations. Most areas above 8000' are wilderness |
| 99 | Other (specified) | Land owned by logging co. Park taken care of by snowmobile club. 2 miles of road to park opened by snowmobile club |
| 99 | Other (specified) | Larger parking |
| 99 | Other (specified) | Open more forest service roads |
| 99 | Other (specified) | Signage and continued groomed trails from Hyatt to Lake of the woods-Done well by local group |

Statewide

| A new snow park at higher elevations | A new snov | v nark at | higher | elevations |
|--------------------------------------|------------|-----------|--------|------------|
|--------------------------------------|------------|-----------|--------|------------|

Access to wilderness areas. Snowmobiles don't leave a trace and don't harm the environment.

Add more trails

Add sno-parking area near Estacada, adjust trail grooming funding to coincide with sno-pack.

add some roads for off season use

Additional funding to Grooming program and more money to snow park creation/expansion

Additional snowmobile events: poker runs, races, rallys.

add'I parking and grooming

Be able to snowmobile in the wilderness areas thus allowing more areas to ride in

beacon search park, Avi 101

Beter mapping

better access to snow parks

better access to trails and smoother rides

Better and bigger parking close to the good snow areas

Better free trail maps online, more trails closer to portland, it's a long drive to the mountain and that plays a big part in decreased usage,

Better maps/trail markings

Better marked trails

Better marking of avalanche potentials if you go off trails

Better Parking areas at higher elevations. Like Dutchman snowpark. we try to carpool with 4-5 people and cant park our trailer there due to length

better parking, esp. re: snmbl trailers, more, better marked trails specific for snowmobiles, and enforcement for that violation

Better road maintenance

better snow removal in snowmobile parking lots. better trail grooming, more open areas to snowmobiles

Better snowparks for spring riding

Better trail grooming. Please do not take away ANY MORE riding areas in all public lands.

better trail maps and snow conditon updates

Change Dept. of Interior road closure policies

Charge out of state snowmobilers license fees that will contribute to costs of snow removal and trail grooming.

Clean up burn areas

Clean up burned areas

Close in grooming to prevent moguls

Create more trails that are for snowmobiles. Most conflicts are between cross country skiers and snowmobilers where the cross country skier is upset because there is a snowmobile in the area.

Create new riding areas or no further closures w/o opening new areas to compensate

Creation of more snowmobile only trails to limit skier rider interaction so that each may enjoy in their way.

Develop more trail systems. Do not close National Forest land outside of designated wilderness areas to snow machine use.

Dimly lit parking areas, nothing too bright, just to keep your belongings safe and provide a low glare light.

do not close any areas currently available to riding

Do not limit; create more

Don't know what you mean by "Dangerous 'high marking'

Don't over regulate.

Don't regulate too much

Don't take away the areas we have to ride now and the need to open up new areas

dont try to overportect the riders. charge for the use of search and rescue

early season grooming

Education

enforce the laws, keep riders where riders should be, four strokes only

Enlarge snowmobile park at Dutchmans Flat rather than do a new one at anywhere else...

equal access, enforce overnight parking in non designated areas, and out of state violators.

ethanol free gas available close to riding. open more trails and areas. better signage on trails, bigger hills

expand

expand areas

Expand Dutchman sno-park size. Often it is the only park where the snow is deep enough to ride.

Expand higher elevation riding on Mt Hood

Expand parking/education requirments

Expand Snowparks, especially high elevation snowparks, such as Dutchman. Keep balance between use groups

Expand the riding areas

expand trial systems so heavy use areas are not so crowded.

Extend groomed trail system to dispurse large groups of snowmobilers

Family play areas for kids

Fight wilderness proposals that would close existin back country riding areas

For Ray Benson and Crescent Lake, we are VERY IMPRESSED with the overall delivery of services.

Forest service working with ODOT/private land owners to connect trail heads to extend riding from trail to trail

frequent grooming

Give us MORE places to ride, over crowding is a problem.

Groom trails for non-aggressive riders

Grooming

Grooming

Grooming and restrooms or warming shacks

grooming and snow depth up dates would be nice

Grooming and Trail Maintenance is done by volunteers. Washington pays their groomers. Also, some trails in the Tollgate area are on private property and off trail riding is prohibited.

Grooming information would be helpful

Grooming! Wanoga [is bad]; don't ride there very much simply because of grooming. Paulina is better, although could use improvement

Have more ares to ride

Have more backcountry access available so we can get off of the trail sooner.

Have more info on snowmobile activies

having a state sponsored forum where riders can post information about riding areas, and keep each other current on the riding conditions, hazards, etc...

Having respect from cross country skiiers and snow shoers when using shared areas.

Higher elevation snowmobile parks. Less law enforcement. No length restrictions. More parking.

I love snowmobiling in Oregon. The trails especially around Paulina Lake and Mt. Bachelor are much better marked than those in the Mt. Hood National Forest.

I prefer to spend as little time on the trail as possible and prefer backcountry, but when I do have to ride trail to get to the backcountry I prefer it to be groomed more often than they currently are.

improve access to the info for on line users

Improve grooming and trail maintenance. Trails tend to be soft even when groomed. Harden up.

Improve the riding on Mt Hood. Add a sno park up the Clackamas past Ripplebrook so those of us who choose to ride Mt Hood areas don't have to fight all the traffic at Govt Camp. But like everything else in the Mt Hood National Forest it takes years to getanything done. Like the new outhouses at Skyline.

Increase number of grooming days.

Increase parking

increase parking in the high country. Kapka butte is not the high country. Snow shoers and skiers can park at the Mt Bachelor Nordic center.

Info on internet

Its all about parking and access. Im lucky enough to work shift work so I ride mostly on week days. It has to be real epic for me to go up on a weekend, since parking is terrible.

its pretty darn good

Just need more snow. We have good trails

Keep 4 wheel clubs off closed roads

Keep 4 wheel drives off trails

keep 4x4s off gromed trails

keep all public lands open to the public

keep areas open and allow more off trail riding.

Keep areas open for snowboarding

Keep areas open to all users.ATV's, skiers, it's all public land and fees paid. We should be able to use it

Keep off ATV's or make them help pay for grooming

Keep skiers and snowmobilers in separate areas

Keep the accessable to the public

KEEP THE RIDING AREAS OPEN!

Keep the sport positive. Promoting safety and fun while enjoying oregon s great out back areas.

Keep the trails open.

keep them all open

Keep them open

Keep them open, do not reduce the amount of trails

Keep them open, not restricted

Keep trails open. Develop more trails.

Keep trails open. Stop closing them down as wilderness areas. Work with other users (motorized and non-motorized) to maximize use for everyone.

Keep UTV's with tracks off the trails

Keeping up with trail grooming

Kids/teenagers with adults

Larger area to park at Dutchman flat!!

Larger riding areas

Law Enforcement to site acohol use on trails & snow parks (Thousand Springs) less interference from government agencies and law enforcement little more info to keep people safe Local club does a great job in grooming Log trails Maintain local control, not USFS Make Dutchman Flats Snowpark bigger Make Dutchmann bigger make it easier to work with the forest service to maintain old and open new trails for snowmobiling Make it legal to cross roads, highways, etc. Too many trails are separated by heavily traveled roadways, make more tunnels under these roads or make it legal to cross them. Make more areas to ride and more connectors from one area to another Make more trails and back country riding available make more trails, don't close trails Make people more aware of the great riding areas, to keep them from going to Washington. Maps, Parking Massively expand the trailsystem and play areas Minimize environmental restrictions More and larger snow parks above 5500 feet for early and late season riding More areas...no fee parking More back country riding more connecting trails with accomodations along the trails More frequent grooming better signage More funding for trail grooming more groomed trails More groomed trails More groomed trails more groomed trails More grooming of trails, including trimming of growth next to trails to keep trail wide enough for safe passage More grooming on smaller trails More grooming, more parking More grooming. More grooming. And grooming on the weekends when more riders are out. More grooming. Trail expansion More info on trails

More instructors to give classes

more large equipment to help brush trails in the summer time.

More law enforcement out on the trails

more logging

more maintance during off season

more orange diamond markers and intersection sinage that corespondes with the maps

More parking and restrooms

More parking areas and groomed trails

More parking at Dutchman flat parking area

More parking at high elevations

more parking with trailers at snow level

More parking, explanded parking

More parking.

More parking/expand trails

More parking/grooming

more plowing

More riding areas

More RV parking in areas that have snow

More signage/marking

More signs/education/off road parking

More sno parks with access to off trail riding-open hillsides, meadow, etc

More snowparks at higher elevations with room for larger trailers w/ proper signs indicating where to park. Many times XL/snowshoers park in snowmobile site in a way that takes up more space thus leaving no room for snowmobilers

More trail grooming

More trail grooming

more trail maintenance, keep brush clear

More trails

More trails

more trails, more areas to ride and stop bringing our boundaries in every year. MORE parking at higher elevations which allow us access to normal riding areas longer in the year.

More trails away from snowparks-must keep 4 wheelers and cross country skiers off trails

More trails to ease crowding and excessive machines on trails

more trails, more maps like PDFmaps

more trails, more shelters, more parking,

More volunteer efforts, less government oversight.

More/better grooming

Mt. Hood, more trails...

Need more riding area around Mt Bachelor. Too many riders being crowded in too small an area due to closures. Causes accidents.

New/enlarge parking lots, develop new trails in unused areas, more cooperation from USFS

No pedestrians or dog sleds-more grooming

No snow park fees

non closure of areas

Not letting snoeshoes walk onsnowmobilng trails. Have better signs for them

Open a big lot near Dutchman that allows vehicles over 40ft. Or allow parking at Mt. Bachelor or offer season pass to park there. I would pay extra money to park there.

Open all public areas to snowmobiling. Snowmobiles leave no trace!

Open more areas

open more areas

open more areas

open more areas for riding

open more areas to riding

Open more outback

Open more trails

open more trails, groom more

Open the trails. Keep the government out of the recreation. Clear sno-park just as important as ski areas

Open up areas, keep ATV's/4x4's off trails, direct skiers to their secluded areas

open up more areas.

Open up more back country areas

Open up more back country riding

open up more lands. Snowmobiling is a low impact sport. Like all other activities the more people that are in one area the less personal responsibility each individual takes.

Open up more USF land, we do not leave any trace riding on snow.

Open up the wilderness areas.

Open up wilderness to snowmobile

Opening up corridors through national forest that would provide for more area to spread out riders

Parking

parking in higher elevations for early ,late or poor snow conditions. Also more parking for truck and snowmobile trailers.

Patroled by law enforcement

Promote riding in OR

Quit closing riding areas from snowmobilers

Quit closing riding areas.

Quit giving trails to cross country skiers. Open more public land to snowmobiles

Re-open closed forest service roads

reopen previously closed areas, more grooming, larger trail systems, larger snoe parks

Separate areas for cross country skiers

Sharing of snow parks

Snow parks w/power and water hook ups

Snowmobilers need to become better organized and do a better job providing positive public education concerning the sport, and the counter the threats to lock us out of public lands by the pro-environmental organizations.

snowpark in area of estscada

Some new trails/continue good signage

stop closeing down areas really how much damage does a snowmobile do to the ground when it's driving on snow.

Stop closing areas

stop closing forests to multiple use opportunities

Stop the forrest service from shutting down our riding areas. In our riding area, non-motorized users have areas to themselves, meanwhile the motorized riding areas, parking lots and trails must be shared. This creates conflicts, which the forrest uses to shut down more motorized areas...to reduce conflict???

Stop wilderness encroachment

They are good generally speaking. Local clubs provide a great service too. Better parking in high cascade areas. Pretty good otherwise. Keep public lands open and prevent closure by environmental groups should be the main focus

This is our recreation in the winter and we want access to it

to quit adding fees so we can afford to ride

Tracked side by sides ruin groomed trails. Need to direct those riders elsewhere or limit the trail acess

Trail grooming reports updated online

Trail intersection markers with numbers coralating with numbers on map

trail maintenance

up to date avalanche conditions

use some sno-park permit funds for plowing snow parks

USPS attempt to cloe recreational and snowmobile areas

Watershed and wilderness intrusion by snowmobilers is a common issue and one that needs attention.

Snowmobilers have unprecedented access when snow conditions permit to most public lands.

We only go to Hoo Doo, 5 stars for us! All other ones have issues, some major. If the survey was about each location I could give more info on why we don't go to them

Where we are (region8) often pickups drive on trails early season-very difficult problem. Also, logging causes snow plowing of roads so you cannot ride there

With new road closures, there have beenmany misunderstandings/conflicts with the law regarding where we can park

Work together with all users and forest service to open new trails and back country riding opertunities.

Work with oregon state snowmobile assn-OSSA

Appendix 2. Calculation of economic contribution

The following steps were used in estimating the economic contribution of expenditure by snowmobilers.

- 1. An IMPLAN model was created for the state, with 2012 economic structure data.
- 2. IMPLAN default values were used and Type SAM multipliers were created. These multipliers treat households as endogenous and thus include induced effects.
- 3. An impact scenario was created by allocating visitor expenditure into relevant IMPLAN categories (bridging). Spending in the groceries, gas and oil, and miscellaneous categories was treated as retail expenditure and margined.
- 4. Impact estimates were generated. Impact results are shown in 2014 dollars.

Input-output analysis assumptions

IMPLAN is based on input-output (IO) analysis and is widely used to estimate the economic contribution of tourism, recreation, and other activities. The IO approach involves several assumptions. These assumptions generally are not met in their entirety, but IO (and IMPLAN in particular) provides a good balance between practicality and accuracy. That is particularly true in cases, such as the present, in which the impact being evaluated is a small proportion of the overall study area economy. In such cases, non-linearities can be reasonably approximated with the linear relationships inherent in IO. IO assumptions include the following.

- 1. All businesses within each sector produce a single, homogeneous product or service; the input procedures used in the production process are identical.
- 2. An increase of production will lead to purchase of inputs in the proportions shown in the technical coefficients matrix. In technical terms, the production function is linear and homogeneous. This assumption restricts economies of scale; IO analysis assumes a business always will use the same proportion of inputs regardless of how much it grows.
- 3. When households are included in the analysis (as is done for this analysis), their spending patterns (consumption functions) also are assumed to be linear and homogeneous.
- 4. The structure of the economy will not change. Many input-output models, including the one used here, are static in nature. They are based on data from a single year, in this case 2012. Dramatic structural changes in the economy would mean the relationship between expenditure and impact would be different in future years.
- 5. When IO is used to estimate the effect of changes in final demand (as in the present case), there must be unemployed resources available to be brought into the sector as inputs.

Appendix 3. Questionnaire instrument (mail version)

The mail questionnaire is reproduced below. Note that the online version involved greater detail, notably in region-level (rather than statewide-level) reporting of "ride most often" sites and associated distance, crowding, and improvements.

Snowmobiling in Oregon



Please Complete This Survey and Return It As Soon As Possible

Your Input Helps Inform Future Trail Opportunities

Thank You for Your Participation



Cascades

This research survey, and each question in it, is voluntary. Your responses will be confidential – responses will only be reported as part of larger groups. We do not anticipate any direct risks or benefits in completing the survey, but your responses may enhance future opportunities for you and other riders. The survey takes approximately 15 to 20 minutes to complete, depending on your riding patterns.

If you have any questions about the survey, please contact Principal Investigator Kreg Lindberg at 541-322-3126 or by e-mail at kreg.lindberg@osucascades.edu. If you have any questions about your rights as a survey participant, please contact the OSU Institutional Review Board (IRB) Human Protections Administrator at 541-737-8008 or by e-mail at IRB@oregonstate.edu.

| Please answer the remaining questions of This includes US Forest Service, BLM, a | | pect to <u>recreational snowmobile riding on public lands</u> nds. | s in Oregon. |
|--|--|--|---------------------------------|
| snowmobile riding during an average sea | ason over the during the pa | now, please answer survey questions with respect to e past <u>five years / seasons</u> . If you <u>did not</u> ride snown ast five years, please tick this box \square , skip the remain | nobiles |
| areas to ride your snowmobile on surro area, then write in the number of days f | ounding trail for each area t the bottom | s, how many days did you park in <u>each</u> of the folls and off-trail areas? See enclosed map to locate where you rode. Any portion of a day counts as | e each parking s a full day. |
| Snowmobile parking area | Days | Snowmobile parking area | Days |
| 1. Page Mountain | | 33. Ikenick | |
| 2. Mount Ashland | | 34. Tombstone Summit | |
| 3. Buck Prairie | | 35. Lava Lake | |
| 4. Big Elk | | 36. Little Nash | |
| 5. Summer Home | | 37. Ray Benson | |
| 6. Fish Lake | | 38. Big Springs | |
| 7. Ichabod Spring | | 39. McCoy | |
| 8. Rainbow Bay | | 40. Skyline Road | |
| 9. Dead Indian | | 41. Frog Lake | |
| 10. Great Meadow | | 42. Trillium Lake | |
| 11. Four Mile Lake Road | | 43. White River East | |
| 12. Quartz Mountain | | 44. Bennett Pass | |
| 13. Camas | | 45. Little John | |
| 14. Annie Creek | | 46. Billy Bob | |
| 15. Union Creek | | 47. Ochoco Divide | |
| 16. Thousand Springs | | 48. Walton Lake | |
| 17. Claude Lewis Trailhead | | 49. Idlewild | |
| 18. Three Lakes (W. Diamond Lake) | | 50. Starr Ridge | |
| 19. South Diamond | | 51. Huddleston | |
| 20. North Crater Lake | | 52. Dixie Mountain | |
| 21. Walt Haring | | 53. Blue Springs Summit | |
| 22. Waldo Lake Road | | 54. Grande Ronde Lake | |
| 23. Crescent Lake | | 55. Four Corners | |
| 24. Junction | | 56. Mt. Emily | |
| 25. Six Mile | | 57. Langdon Lake / Morning Creek / MP 20 | |
| 26. Ten Mile | | 58. Spout Springs Ski Area / MP 22 | |
| 27. Paulina Lake | | 59. Tollgate / Woodland | |
| 28. East Lake | | 60. Andies Prairie / Horseshoe Prairie / MP 27 | |
| 29. Edison Butte | | 61. Catherine Summit | |
| 30. Wanoga | | 62. Clear Creek | |
| 31. Dutchman Flat | | 63. Salt Creek Summit | |
| 32. Three Creek Lake Road | | 64. Ferguson Ridge | |
| | | | |
| Write in areas not listed above | Days | Write in areas not listed above | Days |

1. How many snowmobiles are owned within your household? Please write in the number. _____ snowmobiles

| ow crowded do you feel | | at all vded | Slightly crowded | | | derately owded | | Extre crow |
|---|---|----------------|------------------|---------------------------------|---|---------------------------------|----------------------------|---------------------------------|
| e parking area | 1 | 2 | 3 | | 5 | 6 | 7 | 8 |
| e riding | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| ail managers have limited r nanagers to allocate fundir st)? Circle one number fo | ng for eacl | h of the fo | | | | | | |
| | Action | | | Not import | ant | | im | Very nportant |
| More signs along trails | | | | 1 | 2 | 3 | 4 | 5 |
| More trail maps / information | 1 | | | 1 | 2 | 3 | 4 | 5 |
| More enforcement of existin | g rules / re | gulations | in trail areas | 1 | 2 | 3 | 4 | 5 |
| | | | | 1 | 2 | 3 | 4 | 5 |
| More trail grooming | | | | | _ | _ | | |
| More trail grooming More educational programs | promoting | safe / res | ponsible riding | 1 | 2 | 3 | 4 | 5 |
| | | safe / res | ponsible riding | 1 1 | 2 | 3 | 4 | 5 5 |
| More educational programs | the area | safe / res | ponsible riding | | | | | |
| More educational programs More parking / sno-parks in | the area | | ponsible riding | 1 | 2 | 3 | 4 | 5 |
| More educational programs More parking / sno-parks in More restrooms in the sno-p | the area park ities nearb | | ponsible riding | 1 1 | 2 | 3 | 4 | 5 5 |
| More educational programs More parking / sno-parks in More restrooms in the sno-p More RV camping opportuni | the area park ities nearb | | ponsible riding | 1 1 1 | 2 2 2 | 3 3 3 | 4 4 4 | 5 5 5 |
| More educational programs More parking / sno-parks in More restrooms in the sno-p More RV camping opportuni Better snow removal in the s | the area park ities nearb | | ponsible riding | 1 1 1 1 | 2 2 2 2 | 3 3 3 3 | 4 4 4 4 | 5 5 5 5 |
| More educational programs More parking / sno-parks in More restrooms in the sno-p More RV camping opportuni Better snow removal in the s Increase trail safety / reduce | the area park ities nearb | | ponsible riding | 1 1 1 1 | 2 2 2 2 2 | 3 3 3 3 3 | 4 4 4 4 | 5 5 5 5 |
| More educational programs More parking / sno-parks in More restrooms in the sno-p More RV camping opportuni Better snow removal in the s Increase trail safety / reduce More avalanche education | the area park ities nearb sno-park hazards | | ponsible riding | 1 1 1 1 1 | 2 2 2 2 2 2 2 | 3 3 3 3 3 3 | 4 4 4 4 4 | 5 5 5 5 5 |
| More educational programs More parking / sno-parks in More restrooms in the sno-p More RV camping opportuni Better snow removal in the s Increase trail safety / reduce More avalanche education More warming shelters | the area park ities nearby sno-park hazards | у | | 1 1 1 1 1 1 | 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 | 4 4 4 4 4 4 | 5 5 5 5 5 5 |
| More educational programs More parking / sno-parks in More restrooms in the sno-p More RV camping opportuni Better snow removal in the s Increase trail safety / reduce More avalanche education More warming shelters Expand existing trail system | the area park ities nearby sno-park hazards (more tha | у | | 1 1 1 1 1 1 1 | 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 | 4 4 4 4 4 4 | 5 5 5 5 5 5 5 |

3. From the list in Question 2 above, please write the name of the parking area where you rode snowmobiles most

4. For the area you wrote in Question 3 above (rode snowmobiles most often), approximately how many miles do

often in the average season. If there is a tie, write the name for your favorite among those in the tie.

you drive one-way from your home to that area? Write in the number of miles.

I rode most often at (write in one name) ___

8. There are various considerations in deciding where to ride. How important is each of the following when deciding in which snowmobile area to ride? Circle one number for each consideration.

| Consideration | Not importa | ant | | im | Very portant |
|---|----------------|-----|---|----|-----------------|
| Trail opportunities (location of trails, variety of trails, etc.) | 1 | 2 | 3 | 4 | 5 |
| Access to backcountry off-trail riding | 1 | 2 | 3 | 4 | 5 |
| Active law enforcement presence | 1 | 2 | 3 | 4 | 5 |
| Absence of law enforcement | 1 | 2 | 3 | 4 | 5 |
| Safety and user ethics education | 1 | 2 | 3 | 4 | 5 |
| Availability of shelters (in sno-park and along trails) | 1 | 2 | 3 | 4 | 5 |
| Trail grooming / maintenance | 1 | 2 | 3 | 4 | 5 |
| Trail signs | 1 | 2 | 3 | 4 | 5 |
| Trail map availability | 1 | 2 | 3 | 4 | 5 |
| Parking availability | 1 | 2 | 3 | 4 | 5 |
| Website / online information | 1 | 2 | 3 | 4 | 5 |
| Campground areas at or near trailheads | 1 | 2 | 3 | 4 | 5 |
| Other (please specify) | 1 | 2 | 3 | 4 | 5 |

9. How important is each of the following snowmobile trail riding opportunities in Oregon? Circle one number for each opportunity.

| Trail riding opportunities | Not importa | ant | | im | Very portant |
|--|----------------|-----|---|----|-----------------|
| Long interconnected trails (more than 100 miles) | 1 | 2 | 3 | 4 | 5 |
| Medium trails (50 to 100 miles) | 1 | 2 | 3 | 4 | 5 |
| Short trails (fewer than 50 miles) | 1 | 2 | 3 | 4 | 5 |

Please tell us more about your snowmobile riding trips. <u>Day trips</u> do not involve an overnight stay away from home. <u>Multi-day trips</u> involve an overnight stay, even if you only ride your snowmobile on one day.

10. In the past five years, has the number of trips you have taken increased, stayed the same, or decreased? Please tick one box for <u>each</u> type of trip you take.

| Type of trip | In the past 5 years, the number of this type of trip has | | | |
|----------------|--|-------------------|-------------|--|
| Day trip | ☐ Increased | ☐ Stayed the same | Decreased | |
| Multi-day trip | ☐ Increased | ☐ Stayed the same | □ Decreased | |

| 11. | If the number of either ty | pe of trip has | increased or decrease | ed, please indicate why. | Tick all that apply. |
|-----|---|----------------|--|--------------------------|----------------------|
| | ☐ More free time☐ More disposable income | ome 🗌 | Less free time Less disposable income | ı | |
| | More snow than befoHigh cost of fuel | | Less snow than before Other (please describe): | · | |

| [] | ☐ RV / cam ☐ Hotel / m | | | roup RV / camper area t home of local friends/family | ☐ RV or tent disperse☐ Other (please desc | | | |
|--------|--|--|---|--|---|--|--|--|
| | 13. While on day trips or multi-day trips, what activities do you typically do or would like to do in addition to riding? Fick all that apply. | | | | | | | |
| | | ill skiing country skiing e the town / area | | Dine out Visit brewpubs / breweries Visit historic places Other (please describe): | ☐ Hunt ☐ Watch wildlife ☐ Other outdoor act | tivities | | |
| | | | | icate in which <u>region</u> you liv ost days in 2013). Write in o | | ed across regions, | | |
| I | lived in regi | on | | | | | | |
| | | | | parked in <u>each</u> of the <u>region</u> on public land in the <u>avera</u> | | | | |
| while | e snowmob | iling, but please rep | ort wh | wn on the map or in other ar nere you <u>parked</u> . Include ev house. <u>Any portion of a da</u> | en short trips close to | | | |
| Ther | n split the to | otal number of days | riding | in each region into: | | | | |
| • | days spent on day snowmobile riding trips (did not involve an overnight stay away from home); and days spent on multi-day snowmobile riding trips (involved an overnight stay, even if you only rode one day during the trip). Example: assume you rode 8 days total in the Example region in the average season. Five of those days were day rips (1 day each) and three of those days were from a multi-day trip. In the Example row, you would write 8 in the | | | | | | | |
| trips | mple: assur (1 day eac | ne you rode 8 days t h) and three of those | days | were from a multi-day trip. | | | | |
| trips | mple: assur (1 day eac | me you rode 8 days t h) and three of those in the second colum | days | s were from a multi-day trip. I 3 in the third column. | In the Example row, y | ou would write 8 in the | | |
| trips | mple: assur (1 day eac | ne you rode 8 days th) and three of those in the second column Total number of days riding in | days | were from a multi-day trip. | In the Example row, you | ou would write 8 in the | | |
| trips | mple: assur (1 day eac column, 5 i | me you rode 8 days th) and three of those in the second column | days | were from a multi-day trip. I 3 in the third column. Of these total days riding i | In the Example row, you | ou would write 8 in the | | |
| trips | mple: assur (1 day eac column, 5 i | ne you rode 8 days th) and three of those in the second column Total number of days riding in region | e days | were from a multi-day trip. I 3 in the third column. Of these total days riding i day snowmobile riding | In the Example row, you | ou would write 8 in the any days were spent on | | |
| trips | mple: assur (1 day eac column, 5 i Region Example | ne you rode 8 days th) and three of those in the second column Total number of days riding in region | e days | were from a multi-day trip. I 3 in the third column. Of these total days riding i day snowmobile riding | In the Example row, your each region, how materips multi-day s | iny days were spent on inowmobile riding trips | | |
| trips | mple: assur (1 day eac column, 5 i | ne you rode 8 days th) and three of those in the second column Total number of days riding in region | e days | were from a multi-day trip. I 3 in the third column. Of these total days riding i day snowmobile riding | In the Example row, your each region, how materips multi-day some each region, how materials. | iny days were spent on inowmobile riding trips | | |
| trips | mple: assur (1 day eac column, 5 i Region Example | ne you rode 8 days th) and three of those in the second column Total number of days riding in region Total number of days riding in region | e days | were from a multi-day trip. I 3 in the third column. Of these total days riding i day snowmobile riding 5 Of these total days riding i | In the Example row, your each region, how materips multi-day some each region, how materials. | iny <u>days</u> were spent on nowmobile riding trips 3 Iny <u>days</u> were spent on | | |
| trips | mple: assur (1 day eac column, 5 i Region Example | ne you rode 8 days th) and three of those in the second column Total number of days riding in region Total number of days riding in region | e days n, and | were from a multi-day trip. I 3 in the third column. Of these total days riding i day snowmobile riding 5 Of these total days riding i | In the Example row, your each region, how materips multi-day some each region, how materials. | iny <u>days</u> were spent on nowmobile riding trips 3 Iny <u>days</u> were spent on | | |
| trips | Region Region Region Region | ne you rode 8 days th) and three of those in the second column Total number of days riding in region Total number of days riding in region | e days n, and | were from a multi-day trip. I 3 in the third column. Of these total days riding i day snowmobile riding 5 Of these total days riding i | In the Example row, your each region, how materips multi-day some each region, how materials. | iny <u>days</u> were spent on nowmobile riding trips 3 Iny <u>days</u> were spent on | | |
| trips | Region Region 1 2 | ne you rode 8 days th) and three of those in the second column Total number of days riding in region Total number of days riding in region | e days n, and | were from a multi-day trip. I 3 in the third column. Of these total days riding i day snowmobile riding 5 Of these total days riding i | In the Example row, your each region, how materips multi-day some each region, how materials. | iny <u>days</u> were spent on nowmobile riding trips 3 Iny <u>days</u> were spent on | | |
| trips | Region Region 1 2 3 | ne you rode 8 days th) and three of those in the second column Total number of days riding in region Total number of days riding in region | e days n, and | were from a multi-day trip. I 3 in the third column. Of these total days riding i day snowmobile riding 5 Of these total days riding i | In the Example row, your each region, how materips multi-day some each region, how materials. | iny <u>days</u> were spent on nowmobile riding trips 3 Iny <u>days</u> were spent on | | |
| trips | Region Region 1 2 3 4 | ne you rode 8 days th) and three of those in the second column Total number of days riding in region Total number of days riding in region | e days n , and d | were from a multi-day trip. I 3 in the third column. Of these total days riding i day snowmobile riding 5 Of these total days riding i | In the Example row, your each region, how materips multi-day some each region, how materials. | iny <u>days</u> were spent on nowmobile riding trips 3 Iny <u>days</u> were spent on | | |
| trips | Region Region 1 2 3 4 5 | ne you rode 8 days th) and three of those in the second column Total number of days riding in region Total number of days riding in region | e days n, and \rightarrow | were from a multi-day trip. I 3 in the third column. Of these total days riding i day snowmobile riding 5 Of these total days riding i | In the Example row, your each region, how materips multi-day some each region, how materials. | iny <u>days</u> were spent on nowmobile riding trips 3 Iny <u>days</u> were spent on | | |
| trips | Region Region 1 2 3 4 5 6 | ne you rode 8 days th) and three of those in the second column Total number of days riding in region Total number of days riding in region | e days n, and \rightarrow | were from a multi-day trip. I 3 in the third column. Of these total days riding i day snowmobile riding 5 Of these total days riding i | In the Example row, your each region, how materips multi-day some each region, how materials. | iny <u>days</u> were spent on nowmobile riding trips 3 Iny <u>days</u> were spent on | | |
| trips | Region Region 1 2 3 4 5 6 7 | ne you rode 8 days th) and three of those in the second column Total number of days riding in region Total number of days riding in region | e days n, and | were from a multi-day trip. I 3 in the third column. Of these total days riding i day snowmobile riding 5 Of these total days riding i | In the Example row, your each region, how materips multi-day some each region, how materials. | iny <u>days</u> were spent on nowmobile riding trips 3 Iny <u>days</u> were spent on | | |
| trips | Region Region 1 2 3 4 5 6 7 8 | ne you rode 8 days th) and three of those in the second column Total number of days riding in region Total number of days riding in region | e days n, and \rightarrow | were from a multi-day trip. I 3 in the third column. Of these total days riding i day snowmobile riding 5 Of these total days riding i | In the Example row, your each region, how materips multi-day some each region, how materials. | iny <u>days</u> were spent on nowmobile riding trips 3 Iny <u>days</u> were spent on | | |

12. For multi-day trips, what type of overnight accommodation do you use? Tick all that apply.

Please tell us more about your "typical" day snowmobile riding trip – at the single location where you most often rode on day trips in the average season.

We then ask the same questions about your typical multi-day trip. If you did not take any day snowmobile riding trips in the average season, please skip to Question 20.

16. In which of the 11 Oregon regions was the location (where you rode) on your typical day snowmobile riding trip? It may be the same as the region you live in. Write in one number.

My typical day snowmobile riding trip was in region _____ (write one number between 1 and 11)

17. Was the location for your typical day snowmobile riding trip within 60 one-way driving miles of your home? Tick one box.

Yes, it was within 60 miles of my home

No, it was further than 60 miles from my home

18. How many people usually were in your travel party for your typical day snowmobile riding trip? This includes everyone who traveled in the same vehicle with you to the riding location. Write in the number of people, <u>including yourself</u>.

| pe | erson(s) |
|----|----------|
|----|----------|

19. On this typical day snowmobile riding trip, how much did <u>you and other members of your travel party combined</u> spend within 50 miles of the location? If the typical trip was a short trip near your home, it is possible that you spent little or no money. Write in the <u>amount for each item</u>, rounding off to the nearest dollar.

| Item | Amount spent by everyone in travel party within 50 miles of the location |
|--|--|
| Hotel, motel, condo, cabin, B&B, or other lodging except camping | \$ |
| Camping (RV, tent, etc.) | \$ |
| Restaurants, bars, pubs | \$ |
| Groceries | \$ |
| Gas and oil | \$ |
| Other transportation | \$ |
| Park / forest entry, parking, or recreation use fees | \$ |
| Recreation and entertainment, including guide fees | \$ |
| Sporting goods | \$ |
| Other expenses, such as souvenirs | \$ |
| Total | \$ |

| | I don't recall my trip spending |
|---|---|
| П | I don't want to report my trip spending |

Now please tell us more about your "typical" <u>multi-day snowmobile riding trip</u> – at the single <u>location</u> where you <u>most often</u> rode on <u>multi-day trips</u> in the <u>average</u> season.

If you stayed overnight it was a <u>multi-day trip</u>, even if you only rode your snowmobile on one day. If you did not take any multi-day snowmobile riding trips in the average season, please skip to Question 25.

| 20. In which of the 11 Oregon <u>regions</u> was the <u>location</u> (where you rode) on your <u>typical multi-day snowmobile</u> <u>riding trip</u> ? It may be the same as the region you live in. Write in one number. | |
|--|-----|
| My typical multi-day snowmobile riding trip was in region (write one number between 1 and 11) | |
| 21. Was the location on this typical multi-day snowmobile riding trip within 60 one-way driving miles of your hor Tick one box. | ne? |
| ☐ Yes, it was within 60 miles of my home ☐ No, it was further than 60 miles from my home | |
| 22. On this typical multi-day snowmobile riding trip, how many days did you spend within 50 miles of the locatio Write in the number of days, including the days you didn't ride during the trip. | n? |
| days on my typical multi-day trip | |
| 23. How many people usually were in your travel party for your typical multi-day snowmobile riding trip? This includes everyone who traveled in the same vehicle with you to the riding location. Write in the number of peopl | e, |

24. On this typical multi-day snowmobile riding trip, how much did <u>you and others in your travel party combined</u> spend within 50 miles of the location? Write in the <u>amount for each item</u>, rounding off to the nearest dollar.

| Item | Amount spent by everyone in travel party within 50 miles of the location |
|--|--|
| Hotel, motel, condo, cabin, B&B, or other lodging except camping | \$ |
| Camping (RV, tent, etc.) | \$ |
| Restaurants, bars, pubs | \$ |
| Groceries | \$ |
| Gas and oil | \$ |
| Other transportation | \$ |
| Park / forest entry, parking, or recreation use fees | \$ |
| Recreation and entertainment, including guide fees | \$ |
| Sporting goods | \$ |
| Other expenses, such as souvenirs | \$ |
| Total | \$ |

| | I don't recall my trip spending |
|---|---|
| П | I don't want to report my trip spending |

including yourself.

_____ person(s)

25. Based on your snowmobile riding, how much of a problem do you think each of the following is on snowmobile trails on public lands in Oregon? Circle one number for each issue.

| Issue | Not a proble | m | | | serious roblem |
|---|--------------|---|---|---|-------------------|
| Alcohol or drug use | 1 | 2 | 3 | 4 | 5 |
| Vandalism | 1 | 2 | 3 | 4 | 5 |
| High avalanche risk | 1 | 2 | 3 | 4 | 5 |
| Dangerous "high marking" | 1 | 2 | 3 | 4 | 5 |
| Riding in closed areas | 1 | 2 | 3 | 4 | 5 |
| Too little law enforcement | 1 | 2 | 3 | 4 | 5 |
| Too much law enforcement | 1 | 2 | 3 | 4 | 5 |
| Closure of snowmobile trails / riding areas | 1 | 2 | 3 | 4 | 5 |
| Irresponsible / dangerous / reckless riding | 1 | 2 | 3 | 4 | 5 |
| Too many people and machines | 1 | 2 | 3 | 4 | 5 |
| Lack of parent supervision of youth riders | 1 | 2 | 3 | 4 | 5 |
| Excessive speed on trails | 1 | 2 | 3 | 4 | 5 |
| Vehicle noise | 1 | 2 | 3 | 4 | 5 |
| Dogs on trails | 1 | 2 | 3 | 4 | 5 |
| ATVs on snowmobile trails | 1 | 2 | 3 | 4 | 5 |
| Cross-country skiers on trails | 1 | 2 | 3 | 4 | 5 |

| 26. | What can be done to impro | ove snowmobile trail o | opportunities in Oregon? Please write your suggesti | on. |
|-----|----------------------------|------------------------|---|-----|
| 27. | Do you currently belong to | o a snowmobile organ | ization or club? Tick one box. | |
| | ☐ Yes | □ No | ☐ Unsure | |

28. For each person in your household who participated in <u>recreational snowmobile riding on public lands in Oregon in the average season</u>, please tick the relevant box for their gender and write their age in years.

| Rider | Gender (tick one) | Current age (write in age) |
|---|-------------------|----------------------------|
| Yourself | ☐ Male ☐ Female | years old |
| 2 nd snowmobile rider in household | ☐ Male ☐ Female | years old |
| 3 rd snowmobile rider in household | ☐ Male ☐ Female | years old |
| 4 th snowmobile rider in household | ☐ Male ☐ Female | years old |
| 5 th snowmobile rider in household | ☐ Male ☐ Female | years old |
| 6 th snowmobile rider in household | ☐ Male ☐ Female | years old |

| 29. What is your household's total <u>annual</u> income before taxes? Include income for all persons that regularly live in your household and all sources of income – salary, pensions, interest or dividends, and all other sources. Tick one box. | | | | |
|--|---|--|---|--|
| | ☐ Less than \$10,000 ☐ \$10,000 to \$14,999 ☐ \$15,000 to \$24,999 | ☐ \$25,000 to \$34,999 ☐ \$35,000 to \$49,999 ☐ \$50,000 to \$74,999 | ☐ \$75,000 to \$99,999 ☐ \$100,000 to \$149,999 ☐ \$150,000 or more | |
| 30. Are you of Spanish / Hispanic / Latino descent? Tick one box. | | | | |
| | ☐ Yes ☐ No | | | |
| 31. | 31. Please select one or more of the following categories that best describes your race. | | | |
| | ☐ Black / African American☐ American Indian or Alaska Native☐ Asian | | an or other Pacific Islander ce | |

Appendix 4. Map of parking areas and regions

