

2012-2013 Oregon State Marine Board Fuel and Recreational Boating Survey: Recreational Procedures and Results

Prepared for:
Oregon State Marine Board

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INTRODUCTION

The Oregon State Marine Board Fuel and Recreational Boating Survey was conducted by the Oregon State University Survey Research Center (OSU-SRC) for the Oregon State Marine Board (OSMB) from fall 2013 through winter 2014. The objectives of the study are two-fold. First, the OSMB uses data collected from this questionnaire to assist in determining an estimate of fuel tax revenue to be appropriated to OSMB boating operations. Second, recreational boaters are asked several questions about their boating experiences: where they boated, what boating activities they participated in, the condition of boating facilities, etc. Information about their experiences is used by OSMB to establish where money is most needed and what services are most important to boaters. The 2012-2013 survey is a combined fuel and recreational use survey for pleasure boats (commercial boaters were asked fuel questions only) whereas in past years, these two studies were conducted independently.

The fuel survey is typically conducted every four years, while the recreational survey is conducted every three years. This report summarizes the recreational part of the survey. A separate report summarizes the questions related to fuel.

SAMPLING

There were two purposes for the survey this year. One was to evaluate usage patterns of recreational boats in Oregon and the other was to summarize fuel use by licensed boats. Usage patterns were required at a county level, which implies the need to use stratification by county. The length of boat was also used as a level of stratification, since there is quite a bit of variability in fuel use between large and small boats. The use of stratification based on boat size in the fuel use is done to improve estimates of variance. Stratification by boat size was done in each of the 36 Oregon counties resulting in 72 strata. The sample sizes for each county within each of the two boat sizes were selected by the OSU-SRC. Each sample size was selected so that county estimates for the recreational survey would have a sampling error no more than +/- 10%, at 95% confidence level. The sample of pleasure boats was selected by the OSMB and delivered electronically to OSU-SRC. A total of 8,859 pleasure boats were selected for the survey sample.

SURVEY METHODOLOGY

Pleasure Boats

A self-administered survey was conducted from November 2013 through February 2014 to capture recreational boating activities that occurred between November 1, 2012 and October 31, 2013.

The 2012-13 combined fuel and recreational study was broken into three treatment groups and are identified as All Mail, Web+Mail_No_URL, and Web+Mail_With_URL. Refer to Table 1 for pleasure survey treatment group sample sizes. Different data collection methods were applied to the treatment groups to determine whether the use of the Web to collect the survey data is cost efficient for future surveys of registered marine boats.

Table 1: Sample Sizes of Pleasure Survey Treatment Groups

Boat Type	Sample
Pleasure All Mail	n = 4,434
Pleasure WebMail_No_URL	n = 2,214
Pleasure WebMail_With_URL	n = 2,211
Total	n = 8,859

The All Mail group received only paper copies of the questionnaire and was contacted 4 times: prenotification on OSMB letterhead (which introduced the upcoming survey to the respondent), first survey mailing (a cover letter, questionnaire and return envelope), postcard reminder, and a follow-up survey mailing to non-respondents (a cover letter, questionnaire and return envelope).

The two Web+Mail groups received 5 contacts. The only difference between the Web+Mail_No_URL and Web+Mail_With_URL groups was the format of the prenotification letter. The prenotification letter sent to the Web+Mail_No_URL group introduced the upcoming study to the respondent and mentioned that the OSU-SRC would be sending the information to complete the study soon in the mail. This is typically the standard approach

listed in the survey methodology research papers. The prenotification letter for the Web+Mail_With_URL group included the survey URL and personal access code giving boat owners in this group the ability to complete the questionnaire online earlier than the Web+Mail_No_URL group. After the prenotification, the Web+Mail groups were sent cover letters containing the survey URL and personal access code asking boat owners to complete the questionnaire online but assuring them that a paper copy of the survey would follow if OSU-SRC did not receive a response. The postcard reminder followed the cover letter mailing by one week and also included the web survey URL and the personal access code. Non-respondents were sent a paper copy of the survey in the fourth contact and a cover letter with URL and access code. In order to provide the Web+Mail group with the same number of opportunities to fill out a paper survey as the All Mail group had (for those that do not have Internet access), a fifth mailing was sent to non-respondents with a replacement paper copy of the survey. This final mailing's cover letter also included the web URL and access code.

Questionnaires in the pleasure boat group were printed with specific boat registration, make and length information. Boat owners were asked to complete the questionnaire based on the boat information provided on the survey. Copies of all treatment group cover letters for the pleasure group are provided in Appendix A-1. A copy of the combined fuel and recreational questionnaire used for the pleasure boats is located in Appendix A-2.

Non-Residents:

A non-resident sample was added to the study in 2013. Non-residents do not have a registered Oregon boat, but can purchase an Aquatic Invasive Species (AIS) permit that allows them to boat in Oregon for any boat they own. The permit holders sampled for the study had purchased an (AIS) permit sometime in 2013. Five hundred AIS permit holders were selected randomly for the non-resident group (however, two duplicates were detected in this sample and eliminated resulting in a sample size of 498).

The non-resident sample was sent a modified version of the fuel/recreational questionnaire. Since the non-residents do not license their watercraft with OSMB, a particular boat could not

be sampled so these respondents were asked to consider the boat they had used most in Oregon when responding to the questions and were asked to provide the length of the boat.

The non-resident sample received the same delivery and data collection treatment as the All Mail group described for the pleasure boats. In all, there were four contacts (prenotification, first mailing, postcard reminder, follow-up mailing) and respondents were asked to complete the survey by paper only.

The mailing schedule for all pleasure treatment groups and non-residents is available below in Table 2.

Copies of cover letters for the pleasure non-resident sample are attached in Appendix B-1. The questionnaire for the non-resident sample is provided in Appendix B-2.

Table 2: Mailing Schedules: Pleasure Survey Treatment Groups and Non-Residents

Group	Prenotification	First OSU-SRC Mailing	Postcard Reminder	Follow-Up OSU-SRC Mailing	2 nd Follow-Up OSU-SRC Mailing
Pleasure All Mail	Wednesday, November 6, 2013	Thursday, November 14, 2013	Wednesday, November 20, 2013	Wednesday, December 4, 2013	N/A
Pleasure WebMail_No_URL	Wednesday, November 6, 2013	Thursday, November 14, 2013	Wednesday, November 20, 2013	Tuesday, December 3, 2013	Friday, December 20, 2013
Pleasure WebMail_With_URL	Wednesday, November 6, 2013	Wednesday, November 13, 2013	Wednesday, November 20, 2013	Tuesday, December 3, 2013	Friday, December 20, 2013
Non-Residents	Wednesday, November 6, 2013	Tuesday, November 12, 2013	Tuesday, November 19, 2013	Tuesday, December 3, 2013	N/A

RESULTS: Response Rates Pleasure Boats and Non-Resident Pleasure Boats:

OSU-SRC adopted the American Association for Public Opinion (AAPOR) response rate standards in 2011. Return dispositions and calculation of adjusted response rates for the 2013 study are therefore slightly different than those for the former fuel and recreational surveys of 2009 and 2010 in that completed and partially completed data records are determined and

coded separately in the return disposition tables and eligible and ineligible sampling units are coded differently. A description of all return dispositions essential to this study is found below in Table 3.

The formula used to calculate the AAPOR adjusted response rates (RR4) for all surveys in this study is the following:

$$RR4 = \frac{(I + P)}{(I + P) + (R + NC + O) + e(UH + UO)}$$

Where (I + P) = the number of complete and partially completed records, (R + NC + O) = the number of non-completed sampling units, (UH + UO) = the number of unknown eligibility sampling units, and e represents the estimated proportion of sampling units of unknown eligibility that are actually eligible¹.

Table 3: AAPOR Return Disposition Labels and Definitions

Disposition Label	Definition	Eligibility
Complete paper (I)	> 80% - 100% of applicable questions answered	Eligible
Partial paper (P)	50% - 80% of applicable questions answered	Eligible
Complete web (I)	> 80% - 100% of applicable questions answered	Eligible
Partial web (P)	50% - 80% of applicable questions answered	Eligible
Refusal/Break-off (R)	Less than 50% of applicable questions answered	Eligible
Respondent unavailable (O)	Respondent cannot be reached/away on long term trip	Eligible
Undeliverable (UH + UO)	Returned as undeliverable	Unknown
Deceased	Primary boat owner deceased	Not eligible
No longer Oregon resident	Primary boat owner has moved out of Oregon before eligibility status date	Not eligible
Commercial boat	Respondent answered questionnaire for commercial boat	Not eligible
Wrong boat (O)	Respondent answered questionnaire for a boat other than one sampled	Eligible
Sold boat (O)	Respondent indicated sample boat was sold	Eligible
Duplicate within sample	Duplicate sample unit within same sample group	Not eligible
Duplicate across samples	Duplicate sample unit across different sample groups	Not eligible
Not returned (NC)	Nothing known, not returned	Unknown

¹ e based on proportional allocation technique (ratio of eligible to non-eligible among known cases applies to unknown cases)

Of the 8,859 pleasure boats selected for the study, a total of 4,223 (47.7%) were returned and completed (Table 4). These are slightly different than the fuel response rates available in the separate report. Due to the time frame requested to complete the fuel survey estimates, the fuel data was summarized earlier. The recreational results reflect response rates including an additional two weeks of data collection. This explains the slight difference in response rates between the fuel and recreational results as an additional 42 completed surveys were included in this recreational analysis. Return disposition status may have shifted or increased due to the extra time allowed for data collection as well. Cases of other known eligibility include implicit refusals and break-offs (n=107) and cases where the respondent was either unavailable (n=3) or an indication of a sold boat (n=28) or wrong boat (n=3) was reported to OSU-SRC. Cases of unknown eligibility include undeliverables (n=318) and not returned (n=4161). The pleasure group had an AAPOR4 adjusted response rate of RR4=47.8%.

As a comparison, if response rates were determined using the former method in 2010, the overall adjusted response rate is 49.7% for pleasure boats, where:

$$\mathbf{2010ARR} = \frac{\mathbf{(I + P)}}{\mathbf{(I + P) + (R + NC)}}$$

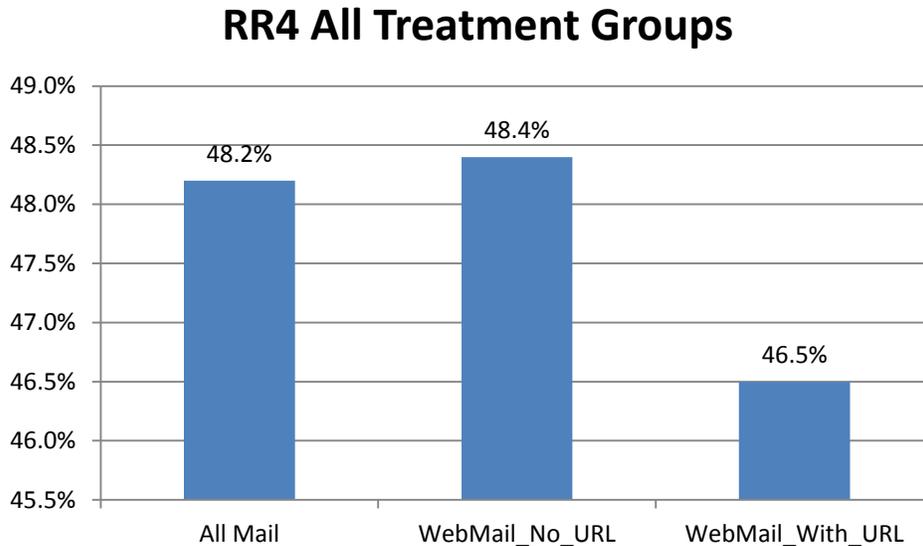
The difference in adjusted response rates using RR₄ and the 2010 method is whether a sampling unit is coded as eligible or ineligible. Overall, the 2010 method allowed for more sampling units to be coded as ineligible resulting in a lower denominator and thus a higher adjusted response rate.

Table 4: Recreational Return Dispositions: 2012 - 2013 Oregon Fuel and Recreational Boating Questionnaire, both boat lengths

Return Disposition	Frequency	Percent (%)
Completed Paper	3431	38.7
Partial Paper	0	0.0
Completed Web	792	8.9
Partial Web	0	0.0
Refusal/Break-off	107	1.2
Undeliverable	318	3.6
Deceased	10	0.1
No longer Oregon resident	1	0.0
Respondent unavailable	3	0.0
Commercial boat	5	0.1
Wrong boat	3	0.0
Sold boat	28	0.3
Duplicate within sample	0	0.0
Duplicate across samples	0	0.0
Not returned	4161	47.0
Total	8859	100

Figures 1, 2, and 3 and Table 5 illustrate response rates for the different survey modes employed for pleasure boats in this study. Overall, the group with the highest adjusted response rate was the Web+Mail_No_URL (48.4%) however; the All Mail group response rate was almost the same at 48.2%. The group receiving the lowest adjusted response rate was Web+Mail_With_URL at 46.5%.

Figure 1: Adjusted response rates (RR₄) per survey treatment group



Of the two survey treatment groups that allowed online data collection, Web+Mail_No_URL and Web+Mail_With_URL, there was no difference in the number of web responses (396 for both) despite the extra effort to allow respondents to answer the questionnaire online via the prenotification letter.

Figure 2 represents unadjusted response rates belonging to each data collection mode i.e., the number of completed and partial completed divided by the sample size. This shows that the percent of web responses is the same in the two treatment groups (i.e., the additional nudge to go to the Web did not generate more Web responses).

Figure 2: Unadjusted response rate per data collection mode for each treatment group

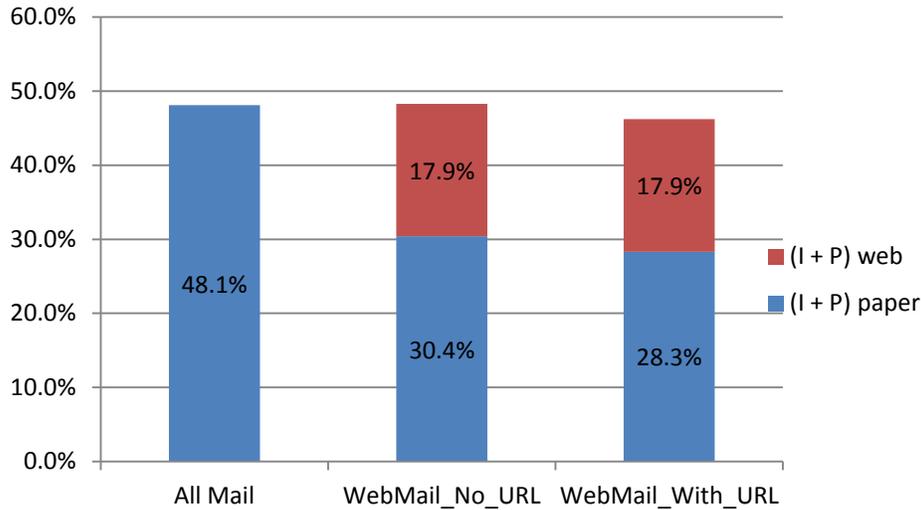


Figure 3 shows the percent of total response that belongs to web and paper modes of data collection. Out of the total number of completed or partially completed questionnaires for the WebMail_NO_URL group, 37.0% came from the web and 63.0% came from paper. For the WebMail_With_URL group, 38.7% came from the web and 61.3% came from paper. Comparison of figures 2 and 3 point out that there are different ways to interpret response by mode. The unadjusted response rate per mode (figure 2) shows the same percent for web for the WebMail_NO_URL and WebMail_With_URL groups. However, the percent of total response (figure 3) for web under the WebMail_With_URL group is higher because the proportion of total response for web ($396/1022$) is higher in this group than the proportion of total response for web ($396/1069$) in the WebMail_NO_URL group.

Figure 3: Percent of total response per data collection mode for each treatment group

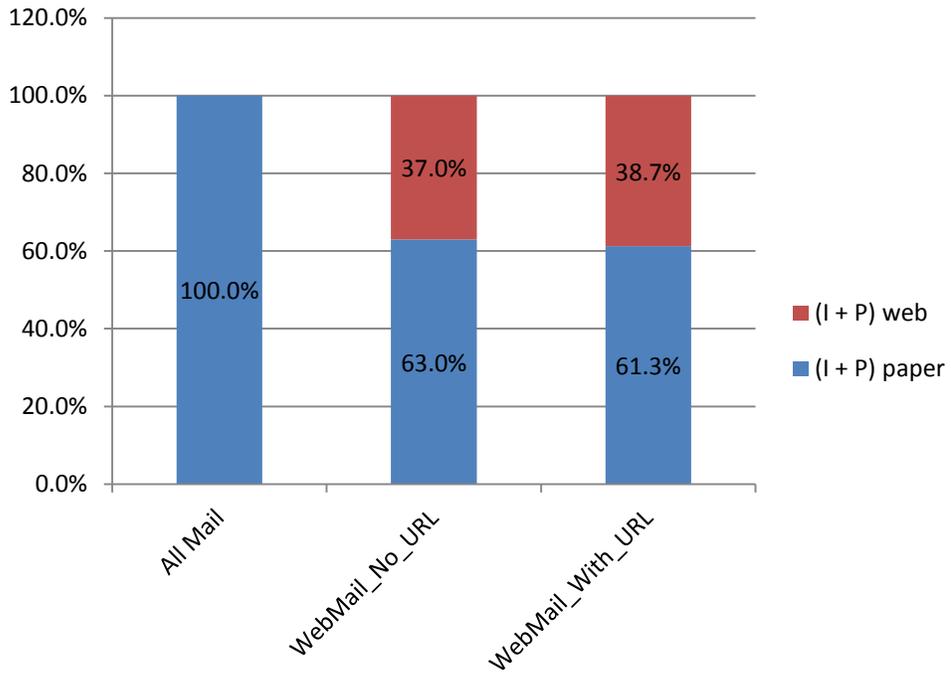


Table 5: Return Dispositions: 2012 - 2013 OSMB Oregon Motorboat Fuel Use Pleasure Boats Survey, by treatment group

Mailing group	Sample size	Total complete	Refusal/Break-off	Undeliverable	Respondent unavailable	Deceased	No longer OR resident	Commercial boat	Wrong boat	Sold boat	Not returned	Response Rate %	Adjusted Response Rate ARR ₄ %
All Mail	4434	2132	55	148	2	4	0	3	2	11	2077	48.1	48.2
Web Mail_No_URL	2214	1069	29	79	0	1	1	1	1	9	1024	48.3	48.4
Web Mail_With_URL	2211	1022	23	91	1	5	0	1	0	8	1060	46.2	46.5
Total	8859	4223	107	318	3	10	1	5	3	28	4161	47.7	47.8

Non-residents:

The non-residents group returned 239 completed and partially completed surveys combined and had an adjusted response rate of 48.2% (Table 6).

Table 6: Return Dispositions: 2012 - 2013 OSMB Oregon Motorboat Fuel Use Non-resident Survey

Return Disposition	Frequency	Percent (%)
Completed Paper	239	47.8
Refusal/Break-off	2	0.4
Undeliverable	38	7.6
Duplicate within sample	1	0.2
Duplicate across samples	1	0.2
Not returned	219	43.8
Total	500	100

RESULTS: Descriptive Statistics

Analyses based on the OSMB list of survey questions for pleasure and non-resident pleasure boats follow. Codebooks used to interpret the data files (which include variable names, question labels, response labels, and response codes) are available in Appendix C-1 and C-2 for pleasure and non-resident pleasure questionnaires respectively.

Pleasure Boats:

Forty-eight percent of the survey sample responded to the survey. All survey recipients were asked to answer questions referring to the boat license indicated on the top of their survey.

As with previous statewide pleasure boat recreational surveys, the number of waterbodies the boat was used on in a 12-month period was reported. Of those boats that had been used, the name of up to four waterbodies where the boat had been used in Oregon was indicated in Question 9. Table 7 is a breakdown of the number of waterbodies used based on Question 9.

Table 7: Recreational Survey, Number and percent of waterbodies used by respondents

BOAT USAGE	N	PERCENT (%)
Did not boat	1330	31.0
No response	27	1.0
Boated	2866	68.0
Total	4223	100.0
NUMBER OF WATERBODIES USED	N	PERCENT (%)
Boated one body	1576	55.0
Boated two bodies	665	23.2
Boated three bodies	324	11.3
Boated four bodies	198	6.9
Boated “other” bodies	103	3.6
Total	2866	100.0

Weighted frequency results for each closed ended question of the pleasure boat questionnaire were sent separately from this report as electronic files to OSMB.

Various statistics are provided depending on what was requested by the OSMB. For example, in Question 7, the mean, standard error of the mean and 95% confidence interval of the mean are provided. In addition, the sum, standard deviation and 95% confidence interval are also provided. The median (i.e., the 50% percentile) is also provided along with the standard error and 95% confidence interval. The 95% confidence interval implies that the probability is 95 chances in 100 that the interval from (the lower 95% number provided) to (upper 95% number provided) contains the true but unknown estimate. (The true actual value is unknown since we didn’t survey all pleasure motorized boats registered in Oregon.)

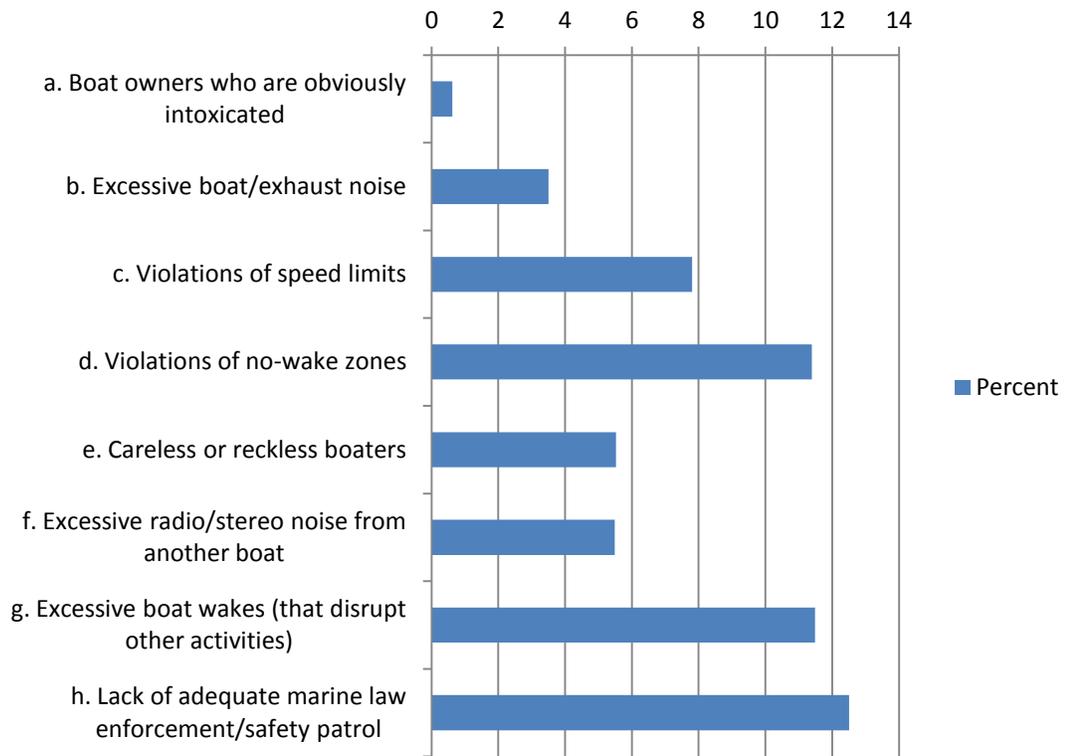
Details from survey respondents on frequency of boat use, most used waterbodies, and frequency of use for types of activities were recorded in Questions 6 and 9. Question 6 asked whether the specified boat had been used at all from November 1, 2012 through October 31, 2013. Seventy percent of completed questionnaires indicated the boat had been used during this time frame, 29% stated they had not used their boat and 1% did not respond to question 6. Of those boats used in Oregon, question 9 asked the respondent to list up to four waterbodies the boat has been used on, the number of days used at each

waterbody, and the number of days the boat was used for various activities at the waterbody. The mean number of total boat use days in Oregon was 19.3. The mean number of total activity days for all activities was 18.2. Fishing/crabbing was the most popular activity with a mean number of activity days at 11.9 whereas hunting and jet-skiing had the lowest mean number of activity days with .2 and .4 respectively. The mean number of activity days for waterskiing/watersports and cruising/sailing was 2.4 and 3.3 respectively.

Question 10 is a new question that asked for the number of children and adults that are in the boat on a typical day of boating. The mean number of children in a boat on a typical day is .89 and the mean number of adults is 2.5.

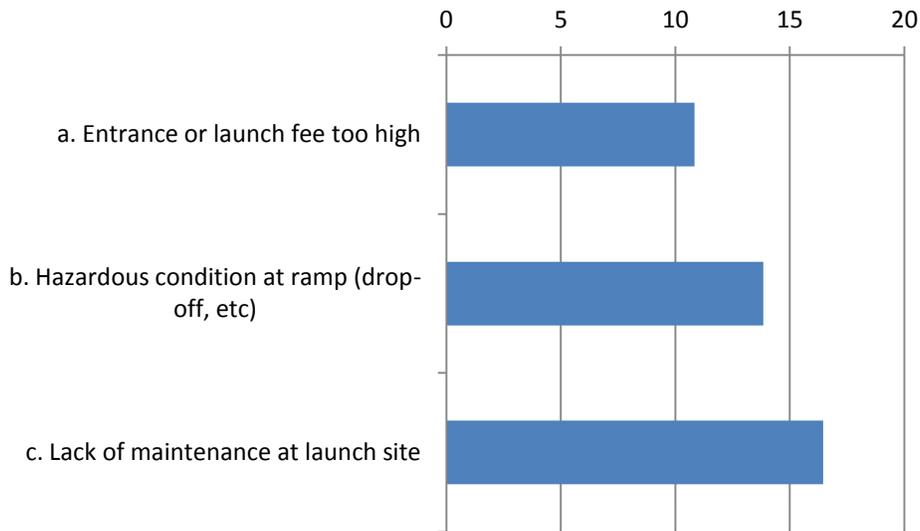
Question 11 asked how often the operator had experienced specific boating law enforcement problems or conditions at the waterbody most used. Combining the frequency of a reported problem for the categories “most trips” and “all trips”, “h. Lack of adequate marine law enforcement/safety patrol” had the highest percent of occurrence whereas “a. Boat owners who are obviously intoxicated” had the lowest percent of occurrence. Figure 4 summarizes the percent of boat owners experiencing a problem on either all or most trips.

Figure 4: Percent experiencing law enforcement problem or condition during all or most trips (Question 11)



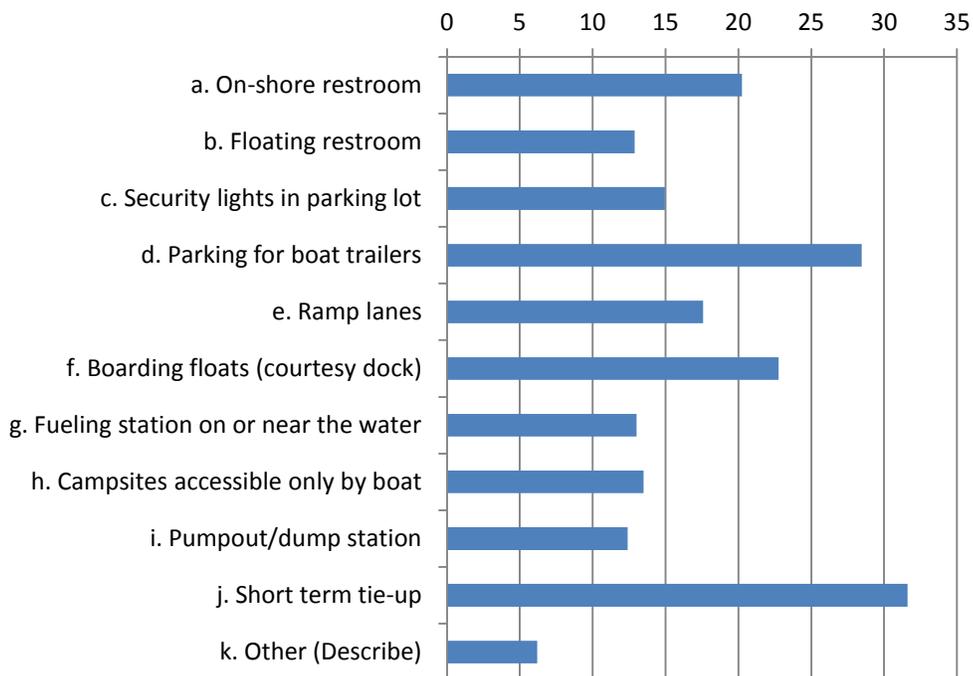
Boat operators were asked whether or not they had experienced certain boating facilities problems or conditions for their most used waterbody during the specified time frame (Question 12). Lack of maintenance at launch site was the most reported problem with 16% of respondents indicating this issue. See Figure 5 for the percent of respondents indicating they had experienced each problem.

Figure 5: Percent experiencing boating facility problem at most used waterbody (Question 12)



Boaters were asked to indicate whether or not additional boating facilities are needed at their most used waterbody (Question 13). Short term tie-up and parking for boat trailers indicated as being needed by 32% and 28% of respondents respectively (Figure 6). The least desired facility was pump-out dump stations (12.4%).

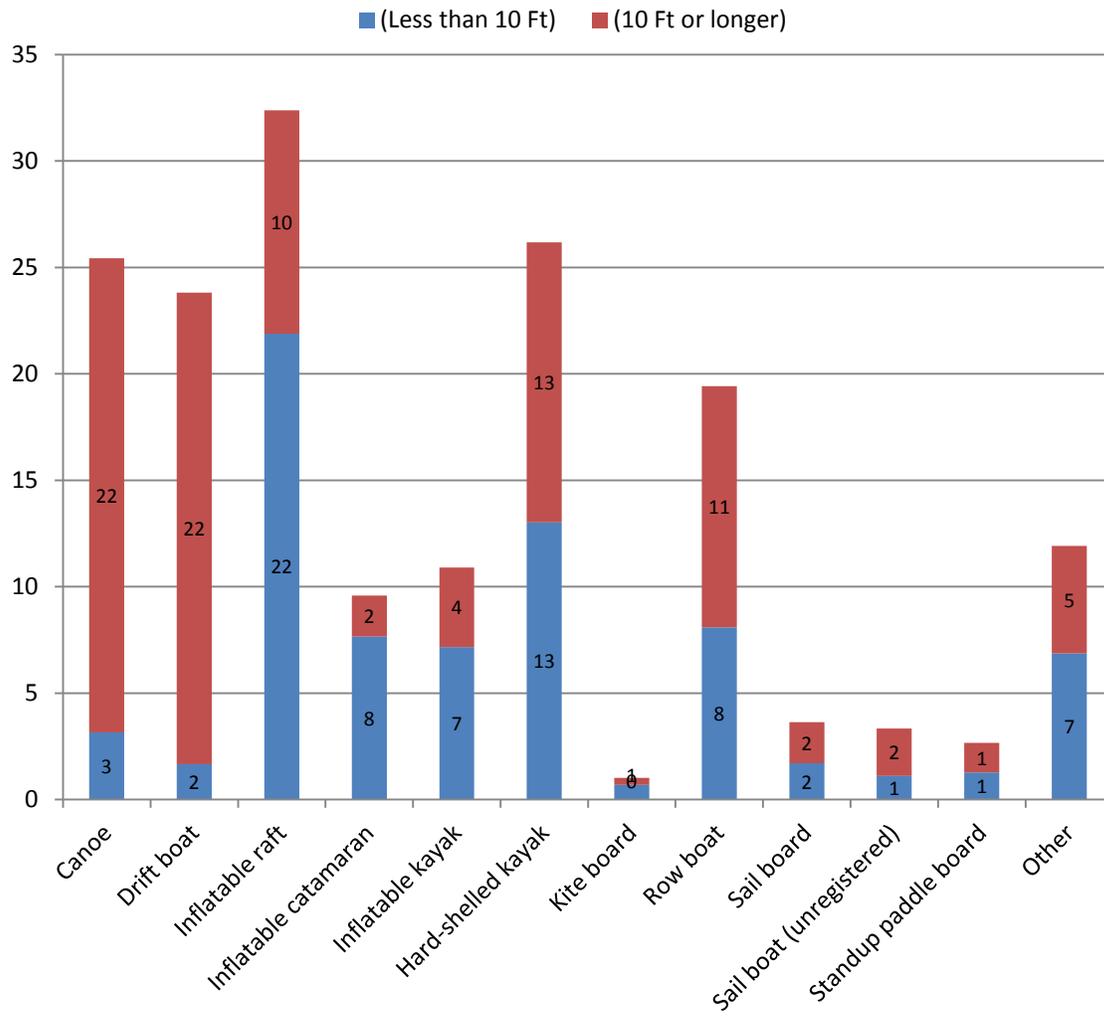
Figure 6: Percent reporting additional facility is needed at most used waterbody (Question 13)



Approximately 31% of survey respondents were approached by a marine law safety patrol at their most used waterbody from November 1, 2012 to October 31, 2013 (Question 14). Eighty-eight percent of those stopped had their boat equipment or hull identification inspected. Only 4% of the inspections resulted in a warning, citation, or arrest and 5% received assistance from the patrol. Slightly more encounters (59%) of the marine patrol encounters occurred at the ramp or on land than on the water (56%).

Question 15 asked if the boat owner owned any other water craft besides the one indicated at the top of their survey. Forty-two percent indicated they owned one or more additional water craft. Question 15 was asked in 2010 however the question was modified in 2013 to ask for quantity of craft owned by size/length. Of the various watercraft listed in question 15a, the type of boat selected as the most common boat owned by registered boaters (32%) is the inflatable raft (Figure 7).

Figure 7: Percent of registered boat owners that own each of the following boats.



Non-Resident Pleasure Boats:

Weighted frequency results for each closed ended question of the non-resident pleasure boat questionnaire were sent separately from this report as electronic files to OSMB.

Forty-eight percent of the non-resident survey sample responded to the survey. Contrary to the pleasure boat questionnaire, non-residents are not required to register their motorboats in Oregon but instead purchase an AIS permit that allows them to captain any boat in Oregon waters. This difference in OSMB records necessitated a slightly modified version of the questionnaire for non-residents. Instead of a boat registration number printed at the top of the questionnaire for reference, the AIS permit number and location and time of purchase was available on the questionnaire. The respondent was asked to think about this permit number and whether a boat was used in Oregon using the specified AIS permit number (question 1). If more than one boat was used under the AIS permit, the respondent was asked to think about the boat he/she had used most in Oregon when answering the remaining survey questions. The length of the boat used most often was asked in question 2.

As with previous statewide pleasure boat recreational surveys, the number of waterbodies the most used boat was used on in a 12-month period was reported. Of those boats that had been used, the name of up to four waterbodies where the boat had been used in Oregon was indicated in Question 10. Table 8 is a breakdown of the number of waterbodies used based on Question 10.

Table 8: Non-resident Recreational Survey, Number and percent of waterbodies used by respondents

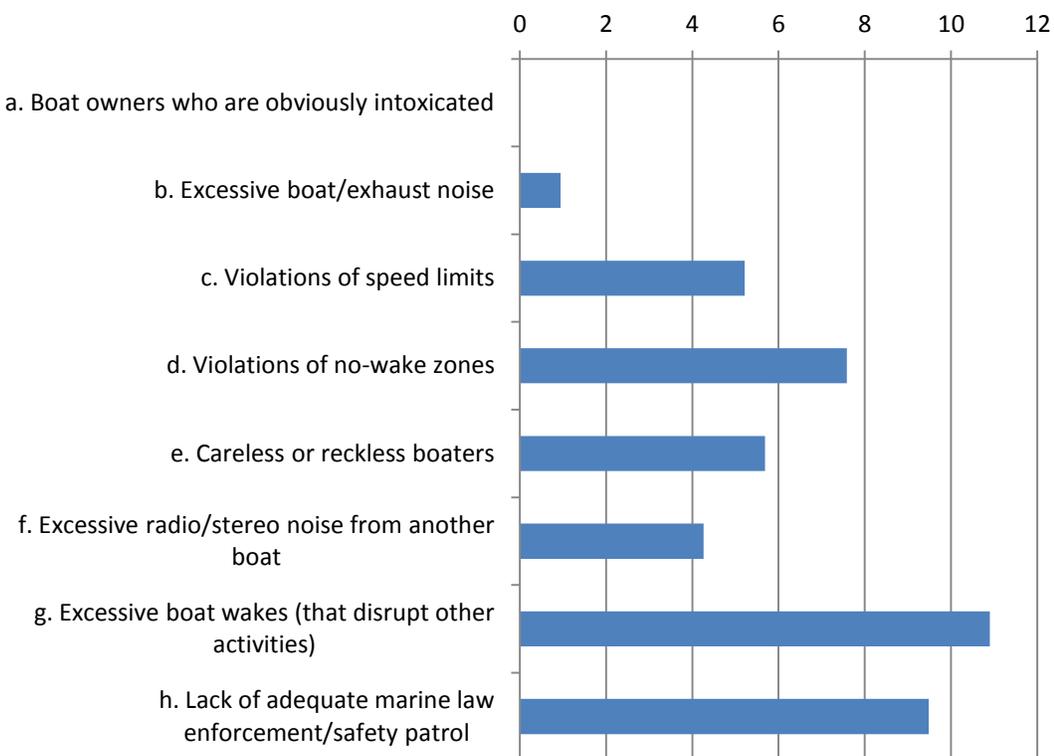
BOAT USAGE	N	PERCENT (%)
Did not boat	28	11.7
No response	0	0.0
Boated	211	88.3
Total	239	100.0
WATERBODIES USED	N	PERCENT (%)
Boated one body	133	63.0
Boated two bodies	48	22.7
Boated three bodies	15	7.1
Boated four bodies	11	5.2
Boated “other” bodies	4	1.9
Total	211	100.0

Details from survey respondents on frequency of boat use, most used waterbodies, and frequency of use for types of activities were recorded in Questions 1 and 10. According to question 1, 88% of non-resident respondents used their AIS permit to boat in Oregon from November 1, 2012 through October 31, 2013 and 12% stated they had not used a boat in Oregon at all. Of those cases where a boat was used in Oregon, question 10 asked the respondent to list up to four waterbodies the boat has been used on, the number of days used at each waterbody, and the number of days the boat was used for various activities at the waterbody. The mean number of total boat use days in Oregon was 10.3. The mean number of total activity days for all activities was 10.1. Fishing/crabbing was the most popular activity with a mean number of activity days at 8.6 whereas jet-skiing had the lowest mean number of activity days at .07. The mean number of activity days for hunting, waterskiing/watersports, and cruising/sailing was .3, .4, and .6 respectively.

Question 11 is a new question that asked for the number of children and adults that are in the boat on a typical day of boating. The mean number of children in a boat on a typical day is .59 and the mean number of adults is 2.5 for non-resident boaters.

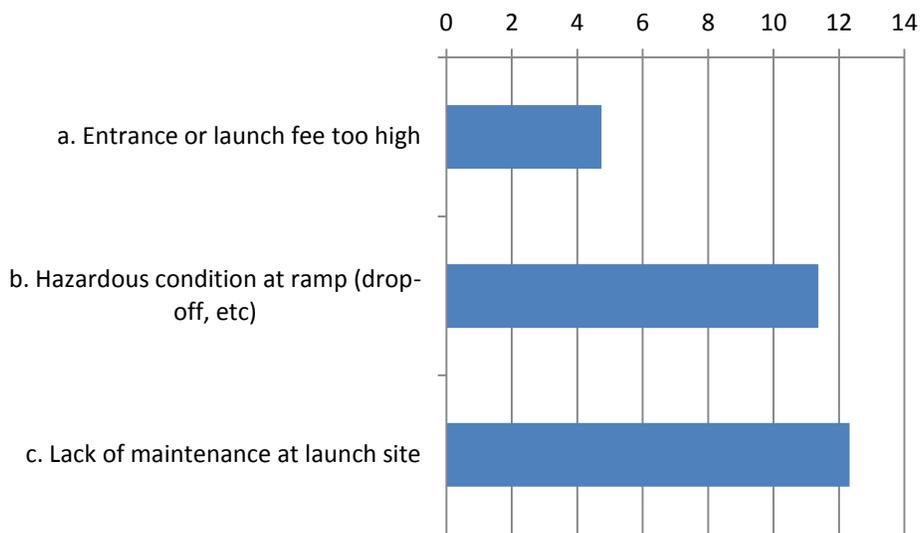
Question 12 asked how often the operator had experienced specific boating law enforcement problems or conditions at the waterbody most used. Combining the frequency of a reported problem for the categories “most trips” and “all trips”, “g. Excessive boat wakes (that disrupt other activities)” had the highest percent of occurrence whereas “a. Boat owners who are obviously intoxicated” had the lowest percent of occurrence (Figure 8).

Figure 8: Percent of non-residents experiencing law enforcement problem or condition during all or most trips (Question 12)



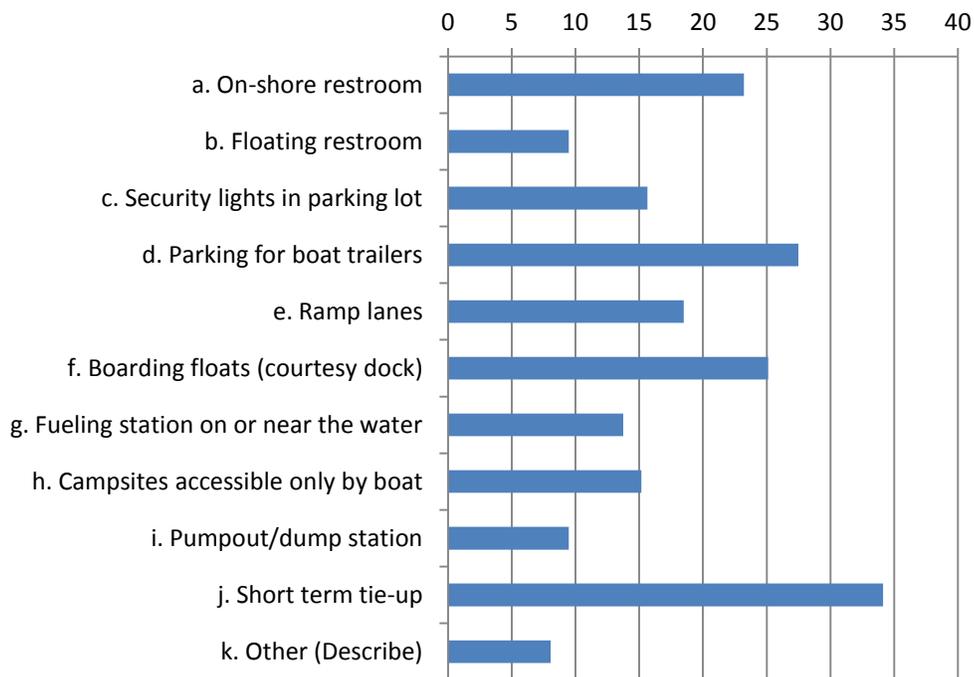
Non-resident boat operators were asked whether or not they had experienced certain boating facilities problems or conditions for their most used waterbody during the specified time frame (Question 13). Lack of maintenance at launch site was the most reported problem with 12% of respondents indicating this issue (Figure 9).

Figure 9: Percent of non-residents experiencing boating facility problem at most used waterbody (Question 13)



Boaters were asked to indicate whether or not additional boating facilities are needed at their most used waterbody (Question 14). Short term tie-up and parking for boat trailers indicated as being needed by 34% and 28% of respondents respectively (Figure 10). The least desired facilities were pump-out dump stations (9.5%) and floating restrooms (9.5%).

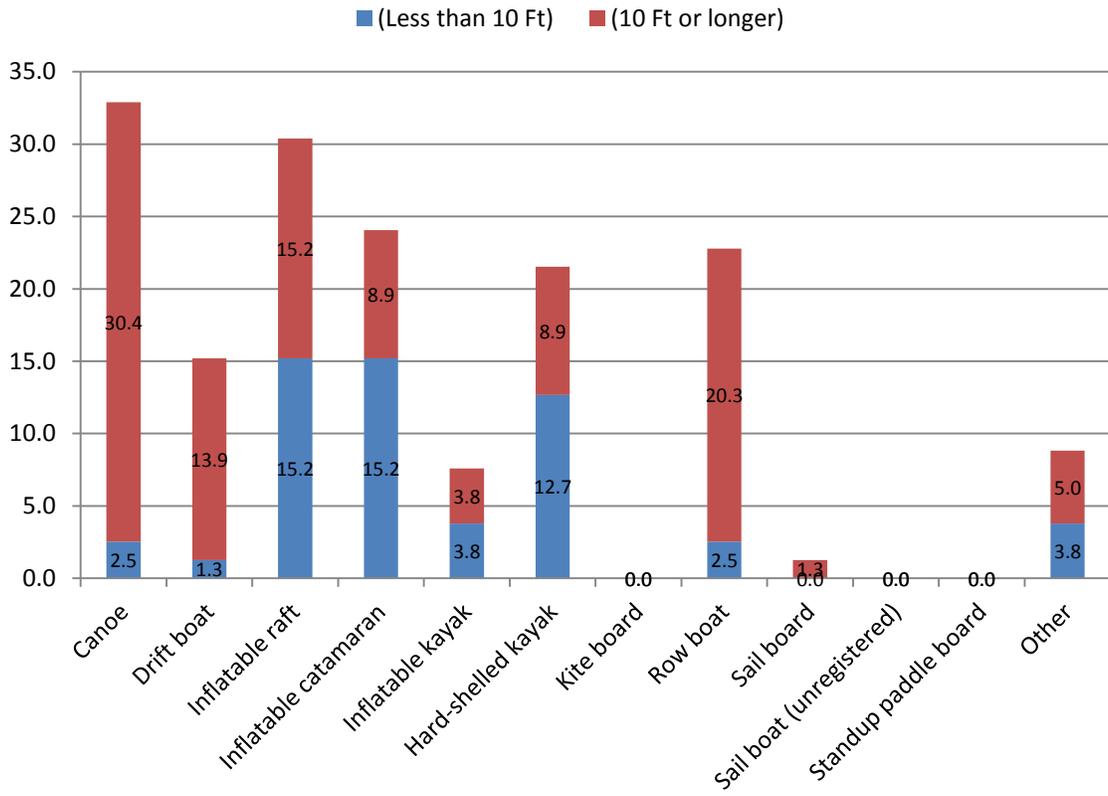
Figure 10: Percent of non-residents reporting additional facility is needed at most used waterbody (Question 14)



Approximately 40% of non-resident survey respondents were approached by a marine law safety patrol at their most used waterbody from November 1, 2012 to October 31, 2013 (Question 14). Seventy-nine percent of those stopped had their boat equipment or hull identification inspected and 11% of the inspections resulted in a warning, citation, or arrest. About 6% received assistance from the patrol. More encounters (58%) of the marine patrol encounters occurred on the water than at the ramp or on land (52%).

Question 16 asked if the boat owner owns any non-motorized watercraft. Thirty-three percent indicated they own one or more additional non-motorized watercraft. Question 16 was asked before in 2010 however the question was modified in 2013 to ask for quantity of craft owned by size/length. Of the various watercraft listed in question 16a, the type of boat selected as the most common boat owned by non-residents (33%) is the canoe (Figure 11).

Figure 11: Percent of non-residents that own each of the following boats.



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Appendix A-1: Cover letters for Pleasure Samples All Mail, WebMail No URL, and WebMail with URL



Oregon

John A. Kitzhaber, MD, Governor

State Marine Board

435 Commercial Street, Suite 4400

PO Box 14145

Salem, OR 97309-5065

(503) 378-5587

Fax (503) 378-4597



November 6, 2013

Dear Oregon Boat Owner:

I hope you had a safe and enjoyable summer. While many of us are winding down from a busy boating season, others are gearing up for fall and winter angling. Oregon has a lot to offer boaters and I encourage you to take advantage of the many boating opportunities available.

The Marine Board is funded by boaters to serve boaters. We do this by partnering with cities, counties, ports, and state and federal agencies to improve boating access and provide safety services to the boaters of Oregon. Every three years we survey the boaters to find out how we are doing by asking boaters like you about your experiences, opinions, and needs.

Furthermore, by law, the Marine Board is responsible for estimating how much fuel was purchased in Oregon and used for boating between November 1, 2012 and October 31, 2013. The results from this survey help us calculate the percentage of fuel tax revenues that will be transferred to the Marine Board over the next few years to pay for various boating programs and services.

In the next week, you will receive a letter in the mail from the **Oregon State University (OSU) Survey Research Center** asking you to complete an important questionnaire. Oregon Revised Statute 830.115 requires us to conduct this questionnaire from a random selection of registered boaters. Your feedback helps us monitor and improve the quality of boating facilities and safety services statewide.

I am writing in advance to tell you about this important project and encourage you to participate.

When you receive your letter from the Survey Research Center by mail, I would greatly appreciate it if you would complete the questionnaire to the best of your ability and return it as soon as possible to OSU. Results from past surveys are available online at www.boatoregon.com located under Performance Measures on the agency's home page left-menu.

Remember, every response helps us better understand boaters' needs and allows us to improve our services to you. If you have questions about the purpose of this study, please call Rachel Bullene, Policy Analyst at 503-378-2838. Thank you for your assistance.

Sincerely,

Scott Brewen

Oregon State Marine Board





Survey Research Center
Oregon State University, 44 Kidder Hall, Corvallis, Oregon 97331-4606
T 541-737-3584 | F 541-737-3489 | <http://oregonstate.edu/dept/statistics/src/>

Dear Oregon Boat Owner:

November 12, 2013

I am writing to ask for your help in understanding how the Oregon State Marine Board (OSMB) can provide you with improved boating facilities and safety services. In order to manage services, OSMB needs to find out, from boaters like you, about your recent boating experiences.

In addition, Oregon, by law, is required to estimate the amount of fuel purchased in Oregon for use in motorboats in order to calculate the amount of money given to the OSMB for boating operations such as facility maintenance, enforcement, safety, and program improvement. In the past, OSMB has conducted these recreational and fuel questionnaires separately, but in an effort to save money, we have combined the questionnaires into one. Enclosed is the questionnaire.

A boat registered in your name and identified by the registration number on the top of the enclosed questionnaire was randomly selected to be included in this survey. To ensure accuracy, it is important that the questionnaire be completed for this boat only.

Please include fuel used in the primary and auxiliary engines of the selected boat. Even if the boat indicated on the questionnaire is non-motorized, you no longer own it, or it was not used during this time period, please complete the survey and return it to us. This information is very important for us to know. If you have any questions or comments about the purpose of this study, contact Rachel Bullene of the OSMB at (503-378-2836, rachel.e.bullene@state.or.us). If you have questions about returning your questionnaire or if you would like us to remove you from further contacts regarding this study, please email Lydia Newton at newton@science.oregonstate.edu or call 541-737-1993.

Participating in this research survey is voluntary and you may skip any question you choose not to answer. Your questionnaire is numbered so we can remove your name from our mailing list once your questionnaire has been returned. This research will also examine survey methods and response rates. There are no direct risks or benefits to you from being in this study. Only the overall results will be reported and we will keep your answers confidential to the best of our ability. If you have questions about your rights as a research participant, please contact the Oregon State University Institutional Review Board Coordinator at 541-737-8008 or by email at IRB@oregonstate.edu.

Thank you for your help in improving boating experiences in Oregon.

Sincerely,

V.M. Lesser
Director, Oregon State University Survey Research Center
T: 541-737-3584; Email: lesser@science.oregonstate.edu

Last week, you should have received a letter from us asking you to complete a questionnaire asking about how your boat was used in the last year and how much fuel was purchased in Oregon for the boat.

If you have already completed the Oregon Fuel and Recreational Boating questionnaire, please accept our thanks. If you have not completed the research questionnaire and returned it, please do so. It is very important to hear from you so that we can provide useful information on the Oregon State Marine Board Fuel and Recreational Survey to the Oregon State Marine Board, which manages boating facilities and services for Oregon.

Sincerely,

A handwritten signature in cursive script that reads "V.M. Lesser".

V.M. Lesser
Director, OSU Survey Research Center



Dear Oregon Boat Owner:

December 3, 2013

In early November we sent you a letter that asked you to complete a questionnaire about your boating experiences and the amount of fuel you purchased for boating in the past year. We are collecting this valuable information for the Oregon State Marine Board (OSMB) so that we can estimate how much fuel tax revenue should go into the Marine Board motorboat fund. The funds help OSMB manage boating operations including the improvement, maintenance, and safety of motorboat facilities.

To the best of our knowledge, we have not yet received your completed questionnaire.

If you have already responded, we would like to thank you. However, in case you did not receive the original questionnaire or it has been misplaced, enclosed is another questionnaire and postage-paid envelope.

Please make sure to include primary and auxiliary engine fuel on the survey and to answer the questions based on the boat that is identified at the top of the survey. Even if the boat indicated on the questionnaire is non-motorized, you no longer own it, or it was not used during this time period, please complete the survey and return it to us.

If you have any questions or comments about the [purpose of this study](#), contact [Rachel Bullene](#) of the OSMB at (503-378-2836, rachel.e.bullene@state.or.us). If you have questions about [returning your questionnaire or if you would like us to remove you from further contacts](#) regarding this study, please email Lydia Newton at newton@science.oregonstate.edu or call 541-737-1993.

Participating in this research survey is voluntary and you may skip any question you choose not to answer. Your questionnaire is numbered so we can remove your name from our mailing list once your questionnaire has been returned. This research will also examine survey methods and response rates. There are no direct risks or benefits to you from being in this study. Only the overall results will be reported, and we will keep your answers confidential to the best of our ability. If you have questions about your rights as a research participant, please contact the Oregon State University Institutional Review Board Coordinator at 541-737-8008 or by email at IRB@oregonstate.edu.

Thank you for your assistance.

Sincerely,

V.M. Lesser
Director- Oregon State University Survey Research Center, lesser@science.oregonstate.edu



Dear Oregon Boat Owner:

November 12, 2013

I am writing to ask for your help in understanding how the Oregon State Marine Board (OSMB) can provide you with improved boating facilities and safety services. In order to manage services, OSMB needs to find out, from boaters like you, about your recent boating experiences. In addition, Oregon, by law, is required to estimate the amount of fuel purchased in Oregon for use in motorboats in order to calculate the amount of money given to the OSMB for boating operations such as facility maintenance, enforcement, safety, and program improvement.

In the past, OSMB has conducted these recreational and fuel questionnaires separately, but in an effort to save money, we have combined the questionnaires and made it available online. A boat registered in your name and identified by the registration number on the top of the enclosed questionnaire was randomly selected to be included in this survey. To ensure accuracy, it is important that the questionnaire be completed for this boat only.

Please include fuel used in the primary and auxiliary engines of the selected boat. Even if the boat indicated on the questionnaire is non-motorized, you no longer own it, or it was not used during this time period, please complete the survey and return it to us. This information is very important for us to know.

We are hoping you can answer the “*Oregon Fuel and Recreational Boating Questionnaire*” on the Internet. To respond over the Internet is easy; just go to the address bar in your web browser window and type the address. When prompted, enter your personal access code.

<http://myopinion.oregonstate.edu/oregonboating>

Your access code: XXXX

Note that searching for the site through a search engine like Google or Yahoo will not take you to the survey. We realize that some households do not have Internet access. We will send a paper version of the questionnaire for you to fill out and mail back to us if we do not receive an Internet response in the next 14 days.

If you have any questions or comments about the purpose of this study, contact Rachel Bullene of the OSMB at (503-378-2836, rachel.e.bullene@state.or.us). If you have questions about returning your questionnaire or if you would like us to remove you from further contacts regarding this study, please email Lydia Newton at newton@science.oregonstate.edu or call 541-737-1993.

Participating in this research survey is voluntary and you may skip any question you choose not to answer. Your questionnaire is numbered so we can remove your name from our mailing list once your questionnaire has been returned. This research will also examine survey methods and response rates. There are no direct risks or benefits to you from being in this study. Only the overall results will be reported and we will keep your answers confidential to the best of our ability. If you have questions about your rights as a research participant, please contact the Oregon State University Institutional Review Board Coordinator at 541-737-8008 or by email at IRB@oregonstate.edu.

Thank you for your help in improving boating experiences in Oregon.

Sincerely,

V.M. Lesser, Director
T: 541-737-3584; Email: lesser@science.oregonstate.edu



Survey Research Center
Oregon State University, 44 Kidder Hall, Corvallis, Oregon 97331-4606
T 541-737-3584 | F 541-737-3489 | <http://oregonstate.edu/dept/statistics/src/>

Last week, you should have received a letter from us asking you to complete a questionnaire asking about how your boat was used in the last year and how much fuel was purchased in Oregon for the boat.

If you have already completed the *Oregon Fuel and Recreational Boating Questionnaire*, please accept our thanks. If you have not completed and returned the research questionnaire, please go to **<http://myopinion.oregonstate.edu/oregonboating>** and enter XXXX as your access code to complete the survey. It is very important to hear from you so that we can provide useful information to the Oregon State Marine Board, which manages boating facilities and services for Oregon.

Sincerely,

A handwritten signature in black ink that reads "V.M. Lesser". The signature is written in a cursive style.

V.M. Lesser, Director



Survey Research Center
Oregon State University, 44 Kidder Hall, Corvallis, Oregon 97331-4606
T 541-737-3584 | F 541-737-3489 | <http://oregonstate.edu/dept/statistics/src/>

Dear Oregon Boat Owner:

December 3, 2013

In early November we sent you a letter that asked you to complete a questionnaire about your boating experiences and the amount of fuel you purchased for boating in the past year. We are collecting this valuable information for the Oregon State Marine Board (OSMB) so that we can estimate how much fuel tax revenue should go into the Marine Board motorboat fund. The funds help OSMB manage boating operations including the improvement, maintenance, and safety of motorboat facilities.

To the best of our knowledge, we have not yet received your completed questionnaire. If you have already responded, we would like to thank you. If you have not responded, please do so today. We realize that some individuals cannot or prefer not to respond by the Internet so we have enclosed a paper copy of the questionnaire and a postage-paid return envelope.

Please make sure to include primary and auxiliary engine fuel on the survey and to answer the questions based on the boat that is identified at the top of the survey. Even if the boat indicated on the questionnaire is non-motorized, you no longer own it, or it was not used during this time period, please complete the survey and return it to us.

You can still go to the Internet to complete the survey. Just go to the address bar in your web browser window and type the address. When prompted, enter your personal access code.

<http://myopinion.oregonstate.edu/oregonboating>

Your access code: XXXX

Note that searching for the site through a search engine like Google or Yahoo will not take you to the survey.

If you have any questions or comments about the [purpose of this study](#), contact [Rachel Bullene](#) of the OSMB at (503-378-2836, rachel.e.bullene@state.or.us). If you have questions about [returning your questionnaire](#) or if you would like us [to remove you from further contacts](#) regarding this study, please email Lydia Newton at newton@science.oregonstate.edu or call 541-737-1993.

Participating in this research survey is voluntary and you may skip any question you choose not to answer. Your questionnaire is numbered so we can remove your name from our mailing list once your questionnaire has been returned. This research will also examine survey methods and response rates. There are no direct risks or benefits to you from being in this study. Only the overall results will be reported, and we will keep your answers confidential to the best of our ability. If you have questions about your rights as a research participant, please contact the Oregon State University Institutional Review Board Coordinator at 541-737-8008 or by email at IRB@oregonstate.edu.

Thank you for your assistance.

Sincerely,

V.M. Lesser

Director, Oregon State University Survey Research Center

T: 541-737-3584; lesser@science.oregonstate.edu



Survey Research Center
Oregon State University, 44 Kidder Hall, Corvallis, Oregon 97331-4606
T 541-737-3584 | F 541-737-3489 | <http://oregonstate.edu/dept/statistics/src/>

Dear Oregon Boat Owner:

December 20, 2013

Recently we wrote you about an important study we are conducting for the Oregon State Marine Board (OSMB). The survey is important because, based on the information you provide, we can estimate the amount of fuel purchased in Oregon for use in motorboats in order to calculate the amount of motor fuel tax revenues to be transferred to the Marine Board for boating programs. Your responses also allow OSMB to manage services like improved boating facilities and safety services. The study is drawing to a close and **this is the last contact that will be made.**

A boat registered in your name and identified by the registration number on the top of the enclosed questionnaire was randomly selected to be included in this survey. To ensure accuracy, it is important that the questionnaire be completed for this boat only.

Please include fuel used in the primary and auxiliary engines of the selected boat. Even if the boat indicated on the questionnaire is non-motorized, you no longer own it, or it was not used during this time period, please complete the survey and return it to us. This information is very important for us to know.

The online survey is still open if you would like to respond using the Internet. To respond over the Internet is easy: just go to the address bar in your web browser window and type the web page address. When prompted, enter your personal access code to begin the survey.

<http://myopinion.oregonstate.edu/oregonboating>

Access Code: XXXX.

If you would rather complete the questionnaire by paper, we have enclosed a replacement copy of the questionnaire and a postage-paid envelope for your convenience.

If you have any questions or comments about the purpose of this study, contact Rachel Bullene of the OSMB at (503-378-2836, rachel.e.bullene@state.or.us). If you have questions about returning your questionnaire or if you would like us to remove you from further contacts regarding this study, please email Lydia Newton at newton@science.oregonstate.edu or call 541-737-1993.

Participating in this research survey is voluntary and you may skip any question you choose not to answer. Your questionnaire is numbered so we can remove your name from our mailing list once your questionnaire has been returned. This research will also examine survey methods and response rates. There are no direct risks or benefits to you from being in this study. Only the overall results will be reported, and we will keep your answers confidential to the best of our ability. If you have questions about your rights as a research participant, please contact the Oregon State University Institutional Review Board Coordinator at 541-737-8008 or by email at IRB@oregonstate.edu.

Thank you for your help in improving boating experiences in Oregon.

Sincerely,

V.M. Lesser

Director, Oregon State University Survey Research Center
T: 541-737-3584; Email: lesser@science.oregonstate.edu

*APPENDIX A-2: COPY OF THE COMBINED OREGON FUEL AND RECREATIONAL
BOATING QUESTIONNAIRE FOR PLEASURE BOATS*

OREGON FUEL AND RECREATIONAL BOATING QUESTIONNAIRE

PLEASE COMPLETE THIS QUESTIONNAIRE FOR THE BOAT/JET SKI IDENTIFIED BY THE REGISTRATION NUMBER PRINTED BELOW. (FROM HERE ON, JET SKIS WILL BE REFERRED TO AS BOATS.)

BOAT REGISTRATION NUMBER:

MAKE:

LENGTH:

1. Is this boat equipped with any type of gasoline or diesel powered motor? This includes primary and auxiliary motors using gasoline or diesel. (**Check one box.**)

₁ NO

₂ YES

2. Was this boat new or used when you first bought/received it? (**Check one box.**)

₁ NEW

₂ USED

3. Did you buy/receive this boat before or after November 1, 2012? (**Check one box then follow arrow to next question**)

₁ BEFORE NOVEMBER 1, 2012 → (**After checking your answer, skip to Question 4.**)

₂ AFTER NOVEMBER 1, 2012
↓

3a. If after NOVEMBER 1, 2012, please give the month and year you bought/received this boat.

_____/_____
MONTH YEAR

4. Do you still own this boat? (**Check one box then follow arrow to next question.**)

₁ YES, STILL OWN → (**After checking YES, skip to Question 5**)

₂ NO, DO NOT STILL OWN
↓

4a. If you do not still own this boat, please give the month and year in which you surrendered ownership of this boat.

_____/_____
MONTH YEAR

5. Did you purchase fuel (gasoline or diesel) in Oregon for this boat anytime from November 1, 2012 to October 31, 2013? (**Check one box then follow arrow to next question.**)

₁ NO → (**After checking NO, skip to Question 6 on the next page**)

₂ YES
↓

5a. About how many gallons of gasoline and diesel were purchased in Oregon for this boat from **November 1, 2012 to October 31, 2013**? If you are not sure, give us your best estimate. You may give fractions of gallons if you wish.

_____ TOTAL GALLONS OF **GASOLINE** PURCHASED **IN OREGON** FOR THIS BOAT

_____ TOTAL GALLONS OF **DIESEL** PURCHASED **IN OREGON** FOR THIS BOAT

6. Was this boat used in Oregon from NOVEMBER 1, 2012 to OCTOBER 31, 2013? (**Check one box then follow arrow to next question.**)

₁ NO, NOT USED IN OREGON DURING THIS TIME → (**Since this boat was not used during this time, please go to Question 15 on page 4.**)

₂ YES, USED IN OREGON DURING THIS TIME

7. In the table below, please indicate the number of days in each month **this boat** was used **in Oregon** from **November 1, 2012 to October 31, 2013**. For example: If it was used for 3 hours on January 6th and a half hour on January 24th, for our purposes it was used 2 days in January. Write a "0" (zero) if this boat was not used during a month. (A day is all or any part of a 24-hour period when this boat was used.)

2012		2013									
NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT

8. About how many gallons of gasoline and diesel were used in this boat on a typical day of boating in Oregon from **November 1, 2012 to October 31, 2013**? If you are not sure, please give your best estimate. You may give fractions of gallons if you wish.

_____ GALLONS OF **GASOLINE** USED IN THIS BOAT ON A **TYPICAL DAY** OF BOATING IN OREGON

_____ GALLONS OF **DIESEL** USED IN THIS BOAT ON A **TYPICAL DAY** OF BOATING IN OREGON

9. In the table below, please write the names of up to four boat access sites in Oregon where this boat was used most often from November 1, 2012 to October 31, 2013. An access site could be a boat ramp, a marina, or a private dock. After each site, write the name of the waterbody where the boat was used and the total number of days the boat was used on the waterbody.

Finally, please give the total number of days you spent participating in the major boating activities listed on the right side of the table. If none, please write "0" (zero). (**Note** - "Water ski or water sport" includes wakeboards, inflatables and all other towed devices. If the boat was used for two activities in one day, it would count as one day for each activity.)

MOST USED ACCESS SITES	NAME OF BOAT RAMP, MARINA, OR LAUNCH SITE USED	NAME OF OREGON WATERBODY USED FROM SITE	TOTAL DAYS BOAT USED	Activities				
				Total days this boat was used to:				
				FISH/ CRAB	HUNT	JET SKI	WATER SKI OR WATER SPORT	CRUISE OR SAIL
EXAMPLE 1	Hammond Marina	Columbia River	11	11	0	0	0	0
EXAMPLE 2	Chinook Landing	Columbia River	5	0	0	0	3	5
Most Used SITE								
2nd Most Used SITE								
3rd Most Used SITE								
4th Most Used SITE								
All others Combined	For all other sites combined, write the total number of days the boat was used and the total number of days for each activity. →							

10. At the WATERBODY this boat was used most (see answer to Q9, most used waterbody), how many total children (under 18 years old) and total adults were in this boat on a typical day boating?

_____ TOTAL NUMBER OF CHILDREN ON TYPICAL DAY
 _____ TOTAL NUMBER OF ADULTS ON TYPICAL DAY

11. The following is a list of boating law enforcement problems or conditions. At the waterbody this boat was used most in Oregon (see Question 9), please indicate how often you experienced each of these problems from November 1, 2012 to October 31, 2013. (**Check one box for each problem/condition.**)

	NEVER	SOME TRIPS	MOST TRIPS	ALL TRIPS	DON'T KNOW
a. Boat operators who are obviously intoxicated.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
b. Excessive boat/exhaust noise	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
c. Violations of speed limits	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
d. Violations of no-wake zones.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
e. Careless or reckless boaters	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
f. Excessive radio/stereo noise from another boat	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
g. Excessive boat wakes (that disrupt other activities)...	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
h. Lack of adequate marine law enforcement/safety patrol	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

12. At the waterbody this boat was used most in Oregon (see Question 9), please indicate whether or not you experienced each of the following boating facility problems or conditions from November 1, 2012 to October 31, 2013. (**Check YES or NO for each problem/condition.**)

	YES	NO	DON'T KNOW
a. Entrance or launch fee too high	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
b. Hazardous condition at ramp (drop-off, etc).....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
c. Lack of maintenance at launch site	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

13. At the waterbody this boat was used most in Oregon, please indicate whether or not the following additional facilities are needed. (**Check YES, NEEDED or NOT NEEDED for each facility.**)

	YES, NEEDED	NOT NEEDED	DON'T KNOW
a. On-shore restroom	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
b. Floating restroom.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
c. Security lights in parking lot.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
d. Parking for boat trailers	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
e. Ramp lanes	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
f. Boarding floats (courtesy dock)	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
g. Fueling station on or near the water.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
h. Campsites accessible only by boat	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
i. Pumpout/dump station.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
j. Short term tie-up.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
k. Other (<i>Describe</i>)	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

14. At the waterbody this boat was used most, were you approached by a marine law safety patrol anytime from November 1, 2012 to October 31, 2013? (**After checking your answer, follow arrow to next question.**)

- ₁ NO → (**After checking NO, skip to Question 15 on next page.**)
- ₂ DON'T KNOW/CAN'T REMEMBER → (**After checking your answer, skip to Question 15 on next page.**)
- ₃ YES → (**After checking YES, continue with Question 14a on next page.**)

14a. If yes, please indicate whether your boat was approached and/or questioned for each of the following reasons by the marine law safety patrol.

	YES	NO
a. Boat equipment or hull identification inspection	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
b. Law enforcement action warning, citation, or arrest	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
c. Received assistance (direction, tow, rescue, etc)	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂

14b. Where did the encounter(s) happen?

	YES	NO
a. At ramp or on land (before or after launching)	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
b. On water (while boating)	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂

15. Do you currently own any non-motorized watercraft?

- ₁ NO → **(After checking NO, skip to Question 16)**
₂ YES

15a. For each type of watercraft listed, please write the total number you own that are less than 10 feet and 10 feet or longer. Write a 0 if you don't own any of a particular watercraft.

	LESS THAN 10 FT	10 FT OR LONGER
a. Canoe		
b. Drift boat		
c. Inflatable raft		
d. Inflatable catamaran (cataraft)		
e. Inflatable kayak		
f. Hard-shell kayak		
g. Kite board		
h. Row boat		
i. Sail board (windsurfer)		
j. Sail boat (unregistered)		
k. Standup paddle board		
l. Other (<i>describe</i> _____)		

16. What else do you want to say about boating in Oregon, the Oregon State Marine Board or about this survey in general?

THANK YOU FOR COMPLETING THE SURVEY
Please return your survey in the postage paid envelope to:
Oregon State University Survey Research Center
44 Kidder Hall
Corvallis, OR 97331-4606

APPENDIX B-1: Cover letters for Pleasure Non-Resident Sample



Oregon

John A. Kitzhaber, MD, Governor

State Marine Board
435 Commercial St NE Suite 400
PO Box 14145
Salem, OR 97309-5065
(503) 378-8587
FAX: (503) 378-4597

November 6, 2013

Dear Oregon AIS permit holder and boater:



I hope you had a safe and enjoyable summer. While many of us are winding down from a busy boating season, others are gearing up for fall and winter angling. Oregon has a lot to offer boaters and I encourage you to take advantage of the many boating opportunities available.

The Marine Board is funded by boaters to serve boaters. We do this by partnering with cities, counties, ports, and state and federal agencies to improve boating access and provide safety services to the boaters of Oregon. Every three years we survey the boaters to find out how we are doing by asking boaters like you about your experiences, opinions, and needs. As an Oregon Aquatic Invasive Species (AIS) permit holder, your opinions matter too.

Furthermore, by law, the Marine Board is responsible for estimating how much fuel was purchased in Oregon and used for boating between November 1, 2012 and October 31, 2013. The results from this survey help us calculate the percentage of fuel tax revenues that will be transferred to the Marine Board over the next few years to pay for various boating programs and services.

In the next week, you will receive a letter in the mail from the **Oregon State University (OSU) Survey Research Center** asking you to complete an important questionnaire. Your feedback helps us monitor and improve the quality of boating facilities and safety services statewide.

I am writing in advance to tell you about this important project and encourage you to participate.

When you receive your letter from the Survey Research Center by mail, I would greatly appreciate it if you would complete the questionnaire to the best of your ability and return it as soon as possible to OSU. Results from past surveys are available online at www.boatoregon.com located under Performance Measures on the agency's home page left-menu.

Remember, every response helps us better understand boaters' needs and allows us to improve our services to you. If you have questions about the purpose of this study, please call Rachel Bullene, Policy Analyst at 503-378-2836. Thank you for your assistance.

Sincerely,

Scott Brewen
Oregon State Marine Board



Dear Oregon AIS permit holder and boater:

November 12, 2013

I am writing to ask for your help in understanding how the Oregon State Marine Board (OSMB) can provide you with improved boating facilities and safety services. In order to manage services, OSMB needs to find out, from boaters like you, about your recent boating experiences. Since you are registered as an Oregon Aquatic Invasive Species (AIS) permit holder, which gives you the ability to boat in Oregon, your feedback is important to the success of this study.

In addition, Oregon, by law, is required to estimate the amount of fuel purchased in Oregon for use in motorboats in order to calculate the amount of money given to the OSMB for boating operations such as facility maintenance, enforcement, safety, and program improvement. In the past, OSMB has conducted these recreational and fuel questionnaires separately, but in an effort to save money, we have combined the questionnaires into one. Enclosed is the questionnaire.

We realize that you may use your Oregon AIS permit with more than one boat. If you used more than one boat in Oregon, we ask that you think about the boat you used most when answering the survey questions. Please include fuel used in the primary and auxiliary engines of this boat. Even if this boat is non-motorized, you no longer own it, or you did not boat in Oregon during the time period specified on the survey, please complete the survey and return it to us. This information is very important for us to know.

If you have any questions or comments about the purpose of this study, contact Rachel Bullene of the OSMB at (503-378-2836, rachel.e.bullene@state.or.us). If you have questions about returning your questionnaire or if you would like us to remove you from further contacts regarding this study, please email Lydia Newton at newton@science.oregonstate.edu or call 541-737-1993.

Participating in this research survey is voluntary and you may skip any question you choose not to answer. Your questionnaire is numbered so we can remove your name from our mailing list once your questionnaire has been returned. Only the overall results will be reported and we will keep your answers confidential.

Thank you for your help in improving boating experiences in Oregon.

Sincerely,

V.M. Lesser
Director, Oregon State University Survey Research Center
541-737-3584; lesser@science.oregonstate.edu



Survey Research Center
Oregon State University, 44 Kidder Hall, Corvallis, Oregon 97331-4606
T 541-737-3584 | F 541-737-3489 | <http://oregonstate.edu/dept/statistics/src/>

Last week, you should have received a letter from us asking you to complete a questionnaire asking about how your boat was used in Oregon the last year and how much fuel was purchased in Oregon for the boat.

If you have already completed the Oregon Fuel and Recreational Boating questionnaire, please accept our thanks. If you have not completed the questionnaire and returned it, please do so. It is very important to hear from you so that we can provide useful information on the Oregon State Marine Board Fuel and Recreational Survey to the Oregon State Marine Board, which manages boating facilities and services for Oregon.

Sincerely,

A handwritten signature in black ink that reads "V.M. Lesser". The signature is written in a cursive style.

V.M. Lesser
Director, OSU Survey Research Center



Dear Oregon AIS permit holder and boater:

December 3, 2013

In early November we sent you a letter that asked you to complete a questionnaire about your boating experiences and the amount of fuel you purchased for boating in the past year. We are collecting this valuable information for the Oregon State Marine Board (OSMB) so that we can estimate how much fuel tax revenue should go into the Marine Board motorboat fund. The funds help OSMB manage boating operations including the improvement, maintenance, and safety of motorboat facilities.

To the best of our knowledge, we have not yet received your completed questionnaire.

As an Oregon Aquatic Invasive Species (AIS) permit holder, which gives you the ability to boat in Oregon, your feedback is important to the success of this study.

If you have already responded, we would like to thank you. However, in case you did not receive the original questionnaire or it has been misplaced, enclosed is another questionnaire and postage-paid envelope.

We realize that you may use your Oregon AIS permit with more than one boat. If you used more than one boat in Oregon, we ask that you think about the boat you used most when answering the survey questions. Please include fuel used in the primary and auxiliary engines of this boat. Even if this boat is non-motorized, you no longer own it, or you did not boat in Oregon during the time period specified on the survey, please complete the survey and return it to us. This information is very important for us to know.

If you have any questions or comments about the purpose of this study, contact Rachel Bullene of the OSMB at (503-378-2836, rachel.e.bullene@state.or.us). If you have questions about returning your questionnaire or if you would like us to remove you from further contacts regarding this study, please email Lydia Newton at newton@science.oregonstate.edu or call 541-737-1993.

Participating in this research survey is voluntary and you may skip any question you choose not to answer. Your questionnaire is numbered so we can remove your name from our mailing list once your questionnaire has been returned. Only the overall results will be reported, and we will keep your answers confidential.

Thank you for your assistance.

Sincerely,

V.M. Lesser

Director- Oregon State University Survey Research Center, Email: lesser@science.oregonstate.edu

APPENDIX B-2: Copy of Pleasure Non-resident Questionnaire

OREGON FUEL AND RECREATIONAL BOATING QUESTIONNAIRE

PLEASE COMPLETE THIS QUESTIONNAIRE FOR THE BOAT/JET SKI THAT WAS USED IN OREGON WITH THE AQUATIC INVASIVE SPECIES PERMIT NUMBER THAT APPEARS BELOW. {FROM HERE FORWARD, JET SKIS WILL BE REFERRED TO AS BOATS}

AVIS PERMIT #:

PURCHASED AT:

ON:

1. Did you use the AIS permit printed above to use a boat in Oregon waters (or launched from the Oregon coast) anytime from November 1, 2012 to October 31, 2013?

₁ NO → *(After checking NO, skip to Question 16 on the back page.)*

₂ YES

2. Please indicate the length (feet) of the boat you used in Oregon from November 1, 2012 to October 31, 2013. If you used more than one boat, please answer the remainder of the questions for the boat you used most in Oregon.

_____ LENGTH (feet) OF BOAT USED IN OREGON

3. Is this boat equipped with any type of gasoline or diesel powered motor? This includes primary and auxiliary motors using gasoline or diesel. *(Check one box.)*

₁ NO

₂ YES

4. Was this boat new or used when you first bought/received it? *(Check one box.)*

₁ NEW

₂ USED

5. Did you buy/receive this boat before or after November 1, 2012? *(Check one box then follow arrow to next question)*

₁ BEFORE NOVEMBER 1, 2012 → *(After checking your answer, skip to Question 6)*

₂ AFTER NOVEMBER 1, 2012

5a. If after NOVEMBER 1, 2012, please give the month and year you bought/received this boat.

_____/_____
MONTH YEAR

6. Do you still own this boat? *(Check one box then follow arrow to next question.)*

₁ YES, STILL OWN → *(After checking YES, skip to Question 7)*

₂ NO, DO NOT STILL OWN

6a. If you do not still own this boat, please give the month and year in which you surrendered ownership of this boat.

_____/_____
MONTH YEAR

7. Did you purchase fuel (gasoline or diesel) in Oregon for this boat anytime from November 1, 2012 to October 31, 2013? *(Check one box then follow arrow to next question.)*

₁ NO → *(After checking NO, skip to Question 8 on the next page)*

₂ YES → *(After checking YES, continue with Question 7a on next page)*

7a. About how many gallons of gasoline and diesel were **purchased in Oregon for this boat** from **November 1, 2012 to October 31, 2013**? If you are not sure, give us your best estimate. You may give fractions of gallons if you wish.

_____ TOTAL GALLONS OF **GASOLINE** PURCHASED **IN OREGON** FOR THIS BOAT

_____ TOTAL GALLONS OF **DIESEL** PURCHASED **IN OREGON** FOR THIS BOAT

8. In the table below, please indicate the number of days in each month **this boat** was used **in Oregon** from **November 1, 2012 to October 31, 2013**. For example: If it was used for 3 hours on January 6th and a half hour on January 24th, for our purposes it was used 2 days in January. Write a "0" (zero) if this boat was not used during a month. (A day is all or any part of a 24-hour period when this boat was used.)

2012		2013									
NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT

9. About how many gallons of gasoline and diesel were used in this boat on a typical day of boating in Oregon from **November 1, 2012 to October 31, 2013**? If you are not sure, please give your best estimate. You may give fractions of gallons if you wish.

_____ GALLONS OF **GASOLINE** USED IN THIS BOAT ON A **TYPICAL DAY** OF BOATING IN OREGON

_____ GALLONS OF **DIESEL** USED IN THIS BOAT ON A **TYPICAL DAY** OF BOATING IN OREGON

10. In the table below, please write the names of up to four boat access sites in Oregon where this boat was used most often from November 1, 2012 to October 31, 2013. An access site could be a boat ramp, a marina, or a private dock. After each site, write the name of the waterbody where the boat was used and the total number of days the boat was used on the waterbody.

Finally, please give the total number of days you spent participating in the major boating activities listed on the right side of the table. If none, please write "0" (zero). (**Note** - "Water ski or water sport" includes wakeboards, inflatables and all other towed devices. If the boat was used for two activities in one day, it would count as one day for each activity.)

MOST USED ACCESS SITES	NAME OF BOAT RAMP, MARINA, OR LAUNCH SITE USED	NAME OF OREGON WATERBODY USED FROM SITE	TOTAL DAYS BOAT USED	Activities				
				Total days this boat was used to:				
				FISH/ CRAB	HUNT	JET SKI	WATER SKI OR WATER SPORT	CRUISE OR SAIL
EXAMPLE 1	Hammond Marina	Columbia River	11	11	0	0	0	0
EXAMPLE 2	Chinook Landing	Columbia River	5	0	0	0	3	5
Most Used SITE								
2nd Most Used SITE								
3rd Most Used SITE								
4th Most Used SITE								
All others Combined	For all other sites combined, write the total number of days the boat was used and the total number of days for each activity. →							

11. At the WATERBODY this boat was used most (see answer to Q10, most used waterbody), how many total children (under 18 years old) and total adults were in this boat on a typical day boating?

_____ TOTAL NUMBER OF **CHILDREN** ON TYPICAL DAY

_____ TOTAL NUMBER OF **ADULTS** ON TYPICAL DAY

12. The following is a list of boating law enforcement problems or conditions. At the waterbody this boat was used most in Oregon (see Question 10), please indicate how often you experienced each of these problems from November 1, 2012 to October 31, 2013. **(Check one box for each problem/condition.)**

	NEVER	SOME TRIPS	MOST TRIPS	ALL TRIPS	DON'T KNOW
a. Boat operators who are obviously intoxicated.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
b. Excessive boat/exhaust noise	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
c. Violations of speed limits	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
d. Violations of no-wake zones.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
e. Careless or reckless boaters	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
f. Excessive radio/stereo noise from another boat	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
g. Excessive boat wakes (that disrupt other activities)...	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
h. Lack of adequate marine law enforcement/safety patrol	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

13. At the waterbody this boat was used most in Oregon (see Question 10), please indicate whether or not you experienced each of the following boating facility problems or conditions from November 1, 2012 to October 31, 2013. **(Check YES or NO for each problem/condition.)**

	YES	NO	DON'T KNOW
a. Entrance or launch fee too high	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
b. Hazardous condition at ramp (drop-off, etc).....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
c. Lack of maintenance at launch site	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

14. At the waterbody this boat was used most in Oregon, please indicate whether or not the following additional facilities are needed. **(Check YES, NEEDED or NOT NEEDED for each facility.)**

	YES, NEEDED	NOT NEEDED	DON'T KNOW
a. On-shore restroom	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
b. Floating restroom.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
c. Security lights in parking lot.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
d. Parking for boat trailers	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
e. Ramp lanes	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
f. Boarding floats (courtesy dock)	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
g. Fueling station on or near the water	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
h. Campsites accessible only by boat	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
i. Pumpout/dump station.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
j. Short term tie-up.....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
k. Other (<i>Describe</i>)			

15. At the waterbody this boat was used most, were you approached by a marine law safety patrol anytime from November 1, 2012 to October 31, 2013? **(After checking your answer, follow arrow to next question.)**

- ₁ NO → **(After checking NO, skip to Question 16 on next page.)**
- ₂ DON'T KNOW/CAN'T REMEMBER → **(After checking your answer, skip to Question 16 on next page.)**
- ₃ YES

15a. If yes, please indicate whether your boat was approached and/or questioned for each of the following reasons by the marine law safety patrol.

	YES	NO
a. Boat equipment or hull identification inspection	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
b. Law enforcement action warning, citation, or arrest	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
c. Received assistance (direction, tow, rescue, etc).....	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂

15b. Where did the encounter(s) happen?

	YES	NO
a. At ramp or on land (before or after launching)	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
b. On water (while boating)	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂

16. Do you currently own any non-motorized watercraft?

₁ NO → *(After checking NO, skip to Question 17)*
₂ YES

16a. For each type of watercraft listed, please write the total number you own that are less than 10 feet and 10 feet or longer. Write a 0 if you don't own any of a particular watercraft.

	LESS THAN 10 FT	10 FT OR LONGER
m. Canoe		
n. Drift boat		
o. Inflatable raft		
p. Inflatable catamaran (cataraft)		
q. Inflatable kayak		
r. Hard-shell kayak		
s. Kite board		
t. Row boat		
u. Sail board (windsurfer)		
v. Sail boat (unregistered)		
w. Standup paddle board		
x. Other (<i>describe</i> _____)		

17. What else do you want to say about boating in Oregon, the Oregon State Marine Board or about this survey in general?

THANK YOU FOR COMPLETING THE SURVEY
Please return your survey in the postage paid envelope to:
Oregon State University Survey Research Center
44 Kidder Hall
Corvallis, OR 97331-4606

APPENDIX C-1: PLEASURE BOAT DATA CODEBOOK

Codebook Name: OSMB_2013_PLEASURE_PAPER_REC

Date: June 16, 2014

Number of Variables in Codebook: 94

Data Record Length: 191

Var. 1	Fmt: N4	Col: 1-4	Name: ID (A)
ID	#		

Var. 2	Fmt: N9	Col: 5-13	Name: Q9aCODEMOST (B)
Q9aCODEMOST: Code for site, county and waterbody	#		999999999=NO RESPONSE

Var. 3	Fmt: N3	Col: 14-16	Name: Q9aDAYS (C)
Q9aDAYS: Total days boat used	#		999=NO RESPONSE

Var. 4	Fmt: N3	Col: 17-19	Name: Q9aFISH_CRAB (D)
Q9aFISH/CRAB: Total days	#		999=NO RESPONSE
			888=DONE BUT DAYS UNKNOWN

Var. 5	Fmt: N3	Col: 20-22	Name: Q9aHUNT (E)
Q9aHUNT: Total days	#		888=DONE BUT DAYS UNKNOWN
			999=NO RESPONSE

Var. 6	Fmt: N3	Col: 23-25	Name: Q9aJETSKI (F)
Q9aJETSKI: Total days	#		888=DONE BUT DAYS UNKNOWN
			999=NO RESPONSE

Var. 7	Fmt: N3	Col: 26-28	Name: Q9aWATERSKI_SPORT (G)
Q9aWATERSKI_SPORT: Total days	#		888=DONE BUT DAYS UNKNOWN
			999=NO RESPONSE

Var. 8	Fmt: N3	Col: 29-31	Name: Q9aCRUISE_SAIL (H)
Q9aCRUISE/SAIL: Total days	#		888=DONE BUT DAYS UNKNOWN
			999=NO RESPONSE

Var. 9	Fmt: N1	Col: 32	Name: Proceed2ND (I)
Is there a second waterbody?	1=YES	2=NO ;40	

Var. 10	Fmt: N9	Col: 33-41	Name: Q9bCODE2ND (J)
	Q9bCODE2ND: Code for site, county and waterbody		
	#		999999999=NO RESPONSE
Var. 11	Fmt: N3	Col: 42-44	Name: Q9bDAYS (K)
	Q9bDAYS: Total days boat used		
	#		999=NO RESPONSE
Var. 12	Fmt: N3	Col: 45-47	Name: Q9bFISH_CRAB (L)
	Q9bFISH/CRAB: Total days		
	#		888=DONE BUT DAYS UNKNOWN
	999=NO RESPONSE		
Var. 13	Fmt: N3	Col: 48-50	Name: Q9bHUNT (M)
	Q9bHUNT: Total days		
	#		888=DONE BUT DAYS UNKNOWN
	999=NO RESPONSE		
Var. 14	Fmt: N3	Col: 51-53	Name: Q9bJETSKI (N)
	Q9bJETSKI: Total days		
	#		888=DONE BUT DAYS UNKNOWN
	999=NO RESPONSE		
Var. 15	Fmt: N3	Col: 54-56	Name: Q9bWATERSKI_SPORT (O)
	Q9bWATERSKI_SPORT: Total days		
	#		888=DONE BUT DAYS UNKNOWN
	999=NO RESPONSE		
Var. 16	Fmt: N3	Col: 57-59	Name: Q9bCRUISE_SAIL (P)
	Q9bCRUISE/SAIL: Total days		
	#		888=DONE BUT DAYS UNKNOWN
	999=NO RESPONSE		
Var. 17	Fmt: N1	Col: 60	Name: Proceed3RD (Q)
	Is there a third waterbody?		
	1=YES	2=NO ;40	
Var. 18	Fmt: N9	Col: 61-69	Name: Q9cCODE3RD (R)
	Q9cCODE3RD: Code for site, county and waterbody		
	#		999999999=NO RESPONSE
Var. 19	Fmt: N3	Col: 70-72	Name: Q9cDAYS (S)
	Q9cDAYS: Total days boat used		
	#		999=NO RESPONSE
Var. 20	Fmt: N3	Col: 73-75	Name: Q9cFISH_CRAB (T)
	Q9cFISH/CRAB: Total days		

888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 21 Fmt: N3 Col: 76-78 Name: Q9cHUNT (U)
Q9cHUNT: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 22 Fmt: N3 Col: 79-81 Name: Q9cJETSKI (V)
Q9cJETSKI: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 23 Fmt: N3 Col: 82-84 Name: Q9cWATERSKI_SPORT (W)
Q9cWATERSKI_SPORT: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 24 Fmt: N3 Col: 85-87 Name: Q9cCRUISE_SAIL (X)
Q9cCRUISE/SAIL: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 25 Fmt: N1 Col: 88 Name: Proceed4TH (Y)
Is there a 4th waterbody?
1=YES 2=NO ;40

Var. 26 Fmt: N9 Col: 89-97 Name: Q9dCODE4TH (Z)
Q9dCODE4TH: Code for site, county and waterbody
999999999=NO RESPONSE

Var. 27 Fmt: N3 Col: 98-100 Name: Q9dDAYS (AA)
Q9dDAYS: Total days boat used
999=NO RESPONSE

Var. 28 Fmt: N3 Col: 101-103 Name: Q9dFISH_CRAB (AB)
Q9dFISH/CRAB: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 29 Fmt: N3 Col: 104-106 Name: Q9dHUNT (AC)
Q9dHUNT: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 30 Fmt: N3 Col: 107-109 Name: Q9dJETSKI (AD)
Q9dJETSKI: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 31 Fmt: N3 Col: 110-112 Name: Q9dWATERSKI_SPORT (AE)
Q9dWATERSKI_SPORT: Total days
888=DONE BUT DAYS UNKNOWN

999=NO RESPONSE

Var. 32 Fmt: N3 Col: 113-115 Name: Q9dCRUISE_SAIL (AF)
Q9dCRUISE/SAIL: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 33 Fmt: N1 Col: 116 Name: ProceedOTHERS (AG)
Are there others?
1=YES 2=NO ;40

Var. 34 Fmt: N3 Col: 117-119 Name: Q9eDAYS (AH)
Q9eDAYS: Total days boat used
999=NO RESPONSE

Var. 35 Fmt: N3 Col: 120-122 Name: Q9eFISH_CRAB (AI)
Q9eFISH/CRAB: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 36 Fmt: N3 Col: 123-125 Name: Q9eHUNT (AJ)
Q9eHUNT: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 37 Fmt: N3 Col: 126-128 Name: Q9eJETSKI (AK)
Q9eJETSKI: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 38 Fmt: N3 Col: 129-131 Name: Q9eWATERSKI_SPORT (AL)
Q9eWATERSKI_SPORT: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 39 Fmt: N3 Col: 132-134 Name: Q9eCRUISE_SAIL (AM)
Q9eCRUISE/SAIL: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 49	Fmt: N1	Col: 146	Name: Q11h (AW)		
	h. Lack of adequate marine law enforcement/safety patrol				
	1=NEVER	3=MOST TRIPS	5=DON'T KNOW		
	2=SOME TRIPS	4=ALL TRIPS	9=NO RESPONSE		
Var. 50	Fmt: N1	Col: 147	Name: Q12a (AX)		
	a. Entrance or launch fee too high				
	1=YES	2=NO	3=DON'T KNOW	9=NO RESPONSE	
Var. 51	Fmt: N1	Col: 148	Name: Q12b (AY)		
	b. Hazardous condition at ramp (drop-off, etc.)				
	1=YES	2=NO	3=DON'T KNOW	9=NO RESPONSE	
Var. 52	Fmt: N1	Col: 149	Name: Q12c (AZ)		
	c. Lack of maintenance at launch site				
	1=YES	2=NO	3=DON'T KNOW	9=NO RESPONSE	
Var. 53	Fmt: N1	Col: 150	Name: Q13a (BA)		
	a. On-shore restroom				
	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 54	Fmt: N1	Col: 151	Name: Q13b (BB)		
	b. Floating restroom				
	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 55	Fmt: N1	Col: 152	Name: Q13c (BC)		
	c. Security lights in parking lot				
	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 56	Fmt: N1	Col: 153	Name: Q13d (BD)		
	d. Parking for boat trailers				
	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 57	Fmt: N1	Col: 154	Name: Q13e (BE)		
	e. Ramp lanes				
	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 58	Fmt: N1	Col: 155	Name: Q13f (BF)		
	f. Boarding floats (courtesy dock)				
	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 59	Fmt: N1	Col: 156	Name: Q13g (BG)		
	g. Fueling station on or near the water				
	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 60	Fmt: N1	Col: 157	Name: Q13h (BH)		
	h. Campsites accessible only by boat				
	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 61	Fmt: N1	Col: 158	Name: Q13i (BI)		
	i. Pumpout/dump station				
	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	

Var. 62	Fmt: N1	Col: 159	Name: Q13j (BJ)
j. Short term tie-up			
1=YES, NEEDED 2=NOT NEEDED 3=DON'T KNOW 9=NO RESPONSE			
Var. 63	Fmt: N1	Col: 160	Name: Q13k (BK)
k. Other (Describe)			
1=OTHER INDICATED 9=NO RESPONSE			
2=NO OTHER INDICATED			
Var. 64	Fmt: N1	Col: 161	Name: Q14 (BL)
Q14. At the waterbody this boat was used most, were you approached by a marine law safety patrol anytime from November 1, 2012 to October 31, 2013?			
1=NO ;70 3=YES			
2=DON'T KNOW/CAN'T REMEMBER ;70 9=NO RESPONSE ;70			
Var. 65	Fmt: N1	Col: 162	Name: Q14aa (BM)
a. Boat equipment or hull identification inspection			
1=YES 2=NO 9=NO RESPONSE			
Var. 66	Fmt: N1	Col: 163	Name: Q14ab (BN)
b. Law enforcement action warning, citation, or arrest			
1=YES 2=NO 9=NO RESPONSE			
Var. 67	Fmt: N1	Col: 164	Name: Q14ac (BO)
c. Received assistance (direction, tow, rescue, etc.)			
1=YES 2=NO 9=NO RESPONSE			
Var. 68	Fmt: N1	Col: 165	Name: Q14ba (BP)
a. At ramp or on land (before or after launching)			
1=YES 2=NO 9=NO RESPONSE			
Var. 69	Fmt: N1	Col: 166	Name: Q14bb (BQ)
b. On water (while boating)			
1=YES 2=NO 9=NO RESPONSE			
Var. 70	Fmt: N1	Col: 167	Name: Q15 (BR)
Q15. Do you currently own any non-motorized watercraft?			
1=NO ;100 2=YES 9=NO RESPONSE ;100			
Var. 71	Fmt: N1	Col: 168	Name: Q15aa_1 (BS)
a. Canoe (<10')			
# 8=OWN BUT NUMBER UNKNOWN			
9=NO RESPONSE			
Var. 72	Fmt: N1	Col: 169	Name: Q15aa_2 (BT)
a. Canoe (10' or longer)			
# 8=OWN BUT NUMBER UNKNOWN			
9=NO RESPONSE			
Var. 73	Fmt: N1	Col: 170	Name: Q15ab_1 (BU)
b. Drift boat (<10')			
# 8=OWN BUT NUMBER UNKNOWN			
9=NO RESPONSE			

Var. 74	Fmt: N1	Col: 171	Name: Q15ab_2 (BV)
	b. Drift boat (10' or longer)		
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 75	Fmt: N1	Col: 172	Name: Q15ac_1 (BW)
	c. Inflatable raft (<10')		
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 76	Fmt: N1	Col: 173	Name: Q15ac_2 (BX)
	c. Inflatable raft (10' or longer)		
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 77	Fmt: N1	Col: 174	Name: Q15ad_1 (BY)
	d. Inflatable catamaran (cataraft) (<10')		
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 78	Fmt: N1	Col: 175	Name: Q15ad_2 (BZ)
	d. Inflatable catamaran (cataraft) (10' or longer)		
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 79	Fmt: N1	Col: 176	Name: Q15ae_1 (CA)
	d. Inflatable kayak (<10')		
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 80	Fmt: N1	Col: 177	Name: Q15ae_2 (CB)
	d. Inflatable kayak (10' or longer)		
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 81	Fmt: N1	Col: 178	Name: Q15af_1 (CC)
	f. Hard-shell kayak (<10')		
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 82	Fmt: N1	Col: 179	Name: Q15af_2 (CD)
	f. Hard-shell kayak (10' or longer)		
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 83	Fmt: N1	Col: 180	Name: Q15ag_1 (CE)
	g. Kite board (<10')		
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 84	Fmt: N1	Col: 181	Name: Q15ag_2 (CF)
	g. Kite board (10' or longer)		

8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 85 Fmt: N1 Col: 182 Name: Q15ah_1 (CG)
h. Row boat (<10')
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 86 Fmt: N1 Col: 183 Name: Q15ah_2 (CH)
h. Row boat (10' or longer)
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 87 Fmt: N1 Col: 184 Name: Q15ai_1 (CI)
i. Sail board (windsurfer) (<10')
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 88 Fmt: N1 Col: 185 Name: Q15ai_2 (CJ)
i. Sail board (windsurfer) (10' or longer)
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 89 Fmt: N1 Col: 186 Name: Q15aj_1 (CK)
j. Sail boat (unregistered) (<10')
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 90 Fmt: N1 Col: 187 Name: Q15aj_2 (CL)
j. Sail boat (unregistered) (10' or longer)
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 91 Fmt: N1 Col: 188 Name: Q15ak_1 (CM)
k. Standup paddle board (<10')
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 92 Fmt: N1 Col: 189 Name: Q15ak_2 (CN)
k. Standup paddle board (10' or longer)
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 93 Fmt: N1 Col: 190 Name: Q15al_1 (CO)
l. Other (<10')
8=OWN BUT NUMBER UNKNOWN
9=NO OTHER INDICATED

Var. 94 Fmt: N1 Col: 191 Name: Q15al_2 (CP)
l. Other (10' or longer)
8=OWN BUT NUMBER UNKNOWN
9=NO OTHER INDICATED

APPENDIX C-2: NON-RESIDENT PLEASURE BOAT DATA CODEBOOK

Codebook Name: OSMB_2013_NR_PAPER_REC

Date: October 21, 2014

Number of Variables in Codebook: 94

Data Record Length: 192

Var. 1	Fmt: N5	Col: 1-5	Name: ID (A)
ID	#		

Var. 2	Fmt: N9	Col: 6-14	Name: Q10aCODEMOST (B)
Q10aCODEMOST: Code for site, county and waterbody	#		999999999=NO RESPONSE

Var. 3	Fmt: N3	Col: 15-17	Name: Q10aDAYS (C)
Q10aDAYS: Total days boat used	#		999=NO RESPONSE

Var. 4	Fmt: N3	Col: 18-20	Name: Q10aFISH_CRAB (D)
Q10aFISH/CRAB: Total days	#		888=DONE BUT DAYS UNKNOWN
			999=NO RESPONSE

Var. 5	Fmt: N3	Col: 21-23	Name: Q10aHUNT (E)
Q10aHUNT: Total days	#		888=DONE BUT DAYS UNKNOWN
			999=NO RESPONSE

Var. 6	Fmt: N3	Col: 24-26	Name: Q10aJETSKI (F)
Q10aJETSKI: Total days	#		888=DONE BUT DAYS UNKNOWN
			999=NO RESPONSE

Var. 7	Fmt: N3	Col: 27-29	Name: Q10aWATERSKI_SPORT (G)
Q10aWATERSKI_SPORT: Total days	#		888=DONE BUT DAYS UNKNOWN
			999=NO RESPONSE

Var. 8	Fmt: N3	Col: 30-32	Name: Q10aCRUISE_SAIL (H)
Q10aCRUISE/SAIL: Total days	#		888=DONE BUT DAYS UNKNOWN
			999=NO RESPONSE

Var. 9	Fmt: N1	Col: 33	Name: Proceed2ND (I)
Is there a second waterbody?	1=YES	2=NO ;40	

Var. 10	Fmt: N9	Col: 34-42	Name: Q10bCODE2ND (J)
	Q10bCODE2ND: Code for site, county and waterbody		
	#		999999999=NO RESPONSE
Var. 11	Fmt: N3	Col: 43-45	Name: Q10bDAYS (K)
	Q10bDAYS: Total days boat used		
	#		999=NO RESPONSE
Var. 12	Fmt: N3	Col: 46-48	Name: Q10bFISH_CRAB (L)
	Q10bFISH/CRAB: Total days		
	#		888=DONE BUT DAYS UNKNOWN
	999=NO RESPONSE		
Var. 13	Fmt: N3	Col: 49-51	Name: Q10bHUNT (M)
	Q10bHUNT: Total days		
	#		888=DONE BUT DAYS UNKNOWN
	999=NO RESPONSE		
Var. 14	Fmt: N3	Col: 52-54	Name: Q10bJETSKI (N)
	Q10bJETSKI: Total days		
	#		888=DONE BUT DAYS UNKNOWN
	999=NO RESPONSE		
Var. 15	Fmt: N3	Col: 55-57	Name: Q10bWATERSKI_SPORT (O)
	Q10bWATERSKI_SPORT: Total days		
	#		888=DONE BUT DAYS UNKNOWN
	999=NO RESPONSE		
Var. 16	Fmt: N3	Col: 58-60	Name: Q10bCRUISE_SAIL (P)
	Q10bCRUISE/SAIL: Total days		
	#		888=DONE BUT DAYS UNKNOWN
	999=NO RESPONSE		
Var. 17	Fmt: N1	Col: 61	Name: Proceed3RD (Q)
	Is there a third waterbody?		
	1=YES	2=NO ;40	
Var. 18	Fmt: N9	Col: 62-70	Name: Q10cCODE3RD (R)
	Q10cCODE3RD: Code for site, county and waterbody		
	#		999999999=NO RESPONSE
Var. 19	Fmt: N3	Col: 71-73	Name: Q10cDAYS (S)
	Q10cDAYS: Total days boat used		
	#		999=NO RESPONSE
Var. 20	Fmt: N3	Col: 74-76	Name: Q10cFISH_CRAB (T)
	Q10cFISH/CRAB: Total days		

888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 21 Fmt: N3 Col: 77-79 Name: Q10cHUNT (U)
Q10cHUNT: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 22 Fmt: N3 Col: 80-82 Name: Q10cJETSKI (V)
Q10cJETSKI: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 23 Fmt: N3 Col: 83-85 Name: Q10cWATERSKI_SPORT (W)
Q10cWATERSKI_SPORT: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 24 Fmt: N3 Col: 86-88 Name: Q10cCRUISE_SAIL (X)
Q10cCRUISE/SAIL: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 25 Fmt: N1 Col: 89 Name: Proceed4TH (Y)
Is there a 4th waterbody?
1=YES 2=NO ;40

Var. 26 Fmt: N9 Col: 90-98 Name: Q10dCODE4TH (Z)
Q10dCODE4TH: Code for site, county and waterbody
999999999=NO RESPONSE

Var. 27 Fmt: N3 Col: 99-101 Name: Q10dDAYS (AA)
Q10dDAYS: Total days boat used
999=NO RESPONSE

Var. 28 Fmt: N3 Col: 102-104 Name: Q10dFISH_CRAB (AB)
Q10dFISH/CRAB: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 29 Fmt: N3 Col: 105-107 Name: Q10dHUNT (AC)
Q10dHUNT: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 30 Fmt: N3 Col: 108-110 Name: Q10dJETSKI (AD)
Q10dJETSKI: Total days

888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 31 Fmt: N3 Col: 111-113 Name: Q10dWATERSKI_SPORT (AE)
Q10dWATERSKI_SPORT: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 32 Fmt: N3 Col: 114-116 Name: Q10dCRUISE_SAIL (AF)
Q10dCRUISE/SAIL: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 33 Fmt: N1 Col: 117 Name: ProceedOTHERS (AG)
Are there others?
1=YES 2=NO ;40

Var. 34 Fmt: N3 Col: 118-120 Name: Q10eDAYS (AH)
Q10eDAYS: Total days boat used
999=NO RESPONSE

Var. 35 Fmt: N3 Col: 121-123 Name: Q10eFISH_CRAB (AI)
Q10eFISH/CRAB: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 36 Fmt: N3 Col: 124-126 Name: Q10eHUNT (AJ)
Q10eHUNT: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 37 Fmt: N3 Col: 127-129 Name: Q10eJETSKI (AK)
Q10eJETSKI: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 38 Fmt: N3 Col: 130-132 Name: Q10eWATERSKI_SPORT (AL)
Q10eWATERSKI_SPORT: Total days
888=DONE BUT DAYS UNKNOWN
999=NO RESPONSE

Var. 39 Fmt: N3 Col: 133-135 Name: Q10eCRUISE_SAIL (AM)
Q10eCRUISE/SAIL: Total days
999=NO RESPONSE

Var. 40 Fmt: N2 Col: 136-137 Name: Q11_Children (AN)
Q11_Children. At the WATERBODY this boat was used most (see answers to Q10), how many total children (under 18 years old) and total adults were in this boat on a typical day boating?

Var. 50	Fmt: N1	Col: 148	Name: Q13a (AX)		
a. Entrance or launch fee too high	1=YES	2=NO	3=DON'T KNOW	9=NO RESPONSE	
Var. 51	Fmt: N1	Col: 149	Name: Q13b (AY)		
b. Hazardous condition at ramp (drop-off, etc.)	1=YES	2=NO	3=DON'T KNOW	9=NO RESPONSE	
Var. 52	Fmt: N1	Col: 150	Name: Q13c (AZ)		
c. Lack of maintenance at launch site	1=YES	2=NO	3=DON'T KNOW	9=NO RESPONSE	
Var. 53	Fmt: N1	Col: 151	Name: Q14a (BA)		
a. On-shore restroom	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 54	Fmt: N1	Col: 152	Name: Q14b (BB)		
b. Floating restroom	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 55	Fmt: N1	Col: 153	Name: Q14c (BC)		
c. Security lights in parking lot	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 56	Fmt: N1	Col: 154	Name: Q14d (BD)		
d. Parking for boat trailers	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 57	Fmt: N1	Col: 155	Name: Q14e (BE)		
e. Ramp lanes	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 58	Fmt: N1	Col: 156	Name: Q14f (BF)		
f. Boarding floats (courtesy dock)	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 59	Fmt: N1	Col: 157	Name: Q14g (BG)		
g. Fueling station on or near the water	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 60	Fmt: N1	Col: 158	Name: Q14h (BH)		
h. Campsites accessible only by boat	1=YES, NEEDED	2=NOT NEEDED	3=DON'T KNOW	9=NO RESPONSE	
Var. 61	Fmt: N1	Col: 159	Name: Q14i (BI)		
i. Pumpout/dump station					

1=YES, NEEDED 2=NOT NEEDED 3=DON'T KNOW 9=NO RESPONSE

Var. 62 Fmt: N1 Col: 160 Name: Q14j (BJ)

j. Short term tie-up

1=YES, NEEDED 2=NOT NEEDED 3=DON'T KNOW 9=NO RESPONSE

Var. 63 Fmt: N1 Col: 161 Name: Q14k (BK)

k. Other (Describe)

1=OTHER INDICATED 9=NO RESPONSE
2=NO OTHER INDICATED

Var. 64 Fmt: N1 Col: 162 Name: Q15 (BL)

Q15. At the waterbody this boat was used most, were you approached by a marine law safety patrol anytime from November 1, 2012 to October 31, 2013?

1=NO ;70 3=YES
2=DON'T KNOW/CAN'T REMEMBER ;70 9=NO RESPONSE ;70

Var. 65 Fmt: N1 Col: 163 Name: Q15aa (BM)

a. Boat equipment or hull identification inspection

1=YES 2=NO 9=NO RESPONSE

Var. 66 Fmt: N1 Col: 164 Name: Q15ab (BN)

b. Law enforcement action warning, citation, or arrest

1=YES 2=NO 9=NO RESPONSE

Var. 67 Fmt: N1 Col: 165 Name: Q15ac (BO)

c. Received assistance (direction, tow, rescue, etc.)

1=YES 2=NO 9=NO RESPONSE

Var. 68 Fmt: N1 Col: 166 Name: Q15ba (BP)

a. At ramp or on land (before or after launching)

1=YES 2=NO 9=NO RESPONSE

Var. 69 Fmt: N1 Col: 167 Name: Q15bb (BQ)

b. On water (while boating)

1=YES 2=NO 9=NO RESPONSE

Var. 70 Fmt: N1 Col: 168 Name: Q16 (BR)

Q16. Do you currently own any non-motorized watercraft?

1=NO ;100 2=YES 9=NO RESPONSE ;100

Var. 71 Fmt: N1 Col: 169 Name: Q16aa_1 (BS)

a. Canoe (<10')

8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 72 Fmt: N1 Col: 170 Name: Q16aa_2 (BT)

a. Canoe (10' or longer)

8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 73 Fmt: N1 Col: 171 Name: Q16ab_1 (BU)
b. Drift boat (<10')
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 74 Fmt: N1 Col: 172 Name: Q16ab_2 (BV)
b. Drift boat (10' or longer)
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 75 Fmt: N1 Col: 173 Name: Q16ac_1 (BW)
c. Inflatable raft (<10')
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 76 Fmt: N1 Col: 174 Name: Q16ac_2 (BX)
c. Inflatable raft (10' or longer)
9=NO RESPONSE

Var. 77 Fmt: N1 Col: 175 Name: Q16ad_1 (BY)
d. Inflatable catamaran (cataraft) (<10')
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 78 Fmt: N1 Col: 176 Name: Q16ad_2 (BZ)
d. Inflatable catamaran (cataraft) (10' or longer)
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 79 Fmt: N1 Col: 177 Name: Q16ae_1 (CA)
d. Inflatable kayak (<10')
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 80 Fmt: N1 Col: 178 Name: Q16ae_2 (CB)
d. Inflatable kayak (10' or longer)
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 81 Fmt: N1 Col: 179 Name: Q16af_1 (CC)
f. Hard-shell kayak (<10')
8=OWN BUT NUMBER UNKNOWN
9=NO RESPONSE

Var. 82	Fmt: N1	Col: 180	Name: Q16af_2 (CD)
f. Hard-shell kayak (10' or longer)			
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 83	Fmt: N1	Col: 181	Name: Q16ag_1 (CE)
g. Kite board (<10')			
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 84	Fmt: N1	Col: 182	Name: Q16ag_2 (CF)
g. Kite board (10' or longer)			
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 85	Fmt: N1	Col: 183	Name: Q16ah_1 (CG)
h. Row boat (<10')			
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 86	Fmt: N1	Col: 184	Name: Q16ah_2 (CH)
h. Row boat (10' or longer)			
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 87	Fmt: N1	Col: 185	Name: Q16ai_1 (CI)
i. Sail board (windsurfer) (<10')			
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 88	Fmt: N1	Col: 186	Name: Q16ai_2 (CJ)
i. Sail board (windsurfer) (10' or longer)			
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 89	Fmt: N1	Col: 187	Name: Q16aj_1 (CK)
j. Sail boat (unregistered) (<10')			
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 90	Fmt: N1	Col: 188	Name: Q16aj_2 (CL)
j. Sail boat (unregistered) (10' or longer)			
	#		8=OWN BUT NUMBER UNKNOWN
	9=NO RESPONSE		
Var. 91	Fmt: N1	Col: 189	Name: Q16ak_1 (CM)
k. Standup paddle board (<10')			

9=NO RESPONSE

8=OWN BUT NUMBER UNKNOWN

Var. 92 Fmt: N1 Col: 190 Name: Q16ak_2 (CN)

k. Standup paddle board (10' or longer)

9=NO RESPONSE

8=OWN BUT NUMBER UNKNOWN

Var. 93 Fmt: N1 Col: 191 Name: Q16al_1 (CO)

l. Other (<10')

9=NO OTHER INDICATED

8=OWN BUT NUMBER UNKNOWN

Var. 94 Fmt: N1 Col: 192 Name: Q16al_2 (CP)

l. Other (10' or longer)

9=NO OTHER INDICATED

8=OWN BUT NUMBER UNKNOWN