

Recreational Boating in Western Oregon

R. Charles Vars, Jr.

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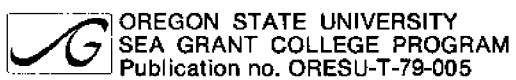
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## related publication

PLEASURE BOATING IN OREGON—1978, A REPORT TO THE OREGON STATE MARINE BOARD, Rocco R. Falotico and Edward J. Condon. 1979. Publication no. ORESU-T-79-001. 108 pp.

Summarizes findings of a survey to determine the type, location and volume of boating activity within Oregon during the 1977-1978 boating season.

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## INTRODUCTION

The survey of western Oregon boaters had two objectives. The first was to obtain current information about the characteristics of boaters, boats and boating activity. The second was to secure the data needed to estimate the demand for recreational boat moorage along the Oregon coast, and the demand for out-of-season boat storage facilities.

This technical report addresses the first objective. A report regarding the second objective is being written.

The survey sample was obtained by drawing a six percent systematic sample in September 1977 from the list of pleasure boats registered in western Oregon. The Oregon State Marine Board provided the list.

The survey instrument (Appendix) was mailed to 6,668 boaters on November 30, 1977. Altogether, 2,395 boaters responded and this represents a 35.9 percent response rate. The reasons for non-response were not evaluated.

Some questions on this survey were repeats of questions asked on the 1975 Pleasure Boating Survey by the Oregon State Marine Board. Analysis showed similar responses to questions that appeared on both surveys. Boats are somewhat larger and more powerful in this survey than in 1975, and fishing remained the most popular activity. Both surveys found that boat owners are typically middle-aged and had above average incomes. Consequently, the lower response rate to this survey did not produce results unexpectedly, or significantly, different from those obtained in 1975. This survey, however, did provide information on boats, boaters, and boating activities that had not been previously gathered for western Oregon.

Responding boaters were grouped for analytical purposes by whether they boated only in saltwater, only in freshwater, or in both. Those who boat in both were designated combination boaters.

## CHARACTERISTICS OF WESTERN OREGON BOATERS

### *Socioeconomic Characteristics*

Results showed that the average age of western Oregon boaters is 50.3 years (Table 1). However, saltwater boaters are 54.1 years old on the average. Few boaters are older than 70 or younger than 26. Boat owners are predominately male (97.8 percent) and married (88.9 percent).

About 80 percent of the boaters live in two-, three- or four-person households. More saltwater boaters (61.0 percent) than freshwater (45.7 percent) or combination boaters (40.9 percent) live in two-person households. The smaller household size of saltwater boaters is not surprising because they are older and more often retired than freshwater or combination boaters.

About half of the boaters work in professional/technical, manager/supervisor and self-employed occupations (Table 2.) These three occupational groups account for 46.1 percent of the saltwater boaters, 49.8 percent of the freshwater boaters and 49.5 percent of the combination boaters.

More saltwater boaters than freshwater or combination boaters are employed in forestry, agriculture and wood products (26.7, 16.7 and 17.6 percent respectively). In contrast, more freshwater and combination boaters than saltwater boaters work in the manufacturing/processing and retail/commercial business industries (37.5, 41.1 and 25.7 percent respectively). These differences reflect the different industrial bases of the Oregon coast and Willamette Valley.

The majority of boat owners in all categories (23.9 percent) report an annual household income level of \$15,000 to \$19,999 (Table 2). Saltwater boaters have a lower median annual income (\$17,000) than freshwater (\$19,065) and combination boaters (\$19,825). Saltwater boaters' incomes are lower because they often live on the coast where incomes are below average, and more of these boaters are retired.

Characteristics of Boat Owners	Percent, by Type of Boater			
	Salt- water	Fresh- water	Combi- nation	All
<u>Age</u>				
16 - 25	1.5	3.7	0.8	2.8
26 - 40	12.6	25.2	24.8	23.6
41 - 55	36.9	32.8	38.5	34.1
56 - 70	41.9	32.0	31.9	33.4
Over 70	7.1	6.3	4.0	6.1
Median Age	55.1	50.2	50.0	50.9
Average Age	54.1	49.7	49.9	50.3
(No. of responses)	(198)	(1,601)	(455)	(2,370)
<u>Household Size</u>				
Single Person	8.0	7.5	5.7	7.4
2 Persons	61.0	45.7	40.9	46.3
3 Persons	12.5	16.9	21.7	17.5
4 Persons	10.5	16.8	17.3	15.9
5 Persons	4.5	8.7	10.1	8.8
6 Persons or More	3.5	4.3	4.3	4.1
Median Household Size	1.7	1.9	2.2	1.9
Average Household Size	2.1	2.3	2.5	2.4
(No. of responses)	(200)	(1,612)	(457)	(2,386)
<u>Sex</u>				
Male	99.0	97.3	98.9	97.8
Female	1.0	2.7	1.1	2.2
(No. of responses)	(200)	(1,618)	(457)	(2,391)
<u>Marital Status</u>				
Married	88.5	88.4	91.2	88.9
Single	11.5	11.6	8.8	11.1
(No. of responses)	(200)	(1,616)	(457)	(2,390)

Table 1. Characteristics of Boat Owners by Type of Boater



Characteristics of Boat Owners	Percent, by Type of Boater			
	Salt- water	Fresh- water	Combi- nation	All
<u>Employment Status</u>				
Employed	66.8	73.2	80.9	73.8
Retired	33.2	25.8	18.5	25.4
Disabled	--	0.8	--	0.2
Unemployed	--	0.2	--	0.2
(No. of responses)	(199)	(1,584)	(455)	(2,351)
<u>Occupations, by Type</u>				
Professional/Technical	15.6	19.9	22.0	20.2
Managers/Supervisors	11.1	14.6	13.3	13.7
Self-employed	19.4	15.3	14.2	15.5
Clerical/Sales	8.9	10.9	11.6	10.8
Foreman/Skilled Labor	17.8	16.2	18.7	16.8
Semi-skilled Labor	16.7	14.3	14.7	14.7
Unskilled Labor	5.6	5.0	2.8	4.6
Miscellaneous	5.0	3.8	2.6	3.8
(No. of responses)	(180)	(1,408)	(422)	(2,109)
<u>Industry Where Employed</u>				
Forestry, Agric., Wood Prod.	26.7	16.7	17.6	17.4
Processing/Manufacturing	7.0	11.9	15.1	12.2
Construction & Rel. Serv.	13.9	11.8	12.2	12.0
Transportation & Rel. Ind.	10.7	11.2	7.2	10.2
Service Occupations	14.4	13.2	11.7	13.1
Retail/Commercial Bus.	18.7	25.6	26.0	25.1
Teaching/Academic	4.8	5.1	7.0	5.6
Professional Services	3.7	4.2	3.2	4.1
Misc. (incl. students)	--	0.3	--	--
(No. of responses)	(187)	(1,483)	(443)	(2,216)
<u>Household Income Before Taxes</u>				
Less than \$3,000	2.2	1.7	0.2	1.5
\$ 3,000 - 5,999	6.0	4.9	2.4	4.6
\$ 6,000 - 7,999	9.3	4.7	2.9	4.9
\$ 8,000 - 9,999	4.9	5.3	4.8	5.1
\$ 10,000 - 14,999	17.6	14.8	13.6	14.9
\$ 15,000 - 19,999	24.7	22.8	27.0	23.9
\$ 20,000 - 24,999	12.6	18.5	23.0	19.0
\$ 25,000 - 34,999	14.8	15.9	14.4	15.2
\$ 35,000 - 49,999	3.3	6.2	8.1	6.4
\$ 50,000 or More	4.4	5.1	3.6	4.5
Median Income	\$17,000	\$19,065	\$19,825	\$18,980
Average Income	\$16,455	\$18,575	\$19,890	\$18,545
(No. of responses)	(182)	(1,463)	(418)	(2,162)

Table 2. Occupational Characteristics of Boat Owners by Type of Boater

*Boating Experience, Education and Future Plans*

On the average, saltwater and combination boaters owned their boats for 15 years. Freshwater boaters have owned boats for 13 years.

Less than half of the boaters have taken a boating operation or safety course (Table 3). Of the saltwater and combination boaters, 48.3 and 48.7 percent, respectively, have. Only 29.9 percent of the freshwater boaters have taken a course.

Boating is often a family activity. Three of every four boaters indicate that family members accompany them on boating trips very often or quite often (Table 4).

Of the family members that do go on the trips, 95 percent go out in the boat rather than do something else. Less than six percent say their families never go boating with them.

A majority of boaters (68.4 percent) expect to have the same type and size of boat five years from now (Table 5). Only 16.6 percent plan to buy a larger version of their present type of boat, while 15.0 percent plan to buy a different type of boat. Not surprisingly, saltwater boaters want better boats for fishing. Freshwater and combination boaters express interest in boats with more room and comfort as well as better fishing capability.

Organization From Which Boater Has Taken a Course	Percent, by Type of Boater			
	Salt-water	Fresh-water	Combi-nation	All
Power Squadron	17.9	11.8	21.0	14.2
Coast Guard Auxiliary	23.9	10.7	22.7	14.0
Red Cross	4.0	3.4	2.4	3.1
Other	13.4	10.3	14.4	11.3
Total with one or more boating courses	48.3	29.9	48.7	42.5

Table 3. Number of Boating Safety and Education Courses Taken by Type of Boater

Frequency that Family Members Go Boating with Boat Owner	Percent, by Type of Boater			
	Salt-water	Fresh-water	Combi-nation	All
Very often	51.4	55.7	57.8	54.9
Quite often	20.5	18.8	23.0	19.5
Not too often	22.5	19.6	16.7	19.2
Never	5.5	5.8	2.4	5.2

Table 4. Frequency of Boating as a Family Activity by Type of Boater

	Percent, by Boater Type			
	Salt-water	Fresh-water	Combination	All
<u>Characteristics of Boat Expected</u>				
<u>To Be Owned 5 years From Now</u>				
Same type and size as now	65.8	70.3	61.3	68.4
Same type as now but larger	15.8	15.5	22.0	16.6
Different type	18.5	14.2	16.7	15.0
(No. of responses)	(184)	(1,488)	(437)	(2,212)
<u>Different Type Expected To Be</u>				
<u>Owned 5 Years From Now</u>				
Cruiser, cabin, yacht, IO	35.3	41.9	47.2	42.5
Different hull material	26.5	19.6	20.9	19.8
Different hull type (semi-V, tri, V)	23.5	15.7	13.9	15.7
Sailboat	--	11.0	4.2	8.7
Improved power system	8.8	6.2	5.6	6.3
Not sure, no answer	5.9	5.7	8.3	6.3
(No. of responses)	(34)	(210)	(72)	(332)
<u>Reason for Different Type Boat</u>				
Good for ocean, big river fishing	11.8	13.5	13.9	14.0
Extended cruising and overnight	8.8	8.7	8.3	8.2
More room and comfort	8.8	19.7	26.4	20.4
Safety and seaworthiness	8.8	9.6	16.7	11.3
Good fishing boat	23.5	10.6	6.9	10.7
Less maintenance and expense	8.8	9.1	12.5	10.1
More versatility	20.6	6.3	2.8	6.7
Other and no answer	8.8	22.6	12.5	18.6
(No. of responses)	(34)	(208)	(72)	(328)

Table 5. Future Boat Purchasing Plans by Type of Boater

## BOAT CHARACTERISTICS

Many boaters own more than one boat. About 25 percent own two boats, and 6.5 percent three boats.

Many boaters bought their boats new. Table 6 shows that 47.9 percent of the freshwater, 48.1 percent of the combination and 35.6 of the saltwater boaters purchased their boats new.

Fifty-four percent of the saltwater boats, 52 percent of freshwater boats and 53 percent of combination boats were purchased by their owners in 1974 or more recently.

Saltwater boats are generally longer than freshwater and combination boats (Table 6). The median length of saltwater boats is 19.0 feet, while the median length of freshwater boats is 15.9 feet. Boats used on both salt and freshwater are more similar in length to saltwater boats.

Most boaters (66.8 percent) power their boats with outboard motors (Table 6). Nineteen percent use inboard/outboard systems, 11.5 percent use an inboard only, 2.6 percent use a sail with an auxiliary motor, and 1.7 use only a sail. However, these aggregate figures obscure significant differences between types of boaters. Outboard motors power 71.8 percent of the freshwater boats, but only 49.8 percent of the saltwater boats. Inboard and inboard/outboard systems power 48.2 percent of the saltwater boats, but only 22.7 percent of the freshwater boats.

Saltwater and combination boaters prefer engines with greater horsepower than freshwater boaters (Table 6). The median horsepower of engines on saltwater and combination boats is 100 and 75 h.p. respectively. The median size of engines on freshwater boats is 35 h.p.

Fiberglass is the most popular hull material for all boaters (Table 6). Freshwater and combination boaters favor metal over wood hulls, but saltwater boaters prefer wood hulls to metal hulls.

Variation in power systems and engine horsepower are correlated with differences in boat sizes between the categories (Table 7). Outboard motors are used on 98.1 percent of the boats 11 feet or less in length. Inboard/outboards are used on 58.0 percent of the 20- to 23-foot-long boats, and inboards account for 63.7 percent of the boats 24 feet long or longer.

Not surprisingly, engine horsepower varies directly with boat length (Table 7). Boaters use motors of 10 h.p. or less on 92.5 percent of the boats 11 feet or less in length, while more than 75 percent of the boats 20 feet and longer have engines of 100 h.p. or more.

Respondents' estimates of what their boats and gear are worth at 1977 prices reveal that the average and median values of their investments increase as boaters' household incomes increase (Table 8). Because a relatively small number of respondents own very valuable boats, the average value is slightly misleading. The median value is more appropriate to use and correlates more highly with income levels.

Oregon boaters have substantial investments in boats and gear as reflected in the median value of their investments (Table 8). If this value (\$2,000) is multiplied by the estimated number of boats in western Oregon in January 1978 (107,000), the current value of owner investments is \$214 million. State-wide, the value of recreational boats and gear is conservatively estimated to be \$240-260 million.

## USE OF BOATS AND BOATING FACILITIES

### *Transportation, Facilities Used, and Distances Traveled*

The majority of freshwater and combination boaters routinely trailer or carry their boats on top of their cars when they go boating (82.7 and 83.6 percent respectively) (Table 9). In contrast, only 57.2 percent of the saltwater boaters transport their boats between uses, and 42.8 percent keep their boats where they are mostly used. This difference in behavior is consistent with the finding that saltwater boats are typically larger and used farther from home than freshwater boats.

Most boaters who trailer or carry their boats on car tops keep their boats at home during the boating season (Table 9). More than 90 percent of the freshwater and combination boats are kept at home, while only 4.9 percent are kept near the place where they are usually used. One-sixth of the saltwater boats, however, are kept near the site of use. Again, the explanation for this difference is that saltwater boats are larger and used farther from home.

Characteristics of Boats	Percent, by Type of Boater			
	Salt- water	Fresh- water	Combi- nation	All
<u>Purchased</u>				
New	35.6	47.9	48.1	46.6
Used	62.1	51.1	50.5	51.9
Home-made	2.1	1.0	1.4	1.5
(No. of responses)	(188)	(1,496)	(426)	(2,343)
<u>Length</u>				
Less than 12 ft.	1.0	2.8	1.3	2.4
12 - 15 ft.	19.4	49.5	23.1	42.0
16 - 19 ft.	40.3	37.4	47.9	39.3
20 - 23 ft.	19.4	5.1	18.7	9.0
24 - 40 ft.	18.9	4.9	8.4	6.9
41 - 60 ft.	--	0.2	0.7	0.1
61 - 98 ft.	0.5	0.1	--	0.1
Median Length	19.0	15.9	18.0	16.5
Average Length	18.4	15.3	17.6	16.0
(No. of responses)	(200)	(1,589)	(455)	(2,357)
<u>Power System</u>				
Motor propelled only:				
Outboard	49.8	71.8	55.2	66.8
Inboard/Outboard	30.8	14.9	31.2	19.0
Inboard	17.4	7.8	9.6	11.5
Sail:				
Sail with motor	1.0	2.4	3.3	2.6
Sail without motor	0.5	2.1	--	1.7
No motor or sail	--	0.2	--	0.2
(No. of responses)	(201)	(1,619)	(458)	(2,395)
<u>Horsepower</u>				
5 or less	1.7	12.5	3.1	10.4
6 - 10	6.9	23.1	10.6	19.6
11 - 24	6.9	9.5	8.9	9.4
25 - 49	19.0	12.8	13.4	13.3
50 - 74	11.2	12.7	14.0	12.5
75 - 99	3.4	5.8	6.8	5.9
100 or more	50.9	23.5	43.2	29.0
Median Horsepower	100.4	35.5	75.0	44.9
Average Horsepower	7.37	37.9	67.0	45.3
(No. of responses)	(116)	(1,037)	(292)	(1,516)
<u>Hull Material</u>				
Wood	30.5	12.0	13.2	14.1
Fiberglass	55.0	60.7	68.4	61.2
Metal	14.5	27.3	18.3	24.7
(No. of responses)	(200)	(1,592)	(453)	(2,360)

Table 6. Characteristics of Boats by Type of Boater

	Length of Boat (feet)				24 & up
	11 or less	12-15	16-19	20-23	
<u>Power System</u>	- - - - - percent - - - - -				
Outboard	98.1	93.8	61.0	30.7	11.2
Inboard/Outboard	--	0.6	29.9	58.0	25.1
Inboard	1.9	3.1	7.5	10.4	63.7
No motor	--	2.5	1.6	0.9	--
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<u>Horsepower</u>					
0 - 5	45.0	18.0	3.7	2.2	--
6 - 10	47.5	37.6	2.7	8.1	12.2
11 - 24	2.5	15.4	6.0	--	3.7
25 - 49	2.5	15.7	14.3	2.2	4.9
50 - 74	2.5	10.9	17.5	8.1	1.2
75 - 99	--	1.7	12.0	2.9	2.4
100 +	--	0.6	43.8	76.5	75.6
<b>Total</b>	<b>100.0</b>	<b>99.9<sup>a</sup></b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

<sup>a</sup> Total does not equal 100 because of rounding

Table 7. Power System and Engine Horsepower Used by All Boater Types by Length of Boat

Household Income	Estimated Value of Boat and Gear		Number of Responses
	Average	Median	
Under \$3,000	1,575	678	29
3,000 - 5,999	1,417	750	92
6,000 - 7,999	1,591	870	96
8,000 - 9,999	2,360	1,104	95
10,000 - 14,999	2,249	1,346	301
15,000 - 19,999	3,035	1,709	484
20,000 - 24,999	3,049	2,134	389
25,000 - 34,999	5,950	3,000	312
35,000 - 49,999	7,700	3,615	134
50,000 or more	10,816	4,400	96
All respondents	3,852	2,000	2,028

Table 8. Estimated Value of Boat and Gear, January 1978 by Household Income

	Percent, by Type of Boater			
	Salt- water	Fresh- water	Combi- nation	All
<u>How Boat Was Used in Season</u>				
Trailered (car top) and launched	57.2	82.7	83.6	80.4
Kept where mostly used	42.8	17.3	16.4	19.6
(No. of responses)	(201)	(1,619)	(458)	(2,395)
<u>Where Trailered Boats Were Kept in Season</u>				
At home	75.7	91.5	90.1	90.2
Near home	7.8	4.3	3.9	4.4
Near place of usual use	16.5	3.7	5.5	4.9
Elsewhere	--	0.6	0.5	0.5
(No. of responses)	(115)	(1,338)	(383)	(1,924)
<u>Where Trailered Boats Were Launched</u>				
Public ramp	82.6	89.9	81.9	87.8
Private ramp	15.7	6.4	9.9	7.6
Both	1.7	3.7	8.1	4.6
(No. of responses)	(115)	(1,332)	(382)	(1,905)
<u>Where Non-Trailered Boats Were Kept in Season</u>				
Wet Moorage:				
Marina	72.3	37.1	59.7	47.7
Yacht club	--	11.0	9.7	8.6
Private dock	8.4	33.8	20.8	26.3
Dry Moorage:				
Open	6.0	8.8	5.6	8.4
Covered	9.6	8.5	2.8	7.7
Other	3.6	0.7	1.4	1.3
(No. of responses)	(83)	(272)	(72)	(453)
	86	280	75	470

Table 9. Boat Use and Location in Season by Type of Boater

	Percent, by Type of Boater			
	Salt-water	Fresh-water	Combination	All
<u>Distance from Home to Usual Launching Location</u>				
Less than 5 miles	22.6	13.2	15.0	14.1
5 - 9 miles	6.1	12.6	10.5	11.5
10 - 19 miles	7.8	15.1	11.5	13.6
20 - 39 miles	0.9	15.7	8.0	13.1
40 - 69 miles	13.0	15.7	15.5	15.6
70 - 99 miles	27.0	9.0	15.3	11.5
100 - 149 miles	17.4	8.5	15.5	10.4
150 - 199 miles	1.7	5.2	5.6	5.3
200 - 299 miles	1.7	3.9	2.4	3.4
300 - 998 miles	1.7	1.1	0.5	1.4
Median miles	69.0	32.0	50.5	38.1
Average miles	66.6	53.4	59.7	57.8
(No. of responses)	(115)	(1,268)	(373)	(1,803)
<u>Distance from Home to Where Boat was Kept and Used</u>				
Less than 5 miles	23.5	37.4	24.0	31.7
5 - 9 miles	7.1	13.7	14.7	12.3
10 - 19 miles	1.2	20.5	9.3	15.1
20 - 39 miles	4.7	7.6	6.7	7.1
40 - 69 miles	9.4	7.6	6.7	7.5
70 - 99 miles	22.4	5.8	16.0	11.0
100 - 149 miles	24.7	5.4	22.7	12.1
150 - 199 miles	4.7	0.7	0	1.5
200 - 299 miles	1.2	0.4	0	0.9
300 - 998 miles	1.2	1.1	0	0.9
Median miles	75.5	10.7	27.0	14.3
Average miles	68.4	26.4	47.5	39.2
(No. of responses)	(86)	(278)	(75)	(464)

Table 10. Distance from Home to Usual Launching Location, or Where Boat was Kept and Used, by Type of Boater

Boaters use public ramps to launch trailered boats more often than private ramps (87.8 versus 7.6 percent respectively) (Table 9). Only 4.6 percent of all boaters use both public and private ramps. In addition, private ramps are relatively more popular with saltwater and combination boaters than with freshwater boaters.

Of the saltwater boaters who do not trailer their boats, 80.7 percent moor their boats in the water with the majority, 72.3 percent, kept at coastal marinas. Only 15.6 percent use dry moorage facilities. Of these, 6.0 percent use open facilities, and 9.6 covered facilities.

9.6 covered facilities.

Of the freshwater boaters who do not trailer their boats, 81.9 percent use wet moorage facilities with 37.1 percent saying they use marinas, 11.0 percent yacht club facilities and 33.8 percent private docks. Only 17.3 percent use dry moorage facilities.

Saltwater boaters report that they travel 69.0 miles (median value) to their usual launching location (Table 10). Freshwater boaters travel 32.0 miles and combination boaters 50.5 miles. Boaters who moor their boats also say that they travel farther than those who trailer and launch them.



*Activity and Extent of Boat Use*

The most popular activity among western Oregon boaters is fishing (Table 11). The average saltwater boater spent 28.8 days fishing in 1977, and only 2.7 days in other types of boating activities. Freshwater boaters are less specialized in their activities. They devoted an average of 16.3, 4.9 and 3.5 days to fishing, waterskiing and day cruising, respectively. The average combination boater spent almost as many days fishing as an average saltwater boater (25.7 days versus 28.8 days), but spent almost four times as many days in other types of boating activities (10.7 days versus 2.7 days).

On the average, all boaters in the survey spent 28.4 days boating in 1977 (Table 12-A). The median equalled 19.1 days. However, a very significant percentage of boaters in each category indicate that they spent six weeks or more boating. About 24 percent of saltwater boaters, 17.7 percent of those who boat on freshwater, and 25.1 percent of the combination boaters used their boats six weeks or more during that year.

Boaters who keep their boats where they use them spend about 125 percent more time boating than those who transport and launch their boats (Table 12-B). Median days of use are 37.5 days for those who moor their boats and 16.5 days for people who transport their boats each time they use them. Average days of use for people who moor their

boats is 51.2 days while just 23.0 days for people who launch their boats each time.

The extent of boating activity also varies considerably among residents in different areas of western Oregon (Table 12-C). Boaters who live in the Portland metropolitan area and the north-central coast (Astoria to Coos Bay) take advantage of their proximity to good waters. On the average, they boated 31.8 and 33.1 days respectively in 1977. In contrast, Willamette Valley and Ashland-Grants Pass-Roseburg residents spent just 23 to 25 days boating that year.

*Location of Boats in Winter*

Of the saltwater boats, 65.8 percent stored their boats at home during the winter (Table 13). Eighty percent of the freshwater boaters and 81.5 percent of the combination boaters also store their boats at home. Wet moorages and dry storage away from home are used almost twice as often by saltwater boaters than freshwater boaters (14.1 versus 7.2 percent and 15.6 versus 8.9 percent respectively). This is because saltwater boats are typically larger than freshwater boats.

The respondents were also asked how far from home, if at all, they keep their boat out-of-season (Table 13). Saltwater boaters tend to keep boats farther from home. This, of course, reflects the differences in how boaters keep boats in winter, boat size and the distances between the coast and major urban areas in western Oregon.

Activity	Average Days Per Year, by Type of Boater			
	Salt-water	Fresh-water	Combi-nation	All
Fishing	28.8	16.3	25.7	18.9
Waterskiing	0.3	4.9	3.2	4.1
Day cruising or sailing	0.4	3.5	3.0	3.0
Cruising (away at least one night)	0.6	1.4	2.5	1.6
Other	1.4	1.9	2.0	1.8
(No. of responses)	(192)	(1,597)	(455)	(2,340)

Table 11. Average Days Spent in Various Activities by Type of Boater

Days per Year	Percent, by Type of Boater			
	Salt-water	Fresh-water	Combination	All
Less than 7 days	22.7	20.7	8.4	19.8
7 - 13 days	12.4	18.8	17.8	17.8
14 - 20 days	14.6	16.4	14.8	15.7
21 - 27 days	7.0	9.8	13.5	10.1
28 - 34 days	11.9	9.1	11.4	9.7
35 - 41 days	7.0	7.6	8.9	7.7
42 - 55 days	7.0	6.6	9.3	7.0
56 or more days	17.3	11.1	15.8	12.4
Median days	20.8	18.0	25.1	19.1
Average days	32.9	26.9	34.3	28.4
(No. of responses)	(185)	(1,547)	(438)	(2,247)

Table 12-A. Extent of Boat Use by Type of Boater

Days per Year	Percent, by Manner of Use		
	Keep Boat Where Used	Trailer and Launch	All
Less than 7 days	7.7	22.6	19.8
7 - 13 days	7.9	20.1	17.8
14 - 20 days	10.7	16.9	15.7
21 - 27 days	6.8	10.8	10.1
28 - 34 days	12.4	9.0	9.7
35 - 41 days	10.3	7.1	7.7
42 - 55 days	12.4	5.7	7.0
56 or more days	31.8	7.8	12.4
Median days	37.5	16.5	19.1
Average days	51.2	23.0	28.4
(No. of responses)	(428)	(1,819)	(2,247)

Table 12-B. Extent of Boat Use by Manner of Use

Residence Areas	Average Days per Year	No. of Responses
Portland Metropolitan Area	31.8	894
Salem Metropolitan Area	23.8	166
Albany-Corvallis-Lebanon	22.8	128
Eugene	22.7	242
Ashland-Grants Pass-Roseburg	24.5	197
North and Central Coast	33.1	133
Brookings-Gold Beach	44.9	25
All Western Oregon	28.4	2,247

Table 12-C. Extent of Boat Use by Residence Area

Location and Distance from Home	Percent, by Type of Boater			
	Salt- water	Fresh- water	Combi- nation	All
<u>Location</u>				
Wet Moorage:				
Marina	11.6	3.3	6.2	4.7
Yacht Club	--	1.5	1.5	1.4
Private Dock	2.5	2.4	1.3	2.2
Dry Moorage:				
Open	--	1.1	0.7	1.0
Covered	4.5	2.7	1.8	2.8
Dry Storage:				
Open at home	19.6	27.0	25.7	26.3
Covered at home	46.2	53.0	55.8	52.4
Open away from home	4.0	1.9	1.1	2.0
Covered away from home	11.6	7.0	5.9	7.2
(No. of responses)	(199)	(1,600)	(455)	(2,360)
Distance From Home (miles)				
Zero (at home)	65.8	80.0	81.5	78.7
Under 5 (not at home)	10.2	7.7	4.3	7.2
5 - 9	3.0	3.3	4.4	3.6
10 - 19	3.5	4.5	3.9	4.2
20 - 39	3.0	1.1	2.4	1.6
40 - 69	1.5	1.2	1.3	1.3
70 - 99	7.0	0.8	1.3	1.5
100 -149	4.5	1.0	0.9	1.3
150 or more	1.5	0.4	--	0.6
(No. of responses)	(200)	(1,616)	(458)	(2,387)

Table 13. Location of Boat in Winter and Its Distance from Home by Type of Boat

IMPORTANCE OF SERVICES AND LEVEL OF SATISFACTION

Respondents were asked to describe the importance of different services available where they use their boats (Table 14). Approximately 80 percent of the boaters responded. Among all responding, a majority felt restrooms, fuel and oil supplies, and camping facilities are important. More than half of the saltwater and combination boaters also rated haul-out facilities, 24-hour security and marine supplies as very important. In contrast, a majority of freshwater boaters rate only the availability of groceries and snacks as also important.

About 60 percent of the responding boaters are satisfied with the services they receive or rate the services as not important (Table 15). Respondents' dissatisfaction

with particular services are similar among the three boater types. The five services most unsatisfactory are, in descending order of importance, moorage and dock facilities; engine repair services; storage facilities; insurance sales; and selling supplies.

Boaters are unhappy with presently available moorage, dock and storage facilities. What is surprising, however, is that most boaters say they can obtain the desired services. This suggests that the location and specific features of moorage and storage facilities, not their general availability, are the sources of most boater dissatisfaction.

Service, by Type of Boater	Percent of Respondents			
	Very Important	Important	Not Important	No Response
<u>Saltwater Boaters</u>				
Fuel and oil	48.8	24.4	19.4	7.5
Fresh water	22.4	19.9	42.3	15.4
Electricity	18.4	15.9	50.2	15.4
Ice	10.4	19.4	52.2	17.9
Restrooms	37.8	32.3	17.9	11.9
Marine supplies	23.9	34.3	29.4	12.4
Showers	7.0	10.0	62.7	20.4
Restaurant/coffee shop	10.0	24.4	49.3	16.4
24-hr. security	41.8	19.9	22.9	15.4
Social activities	5.0	7.0	70.1	17.9
Holding tank pump-out	8.0	10.0	63.2	18.9
Haul-out facilities	40.8	16.9	28.4	13.9
Equipment lockers	1.0	6.5	73.1	19.4
Camping facilities	18.9	15.4	50.7	14.9
Hotel/motel	3.0	8.5	71.6	16.9
Groceries and snacks	18.9	29.9	18.4	14.4
<u>Freshwater Boaters</u>				
Fuel and oil	27.1	21.3	37.4	14.2
Fresh water	17.5	16.1	47.9	18.4
Electricity	6.2	6.5	65.4	22.0
Ice	7.0	16.4	55.2	21.5
Restrooms	34.3	28.2	24.6	12.9
Marine supplies	7.5	20.1	52.6	19.8
Showers	3.5	8.6	66.1	21.8
Restaurant/coffee shop	5.4	15.3	59.5	19.8
24-hr. security	21.7	14.3	44.2	19.7

Table 14. Importance of Service Availability Where Boat is Used by Type of Boat

Service, by Type of Boater	Percent of Respondents			
	Very Important	Important	Not Important	No Response
Social activities	2.3	5.9	69.8	22.0
Holding tank pump-out	6.4	7.3	64.3	22.1
Haul-out facilities	18.9	14.6	46.4	20.1
Equipment lockers	1.4	3.7	72.1	22.8
Camping facilities	30.9	20.7	32.8	15.5
Hotel/motel	2.3	6.2	69.1	22.4
Groceries and snacks	11.9	30.3	38.5	19.2
<u>Combination Boaters</u>				
Fuel and oil	35.4	25.8	30.6	8.3
Fresh water	17.7	20.7	48.5	13.1
Electricity	8.5	9.8	65.7	15.7
Ice	9.8	24.0	49.3	16.8
Restrooms	41.3	31.4	18.8	8.5
Marine supplies	12.9	32.1	41.7	13.3
Showers	5.0	11.6	66.6	16.8
Restaurant/coffee shop	9.6	20.5	56.1	13.8
24-hr. security	29.5	20.7	36.0	13.7
Social activities	2.2	6.3	74.2	17.2
Holding tank pump-out	6.8	12.9	64.2	16.2
Haul-out facilities	33.2	18.3	36.0	12.4
Equipment lockers	2.0	3.7	77.1	17.2
Camping facilities	31.9	23.8	30.3	13.9
Hotel/motel	4.4	10.5	66.8	18.3
Groceries and snacks	16.6	33.8	34.9	14.6
<u>All Boaters</u>				
Fuel and oil	30.5	22.2	34.5	12.6
Fresh water	17.7	17.2	47.6	17.3
Electricity	7.6	8.0	64.0	20.4
Ice	7.8	18.2	53.4	20.5
Restrooms	35.9	29.0	23.0	11.7
Marine supplies	9.9	23.5	48.4	18.1
Showers	4.1	9.2	65.5	20.9
Restaurant/coffee shop	6.7	16.6	58.2	18.4
24-hr. security	24.6	16.2	40.8	18.1
Social activities	2.5	6.1	70.4	21.0
Holding tank pump-out	6.4	8.5	64.0	20.9
Haul-out facilities	23.4	15.4	42.8	18.0
Equipment lockers	1.4	3.9	72.8	21.8
Camping facilities	29.7	20.6	34.0	14.9
Hotel/motel	2.9	7.0	68.6	21.4
Groceries and snacks	13.2	30.9	37.8	18.0

Table 14. Continued

Service, by Type of Boater	Percent of Respondents				
	Satisfied	Not Satisfied	Can't Get Service	Not Important	No Response
<u>Saltwater Boaters</u>					
Repairs to hulls	28.4	3.0	3.5	33.8	31.3
Repairs to engines	44.8	15.9	2.0	19.4	17.9
Brokerage	9.0	5.5	--	48.3	37.3
Charters-rentals	19.4	4.0	--	48.8	27.9
Insurance sales	31.3	12.9	1.5	29.4	24.9
Boat or motor sales	38.3	4.5	2.0	29.4	25.9
Moorage-dock facilities	45.8	24.4	1.5	13.4	14.9
Selling supplies	39.8	7.0	1.0	26.9	25.4
Storage facilities	23.9	11.9	1.0	36.3	26.9
<u>Freshwater Boaters</u>					
Repairs to hulls	21.6	3.4	1.4	42.6	30.9
Repairs to engines	47.4	9.0	1.7	20.9	21.1
Brokerage	11.4	2.2	0.4	50.6	35.5
Charters-rentals	17.3	4.1	0.5	46.8	31.4
Insurance sales	37.9	5.9	0.7	29.0	26.4
Boat or motor sales	41.0	4.1	0.8	27.1	27.0
Moorage-dock facilities	34.4	15.8	1.6	24.1	24.1
Selling supplies	38.5	7.0	0.9	27.2	26.4
Storage facilities	14.8	7.5	1.2	45.1	31.4
<u>Combination Boaters</u>					
Repairs to hulls	27.9	6.1	1.1	38.0	26.9
Repairs to engines	51.7	15.7	3.3	13.8	15.5
Brokerage	13.8	4.6	0.9	50.0	30.8
Charters-rentals	25.5	4.8	1.3	43.9	24.4
Insurance sales	44.3	11.3	2.0	23.6	18.7
Boat or motor sales	49.8	6.8	0.2	23.4	19.9
Moorage-dock facilities	39.5	24.5	4.4	16.4	15.3
Selling supplies	47.8	8.5	0.7	22.5	20.5
Storage facilities	19.7	15.5	1.7	41.0	22.1
<u>All Boaters</u>					
Repairs to hulls	23.5	4.0	1.5	40.5	30.4
Repairs to engines	47.4	10.9	2.0	19.5	19.4
Brokerage	11.4	3.0	0.5	49.9	35.2
Charters-rentals	19.2	4.1	0.6	45.9	30.1
Insurance sales	38.0	7.4	1.1	28.1	25.0
Boat or motor sales	41.8	4.9	0.8	26.6	25.8
Moorage-dock facilities	36.0	18.0	2.1	21.8	21.8
Selling supplies	39.9	7.4	0.8	26.3	25.3
Storage facilities	16.5	9.5	1.3	43.0	29.4

Table 15. Degree of Satisfaction with Available Services by Type of Boater

## BOATERS' EXPENSES

Boaters listed expenses associated with owning and using their boats during 1977 (Table 16). The average for all boaters in the survey is \$458, but when broken down by boater category, expenses vary considerably. Saltwater boaters report spending \$927 on the average in 1977, freshwater boaters \$334, and combination boaters \$695.

Average expenditures for 1977 are not as revealing as median expenditures because of the large amount of money that a relatively small number of boaters spent. These few boaters inflated the average for all boaters.

The median annual expenditures in 1977 for saltwater boaters was \$408, \$204 for freshwater boaters, \$293 for combination boaters, and \$211 for all boaters (Table 16).

Saltwater boaters tend to have higher expenditures than other boaters (Table 17). Sixty-eight percent of freshwater boaters report spending less than \$300 annually, while only 42.3 percent of the saltwater boaters report this. Moreover, a large percent of saltwater boaters (31.7 percent) spent \$750 or more boating in 1977 while just 10.2 percent of the freshwater boaters report spending this amount.

Results of Table 18 showed that total annual expenditures in 1977 tended to increase as boaters' household incomes increased, and the value of their boats and gear increased. Annual fuel and oil expenditures also increase as household income increases (Table 19).

Not unexpectedly, expenses are highest in the boating season (Table 20). Pre-season and out-of-season expenses are surprisingly large, however, when compared to the major categories of operating expenses such as dockage, repairs or fuel. Because the number of responses obtained in each cost category is often low, average and median expenses are presented in each category to indicate the magnitude of the expense item. Conclusions should be drawn very cautiously from the data in Table 20.

Annual expenditures by western Oregon boaters were substantial in 1977. If the reported median total expenditures of all boaters on Table 16 (\$211) is multiplied by the estimated number of boaters in western Oregon in 1977 (107,000), total expenditures equal about \$22.6 million. Statewide, boating expenditures in 1977 were therefore about \$25 to \$27 million.

Type of Boater	Average (Mean)	Median	Range	Number of Responses
Saltwater	\$927	\$408	\$5- 11,994	189
Freshwater	334	204	1- 10,353	1,475
Combination	695	293	5- 12,704	431
All	458	211	1- 12,704	2,164

Table 16. Total Annual Boating Expenses by Type of Boater

Amount Spent (dollars)	Type of Boater (percent)			
	Salt- water	Fresh- water	Combi- nation	All
24 or less	5.8	14.6	4.6	12.1
25 - 99	15.9	24.7	16.0	22.2
100 - 299	20.6	28.7	30.4	28.2
300 - 499	14.3	13.7	14.4	13.8
500 - 749	11.6	8.0	12.8	9.2
750 or more	31.7	10.2	21.8	14.5
(No. of responses)	(189)	(1,475)	(431)	(2,164)

Table 17. Total Annual Boating Expenses by Type of Boater and Level of Expenditure

	Average Annual Expenses	Median Annual Expenses	Number of Responses
<u>Household Income</u>			
Under \$3,000	\$ 218	\$ 100	26
3,000 - 5,999	319	73	83
6,000 - 7,999	274	140	97
8,000 - 9,999	444	141	97
10,000 - 14,999	308	161	301
15,000 - 19,999	435	198	479
20,000 - 24,999	350	228	381
25,000 - 34,999	607	290	304
35,000 - 49,999	773	368	131
50,000 or more	1,340	593	91
			1,990
<u>Value of Boat and Gear</u>			
Under \$500	54	34	317
500 - 999	128	82	378
1,000 - 1,499	181	136	228
1,500 - 2,499	328	226	270
2,500 - 3,499	399	297	234
3,500 - 4,999	433	349	198
5,000 - 7,499	709	479	189
7,500 - 12,499	1,154	1,012	131
12,500 - 24,999	2,075	4,933	65
25,000 or more	3,545	6,583	44
			2,058

Table 18. Total Annual Boating Expenses for All Classes of Boaters by Household Income and Estimated Value of Boat and Gear

	Average Annual Expenses	Median Annual Expenses	Number of Responses
Under \$3,000	57	47	24
3,000 - 5,999	50	29	81
6,000 - 7,999	61	51	95
8,000 - 9,999	78	52	85
10,000 - 14,999	77	52	284
15,000 - 19,999	84	57	453
20,000 - 24,999	95	74	357
25,000 - 34,999	122	75	289
35,000 - 49,999	141	85	125
50,000 or more	233	188	86
			1,876

Table 19. Total Annual Fuel and Oil Expense for All Boaters by Household Income Group



Item		Type of Boater			
		Salt-water	Fresh-water	Combination	All
<u>Pre-Season Expenses</u>					
Fitting out, paints, etc.	Average (\$)	258	100	180	137
	Median (\$)	93	41	43	48
	No. of responses	104	577	226	933
New things for boat	Average (\$)	492	131	311	209
	Median (\$)	181	60	97	77
	No. of responses	108	724	270	1,130
<u>Boating Season Expenses</u>					
Dockage or moorage	Average (\$)	135	121	111	123
	Median (\$)	154	56	58	70
	No. of responses	125	442	246	832
Repairs and maintenance	Average (\$)	231	97	154	127
	Median (\$)	118	62	107	79
	No. of responses	105	547	230	911
Fuel and oil	Average (\$)	135	82	125	96
	Median (\$)	117	57	97	65
	No. of responses	165	1,384	432	2,035
Other supplies	Average (\$)	68	26	39	33
	Median (\$)	31	24	28	25
	No. of responses	60	517	205	799
Miscellaneous	Average (\$)	112	54	60	61
	Median (\$)	54	32	39	35
	No. of responses	48	334	129	525
<u>Out-of-Season Expenses</u>					
Decommissioning	Average (\$)	35	22	33	27
	Median (\$)	46	28	27	29
	No. of responses	40	189	85	323
Winter storage	Average (\$)	100	97	107	102
	Median (\$)	93	18	78	81
	No. of responses	25	86	30	147
Insurance	Average (\$)	173	93	123	107
	Median (\$)	151	85	114	95
	No. of responses	104	822	313	1,273
Other	Average (\$)	40	22	24	24
	Median (\$)				
	No. of responses	21	210	42	293

Table 20. Itemized Boating Expenses by Type of Boater

# A Survey of Oregon Boaters



Oregon State University  
Corvallis

November 1977

Dear Boater,

Concern has been expressed lately about what Oregon boaters think is right or wrong about boating in the state and how boating can be improved. In order to provide information that is important to all Oregon boaters, we are asking you to take a few minutes to complete the questionnaire in this booklet.

There are not enough funds to contact all boaters so only a few have been selected. Your name was chosen by scientific methods and your response is a vital part of our cross-section. There is no way we can substitute for the answers only you, yourself, can give us.

We would like to receive your questionnaire as soon as possible. Just drop it in the mail after you have answered the questions. No stamp is necessary.

A final note. You will see that your questionnaire is numbered. This serves as a way by which reminders may be sent, if necessary, without further imposing on those who have completed and returned their questionnaire. I assure you that the information we gather will be used only for statistical summaries of all Oregon boaters and in no way will your responses be linked to your name. The Survey Research Center at the University will process the questionnaires and help in tabulating the results.

Thank you for your courtesy and help.

Very truly yours,

R. Charles Vars  
Professor of Economics

**OREGON STATE UNIVERSITY BOATING SURVEY**

1. Please describe the size and type of your boat and motor. (It's registration or documentation number is printed next to your address on the envelope.) Also indicate when the boat was purchased, if it was bought new or used, and whether or not it has a sail.

TYPE (Check one)

Inboard      Outboard      I/O

MOTOR.....

FUEL (Check one)

Gas      Diesel      Horsepower

MOTOR.....

Length      HULL MATERIAL (Ck one)  
(in feet)      Wood      Fiberglass      Metal

BOAT.....

When bought      SAIL?  
Mo./Yr.      New      Used      Yes      No

BOAT.....

2. Do you happen to own any other boats?

..... Yes (GO ON TO Q. 2a)

..... No (SKIP TO Q. 3)

2a. Please list the length and type of any other boats you may own.

Length ..... ft.      Type .....

Length ..... ft.      Type .....

3. Do you trailer your boat between uses during the boating season, or do you keep your boat where you mostly use it?

..... Trailer and launch own boat (GO ON TO Q. 4)

..... Keep where mostly used (SKIP TO Q. 7)

4. Do you keep your boat trailered between uses at home, near home, or near the place you usually use it?

..... At home      ..... Near place of usual use

..... Near home      ..... Elsewhere (Describe .....

3

5. Near which town and body of water do you usually launch your boat?

..... Town      ..... Body of water

6. Do you usually launch your boat at a public ramp or a private ramp?

..... Public ramp

..... Private ramp

6a. About how many miles one way is this ramp from your home and from the place where you keep your boat between uses?

..... Miles from home

..... Miles from place kept between uses

(PLEASE SKIP NOW TO QUESTION 8)

7. If you use your boat where it is kept, please describe this location during the summer, the distance it is from your home, one way, and the type of mooring.

..... Location (near what town)

..... Miles from home, one way

Description of How Boat is Kept (Check one)

Wet Moorage		Dry Moorage		
Yacht	Private	Cov-	Other	
Marina	club	dock	Open	ered (describe)

8. And, where do you keep your boat in the winter?

..... Location (near what town)

..... Miles from home, one way

Description of How Boat is Kept (Check one)

Wet Moorage		Dry Moorage		
Yacht	Private	Open	Covered	
Marina	club	dock	Open	Covered

Dry Storage

At Home		Away from Home	
Open	Covered	Open	Covered

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The Oregon boater survey questionnaire cont.

9. What things do you *like* about the place and the way in which you keep your boat?

10. And, what are some of the things you *dislike* about the place and the way in which you keep your boat?

11. In the table below, please indicate the names of the bodies of water and the total number of days where you used the boat you listed in question 1 above, during the past boating season. Also indicate the distances from your home *one way* to the sites where you used the boat.

Name of river, lake, etc.	Total days of boating	Miles to site from home
1.		
2.		
3.		
ALL OTHERS		

12. Please estimate the total number of days you spent this past year on each of the following boating activities. Count each part day spent on a particular boating activity as a *full day* for that activity.

ACTIVITY	Number of days
a. Fishing (including going to and from fishing area) .....	.....
b. Day sailing or going for picnic or swim .....	.....
c. Racing .....	.....
d. Water skiing .....	.....
e. Cruising (away from home base at least one night) .....	.....
f. Other (Describe .....) .....	.....
g. Other (Describe .....) .....	.....

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13. How many people usually went with you on your boating trips this year?  
..... Number of persons per trip

14. How many hours did you spend on the water for a typical boating trip this year?  
..... Hours

15. What is the shortest length of time you would consider worth your while to spend on the water for a one-day boating trip?  
..... Hours

15a. And, how many miles would you travel one way by land for this one-day trip?  
..... Miles

16. Please list your expenses associated with owning and using your boat during the past year—making it ready last spring, using it during the boating season, and hauling and storing for the fall and winter. Include expenses you had during the past year even if they do not occur every year.

ITEM	AMOUNT
a. Fitting out, paints, replacements .....	\$ .....
b. New things for the boat .....	\$ .....
c. Dockage or mooring costs .....	\$ .....
d. Repairs and paid maintenance .....	\$ .....
e. Fuel and oil .....	\$ .....
f. Other supplies (ice, cleaners, etc.) .....	\$ .....
g. Miscellaneous .....	\$ .....
h. Winter storage .....	\$ .....
i. Decommissioning and winterizing .....	\$ .....
j. Insurance .....	\$ .....
k. Other (Describe .....) .....	\$ .....

17. About how much do you think you could get for your boat and gear if you were to sell them within a couple of months of advertising them this winter?  
\$ .....

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18. Please indicate the location and distance from home for moorage and storage sites for your boat that would be ideal for you.

	Distance from home of ideal location (Miles)
<i>IDEAL LOCATION</i>	
Moorage .....	
Storage .....	

18a. What do you especially like about the ideal moorage location you listed above?

18b. And, what do you especially like about the ideal storage location you listed above?

19. What is the most you would be willing to pay to moor or store your boat at the ideal locations you listed above in question 18?

Maximum moorage rate for ideal site \$..... per boat-foot per month

Maximum storage rate for ideal site \$..... per month

20. How many years, altogether, have you owned a boat?  
..... Years

21. Please indicate whether or not you have ever taken a boating course from any of the organizations listed below. (Check all that apply.)

<i>Organization</i>	<i>Yes</i>	<i>No</i>
a. The Power Squadron .....	.....	.....
b. The Coast Guard Auxiliary .....	.....	.....
c. The Red Cross .....	.....	.....
d. Other (Specify) .....	.....	.....

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22. Do you plan to have the same type and size boat 5 years from now, the same type but larger or do you plan to have a different type and size? (If different type than now, please indicate the type, the size, and your reason.)

..... Same type and size as now  
 ..... Same type as now but larger  
 ..... Different type . . .

Type ..... Size ..... Ft.  
 Reason .....

23. Near what city or town do you live?  
..... City or town

23a. And, how many years have you lived in or near this city or town?  
..... Years

24. Was your interest in boating an important reason in deciding where to live, or not?

- ..... Yes, very important  
 ..... Yes, somewhat important  
 ..... Not too important  
 ..... Not at all important

25. Please circle the number that best describes the importance to you of services available where you use your boat. (Circle one number on each line.)

<i>Service</i>	Very impor- tant	Impor- tant	Not impor- tant
a. Fuel and oil .....	3	2	1
b. Fresh water (dockside) .....	3	2	1
c. Electricity (dockside) .....	3	2	1
d. Ice .....	3	2	1
e. Restrooms .....	3	2	1
f. Marine supplies .....	3	2	1
g. Showers .....	3	2	1
h. Restaurant/coffee shop .....	3	2	1
i. 24-hour security .....	3	2	1
j. Social activities .....	3	2	1
k. Holding tank pump-out .....	3	2	1
l. Haul-out facilities .....	3	2	1
m. Equipment lockers .....	3	2	1
n. Camping facilities .....	3	2	1
o. Hotel/motel .....	3	2	1
p. Groceries and snacks .....	3	2	1
q. Other (Specify) .....	3	2	1
.....	3	2	1

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The Oregon boater survey questionnaire cont.

26. Please circle the number that best describes your feeling about the boating services you have received in Oregon. (Circle one number on each line.)

	Satis- fied	Not satis- fied	Can't get service	Not impor- tant
a. Repairs to hulls	4	3	2	1
b. Repairs to engines	4	3	2	1
c. Brokerage	4	3	2	1
d. Boat charters and/ or rental	4	3	2	1
e. Insurance sales	4	3	2	1
f. Boat or motor sales	4	3	2	1
g. Moorage or docking facilities	4	3	2	1
h. Selling supplies	4	3	2	1
i. Storage facilities	4	3	2	1

27. How often do members of your immediate family go with you on your boating trips—very often, quite often, not too often or never?

- ..... Very often (GO ON TO Q. 27a)
- ..... Quite often (GO ON TO Q. 27a)
- ..... Not too often (GO ON TO Q. 27a)
- ..... Never (SKIP TO Q. 28)

27a. When these members of your family go with you on your boating trips do they usually go out in the boat with you or do they do something else?

- ..... Go boating with me (SKIP TO Q. 28)
- ..... Do something else (GO ON TO Q. 27b)

27b. What is it that they do?

27c. Do these non-boating activities of your family influence where you use your boat?

- ..... Yes
- ..... No

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28. What is your age? .....

29. And, what is your sex? ..... Male  
..... Female

30. Are you married or single? ..... Married  
..... Single

31. Please indicate how many persons are presently living in your household in each of the categories below.

	Number of persons
a. Under 10 years	.....
b. 10 to 20 years	.....
c. 21 years or over	.....

32. What is the occupation of the chief breadwinner of your household? (Please indicate the type of work and general industry.)

..... Type  
..... Industry  
..... Retired (Please give last job.)

33. Please indicate your best estimate of your total household income before taxes for 1977.

..... Under \$3,000	..... \$15,000 - \$19,999
..... \$3,000 - \$5,999	..... \$20,000 - \$24,999
..... \$6,000 - \$7,999	..... \$25,000 - \$34,999
..... \$8,000 - \$9,999	..... \$35,000 - \$49,999
..... \$10,000 - \$14,999	..... \$50,000 or more

34. Is there anything else you would like to say about boating in Oregon.

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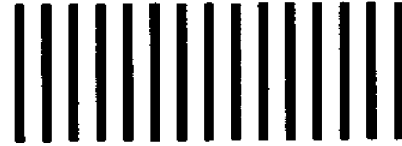
Please check below if you would like to receive a summary of the results of this survey.

..... Send summary

**THANK YOU FOR YOUR COOPERATION!** Please drop this questionnaire in the mail. No envelope or stamp is necessary.

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The Oregon boater survey questionnaire cont.