

The 2001 survey asked a number of questions about boaters' experiences and their opinions relating to certain problems and conditions. Boaters were asked to relate their answers to the waterbody they used most often. Responses help to identify where problems may exist around the state and provide an overall assessment of boating conditions.

Questions were grouped in the questionnaire according to categories - boating law enforcement, boating safety, boating facilities, and a separate question relating to boat and outboard engine theft. Using information provided by answers to these questions, the Marine Board can target its efforts and refine its programs.

Information about boaters' encounters with certain boating conditions, safety problems, and their opinion of facilities are presented in this chapter.

4.1 Problems and Conditions Statewide

A perceived lack of compliance with boating laws and issues with law enforcement continue to concern boaters. In fact, the top five problems and conditions reported by boaters are related to enforcement issues. See Table 4-1.

Speed appears to be a factor in the top three law enforcement problems, although judging boat speed is a subjective act and it is difficult to know whether the reported incidents were, in fact, violations of existing regulations. Still, it is likely that many boaters who responded have had some exposure to boats that at least appeared to be going too fast.

Overall, reports of law enforcement problems are below the levels reported in 1998, with every category down by over ten percentage points. The largest drop occurred in the "Boat operators obviously intoxicated" category, which ranked 7th in 1998, reported by 39 percent of boaters.

Table 4-1: Boaters' Experiences and Opinions of Problems and Conditions

Rank	Category	Problem or Condition	Percent Yes
1	LAW	Violations of no-wake zones	54.4
2	LAW	Violations of speed limits	49.2
3	LAW	Careless or reckless boaters	49.1
4	LAW	Excessive boat noise	39.9
5	LAW	Not enough boating law enforcement	37.9
6	FAC	Lack of short-term tie-ups	37.0
7	FAC	Not enough parking for boat trailers	30.9
8	FAC	Long delays to use the ramp	25.0
9	FAC	Not enough launch lanes	24.8
10	SAFE	Near collision with floating hazards	24.5
11	FAC	Not enough boarding floats	23.4
12	LAW	Boat operators obviously intoxicated	22.4
13	FAC	Lack of adequate restrooms	18.2
14	FAC	Lack of maintenance at launch site	18.1
15	FAC	Entrance or use fee too high	13.2
16	SAFE	Near collision with with fixed hazards	12.1
17	FAC	Lack of sewage pump-outs	11.2
18	SAFE	Near collision with boats or people	10.3
19	SAFE	Conflicts or disagreements with other boaters	10.3
20	SAFE	Collision with a floating hazard	8.3
21	SAFE	Collision with a fixed hazard	6.5
22	SAFE	Conflicts or disagreements with non-boaters	5.2
23	SAFE	Collision involving another boat	2.0
24	LAW	Had outboard motor stolen in last 3 years	1.7
25	SAFE	Accident causing over \$2,000 damage	1.5
26	LAW	Had boat stolen in last three years	0.9
27	SAFE	Accident causing injuries needing treatment	0.5



This across-the-board drop in the percentage of boaters experiencing law enforcement-related problems may be attributable to increased efforts on the part of the Marine Board and its enforcement partners, county sheriffs and the Oregon State Police. Over the years, the amount of state and federal funding for equipment and patrols has increased and number of officers in the field has grown steadily. In addition, targeted efforts to increase compliance with alcohol laws, in particular, may be paying dividends.

As a category, boating facilities is the second most frequently cited problem experienced by boaters. Four facility-related problems ranked among the

top ten problems statewide, each mentioned by at least a fourth of the boaters who responded. A lack of short-term tie-ups is the top facility deficiency reported by 37 percent of boaters, followed by a shortage of parking space for boat trailers, cited by 31 percent. Long delays at launch ramps and not enough launch lanes were reported by one-fourth of boaters who responded.

The condition of boating facilities in general, has improved somewhat in the view of boaters. The percentage of boaters who experienced a problem with a facility is slightly lower or at least the same for all facilities questions in comparison with 1998 results. Delays at launch ramps remained virtually unchanged - 25 percent of boaters - but elevated from 11th to 8th in rank among all boating problems.



Only one question about boating safety ranked among the top ten boating problems statewide. Almost a fourth of all boaters who responded say they had near collisions with floating hazards, up significantly from 1998 when only 19 percent cited this problem. Near collisions with fixed hazards and collisions with floating and fixed hazards were also up in 2001 over 1998 even though they still fall below law enforcement and facilities problems in ranking. The higher incidence reported may be another instance of the impacts of low water conditions related to the drought.

Compared with results from the prior triennial survey, boaters feel that conditions related to law enforcement and facilities have improved statewide, while some safety-related conditions were worse.

Interestingly, other safety problems appear to be down from the 1998 results. Reports of collisions with other boats and accidents involving damage or injury were lower in 2001 than they were in 1998, as were conflicts and disagreements with boaters and non-boaters. Based on survey responses, an estimated 2,433 boats were involved in collisions with other boats and 1,834 boats statewide experienced accidents where damage exceeded \$2,000, which is the state threshold for mandatory reporting of accidents.

There were an estimated 561 accidents where a person was injured and required medical attention, also a criteria of mandatory accident reporting. During the time period covered by the survey, the Board received only 15 accident reports where injuries were involved, indicating that the vast majority of accidents that are required to be reported are never reported.

4.2 Boaters' Experiences with Theft

Boat and engine theft is a growing problem nationwide. To better understand the magnitude of the problem in Oregon, the Board added several questions to the survey. Rather than limit the scope of the questions to the time period covered by the survey (October 1, 2000 through September 30, 2001), the questionnaire requested responses based on boaters' experiences over the "past three years."

Altogether, 1,528 boaters reported having a boat stolen, amounting to less than one percent of all owners of registered boats. Nearly three-fourths (73 percent) of stolen boats were reported to the authorities, primarily to local police (44 percent) and sheriffs (34 percent).

Far more boaters had an outboard motor stolen during the same time period. An estimated 2,979 incidents of engine theft occurred, according to responses received. This represents under two percent of all owners of registered boats. A higher percentage of boaters (85 percent) indicated they reported the stolen engine to the authorities. Again, local authorities received nearly all of the reports (local police 47 percent and county sheriffs 39 percent.)

Without prior survey results to compare these responses with, it is difficult to know if theft is on the rise. However, the raw estimate of boats and engines reported stolen indicates that theft should be a concern to the Board and local law enforcement officials. Now that a baseline statistic has been established, future surveys can be used to track this issue.

Only 1.5% of boaters who responded were involved in a reportable boating accident (damage over \$2,000 to a boat or boats) and less than .5% experienced any injury needing medical treatment.

Personal watercraft are a frequent target of boat theft because they are small and easily trailered.



4.3 Experiences and Opinions by Waterbody

Because the questionnaire asked boaters about their experiences and opinions of various problems and conditions at the waterbodies they used most, it is possible to report their responses by individual waterbodies around the state. Results are presented below under the three major categories of problems and conditions: law enforcement, facilities, and safety.

For the purposes of this report, the analysis of responses was limited to major waterbodies only based on total boat use days. The criteria used was a minimum of 10,000 total boat use days, which includes all waterbodies ranked among the top 49 statewide.

Law Enforcement Problems and Conditions

Boaters were presented with six questions about their experiences relating to specified problems and conditions associated with law enforcement efforts at the waterbody they used most. (See Appendix A.) Possible responses included Never, Some Trips, Most Trips, and Always. To assess overall conditions for a waterbody, responses of Some Trips, Most Trips, and Always are combined in this report to yield a response equivalent to a “Yes” with the Never response serving as a “No”.

Table 4-2 shows major waterbodies, in rank order based on an average of “Yes” responses across all six questions. The waterbodies with the highest percentage of boaters who said they experienced the six problems or conditions are a near equal mix of lakes and rivers. The Willamette River, the second most used waterbody in the state is ranked ninth and Lake Billy Chinook, the most popular lake in the state is eighth.

Top ten waterbodies for each of the six law enforcement problems or conditions are listed below.

Boat operators that are obviously intoxicated.

South Tenmile Lake 51.7, Fall Creek Reservoir 50.7, Detroit Lake 42.7, Nestucca River 38.8, Lake Billy Chinook 36.6, Rogue River 34.1, Triangle Lake 34.0, Foster Reservoir 34.0, Willamette River 32.5, Lake Simtustus 31.7.

Excessive boat noise.

Cottage Grove Reservoir 78.3, Triangle Lake 77.4, Fall Creek Reservoir 73.5, Dexter Reservoir 63.6, Prineville Reservoir 58.4, Emigrant Lake 58.3, Lake Billy Chinook 36.6, Alsea River 52.6, Willamette River 52.2, South Tenmile Lake 52.0.

Violations of speed limits.

Lake Simtustus 87.1, Triangle Lake 79.6, Nehalem Bay 79.5, Siuslaw River 77.4, Chetco Bay/River 75.1, Paulina Lake 74.3, Multnomah Channel 72.9, Crane Prairie Reservoir 70.6, Siletz River 68.3, Foster Reservoir 66.3.

Major waterbodies where boaters experienced the most law enforcement problems are dispersed throughout the state and are a mix of rivers and lakes.

Table 4-2: Law Enforcement Problems by Waterbody (Ranked by Average)

Use Days	Rank	Waterbody	a. Intox	b. Noise	c. Speed	d. Wake	e. Careless	f. More LE	Average
23,193	1	Triangle Lake	34.0	77.4	79.6	83.1	65.3	65.3	67.4
29,130	2	Nehalem Bay	28.5	51.8	79.5	78.9	83.6	71.7	65.6
20,973	3	Siuslaw River	10.6	38.2	77.4	92.4	72.3	69.3	60.0
15,966	4	Lake Simtustus	31.7	42.2	87.1	79.0	58.3	52.4	58.4
54,201	5	South Tenmile Lake	51.7	52.0	56.8	74.4	65.4	47.6	58.0
13,101	6	Cottage Grove Reservoir	26.2	78.3	47.0	47.9	99.1	47.9	57.8
50,278	7	Multnomah Channel	29.3	44.2	72.9	79.4	62.9	49.9	56.4
58,568	8	Lake Billy Chinook	36.6	55.7	60.0	62.1	65.3	51.3	55.2
374,410	9	Willamette River	32.5	52.2	57.2	65.9	67.9	50.5	54.4
19,251	10	Fall Creek Reservoir	50.5	73.5	60.7	50.9	45.7	40.3	53.6
18,683	11	Scoggins Reservoir/Henry Hagg Lake	17.9	43.5	61.5	69.9	75.6	49.4	52.9
24,031	12	Foster Reservoir	34.0	50.7	66.3	70.6	57.8	38.2	52.9
552,744	13	Columbia River	26.7	46.9	55.2	65.4	63.7	49.5	51.2
12,189	14	Detroit Reservoir/Lake	42.7	46.7	54.1	62.4	54.1	40.3	50.1
12,843	15	Nestucca River	38.8	37.9	58.2	58.2	51.6	51.0	49.3
10,153	16	Emigrant Lake	12.7	58.3	55.6	59.6	69.7	33.8	48.3
20,468	17	Prineville Reservoir	20.5	58.4	53.6	60.0	61.2	35.3	48.1
19,675	18	Umpqua River - N. Fork	31.5	30.9	57.1	78.0	51.5	38.0	47.8
13,150	19	Chetco Bay (Chetco River)	5.0	24.9	75.1	64.0	60.9	55.9	47.6
14,959	20	Snake River	21.9	44.6	61.2	67.5	47.1	41.0	47.2
10,385	21	Dexter Reservoir	-	63.6	63.6	63.6	45.5	45.5	47.0
32,212	22	Coos Bay	15.4	39.0	57.1	56.4	56.3	49.8	45.6
28,639	23	Siletz River	10.6	23.9	68.3	75.7	35.4	53.6	44.6
24,502	24	Howard Prairie Reservoir	26.6	50.1	56.3	42.9	37.0	49.0	43.7
17,571	25	Devils Lake (Lincoln)	17.6	50.3	38.2	54.8	54.2	42.0	42.8
10,863	26	Clackamas River	-	45.4	59.1	59.1	55.0	36.7	42.5
10,825	27	Alsea River	8.7	52.6	57.7	73.0	30.8	31.2	42.3
23,454	28	Wickiup Reservoir	15.7	47.9	51.8	55.8	40.4	32.1	40.6
17,879	29	Crane Prairie Reservoir	17.0	35.1	70.6	52.5	24.0	38.2	39.6
25,546	30	Brownlee Reservoir	22.4	36.1	37.7	54.2	48.7	37.4	39.4
26,733	31	Green Peter Reservoir	19.6	51.9	44.0	46.0	46.4	23.6	38.6
22,688	32	Lake of the Woods	24.7	47.9	38.2	50.3	34.3	35.4	38.5
15,876	33	Paulina Lake	19.5	30.6	74.3	52.3	36.4	14.7	37.9
10,838	34	East Lake	26.9	24.0	43.1	46.4	38.2	45.2	37.3
57,366	35	Tillamook River/ Bay	18.4	20.0	42.3	53.7	49.9	38.7	37.2
70,689	36	Rogue River	34.1	27.8	40.2	32.1	47.4	27.5	34.8
15,599	37	Deschutes River	24.1	33.5	43.9	32.0	29.6	39.7	33.8
10,162	38	Winchester Bay	-	38.1	36.9	63.1	38.1	25.0	33.5
26,941	39	Lost Creek Reservoir	7.0	38.9	38.0	52.9	31.7	31.2	33.3
45,880	40	Umpqua River	16.8	43.6	35.0	37.1	39.4	23.6	32.6
99,421	41	Pacific Ocean	16.5	21.7	37.1	46.5	43.2	29.7	32.5
11,180	42	Nehalem River	-	35.5	35.5	52.5	52.5	17.0	32.2
20,869	43	Yaquina Bay	21.4	25.7	36.6	38.1	30.2	27.1	29.8
29,037	44	Odell Lake	13.2	19.5	39.0	45.2	28.7	31.1	29.5
18,855	45	Siltcoos Lake/River	-	16.6	43.7	55.2	27.1	29.8	28.7
13,574	46	Diamond Lake	7.9	43.2	48.3	36.8	24.2	9.7	28.4
11,520	47	Crescent Lake	20.2	20.2	19.0	33.8	34.7	19.7	24.6
29,997	48	Coquille Bay (Coquille River)	7.1	21.2	28.3	28.3	22.7	15.2	20.4
15,641	49	Upper Klamath Lake	7.8	12.0	25.8	31.8	20.0	6.0	17.2

Law enforcement problems posed to boaters in the questionnaire included experiences with:

*a. intoxicated boat operators;
d. violations of no-wake zones;*

*b. excessive boat noise;
e. careless or reckless boaters;*

*c. violations of speed limits;
f. not enough law enforcement.*

Violations of no-wake zones..

Siuslaw River 92.4, Triangle Lake 83.1, Multnomah Channel 79.4, Lake Simtustus 79.0, Nehalem Bay 78.9, Umpqua River - N. Fork 78.0, Siletz River 75.7, South Tenmile Lake 74.4, Alsea River 73.0, Foster Reservoir 70.6.

Careless or reckless boaters.

Cottage Grove Reservoir 99.1, Nehalem Bay 83.6, Scoggins Reservoir/Henry Hagg Lake 75.6, Siuslaw River 72.6, Emigrant Lake 69.7, Willamette River 67.9, South Tenmile Lake 65.4, Lake Billy Chinook 65.3, Triangle Lake 65.3, Columbia River 63.7.

Not enough boating law enforcement.

Nehalem Bay 71.7, Siuslaw River 69.3, Triangle Lake 65.3, Chetco Bay/River 55.9, Siletz River 53.6, Lake Simtustus 52.4, Lake Billy Chinook 51.3, Nestucca River 51.0, Willamette River 50.5, Multnomah Channel 50.5.

Boating Safety Problems and Conditions

Rivers dominate the list of major waterbodies where boaters are most likely to experience boating safety problems and conditions. Table 4-3 displays the top fifty waterbodies in the state in order of the average percentage of boaters who said Yes to the ten questions about boating safety.

Boaters on the Rogue River experienced the most problems followed by the Snake, Nestucca, Willamette, Chetco, and the Umpqua River - N. Fork. Detroit Lake and Brownlee Reservoir are the lakes where boaters had the most encounters with boating safety problems.

However, most boaters do not experience the problems listed. On average, less than fifteen percent of all boaters reported the problems and conditions at the waterbody they used most. No waterbody reported more than half of boaters experiencing any problems and conditions. Only eleven waterbodies statewide rated responses from more than one-third of users.

The ten waterbodies registering the highest percentage responses from boaters for each of the ten boating safety problems or conditions are listed below.

Conflicts/disagreements with other boaters.

Triangle Lake 31.8, Nehalem Bay 29.5, Nestucca River 24.7, Rogue River 19.7, Umpqua River - N. Fork 18.3, Tillamook River/Bay 17.9, Fall Creek Reservoir 16.6, Columbia River 15.8, Willamette River 15.0, Coos Bay 14.2.

Conflicts/disagreements with non-boaters.

Clackamas River 24.5, Nestucca River 23.3, Rogue River 13.6, Winchester Bay 13.1, Detroit Reservoir/Lake 11.8, Multnomah Channel 11.7, Tillamook River/Bay 10.6, Umpqua River 10.5, Cottage Grove Reservoir 10.4, Umpqua River - N. Fork 8.5.

Overall, a relatively low percentage of boaters experienced the boating safety problems and conditions posed in the survey. Not surprisingly, safety problems appear to be greatest on rivers.

Table 4-3: Boating Safety Problems by Waterbody (Ranked by Average)

Rank	Waterbody	Conflicts with		Near Collisions with			Collisions with			Accident		Average
		a. Boaters	b. Nonboat	c. Boat	d. Fixed	e. Float	f. Boat	g. Fixed	h. Float	i. >\$2000	j. Injury	
1	Rogue River	19.7	13.6	22.6	38.3	13.9	3.3	20.3	8.2	-	-	14.0
2	Snake River	6.9	4.3	4.3	34.5	33.2	-	23.6	22.1	9.4	-	13.8
3	Nestucca River	24.7	23.3	11.8	48.3	9.4	-	10.4	3.0	-	-	13.1
4	Willamette River	15.0	7.2	15.0	16.9	44.4	4.0	9.4	13.2	4.2	-	12.9
5	Chetco Bay (Chetco River)	12.7	4.2	12.7	25.2	37.9	-	10.3	18.8	-	-	12.2
6	Umpqua River - N. Fork	18.3	8.5	9.8	9.8	35.3	9.8	9.8	17.0	-	-	11.8
7	Detroit Reservoir/Lake	5.0	11.8	13.3	36.0	27.9	5.0	-	10.3	-	-	10.9
8	Brownlee Reservoir	5.4	3.4	1.2	27.0	42.2	1.2	7.9	20.4	-	-	10.9
9	Nehalem Bay	29.5	-	23.1	8.3	13.7	12.2	9.2	3.1	-	-	9.9
10	Columbia River	15.8	6.1	13.3	12.3	28.4	3.0	6.4	9.8	2.6	1.3	9.9
11	Multnomah Channel	9.1	11.7	2.8	18.4	39.9	-	5.6	11.5	-	-	9.9
12	Deschutes River	6.0	-	16.5	13.7	25.7	2.8	20.9	12.2	-	-	9.8
13	Cottage Grove Reservoir	10.4	10.4	10.4	10.4	31.3	-	10.4	-	10.4	-	9.4
14	Green Peter Reservoir	8.1	2.0	12.0	11.9	41.1	-	5.9	12.0	-	-	9.3
15	Siuslaw River	13.7	4.6	11.3	13.7	29.3	4.6	4.6	4.6	-	-	8.6
16	Yaquina Bay	11.6	1.5	16.9	7.6	24.7	2.2	5.4	15.5	-	-	8.5
17	Upper Klamath Lake	-	-	-	21.0	25.8	-	28.8	9.7	-	-	8.5
18	Tillamook River/ Bay	17.9	10.6	22.6	11.1	16.4	3.4	-	-	-	-	8.2
19	Lake Billy Chinook	6.1	3.5	8.9	12.2	27.5	1.6	3.1	10.4	3.0	1.4	7.8
20	Paulina Lake	6.5	-	13.0	6.5	25.4	13.0	-	13.0	-	-	7.7
21	Pacific Ocean	7.5	0.8	15.2	13.0	26.8	2.8	4.1	4.2	2.8	-	7.7
22	Coquille Bay (Coquille River)	12.7	-	-	8.6	35.7	-	6.3	12.7	-	-	7.6
23	Triangle Lake	31.8	-	22.9	-	9.3	-	9.3	-	-	-	7.3
24	Clackamas River	12.4	24.5	-	12.0	12.0	-	-	12.0	-	-	7.3
25	Lake Simtustus	-	8.5	9.0	8.7	45.1	-	-	1.1	-	-	7.2
26	Foster Reservoir	6.0	4.9	13.5	1.6	29.5	-	4.2	8.6	-	-	6.8
27	Siletz River	9.4	2.7	8.8	20.1	17.4	2.7	5.9	-	-	-	6.7
28	Fall Creek Reservoir	16.6	8.4	8.1	8.5	16.6	-	-	8.5	-	-	6.7
29	Diamond Lake	-	7.1	-	14.9	22.7	-	6.8	14.6	-	-	6.6
30	Umpqua River	7.0	10.5	10.0	6.7	13.6	3.4	10.0	3.4	-	-	6.5
31	Prineville Reservoir	5.1	3.9	13.6	4.0	13.7	3.9	10.2	9.3	0.8	-	6.5
32	Winchester Bay	-	13.1	11.9	-	25.0	-	-	13.1	-	-	6.3
33	Crane Prairie Reservoir	8.7	4.5	5.2	14.8	20.5	-	4.7	2.0	-	-	6.0
34	South Tenmile Lake	-	-	10.8	5.6	11.0	-	11.0	16.1	5.6	-	6.0
35	Coos Bay	14.2	-	7.4	6.9	18.3	-	3.4	7.0	-	-	5.7
36	Howard Prairie Reservoir	-	-	3.7	16.5	17.7	-	10.1	7.6	-	-	5.6
37	Devils Lake (Lincoln)	4.6	5.4	7.3	8.0	17.0	1.7	-	10.8	-	-	5.5
38	Dexter Reservoir	7.7	7.7	15.4	-	15.4	-	-	7.7	-	-	5.4
39	Lost Creek Reservoir	3.0	3.0	-	11.9	19.0	-	3.0	8.9	-	-	4.9
40	Scoggins Reservoir/Henry Hagg Lake	12.6	-	3.0	4.9	22.4	-	-	4.9	-	-	4.8
41	Odell Lake	10.7	3.0	3.0	6.8	6.8	3.0	6.9	3.0	-	-	4.3
42	Emigrant Lake	-	-	11.3	11.3	10.0	-	5.6	4.4	-	-	4.2
43	Siltcoos Lake/River	-	-	13.7	11.6	4.7	-	4.7	4.7	-	-	3.9
44	Nehalem River	6.8	-	-	-	19.8	-	-	12.3	-	-	3.9
45	Alesea River	-	7.2	6.6	3.3	17.4	-	2.2	-	-	-	3.7
46	Lake of the Woods	3.2	7.4	11.6	8.4	-	-	4.2	-	-	-	3.5
47	Wickiup Reservoir	9.1	-	-	-	10.4	1.0	-	4.7	-	-	2.5
48	East Lake	-	-	-	-	-	-	-	-	-	-	-
49	Crescent Lake	-	-	-	-	-	-	-	-	-	-	-

Boating safety problems posed to boaters in the questionnaire included experiences with:

- a. Conflicts/disagreements with other boaters;*
- c. Near collision with boats or people;*
- e. Near collision with floating hazards (logs, debris, etc.);*
- g. Collision with a fixed hazard (rocks, pilings, etc.);*
- i. Accident causing over \$2,000 damage to boat(s);*

- b. Conflicts/disagreements with non-boaters;*
- d. Near collision with fixed hazards (rocks, pilings, etc.);*
- f. Collision involving another boat;*
- h. Collision with a floating hazard (logs, debris, etc.);*
- j. Accident resulting in person(s) injured and treated.*

Near collision with boats or people.

Nehalem Bay 23.1, Triangle Lake 22.9, Rogue River 22.6, Tillamook River/Bay 22.6, Yaquina Bay 16.9, Deschutes River 16.5, Dexter Reservoir 15.4, Pacific Ocean 15.2, Willamette River 15.0, Siltcoos Lake/River 13.7.

Near collision with fixed hazards (rocks, pilings, etc.).

Nestucca River 48.3, Rogue River 38.3, Detroit Reservoir/Lake 36.0, Snake River 34.5, Brownlee Reservoir 27.0, Chetco Bay (Chetco River) 25.2, Upper Klamath Lake 21.0, Siletz River 20.1, Multnomah Channel 18.4, Willamette River 16.9.

Near collision with floating hazards (logs, debris, etc.).

Lake Simtustus 45.1, Willamette River 44.4, Brownlee Reservoir 42.2, Green Peter Reservoir 41.1, Multnomah Channel 39.9, Chetco Bay (Chetco River) 37.9, Coquille Bay (Coquille River) 35.7, Umpqua River - N. Fork 35.3, Snake River 33.2, Cottage Grove Reservoir 31.3.

Collision involving another boat.

Paulina Lake 13.0, Nehalem Bay 12.2, Umpqua River - N. Fork 9.8, Detroit Reservoir/Lake 5.0, Siuslaw River 4.6, Willamette River 4.0, Prineville Reservoir 3.9, Tillamook River/Bay 3.4, Umpqua River 3.4, Rogue River 3.3.

Collision with fixed hazards (rocks, pilings, etc.).

Upper Klamath Lake 28.8, Snake River 23.6, Deschutes River 20.9, Rogue River 20.3, South Tenmile Lake 11.0, Cottage Grove Reservoir 10.4, Nestucca River 10.4, Chetco Bay (Chetco River) 10.3, Prineville Reservoir 10.2, Howard Prairie Reservoir 10.1.

Collision with floating hazards (logs, debris, etc.).

Snake River 22.1, Brownlee Reservoir 20.4, Chetco Bay (Chetco River) 18.8, Umpqua River - N. Fork 17.0, South Tenmile Lake 16.1, Yaquina Bay 15.5, Diamond Lake 14.6, Willamette River 13.2, Winchester Bay 13.1, Paulina Lake 13.0.

Accident causing over \$2,000 damage to boat(s).

Cottage Reservoir 10.4, Snake River 9.4, South Tenmile Lake 5.6, Willamette River 4.2, Lake Billy Chinook 3.0, Pacific Ocean 2.8, Columbia River 2.6, Prineville Reservoir 0.8.

Accident resulting in person(s) injured and treated.

Lake Billy Chinook 1.4, Columbia River 1.3.

Boating Facilities Problems and Conditions

Table 4-4 shows major waterbodies statewide listed in order of the average percentage of boaters who experienced all of the nine problems with boating facilities and conditions described in the questionnaire. Lakes and Reservoirs hold the majority of the ten waterbodies at the top of the list. Fall Creek, Cottage Grove and Dexter reservoirs registered the highest percentage of boaters reporting problems. The Columbia and Siuslaw rivers are the rivers where a high percentage of boaters experienced facilities problems and conditions. Nine of the ten are located in western Oregon.

Except for Brownlee Reservoir, the waterbodies where boaters encountered the most boating facilities problems are all located in western Oregon.

Table 4-4: Boating Facilities Problems and Conditions by Waterbody (Ranked by Average)

Rank	Waterbody	a. High Fees	b. Site Maint.	c. Delays	d. Restrooms	e. Parking	f. Floats	g. Tie-ups	h. Lanes	i. Pumpouts	Average
1	Fall Creek Reservoir	36.9	9.1	72.6	27.8	27.8	18.5	54.5	81.9	-	36.6
2	Cottage Grove Reservoir	10.4	27.1	47.0	0.9	52.1	31.3	67.9	31.3	-	29.8
3	Dexter Reservoir	18.2	18.2	27.3	54.6	27.3	36.4	45.5	27.3	9.1	29.3
4	Columbia River	16.3	24.3	38.6	23.6	35.4	31.7	42.0	29.3	16.5	28.6
5	Siuslaw River	14.3	28.4	19.1	28.4	49.8	28.4	38.2	33.2	14.1	28.2
6	Paulina Lake	13.0	38.9	13.0	13.0	59.1	20.4	43.4	25.9	25.9	28.1
7	Tillamook River/ Bay	10.1	15.4	33.5	29.1	50.2	26.1	37.4	39.6	10.4	28.0
8	Detroit Reservoir/Lake	17.9	12.2	13.0	28.5	43.1	36.4	45.1	35.0	17.8	27.7
9	Brownlee Reservoir	18.7	20.4	6.4	32.6	29.3	38.2	59.7	22.7	15.5	27.0
10	Winchester Bay	23.8	25.0	25.0	26.2	25.0	26.2	38.1	25.0	25.0	26.6
11	Alsea River	21.1	13.4	29.4	29.1	33.3	34.2	41.6	17.5	13.4	25.9
12	Willamette River	7.7	19.8	35.7	21.6	34.7	26.4	41.1	30.4	13.5	25.6
13	Prineville Reservoir	2.1	23.0	35.7	11.0	30.2	27.4	47.4	41.1	9.6	25.3
14	Emigrant Lake	17.9	11.9	29.8	11.9	29.8	22.5	53.7	35.8	6.0	24.4
15	Scoggins Reservoir/Henry Hagg Lake	12.0	5.4	45.6	8.7	28.0	26.8	40.0	36.9	8.7	23.6
16	Nestucca River	3.2	62.7	19.5	14.7	40.9	5.9	19.4	30.4	14.7	23.5
17	Lake Billy Chinook	11.8	8.7	23.9	18.6	45.8	31.2	42.3	14.4	10.1	23.0
18	Snake River	5.9	23.0	25.1	26.0	35.1	14.7	28.9	24.5	21.6	22.8
19	Lost Creek Reservoir	9.7	14.2	40.4	13.0	9.7	26.4	46.1	38.8	5.7	22.7
20	Rogue River	27.6	20.6	19.7	32.7	17.3	11.1	38.0	22.3	13.3	22.5
21	Howard Prairie Reservoir	23.2	18.7	19.3	15.5	23.5	28.6	40.6	23.5	9.2	22.5
22	Green Peter Reservoir	-	9.2	47.4	6.9	27.9	26.4	40.5	37.1	6.9	22.5
23	Coos Bay	36.5	23.1	24.3	23.4	28.7	12.2	24.3	28.7	-	22.4
24	Siletz River	16.7	27.3	9.3	14.5	38.0	15.7	33.5	30.8	14.8	22.3
25	Deschutes River	27.6	28.7	11.0	21.3	29.0	14.4	24.0	22.8	19.8	22.1
26	Wickiup Reservoir	11.1	25.6	1.7	17.4	43.7	33.1	27.9	14.7	10.8	20.7
27	Umpqua River - N. Fork	8.5	17.0	18.3	26.8	18.3	8.5	54.1	18.3	8.5	19.8
28	Nehalem River	-	13.3	35.0	-	55.4	13.3	20.7	33.8	-	19.1
29	Nehalem Bay	-	13.3	35.0	-	55.4	13.3	20.7	33.8	-	19.1
30	Diamond Lake	28.5	21.5	21.6	15.8	20.8	16.4	23.4	13.7	6.9	18.7
31	Odell Lake	11.1	19.5	19.1	4.0	40.8	11.1	40.9	15.1	5.9	18.6
32	Chetco Bay (Chetco River)	33.6	4.2	12.7	22.2	40.0	18.0	18.8	8.5	8.5	18.5
33	Yaquina Bay	28.4	17.2	15.8	14.8	21.7	14.2	21.6	19.2	12.4	18.4
34	Umpqua River	8.5	8.1	20.1	8.5	40.3	24.4	19.8	24.4	8.1	18.0
35	Foster Reservoir	2.6	7.8	30.3	7.7	24.3	20.2	39.7	27.5	1.6	18.0
36	Coquille Bay (Coquille River)	6.9	13.9	13.9	-	41.6	20.8	27.8	27.8	7.9	17.8
37	Devils Lake (Lincoln)	5.7	1.8	21.4	19.2	22.2	11.6	32.7	35.8	6.3	17.4
38	Multnomah Channel	3.1	21.8	4.2	25.1	14.0	17.1	36.4	14.0	18.8	17.2
39	Crane Prairie Reservoir	12.3	1.2	16.4	9.1	23.8	11.7	43.3	11.8	11.2	15.6
40	Upper Klamath Lake	-	18.1	12.0	8.0	26.0	11.8	25.8	25.8	12.0	15.5
41	Pacific Ocean	17.4	10.6	12.0	4.9	24.2	10.0	27.3	7.2	9.7	13.7
42	Lake of the Woods	9.7	8.0	12.5	8.0	11.5	12.5	35.4	22.9	-	13.4
43	East Lake	11.4	11.4	-	22.8	-	11.4	22.8	11.4	11.4	11.4
44	Siltcoos Lake/River	22.2	12.5	12.5	20.7	14.8	-	7.3	12.5	-	11.4
45	Triangle Lake	10.2	-	10.2	4.8	15.1	10.2	25.3	13.5	-	9.9
46	Clackamas River	-	-	17.9	13.8	-	13.8	27.5	13.8	-	9.6
47	South Tenmile Lake	6.9	12.3	6.0	6.2	6.0	6.2	12.0	-	-	6.2
48	Crescent Lake	1.5	14.6	1.5	-	14.6	-	14.6	-	-	5.2
49	Lake Simtustus	19.8	-	1.2	13.1	-	-	-	-	-	3.8

Boating facilities problems and conditions posed to boaters in the questionnaire included experiences with:

*a. Entrance or use fee too high;
d. Lack of adequate restrooms;
g. Lack of short-term tie-ups;*

*b. Lack of maintenance at launch site;
e. Not enough parking for boat trailers;
h. Not enough launch lanes;*

*c. Long delays to use the ramp;
f. Not enough boarding floats;
i. Lack of sewage pump-outs.*

The ten waterbodies registering the highest percentage responses from boaters for each of the nine boating facilities problems or conditions are listed below.

[Entrance fees too high.](#)

Fall Creek Reservoir 36.9, Coos Bay 36.5, Chetco Bay (Chetco River) 33.6, Diamond Lake 28.5, Yaquina Bay 28.4, Rogue River 27.6, Deschutes River 27.6, Winchester Bay 23.8, Howard Prairie Reservoir 23.2, Siltcoos Lake/River 22.2.

[Lack of maintenance at launch site.](#)

Nestucca River 62.7, Paulina Lake 38.9, Deschutes River 28.7, Siuslaw River 28.4, Siletz River 27.3, Cottage Grove Reservoir 27.1, Wickiup Reservoir 25.6, Winchester Bay 25.0, Columbia River 24.3.



[Long delays to use the ramp.](#)

Fall Creek Reservoir 72.6, Green Peter Reservoir 47.4, Cottage Grove Reservoir 47.0, Scoggins Reservoir/Henry Hagg Lake 45.6, Lost Creek Reservoir 40.4, Columbia River 38.6, Willamette River 35.7, Prineville Reservoir 35.7, Nehalem Bay 35.0, Nehalem River 35.0.

[Lack of adequate restrooms.](#)

Dexter Reservoir 54.6, Rogue River 32.7, Brownlee Reservoir 32.6, Alsea River 29.1, Tillamook River/Bay 29.1, Detroit Reservoir/Lake 28.5, Siuslaw River 28.4, Fall Creek Reservoir 27.8, Umpqua River - N. Fork 26.8, Winchester Bay 26.2.

[Not enough parking for boat trailers.](#)

Paulina Lake 59.1, Nehalem Bay 55.4, Nehalem River 55.4, Cottage Grove Reservoir 52.1, Tillamook River/Bay 50.2, Siuslaw River 49.8, Lake Billy Chinook 45.8, Wickiup Reservoir 43.7, Detroit Reservoir/Lake 43.1, Coquille Bay (Coquille River) 41.6.

Fall Creek Reservoir registered the highest average response from boaters to facilities problems and conditions and also scored the single highest response to a problem with 82 percent of boaters indicating there is a lack of launching lanes at this waterbody.

Not enough boarding floats.

Brownlee Reservoir 38.2, Detroit Reservoir/Lake 36.4, Dexter Reservoir 36.4, Alsea River 34.2, Wickiup Reservoir 33.1, Columbia River 31.7, Cottage Grove Reservoir 31.3, Lake Billy Chinook 31.2, Howard Prairie Reservoir 28.6, Siuslaw River 28.4.

Lack of short-term tie-ups.

Cottage Grove Reservoir 67.9, Brownlee Reservoir 59.7, Fall Creek Reservoir 54.5, Umpqua River - N. Fork 54.1, Emigrant Lake 53.7, Prineville Reservoir 47.4, Lost Creek Reservoir 46.1, Dexter Reservoir 45.5, Detroit Reservoir/Lake 45.1, Paulina Lake 43.4.

Not enough launch lanes.

Fall Creek Reservoir 81.9, Prineville Reservoir 41.1, Tillamook River/Bay 39.6, Lost Creek Reservoir 38.8, Green Peter Reservoir 37.1, Scoggins Reservoir/Henry Hagg Lake 36.9, Devils Lake (Lincoln County) 35.8, Emigrant Lake 35.8, Detroit Reservoir/Lake 35.0, Nehalem Bay 33.8.



Lack of sewage pump-outs.

Paulina Lake 25.9, Winchester Bay 25.0, Snake River 21.6, Deschutes River 19.8, Multnomah Channel 18.8, Detroit Reservoir/Lake 17.8, Columbia River 16.5, Brownlee Reservoir 15.5, Siletz River 14.8, Nestucca River 14.7.