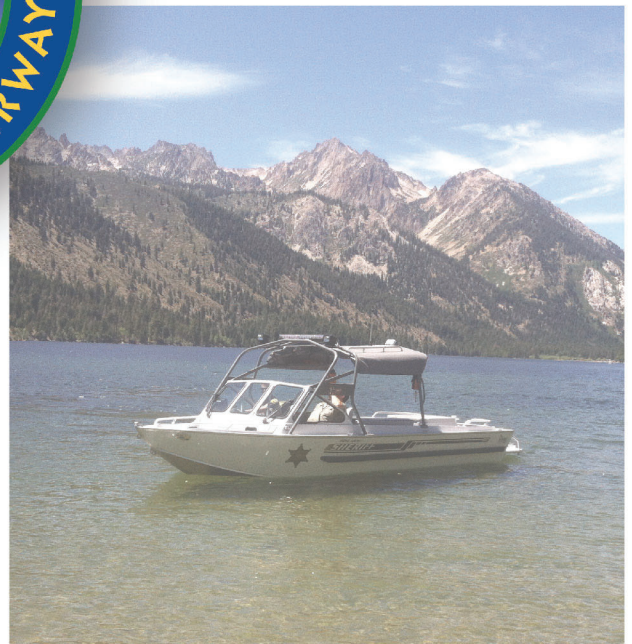


CALIFORNIA BOATING FACILITIES NEEDS ASSESSMENT

2019



PAGE INTENTIONALLY LEFT BLANK



CBFNA

VOLUME IX



LOS ANGELES

CALIFORNIA BOATING FACILITIES NEEDS ASSESSMENT



CALIFORNIA BOATING FACILITIES NEEDS ASSESSMENT

State of California

Gavin Newsom, Governor

California Natural Resources Agency

Wade Crowfoot, Secretary

California Department of Parks and Recreation

Armando Quintero, Parks Director

Division of Boating and Waterways

Ramona Fernandez, Acting Deputy Director

December 2019

The California Boating Facility Needs Assessment was prepared under contract by:

California State University, Sacramento



SACRAMENTO STATE

Principal Investigators

Dr. Amy Mickel, *College of Business Administration*

Dr. David Rolloff, *Department of Recreation, Parks and Tourism Administration* Dr.

Stanley Taylor, *College of Business Administration*

Contractors would like to acknowledge and thank the following individuals from the Division of Boating and Waterways.

Deputy Directors: Ramona Fernandez, *Acting Deputy Director*; Lynn Sadler, *Former Deputy Director*;

Christopher Conlin, *Former Deputy Director*, Gloria Sandoval, *Deputy Director of Public Affairs*

California Boating and Waterways Commission: Randy Short, *Former-Chair*; Katherine Pettibone, *Vice*

Chair; Brian Cooley, *Member*; David Livingston, *Member*; Virginia Madueño, *Member*;

Douglas W. Metz, *Member*; Frank Peralta, *Member*

CBFNA Project Managers: Jeffrey Caudill, Charley Hesse, and Jared Zucker

DBW Employees: Keren Dill, Brian Carroll, Joleane King, and Amy Rigby.

Contractors would like to acknowledge and thank the following individuals for their work on this project. Without their dedication, this project would not have been possible.

Senior Research Assistants: Heather Everett, Laura Gray, and Casey White

Junior Research Assistants: Elizabeth Armas, Laurel Pyle, Cinthia Spitaleri, and Kyle Weisenthal

Graphic Designer: Nathan Rinehart

CSUS, Department Chair of RPTA: Dr. Greg Shaw

CSUS, IT Support: Carl Kelley

Thank you to everyone who participated in this study by completing a survey or attending a focus group interview.

The statements and conclusions of this report are those of the contractor and not necessarily those of the California Division of Boating and Waterways, or its employees. The division makes no warranties, express or implied, and assumes no liability for the information in the succeeding text.



Introduction	11
Region's Counties & Waterways	12
Table 1. Waterways in the Region	13
Motorized Boater Survey	14
Participants' Characteristics & Boat Ownership	14
Characteristics of Online Study Participants	14
Table 2. Counties Where Respondents Reside	14
Table 3. Gender of Survey Respondents	14
Table 4. Age of Survey Respondents	14
Table 5. Number of Adults in Household	14
Table 6. Number of Children in Household	14
Table 7. Total Household Income (Before Taxes)	15
Table 8. Number Contributing to Household Income	15
Table 9. Participants' Highest Education Level Completed	15
Table 10. Ethnicity of Survey Respondents	15
Table 11. Primary Language of Survey Respondents	15
Boat Ownership of Study Participants	16
Table 12. Number of Motorized Boats Owned	16
Table 13. Primary Motorized Boat	16
Table 14. Number of Non-motorized Boats	16
Table 15. Interest in Non-motorized Boating Activities	16
Non-Motorized Boater Survey	17
Participants' Characteristics & Boat Ownership/Rentals	17
Characteristics of Online Study Participants	17
Table 16. Secondary Boat Types	17
Table 17. Boat as Primary Residence	17



Table 18. Counties Where Respondents Reside	17
Table 19. Gender of Survey Respondents	17
Table 20. Age of Survey Respondents	18
Table 21. Number of Adults in Household	18
Table 22. Number of Children in Household	18
Table 23. Total Household Income (Before Taxes)	18
Table 24. Number Contributing to Household Income	18
Boat Ownership/Rentals of Study Participants	19
Table 25. Participants' Highest Education Level Completed	19
Table 26. Ethnicity of Survey Respondents	19
Table 27. Primary Language of Survey Respondents	19
Table 28. Own vs. Rent Boats	19
Table 29. Number of Non-motorized Boats Owned	19
Table 30. Boat Types Owned by Participants	20
Table 31. Boat Types Rented by Participants	20
Waterways Used by Recreational Boaters	21
Most Frequented Waterways	22
Table 32. Reported as Primary Waterway by Respondents	22
Types of Boats on Primary Waterways	23
Table 33. Boat Types on Primary Waterways	23
Perceptions of Use and Level of Crowdedness	24
Table 34. Perceptions of Use/Crowdedness	24
Facility Needs, Issues, & Reasons for Visiting	25
Facility Needs: Recreational Boater Perspectives	25
Table 35. Facility Needs on Primary Waterways	25
Main Issues: Recreational Boater Perspectives	27



Table 36. Issues on Primary Waterways	27
Reasons for Visiting Waterways: Recreational Boater Perspectives	29
Table 37. Reasons for Boating Primary Waterways	29
Facility Needs: Facility & Law Enforcement Perspectives	30
Table 38. Facility Needs: Facility and Law Enforcement Surveys	30
Main Issues: Facility & Law Enforcement Perspectives	32
Table 39. Issues/Problems: Facility & Law Enforcement Surveys	32
Forecasts for Registered Recreational Motorized Boats	33
Figure 1. Total Number of DMV-Registered Motorized Boats	33
Figure 2. Motorized Boats by Propulsion Type	33
Table 40. Motorized Boat by Propulsion (Figure 2)	34
Figure 3. Motorized Boats by Length (Less than 26 feet)	34
Figure 4. Motorized Boats by Length (Greater than or equal to 26 feet)	34
Table 41. Motorized Boat by Length (Figures 3 and 4)	35
Table 42. Existing Boating Facilities & Access	35
Appendix A. Preferred Waterway Reported by Motorized Boaters	36
Appendix B. Preferred Waterway Reported by Non-motorized Boaters	37
Appendix C. Perceptions of Use Level / Crowdedness	38
Appendix D. Facility Needs Reported by Motorized Boaters	39
Appendix D. Boating Access (motorized boaters)	39
Appendix D. Day Docks (motorized boaters)	39
Appendix D. Fish Cleaning Stations (motorized boaters)	40
Appendix D. Landings/Boat-in Sites (motorized boaters)	40
Appendix D. Marina (slips) (motorized boaters)	41
Appendix D. Mooring Fields (motorized boaters)	41
Appendix D. Parking Vehicles / Trailers (motorized boaters)	42



Appendix D. Restrooms (motorized boaters)	42
Appendix D. Supply Stores (motorized boaters)	43
Appendix D. Utilities (motorized boaters)	43
Appendix D. Boarding Floats (motorized boaters)	44
Appendix D. Dry Storage (motorized boaters)	44
Appendix D. Floating Docks/Piers (motorized boaters)	45
Appendix D. Launch Ramp (motorized boaters)	45
Appendix D. Marine Service & repairs (motorized boaters)	46
Appendix D. Navigational Aids (motorized boaters)	46
Appendix D. Pump-Out Stations (motorized boaters)	47
Appendix D. Showers (motorized boaters)	47
Appendix D. Transient facilities / tie-ups (motorized boaters)	48
Appendix D. Emergency Services (motorized boaters)	48
Appendix E. Facility Needs Reported by Non-motorized Boaters	49
Appendix E. Boating Access (non-motorized boaters)	49
Appendix E. Boat-in Campsites (non-motorized boaters)	49
Appendix E. Parking (non-motorized boaters)	50
Appendix E. Launch Spots -by Other Means (non-motorized boaters)	50
Appendix E. Access to Fresh Water (non-motorized boaters)	51
Appendix E. Restrooms (non-motorized boaters)	51
Appendix E. Supply Stores (non-motorized boaters)	52
Appendix E. Rinse Station-Boats/Gear (non-motorized boaters)	52
Appendix E. Security (non-motorized boaters)	53
Appendix E. Campgrounds (non-motorized boaters)	53
Appendix E. Landings (non-motorized boaters)	54
Appendix E. Boat-in Day-use Areas (non-motorized boaters)	54
Appendix E. Launch Spots -by Hand (non-motorized boaters)	55



Appendix E. Navigation Aids (non-motorized boaters)	55
Appendix E. Take-out Spots (non-motorized boaters)	56
Appendix E. Showers (non-motorized boaters)	56
Appendix E. Emergency Services (non-motorized boaters)	57
Appendix E. Boat Storage (non-motorized boaters)	57
Appendix E. Personal Storage (non-motorized boaters)	58
Appendix E. Garbage Cans (non-motorized boaters)	58
Appendix F. Facility-related Comments from Survey Participants	59
Appendix G. Boating Issues Reported by Motorized Boaters	66
Appendix G. High Facility Use Fee (motorized boaters)	66
Appendix G. Invasive Species (motorized boaters)	66
Appendix G. Overcrowded (motorized boaters)	67
Appendix G. Poor Ramp Conditions (motorized boaters)	67
Appendix G. Poor Road Access (motorized boaters)	68
Appendix G. Issues with Motorized Boaters (motorized boaters)	68
Appendix G. Issues with Non-motorized Boaters (motorized boaters)	69
Appendix G. Excessive/Rude Law Enforcement (motorized boaters)	69
Appendix G. I have not experienced problems at this waterway (motorized boaters)	70
Appendix G. Insufficient Water Depth (motorized boaters)	70
Appendix G. Lack of Parking (motorized boaters)	71
Appendix G. Reservations Required (motorized boaters)	71
Appendix G. Poor Water Quality (motorized boaters)	72
Appendix G. Floating Debris (motorized boaters)	72
Appendix G. Reckless PWC Operators (motorized boaters)	73
Appendix G. Issues with Shipping Vessels (motorized boaters)	73
Appendix G. Lack of Law Enforcement (motorized boaters)	74



Appendix H. Boating Issues Reported by Non-motorized Boaters	75
Appendix H. Boating Access (non-motorized boaters)	75
Appendix H. Overcrowded (non-motorized boaters)	75
Appendix H. Poor Ramp Conditions (non-motorized boaters)	76
Appendix H. Poor Road Access (non-motorized boaters)	76
Appendix H. Issues with Invasive Species (non-motorized boaters)	77
Appendix H. Issues with Reckless PWC Operatorss (non-motorized boaters)	77
Appendix H. Shipping Vessels (non-motorized boaters)	78
Appendix H. Lack of Law Enforcement (non-motorized boaters)	78
Appendix H. Lack of Parking (non-motorized boaters)	79
Appendix H. Reservations Required (non-motorized boaters)	79
Appendix H. Poor Water Quality (non-motorized boaters)	80
Appendix H. Floating Debris (non-motorized boaters)	80
Appendix H. Issues with motorized Boaters (non-motorized boaters)	81
Appendix H. Issues with Non-motorized Boaters (non-motorized boaters)	81
Appendix H. Excessive/Rude Law Enforcement (non-motorized boaters)	82
Appendix H. I have not experienced problems at this waterway (non-motorized boaters)	82
Appendix I. Facilities by Waterway	83
Appendix I. Existing Boating Facilities & Access on Waterways	83
Appendix J. Launch Locations by Waterway	84
Appendix J. Launch Locations Reported by Boaters	84

Introduction

In *Volume IX: Los Angeles Region*, findings for this region and its waterways are provided. In the first part of this volume, the regions' counties and waterways are identified, followed by descriptions of the motorized and non-motorized boater study participants who reside in this region. Preferred waterways located in this region—as reported by both motorized and non-motorized study participants—are identified. Descriptions of these waterways' facility needs, issues, and reasons for boating are summarized. Forecasts for registered motorized boats in this region are provided, in addition to summary statistics for existing facilities. Data are included for all waterways at the end of this volume in the appendices.

Region's Counties & Waterways

The Los Angeles region is comprised of two counties: Los Angeles and Ventura. Within this region, 26 waterways have been identified as having recreational opportunities for motorized and/or non-motorized boaters (Table 1).



Table 1. Waterways in the Region

Waterways	
Alamitos Bay	Marina Del Rey
Avalon Harbor	Pacific Ocean
Castaic Lagoon	Port of Long Beach
Castaic Lake	Port of Los Angeles
Channel Islands Harbor	Puddingstone Lake
Elizabeth Lake	Pyramid Lake
King Harbor	Queensway Bay
Lake Casitas	Redondo Beach Harbor
Lake Piru	San Pedro Bay
Legg Lake	Santa Fe Dam Reservoir
Little Rock Reservoir	Two Harbors
Long Beach Harbor	Ventura Harbor
Los Angeles Harbor	Ventura River

N = 26



Motorized Boater Survey

For the Los Angeles region, a total of 261 registered boat owners responded to this survey. The sample of motorized recreational boaters reside primarily in Los Angeles (76.2%) with the remaining participants residing in Ventura (Table 2).

Participants' Characteristics & Boat Ownership

This results section provides information on the study participants, including information on participants' demographics, their households, and types of boats owned.

Characteristics of Online Study Participants

Survey participants were asked a range of demographic questions. Questions included ones related to gender, age, number of adults and children in the household, income, education level, ethnicity, and primary language spoken. These demographic questions were voluntary, and almost half of the respondents (approximately 49%) chose to answer these questions.

Of those who chose to disclose their gender, the overwhelming majority were males (Table 3).

The average age is 69, and the median is 71 years old (Table 4).

The number of adults and children reported in participants' household are summarized in Table 5 and Table 6, respectively.



Table 2. Counties Where Respondents Reside

County	Respondents	Percent
Los Angeles	199	76.2%
Ventura	62	23.8%

N = 261

Table 3. Gender of Survey Respondents

Gender	Respondents	Percent
Female	11	8.5%
Male	118	91.5%

N = 129

Table 4. Age of Survey Respondents

Age Range	Respondents	Percent
30-39	2	1.5%
40-49	8	6.2%
50-59	11	8.5%
60-69	35	26.9%
70-79	57	43.8%
80-89	14	10.8%
Over 89	3	2.3%

N = 130

Table 5. Number of Adults in Household

Adults	Respondents	Percent
1	13	10.0%
2	79	60.8%
3	21	16.2%
4+	17	13.1%

N = 130

Table 6. Number of Children in Household

Children	Respondents	Percent
0	96	76.8%
1	16	12.8%
2	8	6.4%
3	4	3.2%
4+	1	0.8%

N = 125

For those responding to income-related questions, total household income and number of people contributing to household income can be found in Table 7 and Table 8, respectively.

Table 7. Total Household Income (Before Taxes)

Income Range	Respondents	Percent
under \$25,000	8	6.0%
\$25,000 - \$49,999	11	8.3%
\$50,000 - \$74,999	27	20.3%
\$75,000 - \$99,999	19	14.3%
\$100,000 - \$124,999	16	12.0%
\$125,000 - \$149,999	11	8.3%
\$150,000 - \$174,999	11	8.3%
\$175,000 - \$199,999	5	3.8%
\$200,000 or more	25	18.8%

N = 133

The majority of respondents (72.5%) have completed some form of higher education: a 2-year degree, 4-year degree, or graduate school (Table 9).

Ethnicity and primary language spoken reported by survey respondents can be found in Table 10 and Table 11, respectively.

Table 10. Ethnicity of Survey Respondents

Ethnicity	Respondents	Percent
White	100	79.4%
Hispanic or Latino	8	6.3%
Asian	7	5.6%
Prefer not to answer	4	3.2%
African American	3	2.4%
Native American	2	1.6%
Biracial/multiracial	1	0.8%
Pacific Islander	1	0.8%

N = 126

Table 8. Number Contributing to Household Income

Earners	Respondents	Percent
1	52	39.1%
2	78	58.6%
3+	3	2.3%

N = 133

Table 9. Participants' Highest Education Level Completed

Education Level	Respondents	Percent
Did not complete high school	2	1.5%
High School	29	22.1%
2-Year College Degree	31	23.7%
4-Year College Degree	29	22.1%
Graduate School	35	26.7%
Other	5	3.8%

N = 131

Table 11. Primary Language of Survey Respondents

Primary Language	Respondents	Percent
English	128	96.2%
Spanish	3	2.3%
Other	2	1.5%

N = 133



Boat Ownership of Study Participants

Respondents were asked how many motorized boats they owned. The large majority (63.4%) indicated that they owned only one motorized boat (Table 12).

Respondents were also asked to identify the type of boat(s) they own. Participants owning more than one boat registered with the DMV or USCG were asked to identify which of their registered motorized boats they consider their “primary” boat (i.e., used most frequently).

Approximately 52.1% of the registered boat owners reported a powerboat as their primary boat. Sailboats (over 8 feet with auxiliary) were the second most frequently reported boat (Table 13).

Participants were also asked how many non-motorized boats they own (Table 14). Approximately, 52.9% of the survey respondents did not own a non-motorized boat, while the other 47.1% reported owning a non-motorized watercraft. Those respondents not owning a non-motorized boat were asked if they were interested in non-motorized boating activities, and 41.3% indicated interest (Table 15).



Table 12. Number of Motorized Boats Owned

Number of Boats	Respondents	Percent
1	161	63.4%
2	62	24.4%
3	22	8.7%
4	4	1.6%
5+	5	2.0%

N = 254

Table 13. Primary Motorized Boat

Types of Boats	Respondents	Percent
Powerboat	123	52.1%
Sailboat (> 8 ft) w/ aux	34	14.4%
Inflatable w/ motor	22	9.3%
Bass boat / jon boat	20	8.5%
Cabin cruiser	18	7.6%
Other	8	3.4%
Rowboat (w/ motor)	6	2.5%
Pontoon boat	5	2.1%

N = 236

Table 14. Number of Non-motorized Boats

Number of Boats	Respondents	Percent
0	138	52.9%
1	49	18.8%
2	38	14.6%
3	16	6.1%
4	13	5.0%
5+	7	2.7%

N = 261

Table 15. Interest in Non-motorized Boating Activities

Interest	Respondents	Percent
No	81	58.7%
Yes	57	41.3%

N = 138

Participants owning more than one boat (motorized or non-motorized) were asked which boat was their “secondary” boat (i.e., used second most frequently). There was a wide range of responses with kayaks being mentioned the most frequently (Table 16).

In response to a question about whether or not their boat was also their primary residence, the overwhelming majority of respondents (approximately 94.1%) reported “no” (Table 17).

Table 17. Boat as Primary Residence

Primary Residence	Respondents	Percent
No	240	94.1%
Yes	15	5.9%

N = 255

Table 16. Secondary Boat Types

Boat Type	Respondents	Percent
Kayak	34	24.5%
Inflatable w/ motor	31	22.3%
Powerboat	27	19.4%
Other	10	7.2%
Sailboat (> 8 ft) w/ aux	8	5.8%
Paddleboard	8	5.8%
Bass boat / jon boat	5	3.6%
Cabin cruiser	3	2.2%
Windsurfer	3	2.2%
Canoe	3	2.2%
Rowboat (w/o motor)	3	2.2%
Rowboat (w/ motor)	2	1.4%
Pontoon boat	1	0.7%
Sailboat (< 8 ft)	1	0.7%

N = 139

Non-Motorized Boater Survey

For the Los Angeles region, a total of 128 non-motorized boaters responded to this survey. The sample of non-motorized recreational boaters primarily reside in Los Angeles county (Table 18).

Participants’ Characteristics & Boat Ownership/Rentals

This results section provides information on study participants, including participants’ demographics, their households, and types of boats owned or rented.

Characteristics of Online Study Participants

Survey respondents were asked a range of demographic questions. Questions included ones related to gender, age, number of adults and children in the household, income, education level, ethnicity, and primary language spoken. These demographic questions were voluntary, and over half of the respondents (approximately 73%) chose to answer these questions.

Of those who chose to disclose his/her gender, there was a slightly higher number of male participants (54.3%) compared to female participants (44.7%) (Table 19).

Table 18. Counties Where Respondents Reside

County	Respondents	Percent
Los Angeles	90	70.3%
Ventura	38	29.7%

N = 128

Table 19. Gender of Survey Respondents

Gender	Respondents	Percent
Female	42	44.7%
Male	51	54.3%
Prefer not to say	1	1.1%

N = 94

The average age is 55, and the median is 55 years old (Table 20).

The number of adults and children reported in participants' household are summarized in Table 21 and Table 22, respectively.

For those responding to income-related questions, total household income and number of people contributing to household income can be found in Table 23 and Table 24, respectively.

Table 21. Number of Adults in Household

Adults	Respondents	Percent
1	22	24.4%
2	59	65.6%
3	7	7.8%
4	2	2.2%

N = 90

Table 23. Total Household Income (Before Taxes)

Income Range	Respondents	Percent
under \$25,000	2	2.1%
\$25,000 - \$49,999	6	6.4%
\$50,000 - \$74,999	18	19.1%
\$75,000 - \$99,999	14	14.9%
\$100,000 - \$124,999	10	10.6%
\$125,000 - \$149,999	11	11.7%
\$150,000 - \$174,999	17	18.1%
\$175,000 - \$199,999	4	4.3%
\$200,000 or more	12	12.8%

N = 94

Table 20. Age of Survey Respondents

Age Range	Respondents	Percent
18-29	2	2.13%
30-39	10	10.64%
40-49	14	14.89%
50-59	32	34.04%
60-69	28	29.79%
70-79	7	7.45%
80-96	1	1.06%

N = 94

Table 22. Number of Children in Household

Children	Respondents	Percent
0	75	84.3%
1	7	7.9%
2	7	7.9%

N = 89

Table 24. Number Contributing to Household Income

Earners	Respondents	Percent
1	34	38.2%
2	53	59.6%
3	2	2.2%

N = 89



The majority of respondents (88.3%) have completed some form of higher education: a 2-year degree, 4-year degree, or graduate school (Table 25).

Ethnicity and primary language spoken reported by survey respondents can be found in Table 26 and Table 27, respectively.

Boat Ownership/Rentals of Study Participants

Respondents were asked if they owned, rented, or both owned and rented non-motorized boats. The majority (84.4%) indicated owning a boat(s) (Table 28).

For those owning a non-motorized watercraft, they were asked how many non-motorized boats they own. Approximately, 76.% reported owning two or more boats (Table 29).

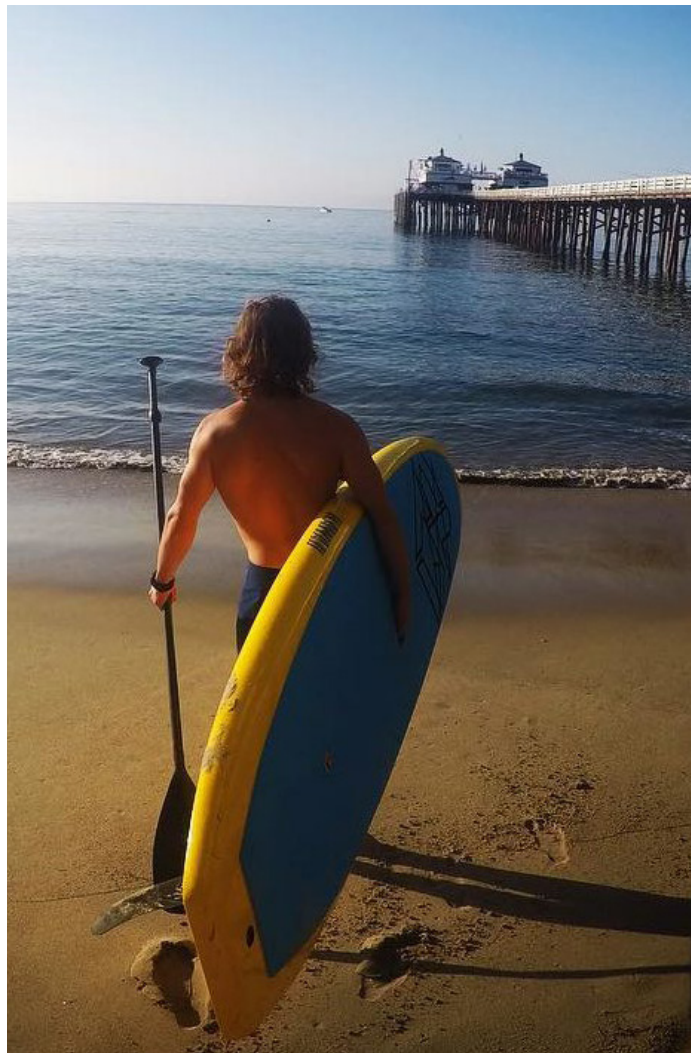


Table 25. Participants' Highest Education Level Completed

Education Level	Respondents	Percent
High School	6	6.4%
2-Year College Degree	8	8.5%
4-Year College Degree	35	37.2%
Graduate School	40	42.6%
Other	5	5.3%

N = 94

Table 26. Ethnicity of Survey Respondents

Ethnicity	Respondents	Percent
White	80	85.1%
Asian	4	4.3%
Bi/multiracial	4	4.3%
Hispanic or Latino	3	3.2%
Black or African American	2	2.1%
Prefer not to say	1	1.1%

N = 94

Table 27. Primary Language of Survey Respondents

Primary Language	Respondents	Percent
English	91	96.8%
Other	1	1.1%
Spanish	1	1.1%
German	1	1.1%

N = 94

Table 28. Own vs. Rent Boats

Number of Boats	Respondents	Percent
Both Rent and Own	21	16.4%
Own	87	68.0%
Rent	20	15.6%

N = 128

Table 29. Number of Non-motorized Boats Owned

# of Boats Owned	Respondents	Percent
1	24	23.3%
2	26	25.2%
3	15	14.6%
4	12	11.7%
5	7	6.8%
6 - 10	14	13.6%
11 or more	5	4.9%

N = 103

Respondents were also asked to identify the type of boat(s) they own. The most frequently mentioned boats include outrigger canoes, SUP, and kayaks (touring, sit on top, river) (Table 30).

For those renting boats, they were also asked to identify the type of boat(s) they rent. The most frequently mentioned boats include ocean kayaks (sit on top) and SUP (Table 31).

Table 30. Boat Types Owned by Participants

Boat Type	Responses	Percent
Outrigger canoe	37	18.8%
SUP	29	14.7%
Ocean kayak (sit on top)	26	13.2%
Ocean kayak (touring)	25	12.7%
River kayak	23	11.7%
Canoe	15	7.6%
Inflatable kayak	11	5.6%
Sailboat (<8 ft)	6	3.0%
Whitewater raft	5	2.5%
Scull/shell	4	2.0%
Windsurfer	4	2.0%
Dragon boat	3	1.5%
Dory	2	1.0%
Kitesurfer	2	1.0%
Rowboat	2	1.0%
Surfski /surf kayak	2	1.0%
Prone paddleboard	1	0.5%
Dinghy/small raft	0	0.0%

Total Count = 197

Table 31. Boat Types Rented by Participants

Boat Type	Responses	Percent
Ocean kayak (sit on top)	16	18.6%
SUP	10	11.6%
Ocean kayak (touring)	9	10.5%
Scull/shell	9	10.5%
Dragon boat	7	8.1%
Outrigger canoe	7	8.1%
Canoe	6	7.0%
River kayak	6	7.0%
Inflatable kayak	3	3.5%
Sailboat (<8 ft)	3	3.5%
Whitewater raft	3	3.5%
Windsurfer	3	3.5%
Dory	1	1.2%
Kitesurfer	1	1.2%
Prone paddleboard	1	1.2%
Rowboat	1	1.2%
Dinghy/small raft	0	0.0%
Surfski /surf kayak	0	0.0%

Total Count = 86



Waterways Used by Recreational Boaters













In both the motorized and non-motorized boater surveys, participants were asked to identify two waterways in California they most frequently used for recreational boating activities within the past two years (see map for waterways identified by participants as most frequented). Subsequent questions focused on aspects related to the particular waterway, including (a) what types of boats they use on the waterway and (b) perceptions of use and level of crowdedness. Similar questions related to use and crowdedness were also asked on the facility survey.



Most Frequented Waterways

The following table summarizes the waterways most frequently reported for motorized and non-motorized boaters (Table 32) in response to the question: *Which two waterways have you visited most frequently within the past 2 years?* The “propeller” icon represents approximately 5% of those main waterways reported in Table 32 as most frequently visited by motorized boaters. For example, Long Beach Harbor represents 15% (3 propellers) of those reported as most frequently visited waterways by motorized-boater study participants. Similarly, the “paddle” icon represents approximately 5% of those waterways reported in Table 32 as most frequently visited by non-motorized-boater study participants. For example, Long Beach Harbor represents 15% (3 paddles) of those reported as most frequently visited waterways by non-motorized boaters. The total number of waterway reports, including those not listed in Table 32, can be found in Appendix A and B.

Table 32. Reported as Primary Waterway by Respondents

Primary Waterway	Motorized Boaters	Non-motorized Boaters
Long Beach Harbor		
Ventura Harbor		
Marina Del Rey		
Alamitos Bay		
Avalon Harbor (Catalina Island)		
Pacific Ocean		
Two Harbors (Catalina Island)		
Channel Islands Harbor		
San Pedro Bay		
Castaic Lake		
Pyramid Lake		
King Harbor		
Puddingstone Lake		
Lake Piru		

Types of Boats on Primary Waterways

Study participants were asked which boat(s) they use most frequently on those waterways.¹ These findings are presented in Table 33 for the primary waterways in this region (those listed in Table 32 and in the same order). For each waterway, the total number of reported motorized boat types and the total number of non-motorized reported boat types were generated. From those totals, percentages of the various boat types were calculated. In both the motorized and non-motorized boat type columns, the top two or three boat types reported for that waterway are included; boat types with small percentages are not included. For example, powerboats represent 54% and sailboats (over 8 feet with auxiliary) represent 16% of the total number of boat types reported on Long Beach Harbor. The remaining 30% include a wide range of the other possible motorized boat types. If a boating sub-population (i.e., motorized or non-motorized) did not identify a waterway as primary, boat type data are not included in the cell.

Table 33. Boat Types on Primary Waterways

Primary Waterway	Motorized Boat Types	Non-motorized Boat Types
Long Beach Harbor	Powerboat (54%) Sailboat (> 8 ft) w/ aux (16%)	Dragon Boat (67%)
Ventura Harbor	Powerboat (38%) Sailboat (> 8 ft) w/ aux (29%)	Outrigger Canoe (42%) SUP (29%) Ocean Kayak (16%)
Marina Del Rey	Sailboat (> 8 ft) w/ aux (41%) Powerboat (33%)	Outrigger Canoe (35%) SUP (26%) Ocean Kayak (15%)
Alamitos Bay	Powerboat (59%) Cabin Cruiser (16%)	Outrigger Canoe (41%) Dragon Boat (36%)
Avalon Harbor/Catalina Island	Cabin Cruiser (33%) Inflatable w/ motor (28%) Powerboat (21%)	Outrigger Canoe (80%)
Pacific Ocean	Powerboat (38%) Cabin Cruiser (24%)	SUP (38%) Outrigger Canoe (31%)
Two Harbors	Powerboat (32%) Inflatable w/ motor (27%) Cabin Cruiser (20%) Sailboat (> 8 ft) w/ aux (20%)	_____
Channel Islands Harbor	Powerboat (34%) Cabin Cruiser (26%) Sailboat (> 8 ft) w/ aux (26%)	_____
San Pedro Bay	_____	SUP (40%) Outrigger Canoe (28%)
Castaic Lake	Powerboat (59%) Bass Boat / Jon Boat (22%)	_____
Pyramid Lake	Powerboat (69%) Bass Boat / Jon Boat (12%) PWC (12%)	_____
King Harbor	_____	Outrigger Canoe (55%) SUP (27%)

Puddingstone Lake Lake Piru	Powerboat (29%) PWC (29%) Bass Boat / Jon Boat (21%) Powerboat (60%)	_____ _____
--------------------------------	---	----------------

Motorized: Total Count of Responses = 399

Non-motorized: Total Count of Responses = 228

¹ Motorized watercrafts include: barge, bass boat/jon boat, cabin cruiser, houseboat, inflatable with motor, pontoon boat, powerboat, PWC, rowboat with motor, sailboat (over 8 feet) with auxiliary, and others. Non-motorized watercrafts include: canoe, dory, dragon boat, inflatable kayak, kitesurfer, ocean kayak (sit on top), ocean kayak (touring), outrigger canoe, prone paddleboard, river kayak, rowboat, sailboat (under 8 feet), scull or shell boat, stand up paddleboard, surfski, whitewater raft, windsurfer, and other.

Perceptions of Use and Level of Crowdedness

Table 34 visually represents the perceptions of use and levels of crowdedness of motorized and non-motorized watercrafts through “propeller” and “paddle” icons for each waterway in the region (listed in alphabetical order). **In sum, more icons equate to perceptions of heavier usage and crowdedness.**

In both the motorized and non-motorized boater surveys, the study participants were asked to indicate their perception of boat use and crowdedness of their most frequented waterways by checking one option to the following question: *How would you describe the usage of [WATERWAY NAME] by motorized [and non-motorized] boaters?*

- Extremely heavy use / over-crowding (scored as 4)
- Heavy use / frequent crowding (scored as 3)
- Moderate use / occasional crowding (scored as 2)
- Low use / rarely crowded (scored as 1)

The answers were scored from 1 (low use) to 4 (extremely heavy use). For each waterway in the region, the motorized and non-motorized survey responses were combined for perceptions of watercrafts use. An average was calculated for both motorized and non-motorized watercrafts for each waterway (see Appendix C for all of the averages). By rounding the average to the nearest whole number, a waterway received a score of 1 – 4 where one icon represents a score of 1 (low use) and 4 icons represent a score of (extremely heavy use). For example, Alamitos Bay is perceived as having ‘moderate use/occasional crowding’ for motorized watercrafts (2 propellers) and ‘moderate use/occasional crowding’ for non-motorized watercrafts (2 paddles).

Table 34. Perceptions of Use/Crowdedness

Waterway	Watercrafts
Alamitos Bay	
Avalon Harbor	
Castaic Lake	
Channel Islands Harbor	
King Harbor	
Lake Casitas	
Lake Piru	
Little Rock Reservoir	
Long Beach Harbor	
Marina Del Rey	
Pacific Ocean	
Puddingstone Lake	
Pyramid Lake	
Redondo Beach Harbor	
San Pedro Bay	
Santa Fe Dam Reservoir	
Two Harbors	
Ventura Harbor	

Total Count of Responses = 500

Facility Needs, Issues, & Reasons for Visiting

In this section, facility needs and boating issues from the perspectives of motorized and non-motorized boaters are summarized, along with the reasons they visit particular waterways. This section concludes with facility needs and boating issues from the perspectives of facility owners/managers and law enforcement agents who completed the surveys.

Facility Needs: Recreational Boater Perspectives

In both the motorized and non-motorized boater surveys, study participants were asked to respond to the following question for their most frequented waterways: *Please check all of the facilities and services that either need to be improved upon and/or added to [WATERWAY NAME] for **motorized** boats [and **non-motorized**] (check all that apply).*²

These findings are summarized in Table 35 for the primary waterways in this region (those listed in Table 32 and in the same order). For each waterway, the total number of reported facility needs for both motorized and non-motorized boats were generated. From those totals, percentages of the various needs were calculated. For the shared, motorized, and non-motorized needs columns, the top three or four needs reported for that waterway are included; needs with small percentages are not included. If a boating sub-population (i.e., motorized or non-motorized) did not identify a waterway as primary or indicate a need, data are not included in the cell. Please note that all of the facility need data for all waterways in this region can be found in Appendix D for motorized boaters and Appendix E for non-motorized boaters. Additional comments from all survey participants regarding facility needs can be found in Appendix F.

Table 35. Facility Needs on Primary Waterways

Primary Waterway	Shared Facility Needs	Motorized Facility Needs	Non-motorized Facility Needs
Long Beach Harbor	Restrooms (27%) Showers (25%) Parking (17%)	Day Docks (short-term) (16%) Mooring Fields (12%) Pump-Out Stations (10%) Transient Facilities/Tie-Ups (10%)	Launch Spots (by hand) (30%) Access to Fresh Water (17%) Landings (11%) Security (11%)
Ventura Harbor	Showers (25%) Restrooms (23%) Parking (21%)	Marine Service & Repairs (17%) Mooring Fields (17%)	Launch Spots (by hand) (30%) Landings (15%) Access to Fresh Water (15%)
Marina Del Rey	Restrooms (28%) Showers (25%) Parking (20%)	Day Docks (short-term) (22%) Transient Facilities/Tie-Ups (15%) Pump-Out Stations (12%)	Launch Spots (by hand) (28%) Access to Fresh Water (19%) Security (17%)
Alamitos Bay	Restrooms (28%) Showers (24%) Parking (22%)	Day Docks (short-term) (16%) Launch Ramps (11%) Transient Facilities/Tie-Ups (11%)	Launch Spots (by hand) (29%) Access to Fresh Water (19%) Boat-In Campsites (14%) Security (14%)

² Shared facility need options include: boating access, parking, restrooms, showers, supply stores, emergency services, and navigation aids. Motorized facility needs include: boarding floats, day docks (short-term dockage), dry storage, fish cleaning stations, floating docks/piers, landings/boat-in sites, launch ramps, marinas (slips), marine service & repairs, mooring fields, pump-out stations, transient facilities/tie-ups, utilities, and other. Non-motorized facility needs include: landings, boat-in campsites, boat-in day-use areas, launch spots (by hand), access to fresh water, launch spots (by other ways e.g., trailer), take-out spots, rinse station (boats/gear), boat storage, security, personal storage, campgrounds, garbage cans, and other.

Avalon Harbor (Catalina Island)	Showers (33%) Boating Access (26%) Restrooms (26%)	Mooring Fields (20%) Day Docks (short-term) (15%) Boarding Floats (14%)	Launch Spots (by hand) (31%) Access to Fresh Water (23%) Landings (15%) Boat-In Day-Use Areas (15%)
Pacific Ocean	Parking (23%) Restrooms (23%) Showers (17%)	Launch Ramps (17%) Day Docks (short-term) (13%) Marinas (slips) (10%) Transient Facilities/Tie-Ups (10%)	Launch Spots (by hand) (22%) Access to Fresh Water (19%) Boat Storage (16%)
Two Harbors (Catalina Island)	Restrooms (32%) Showers (25%) Boating Access (14%) Supply Stores (14%)	Pump-Out Stations (20%) Day Docks (short-term) (17%) Mooring Fields (15%)	Access to Fresh Water (30%) Boat-In Campsite (20%)
Channel Islands Harbor	Supply Stores (26%) Restrooms (22%) Parking (19%) Showers (19%)	Fish Cleaning Stations (21%) Transient Facilities/Tie-Ups (18%) Day Docks (short-term)	Launch Spots (by hand) (40%)
San Pedro Bay	Parking (22%) Showers (21%) Restrooms (20%)	Landings/Boat-In Sites (50%) Pump-Out Stations (50%)	Security (23%) Launch Spots (by hand) (21%) Landings (16%)
Castaic Lake	Restrooms (29%) Parking (17%) Supply Stores (17%)	Launch Ramps (27%) Day Docks (short-term) (18%) Fish Cleaning Stations (18%)	Boat-In Campsites (30%) Launch Spots (by hand) (20%)
Pyramid Lake	Boating Access (24%) Parking (24%) Restrooms (24%) Supply Stores (24%)	Landings/Boat-In Sites (28%) Day Docks (short-term) (16%) Launch Ramps (16%)	_____
King Harbor	Restrooms (32%) Parking (25%) Showers (21%)	Day Docks (short-term) (14%) Launch Ramps (14%) Marinas (slips) (14%)	Launch Spots (by hand) (46%) Launch Spots (by other ways) (15%) Security (15%)
Puddingstone Lake	Restrooms (60%) Supply Stores (40%)	Day Docks (short-term) (42%) Fish Cleaning Stations (25%) Pump-Out Stations (17%)	Access to Fresh Water (50%) Boat-In Day-Use Areas (25%) Launch Spots (by hand) (25%)
Lake Piru	Boating Access (40%) Parking (20%) Restrooms (20%) Showers (20%)	Day Docks (short-term) (33%) Launch Ramps (33%) Fish Cleaning Stations (22%)	_____

Shared Facility Needs: Total Count of Responses = 574

Motorized Facility Needs: Total Count of Responses = 551

Non-motorized Facility Needs: Total Count of Responses = 265

Main Issues: Recreational Boater Perspectives

In both the motorized and non-motorized boater surveys, study participants were asked to respond to the following question for their most frequented waterways: *What are the biggest problems you have experienced at [WATERWAY NAME]?* (Check up to three)³

These findings are summarized in Table 36 for the primary waterways in this region (those listed in Table 32 and in the same order). For each waterway, the total number of reported issues/problems for both motorized and non-motorized boaters were generated. From those totals, percentages of the various issues were calculated. For the motorized and non-motorized issues columns, the top three or four problems reported for that waterway are included; problems with small percentages are not included. If a boating sub-population (i.e., motorized or non-motorized) did not identify a waterway as primary or indicate an issue, data are not included in the cell. Please note that all of the problems/issues data for all waterways in this region can be found in Appendix G for motorized boaters and Appendix H for non-motorized boaters.

Table 36. Issues on Primary Waterways

Primary Waterway	Motorized Boater Perspective	Non-motorized Boater Perspective
Long Beach Harbor	Overcrowding (22%) Have Not Experienced Any Problems (19%) High Facility Use Fee (12%)	Lack of Parking (22%) Have Not Experienced Any Problems (22%) Poor Water Quality (17%)
Ventura Harbor	Have Not Experienced Any Problems (27%) Reckless PWC Operators (15%) Issues with Non-motorized Boaters (12%)	Have Not Experienced Any Problems (48%) Lack of Parking (21%) Poor Water Quality (10%)
Marina Del Rey	Lack of Parking (16%) Overcrowding (16%) Reckless PWC Operators (16%)	Poor Water Quality (32%) Lack of Parking (16%) Floating Debris (14%)
Alamitos Bay	Have Not Experienced Any Problems (18%) Lack of Parking (15%) Overcrowding (12%)	Have Not Experienced Any Problems (25%) Lack of Parking (25%)
Avalon Harbor (Catalina Island)	Overcrowding (43%) High Facility Use Fee (13%) Have Not Experienced Any Problems (11%)	Overcrowding (100%)
Pacific Ocean	Have Not Experienced Any Problems (20%) Floating Debris (17%) Reckless PWC Operators (17%)	Lack of Parking (36%) Floating Debris (14%) Have Not Experienced Any Problems (14%)
Two Harbors (Catalina Island)	Overcrowding (35%) High Facility Use Fee (27%) Have Not Experienced Any Problems (17%)	Lack of Parking (50%) Reckless PWC Operators (25%) Difficult to Access Waterway (25%)
Channel Islands Harbor	Have Not Experienced Any Problems (42%) Overcrowding (9%) Issues with Non-motorized Boaters (9%) Insufficient Water Depth (9%)	Lack of Parking (43%) Have Not Experienced Any Problems (43%) Issues with Motorized Boaters (14%)

³ Problems/issue options include: lack of parking, overcrowding, reservations required, poor ramp condition, poor water quality, poor road access, floating debris, issues with motorized boaters, reckless PWC operators, issues with non-motorized boaters, issues with shipping vessels, excessive/rude law enforcement, lack of law enforcement, invasive species, high facility use fee, insufficient water depth, difficult to access waterway, other, and I have not experienced problems at this waterway.

San Pedro Bay	_____	Have Not Experienced Any Problems (26%) Lack of Parking (23%) Poor Water Quality (17%)
Castaic Lake	Overcrowding (16%) Insufficient Water Depth (16%) High Facility Use Fee (11%) Have Not Experience Any Problems (11%)	Excessive/Rude Law Enforcement (50%) Invasive Species (50%)
Pyramid Lake	Overcrowding (19%) Reckless PWC Operatorss (17%) High Facility Use Fee (15%)	_____
King Harbor	Lack of Parking (25%) Floating Debris (25%)	Lack of Parking (21%) Poor Ramp Condition (14%) Difficult to Access Waterway (14%)
Puddingstone Lake	Have Not Experienced Any Problems (33%) Poor Ramp Condition (17%) High Facility Use Fee (17%)	Poor Water Quality (100%)
Lake Piru	Have Not Experienced Any Problems (27%) Insufficient Water Depth (27%) Invasive Species (18%)	_____

Motorized Perspective: Total Count of Responses = 518

Non-motorized Perspective: Total Count of Responses = 188

Reasons for Visiting Waterways: Recreational Boater Perspectives

In both the motorized and non-motorized boater surveys, study participants were asked to respond to the following questions for their most frequented waterways: *What are the top reasons you visit [WATERWAY NAME]? (Check up to three)*⁴

These findings are summarized in Table 37 for the primary waterways in this region (those listed in Table 32 and in the same order). For each waterway, the total number of reported reasons for both motorized and non-motorized boaters were generated. From those totals, percentages of the various reasons were calculated. For the motorized and non-motorized reasons columns, the top three or four reasons reported for that waterway are included; reasons with small percentages are not included. If a boating sub-population (i.e., motorized or non-motorized) did not identify a waterway as primary or indicate a reason, data are not included in the cell.

Table 37. Reasons for Boating Primary Waterways

Primary Waterway	Motorized Boater Reasons	Non-motorized Boater Reasons
Long Beach Harbor	Close to Home (26%) Scenery / Natural Beauty (22%) Good Facilities (14%)	Close to Home (40%) Scenery / Natural Beauty (18%) No Fees (15%)
Ventura Harbor	Scenery / Natural Beauty (25%) Good Facilities (20%) Close to Home (18%)	Close to Home (34%) Scenery / Natural Beauty (19%) No Fees (17%)
Marina Del Rey	Close to Home (36%) Good Facilities (20%) Large Water Area (20%)	Close to Home (45%) Scenery / Natural Beauty (14%) Good Facilities (10%)
Alamitos Bay	Close to Home (40%) Large Water Area (16%) Good Facilities (10%)	Close to Home (54%) No Fees (38%) Good Facilities (8%)
Avalon Harbor (Catalina Island)	Scenery / Natural Beauty (38%) Close to Home (22%) Good Fishing (14%)	Scenery / Natural Beauty (60%) Good Facilities (20%) Good Fishing (20%)
Pacific Ocean	Close to Home (28%) Large Water Area (26%) Scenery / Natural Beauty (16%)	Close to Home (24%) No Fees (24%) Scenery / Natural Beauty (24%)
Two Harbors (Catalina Island)	Scenery / Natural Beauty (41%) Close to Home (13%) Good Facilities (13%)	Scenery / Natural Beauty (33%) Close to Home (17%) Good Camping (17%) Good Facilities (17%) Warm Water (17%)
Channel Islands Harbor	Close to Home (29%) Good Facilities (14%) No Fees (12%) Large Water Area (12%)	Close to Home (44%) No Fees (22%)

⁴ Reasons options include: close to home, good camping, good facilities, good fishing, close to vacation home or camp, not crowded, no fees, no restrictions, scenery, natural beauty, warm water, large water area, and other. The additional reasons emerged for the non-motorized boaters: few motorized boats, good whitewater, reliable releases, regattas, good wind, and club site.

San Pedro Bay	Close to Vacation Home or Camp (33%) No Fees (33%) No Restrictions (33%)	Close to Home (31%) No Fees (27%) Scenery / Natural Beauty (16%)
Castaic Lake	Close to Home (42%) Large Water Area (25%) Good Fishing (11%) Scenery / Natural Beauty (11%)	Close to Home (33%) Not Crowded (33%) Few Motorized Boats (33%)
Pyramid Lake	Close to Home (36%) Large Water Area (26%) Scenery / Natural Beauty (14%)	_____
King Harbor	Close to Home (33%) Good Facilities (22%)	Close to Home (45%) Scenery / Natural Beauty (18%)
Puddingstone Lake	Close to Home (75%) Warm Water (17%) Good Facilities (8%)	Close to Home (67%) Scenery / Natural Beauty (33%)
Lake Piru	Close to Home (44%) Good Camping (13%) Good Fishing (13%) Not Crowded (13%)	_____

Motorized Reasons Total Count of Responses = 645

Non-motorized Reasons: Total Count of Responses = 230

Facility Needs: Facility & Law Enforcement Perspectives

In the facility survey, facility owners/managers were asked to identify facility needs on the waterway where the facility was located. Law enforcement officers were also requested to provide similar information about the waterway(s) within their areas of responsibility. These findings are summarized in Table 38. Law enforcement responses are noted with “LE” before the comment.

Table 38. Facility Needs: Facility and Law Enforcement Surveys

Waterway	Facility and Law Enforcement Perspectives
Alamitos Bay	Boat Camping, Day docks (short-term dockage), Dry Storage, Launch ramps, Mooring fields, Parking for vehicles / trailers, Transient facilities / tie-ups, Access to fresh water (non-motorized) Boat-in campsites (non-motorized), Boat-in day use area (non-motorized), Launch ramps (for small trailers) (non-motorized), Parking (non-motorized), Restrooms (non-motorized), Showers (non-motorized).
Castaic Lake	Boarding floats, Boating access, Mooring fields.
Castaic Lake	Day docks (short-term dockage), Floating docks / piers, Transient facilities / tie-ups, Utilities.
Channel Islands Harbor	Boarding floats, Boating access, Day docks (short-term dockage), Dry Storage, Fish cleaning stations, Floating docks / piers, Launch ramps, Marine service & repairs, Mooring fields, Showers, Utilities, Landings (non-motorized), Launch ramps (for small trailers) (non-motorized).

Channel Islands Harbor	Boarding floats, Boating access, Floating docks / piers, Launch ramps, Mooring fields, Transient facilities / tie-ups, Carry down paths (non-motorized), Landings (non-motorized), Launch ramps (for small trailers) (non-motorized).
Channel Islands Harbor	LE: Educate people regarding fishing restrictions.
Channel Islands Harbor	Boarding floats, Day docks (short-term dockage), Dry Storage, Fish cleaning stations, Landings / boat-in sites, Transient facilities / tie-ups.
King Harbor	LE: improved rental conditions and training.
Lake Casitas	Boarding floats, Day docks (short-term dockage), Fish cleaning stations, Floating docks / piers, Fuel docks, Landings / boat-in sites, Launch ramps, Marinas (slips), Marine service & repairs, Mooring fields, Navigation aids (buoys, markers), Restrooms, Showers, Utilities, Boat-in day use area (non-motorized), Boating access (non-motorized), Carry down paths (non-motorized), Landings (non-motorized), Showers (non-motorized).
Marina Del Rey	LE: restricted mooring rules in proximity to harbor.
Marina Del Rey	Day docks (short-term dockage), Dry Storage, Fish cleaning stations, Marine service & repairs, Navigation aids (buoys, markers), Parking for vehicles / trailers, Pump-out stations, Supply stores, Emergency Servicess (non-motorized), Landings (non-motorized), Launch ramps (for small trailers) (non-motorized), Navigation aids (buoys, markers) (non-motorized), Supply stores (non-motorized), education to kayakers education to paddleboarders.
Marina Del Rey	Day docks (short-term dockage), Dry Storage, Landings / boat-in sites, Launch ramps, Pump-out stations, Supply stores, Carry down paths (non-motorized), Landings (non-motorized), Launch ramps (for small trailers) (non-motorized).
Marina Del Rey	Marine service & repairs.
Pacific Ocean	Boarding floats, Boating access, Day docks (short-term dockage), Launch ramps, Marine service & repairs, Parking for vehicles / trailers, Pump-out stations, Supply stores, Landings (non-motorized), Launch ramps (for small trailers) (non-motorized), Parking (non-motorized), Restrooms (non-motorized), Showers (non-motorized), Supply stores (non-motorized).
Pacific Ocean	Fish cleaning stations, Marine service & repairs, Supply stores, Supply stores (non-motorized).
Ventura Harbor	Carry down paths (non-motorized).
Ventura Harbor	Marinas (slips).
Ventura Harbor	Showers, Showers (non-motorized).

N = 18

Main Issues: Facility & Law Enforcement Perspectives

In the facility survey, facility owners/managers were asked to identify boating issues on the waterway where the facility was located. Law enforcement officers were also requested to provide similar information about the waterway(s) within their areas of responsibility. These findings are summarized in Table 39. Law enforcement responses are noted with “LE” before the comment.

Table 39. Issues/Problems: Facility & Law Enforcement Surveys

Waterway	Facility and Law Enforcement Perspectives
Channel Islands Harbor	Reckless PWC operators.
Channel Islands Harbor	LE: Fishing restrictions/prohibitions with people fishing in them.
King Harbor	LE: numerous rental craft and novice operators.
King Harbor	Invasive species.
Lake Casitas	Insufficient water depth, Poor ramp condition.
Marina Del Rey	LE: numerous derelict vessels mooring outside of harbor.
Marina Del Rey	Lack of parking.
Marina Del Rey	No problems.
Pacific Ocean	Lack of parking, Poor ramp condition, Poor water quality, Poor road access, Issues w/ shipping vessels.
Ventura Harbor	Insufficient water depth, Lack of parking, Poor water quality, Floating debris, Conflict w/ motorized & Non-motorized Boaters.
Ventura Harbor	Lack of parking, Overcrowding, Issues w/ Non-motorized Boaters, Conflict w/ motorized & Non-motorized Boaters
Ventura Harbor	No problems.

N = 12

Forecasts for Registered Recreational Motorized Boats

In this section, forecasts of registered recreational motorized boats for this region are provided. Forecasts include total number of boats, boats by propulsion type, and boats by length. The methods used in generating these forecasts are described in *Volume II: Methods*. The data used in generating these forecasts are from the DMV for 2012, 2014, and 2016.⁵ In the figures, the actual data used to generate the forecasts from the DMV are in blue, while the forecasts are in yellow. These numbers are also found in Tables 40 and 41. Regardless of propulsion or length, the overall trend illustrates a decrease in the number of registered recreational motorized boats and the forecasts reflect a continued decline in the number of recreational motorized boats over the next four years.

Figure 1. Total Number of DMV-Registered Motorized Boats

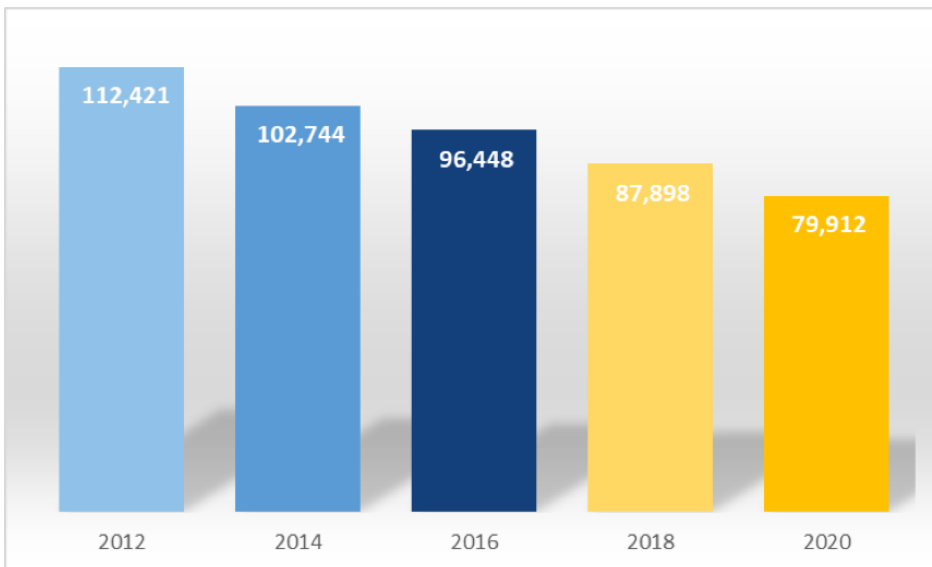
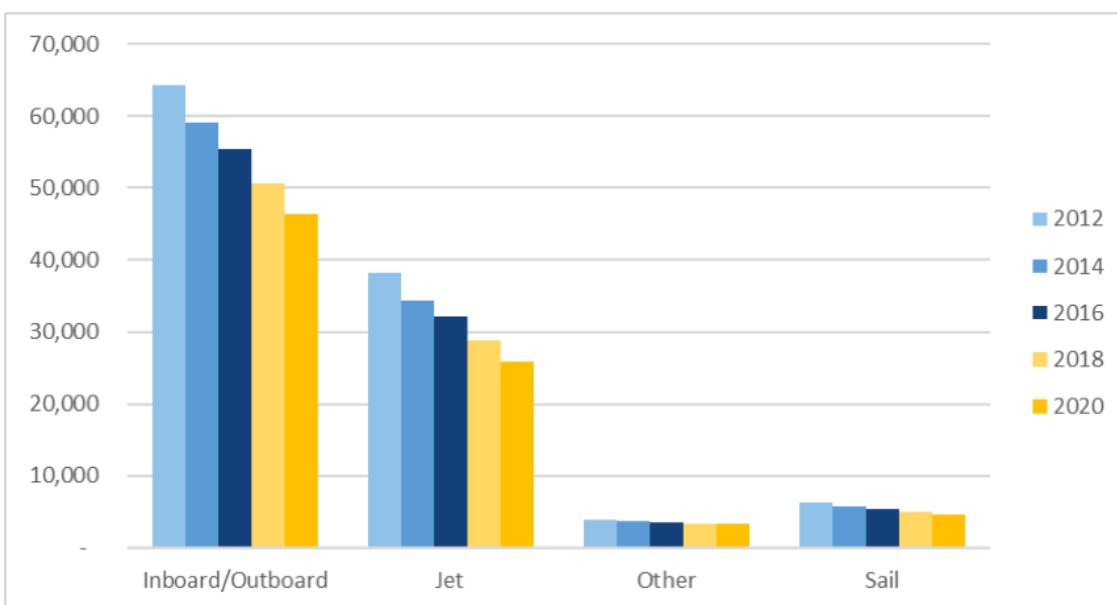


Figure 2. Motorized Boats by Propulsion Type



⁵ Please note that the USCG data are not included in these analyses, because the USCG could not provide the data. Historically, approximately 3.5% of the total number of boats registered in the state of California are registered with the DMV.

Table 40. Motorized Boat by Propulsion (Figure 2)

Propulsion Type	2012	2014	2016	2018	2020
Inboard/ Outboard	64,207	59,101	55,362	50,712	46,289
Jet	38,157	34,269	32,145	28,845	25,839
Other	3,776	3,592	3,531	3,388	3,266
Sail	6,281	5,782	5,409	4,952	4,516
TOTAL	112,421	102,744	96,448	87,898	79,912

Actual Values: 2012, 2014, 2016

Forecasted Values: 2018, 2020

Figure 3. Motorized Boats by Length (Less than 26 feet)

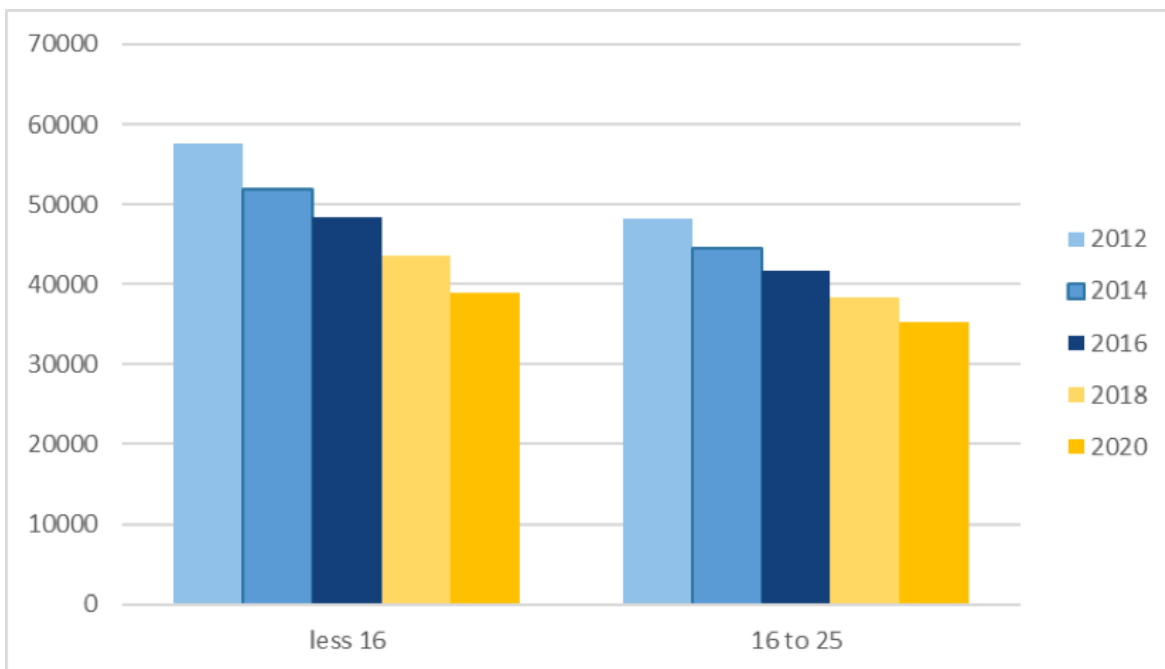


Figure 4. Motorized Boats by Length (Greater than or equal to 26 feet)

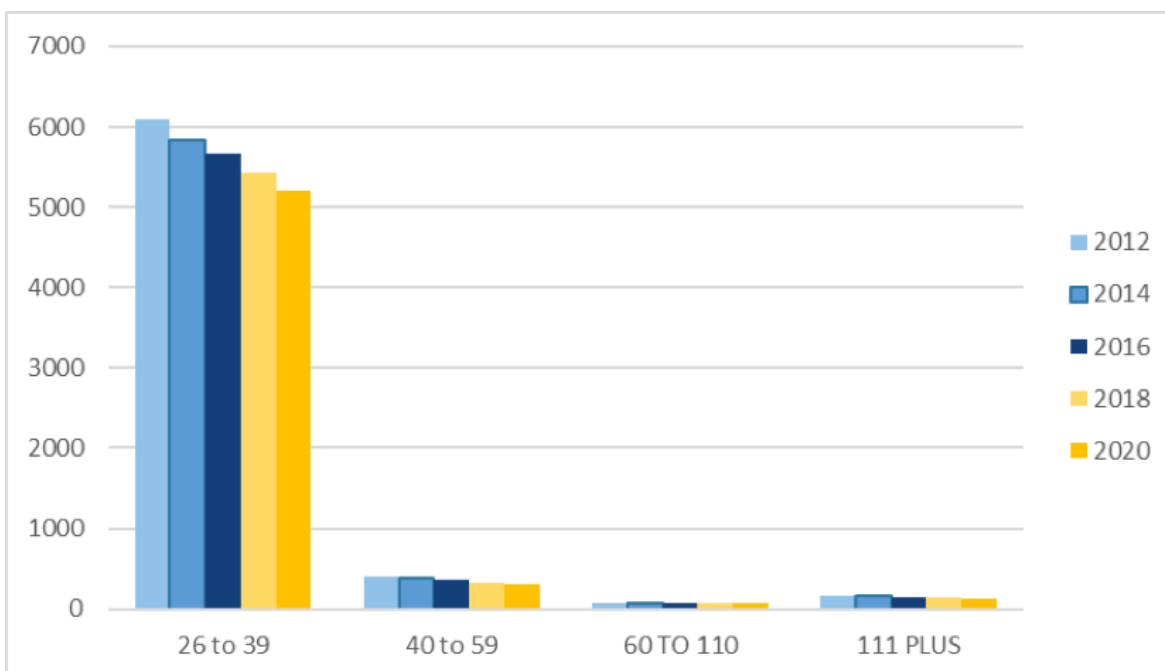


Table 41. Motorized Boat by Length (Figures 3 and 4)

Length in Feet	2012	2014	2016	2018	2020
less than 16	57,566	51,896	48,441	43,509	38,947
16 to 25	48,120	44,418	41,782	38,435	35,266
26 to 39	6,101	5,836	5,659	5,423	5,202
40 to 59	409	377	358	330	305
60 to 110	67	63	64	62	60
111 or more	158	154	144	139	132
TOTAL	112,421	102,744	96,448	87,898	79,912

Actual Values: 2012, 2014, 2016

Forecasted Values: 2018, 2020

In *Volume II: Methods*, a description of the boating facility database is provided. Table 42 summarizes the total counts of the different facility types in this region.¹ Facilities are also listed by waterways in Appendix I.

Study participants for the motorized and non-motorized boater surveys were asked where they launch their boats, and these findings are presented in Appendix J.

Table 42. Existing Boating Facilities & Access

Facility Type	Number in Region
Boat Launch	40
Dry Storage	22
Marina	84
Mooring Field	19
Aquatic Center/BISC	8
Boating Access	16
Fuel Dock	5
Landing/Boat-In Sites	6
Marine Services/Repair	3
SSR Facility	2
Yacht Club	11

Total Count = 216

¹ As discussed in *Volume II: Methods*, not all facilities and boating access points are captured in this database. In the recommendations section of *Volume III: Statewide*, the research team recommends DBW be responsible for updating the database on an ongoing basis.

Appendices

Appendix A. Preferred Waterway Reported by Motorized Boaters

Appendix A.

Waterway	Motorized Count
Alamitos Bay	44
Avalon Harbor	45
Castaic Lake	32
Channel Islands Harbor	35
Elizabeth Lake	1
King Harbor	8
Lake Casitas	5
Lake Piru	10
Little Rock Reservoir	4
Long Beach Harbor	50
Marina Del Rey	27
Pacific Ocean	29
Puddingstone Lake	14
Pyramid Lake	26
San Pedro Bay	1
Two Harbors	44
Ventura Harbor	24

Appendix B. Preferred Waterway Reported by Non-motorized Boaters

Appendix B.

Waterway	Non-Motorized Count
Alamitos Bay	15
Avalon Harbor	13
Castaic Lake	1
Channel Islands Harbor	8
King Harbor	12
Lake Casitas	1
Legg Lake	1
Long Beach Harbor	35
Marina Del Rey	51
Pacific Ocean	21
Puddingstone Lake	2
Redondo Beach Harbor	6
San Pedro Bay	40
Santa Fe Dam Reservoir	4
Two Harbors	3
Ventura Harbor	61

Appendix C. Perceptions of Use Level / Crowdedness

Appendix C

Waterway	Motorized Watercrafts	Non-Motorized Watercrafts
Alamitos Bay	2.21	2.33
Avalon Harbor	2.80	2.24
Castaic Lake	2.10	1.40
Channel Islands Harbor	1.86	1.69
King Harbor	2.00	2.00
Lake Casitas	1.83	1.20
Lake Piru	1.67	1.00
Little Rock Reservoir	—	2.00
Long Beach Harbor	1.94	1.67
Marina Del Rey	2.19	2.23
Pacific Ocean	1.85	1.74
Puddingstone Lake	2.00	1.45
Pyramid Lake	2.41	1.50
Redondo Beach Harbor	1.50	2.50
San Pedro Bay	2.13	2.56
Santa Fe Dam Reservoir	1.75	2.00
Two Harbors	2.44	1.76
Ventura Harbor	2.00	2.00

Total Count of Responses = 500

(1 = not crowded, 4 = extremely crowded)

Appendix D. Facility Needs Reported by Motorized Boaters

Appendix D. Boating Access (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	6	13.6%
Avalon Harbor	43	9	20.9%
Castaic Lake	32	3	9.4%
Channel Islands Harbor	35	1	2.9%
Elizabeth Lake	1	0	0.0%
King Harbor	8	1	12.5%
Lake Casitas	5	1	20.0%
Lake Piru	10	2	20.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	7	14.0%
Marina Del Rey	27	0	0.0%
Pacific Ocean	29	4	13.8%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	4	15.4%
San Pedro Bay	1	0	0.0%
Two Harbors	44	1	2.3%
Ventura Harbor	24	1	4.2%

Appendix D. Day Docks (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	13	29.5%
Avalon Harbor	43	13	30.2%
Castaic Lake	32	6	18.8%
Channel Islands Harbor	35	5	14.3%
Elizabeth Lake	1	0	0.0%
King Harbor	8	2	25.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	3	30.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	11	22.0%
Marina Del Rey	27	9	33.3%
Pacific Ocean	29	6	20.7%
Puddingstone Lake	14	5	35.7%
Pyramid Lake	26	4	15.4%
San Pedro Bay	1	0	0.0%
Two Harbors	44	9	20.5%
Ventura Harbor	24	3	12.5%

Appendix D. Fish Cleaning Stations (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	8	18.2%
Avalon Harbor	43	1	2.3%
Castaic Lake	32	6	18.8%
Channel Islands Harbor	35	7	20.0%
Elizabeth Lake	1	0	0.0%
King Harbor	8	0	0.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	2	20.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	5	10.0%
Marina Del Rey	27	4	14.8%
Pacific Ocean	29	3	10.3%
Puddingstone Lake	14	3	21.4%
Pyramid Lake	26	2	7.7%
San Pedro Bay	1	0	0.0%
Two Harbors	44	1	2.3%
Ventura Harbor	24	3	12.5%

Appendix D. Landings/Boat-in Sites (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	5	11.4%
Avalon Harbor	43	6	14.0%
Castaic Lake	32	4	12.5%
Channel Islands Harbor	35	1	2.9%
Elizabeth Lake	1	0	0.0%
King Harbor	8	1	12.5%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	8	16.0%
Marina Del Rey	27	2	7.4%
Pacific Ocean	29	4	13.8%
Puddingstone Lake	14	1	7.1%
Pyramid Lake	26	7	26.9%
San Pedro Bay	1	1	100.0%
Two Harbors	44	2	4.5%
Ventura Harbor	24	0	0.0%

Appendix D. Marina (slips) (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	6	13.6%
Avalon Harbor	43	4	9.3%
Castaic Lake	32	1	3.1%
Channel Islands Harbor	35	2	5.7%
Elizabeth Lake	1	0	0.0%
King Harbor	8	2	25.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	9	18.0%
Marina Del Rey	27	3	11.1%
Pacific Ocean	29	5	17.2%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	1	3.8%
San Pedro Bay	1	0	0.0%
Two Harbors	44	0	0.0%
Ventura Harbor	24	3	12.5%

Appendix D. Mooring Fields (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	3	6.8%
Avalon Harbor	43	18	41.9%
Castaic Lake	32	0	0.0%
Channel Islands Harbor	35	3	8.6%
Elizabeth Lake	1	0	0.0%
King Harbor	8	1	12.5%
Lake Casitas	5	1	20.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	8	16.0%
Marina Del Rey	27	2	7.4%
Pacific Ocean	29	3	10.3%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	0	0.0%
San Pedro Bay	1	0	0.0%
Two Harbors	44	8	18.2%
Ventura Harbor	24	4	16.7%

Appendix D. Parking Vehicles / Trailers (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	6	13.6%
Avalon Harbor	43	0	0.0%
Castaic Lake	32	4	12.5%
Channel Islands Harbor	35	1	2.9%
Elizabeth Lake	1	0	0.0%
King Harbor	8	3	37.5%
Lake Casitas	5	2	40.0%
Lake Piru	10	1	10.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	5	10.0%
Marina Del Rey	27	6	22.2%
Pacific Ocean	29	5	17.2%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	4	15.4%
San Pedro Bay	1	0	0.0%
Two Harbors	44	0	0.0%
Ventura Harbor	24	3	12.5%

Appendix D. Restrooms (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	12	27.3%
Avalon Harbor	43	11	25.6%
Castaic Lake	32	9	28.1%
Channel Islands Harbor	35	2	5.7%
Elizabeth Lake	1	0	0.0%
King Harbor	8	3	37.5%
Lake Casitas	5	1	20.0%
Lake Piru	10	1	10.0%
Little Rock Reservoir	4	1	25.0%
Long Beach Harbor	50	12	24.0%
Marina Del Rey	27	7	25.9%
Pacific Ocean	29	6	20.7%
Puddingstone Lake	14	2	14.3%
Pyramid Lake	26	4	15.4%
San Pedro Bay	1	1	100.0%
Two Harbors	44	8	18.2%
Ventura Harbor	24	4	16.7%

Appendix D. Supply Stores (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	0	0.0%
Avalon Harbor	43	3	7.0%
Castaic Lake	32	6	18.8%
Channel Islands Harbor	35	7	20.0%
Elizabeth Lake	1	0	0.0%
King Harbor	8	1	12.5%
Lake Casitas	5	1	20.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	6	12.0%
Marina Del Rey	27	4	14.8%
Pacific Ocean	29	5	17.2%
Puddingstone Lake	14	2	14.3%
Pyramid Lake	26	4	15.4%
San Pedro Bay	1	1	100.0%
Two Harbors	44	4	9.1%
Ventura Harbor	24	4	16.7%

Appendix D. Utilities (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	2	4.5%
Avalon Harbor	43	4	9.3%
Castaic Lake	32	2	6.3%
Channel Islands Harbor	35	1	2.9%
Elizabeth Lake	1	0	0.0%
King Harbor	8	1	12.5%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	2	4.0%
Marina Del Rey	27	2	7.4%
Pacific Ocean	29	0	0.0%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	0	0.0%
San Pedro Bay	1	0	0.0%
Two Harbors	44	3	6.8%
Ventura Harbor	24	0	0.0%

Appendix D. Boarding Floats (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	6	13.6%
Avalon Harbor	43	12	27.9%
Castaic Lake	32	1	3.1%
Channel Islands Harbor	35	1	2.9%
Elizabeth Lake	1	0	0.0%
King Harbor	8	0	0.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	5	10.0%
Marina Del Rey	27	1	3.7%
Pacific Ocean	29	1	3.4%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	1	3.8%
San Pedro Bay	1	0	0.0%
Two Harbors	44	4	9.1%
Ventura Harbor	24	0	0.0%

Appendix D. Dry Storage (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	4	9.1%
Avalon Harbor	43	1	2.3%
Castaic Lake	32	0	0.0%
Channel Islands Harbor	35	1	2.9%
Elizabeth Lake	1	0	0.0%
King Harbor	8	1	12.5%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	3	6.0%
Marina Del Rey	27	1	3.7%
Pacific Ocean	29	1	3.4%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	0	0.0%
San Pedro Bay	1	0	0.0%
Two Harbors	44	3	6.8%
Ventura Harbor	24	0	0.0%

Appendix D. Floating Docks/Piers (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	5	11.4%
Avalon Harbor	43	10	23.3%
Castaic Lake	32	3	9.4%
Channel Islands Harbor	35	1	2.9%
Elizabeth Lake	1	0	0.0%
King Harbor	8	1	12.5%
Lake Casitas	5	2	40.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	8	16.0%
Marina Del Rey	27	2	7.4%
Pacific Ocean	29	4	13.8%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	2	7.7%
San Pedro Bay	1	0	0.0%
Two Harbors	44	4	9.1%
Ventura Harbor	24	1	4.2%

Appendix D. Launch Ramp (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	9	20.5%
Avalon Harbor	43	1	2.3%
Castaic Lake	32	9	28.1%
Channel Islands Harbor	35	1	2.9%
Elizabeth Lake	1	0	0.0%
King Harbor	8	2	25.0%
Lake Casitas	5	1	20.0%
Lake Piru	10	3	30.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	7	14.0%
Marina Del Rey	27	0	0.0%
Pacific Ocean	29	8	27.6%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	4	15.4%
San Pedro Bay	1	0	0.0%
Two Harbors	44	1	2.3%
Ventura Harbor	24	0	0.0%

Appendix D. Marine Service & repairs (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	5	11.4%
Avalon Harbor	43	4	9.3%
Castaic Lake	32	0	0.0%
Channel Islands Harbor	35	3	8.6%
Elizabeth Lake	1	0	0.0%
King Harbor	8	1	12.5%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	5	10.0%
Marina Del Rey	27	4	14.8%
Pacific Ocean	29	4	13.8%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	0	0.0%
San Pedro Bay	1	0	0.0%
Two Harbors	44	4	9.1%
Ventura Harbor	24	4	16.7%

Appendix D. Navigational Aids (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	3	6.8%
Avalon Harbor	43	2	4.7%
Castaic Lake	32	2	6.3%
Channel Islands Harbor	35	0	0.0%
Elizabeth Lake	1	0	0.0%
King Harbor	8	0	0.0%
Lake Casitas	5	2	40.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	1	25.0%
Long Beach Harbor	50	0	0.0%
Marina Del Rey	27	0	0.0%
Pacific Ocean	29	2	6.9%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	0	0.0%
San Pedro Bay	1	0	0.0%
Two Harbors	44	1	2.3%
Ventura Harbor	24	0	0.0%

Appendix D. Pump-Out Stations (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	5	11.4%
Avalon Harbor	43	9	20.9%
Castaic Lake	32	1	3.1%
Channel Islands Harbor	35	2	5.7%
Elizabeth Lake	1	0	0.0%
King Harbor	8	1	12.5%
Lake Casitas	5	0	0.0%
Lake Piru	10	1	10.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	4	8.0%
Marina Del Rey	27	5	18.5%
Pacific Ocean	29	4	13.8%
Puddingstone Lake	14	2	14.3%
Pyramid Lake	26	1	3.8%
San Pedro Bay	1	1	100.0%
Two Harbors	44	11	25.0%
Ventura Harbor	24	2	8.3%

Appendix D. Showers (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	8	18.2%
Avalon Harbor	43	14	32.6%
Castaic Lake	32	3	9.4%
Channel Islands Harbor	35	4	11.4%
Elizabeth Lake	1	0	0.0%
King Harbor	8	2	25.0%
Lake Casitas	5	1	20.0%
Lake Piru	10	1	10.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	9	18.0%
Marina Del Rey	27	8	29.6%
Pacific Ocean	29	4	13.8%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	1	3.8%
San Pedro Bay	1	1	100.0%
Two Harbors	44	7	15.9%
Ventura Harbor	24	4	16.7%

Appendix D. Transient facilities / tie-ups (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	9	20.5%
Avalon Harbor	43	5	11.6%
Castaic Lake	32	0	0.0%
Channel Islands Harbor	35	6	17.1%
Elizabeth Lake	1	0	0.0%
King Harbor	8	1	12.5%
Lake Casitas	5	1	20.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	10	20.0%
Marina Del Rey	27	6	22.2%
Pacific Ocean	29	5	17.2%
Puddingstone Lake	14	1	7.1%
Pyramid Lake	26	3	11.5%
San Pedro Bay	1	0	0.0%
Two Harbors	44	4	9.1%
Ventura Harbor	24	3	12.5%

Appendix D. Emergency Services (Motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	44	0	0.0%
Avalon Harbor	43	0	0.0%
Castaic Lake	32	2	6.3%
Channel Islands Harbor	35	0	0.0%
Elizabeth Lake	1	0	0.0%
King Harbor	8	0	0.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	1	2.0%
Marina Del Rey	27	0	0.0%
Pacific Ocean	29	1	3.4%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	0	0.0%
San Pedro Bay	1	0	0.0%
Two Harbors	44	0	0.0%
Ventura Harbor	24	0	0.0%

Appendix E. Facility Needs Reported by Non-motorized Boaters

Appendix E. Boating Access (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	1	6.67%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	1	100.00%
Channel Islands Harbor	8	1	12.50%
King Harbor	12	2	16.67%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	1	2.86%
Marina Del Rey	51	11	21.57%
Pacific Ocean	21	2	9.52%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	1	16.67%
San Pedro Bay	40	11	27.50%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	2	66.67%
Ventura Harbor	61	6	9.84%

Appendix E. Boat-in Campsites (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	0	0.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	1	100.00%
Channel Islands Harbor	8	1	12.50%
King Harbor	12	0	0.00%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	1	1.96%
Pacific Ocean	21	1	4.76%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	7	17.50%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	1	1.64%

Appendix E. Parking (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	5	33.33%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	1	100.00%
Channel Islands Harbor	8	3	37.50%
King Harbor	12	4	33.33%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	4	11.43%
Marina Del Rey	51	9	17.65%
Pacific Ocean	21	5	23.81%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	1	16.67%
San Pedro Bay	40	18	45.00%
Santa Fe Dam Reservoir	4	2	50.00%
Two Harbors	3	1	33.33%
Ventura Harbor	61	7	11.48%

Appendix E. Launch Spots -by Other Means (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	1	6.67%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	1	100.00%
Channel Islands Harbor	8	1	12.50%
King Harbor	12	2	16.67%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	1	2.86%
Marina Del Rey	51	2	3.92%
Pacific Ocean	21	2	9.52%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	2	33.33%
San Pedro Bay	40	4	10.00%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	1	33.33%
Ventura Harbor	61	2	3.28%

Appendix E. Access to Fresh Water (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	2	13.33%
Avalon Harbor	13	1	7.69%
Castaic Lake	1	1	100.00%
Channel Islands Harbor	8	1	12.50%
King Harbor	12	1	8.33%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	1	2.86%
Marina Del Rey	51	8	15.69%
Pacific Ocean	21	3	14.29%
Puddingstone Lake	2	1	50.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	5	12.50%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	5	8.20%

Appendix E. Restrooms (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	4	26.67%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	1	100.00%
Channel Islands Harbor	8	4	50.00%
King Harbor	12	6	50.00%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	1	2.86%
Marina Del Rey	51	20	39.22%
Pacific Ocean	21	6	28.57%
Puddingstone Lake	2	1	50.00%
Redondo Beach Harbor	6	2	33.33%
San Pedro Bay	40	15	37.50%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	1	33.33%
Ventura Harbor	61	8	13.11%

Appendix E. Supply Stores (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	1	6.67%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	0	0.00%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	1	2.86%
Marina Del Rey	51	6	11.76%
Pacific Ocean	21	1	4.76%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	1	16.67%
San Pedro Bay	40	7	17.50%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	1	1.64%

Appendix E. Rinse Station-Boats/Gear (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	0	0.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	0	0.00%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	1	1.96%
Pacific Ocean	21	0	0.00%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	0	0.00%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	1	1.64%

Appendix E. Security (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	3	20.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	2	16.67%
Lake Casitas	1	1	100.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	9	17.65%
Pacific Ocean	21	5	23.81%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	1	16.67%
San Pedro Bay	40	17	42.50%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	1	33.33%
Ventura Harbor	61	2	3.28%

Appendix E. Campgrounds (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	0	0.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	0	0.00%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	0	0.00%
Pacific Ocean	21	0	0.00%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	0	0.00%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	0	0.00%

Appendix E. Landings (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	1	6.67%
Avalon Harbor	13	2	15.38%
Castaic Lake	1	1	100.00%
Channel Islands Harbor	8	2	25.00%
King Harbor	12	1	8.33%
Lake Casitas	1	1	100.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	5	9.80%
Pacific Ocean	21	2	9.52%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	1	16.67%
San Pedro Bay	40	12	30.00%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	1	33.33%
Ventura Harbor	61	6	9.84%

Appendix E. Boat-in Day-use Areas (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	0	0.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	1	100.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	1	8.33%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	4	7.84%
Pacific Ocean	21	1	4.76%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	5	12.50%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	2	3.28%

Appendix E. Launch Spots -by Hand (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	2	13.33%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	1	100.00%
Channel Islands Harbor	8	2	25.00%
King Harbor	12	5	41.67%
Lake Casitas	1	1	100.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	1	2.86%
Marina Del Rey	51	14	27.45%
Pacific Ocean	21	4	19.05%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	1	16.67%
San Pedro Bay	40	15	37.50%
Santa Fe Dam Reservoir	4	3	75.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	9	14.75%

Appendix E. Navigation Aids (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	0	0.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	1	8.33%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	1	1.96%
Pacific Ocean	21	1	4.76%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	7	17.50%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	1	33.33%
Ventura Harbor	61	0	0.00%

Appendix E. Take-out Spots (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	0	0.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	1	100.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	0	0.00%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	5	9.80%
Pacific Ocean	21	1	4.76%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	5	12.50%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	4	6.56%

Appendix E. Showers (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	6	40.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	1	100.00%
Channel Islands Harbor	8	1	12.50%
King Harbor	12	4	33.33%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	2	5.71%
Marina Del Rey	51	16	31.37%
Pacific Ocean	21	5	23.81%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	2	33.33%
San Pedro Bay	40	16	40.00%
Santa Fe Dam Reservoir	4	2	50.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	9	14.75%

Appendix E. Emergency Services (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	1	6.67%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	0	0.00%
Lake Casitas	1	1	100.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	0	0.00%
Pacific Ocean	21	2	9.52%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	6	15.00%
Santa Fe Dam Reservoir	4	1	25.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	1	1.64%

Appendix E. Boat Storage (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	1	6.67%
Avalon Harbor	13	1	7.69%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	0	0.00%
Lake Casitas	1	1	100.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	1	1.96%
Pacific Ocean	21	2	9.52%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	3	7.50%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	1	1.64%

Appendix E. Personal Storage (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	0	0.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	0	0.00%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	0	0.00%
Pacific Ocean	21	0	0.00%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	0	0.00%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	0	0.00%

Appendix E. Garbage Cans (Non-motorized Boaters)

Waterway	Responses	Stated Need	Percent
Alamitos Bay	15	0	0.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	0	0.00%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	0	0.00%
Pacific Ocean	21	0	0.00%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	0	0.00%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	0	0.00%

Appendix F. Facility-related Comments from Survey Participants

Appendix F: Facility-related Comments from Survey Participants

Waterway	Facility-related Comments
Alamitos Bay	Free launching and additional free parking for multiple days (overnight) passenger cars as well as truck & trailers.
Alamitos Bay	Parking. Always an issue.
Alamitos Bay	Parking: Not enough public parking.
Alamitos Bay	Parking: The lot next to the launch site is small and the shared lot with the nearby Boy Scouts and Yacht Club has a lot of restricted parking.
Alamitos Bay	Restrooms: Not enough.
Alamitos Bay	Restrooms: summer months see heavy beach usage, leading to insufficient supplies.
Alamitos Bay	Showers out fishing all-day out to sea when your ready to leave many boaters have long distances to drive afresh up would be nice not all stinky.
Alamitos Bay	Ability to launch boat without having to go under a bridge, also a crane to launch would be nice.
Alamitos Bay	Access to fresh water: Nice to rinse off boats - only a couple places to do this.
Alamitos Bay	Complete marina rebuilds add temporary slips.
Alamitos Bay	Difficult to hand launch from this facility as it is not designed for this. It is currently restricted.
Alamitos Bay	Emergency services: Would like more information on areas where there are emergency services in case CPR or medical needed on water.
Alamitos Bay	If a non-motorized boater uses the waterways , if they don't already know the rules, there's no way for them to know that they are to yield to the bigger boats and that they should stay at the side of the channels and watch for traffic just as if being on.
Alamitos Bay	It would be nice to add a beach area where dogs were allowed.
Alamitos Bay	Marine service and repairs - only one facility in the area.
Alamitos Bay	Place to GO Mooring or transient slip parking avail so we can take our boat out and go shop or foresight see. There are not very many places that we can leave our boat for a couple of hours. Although there are few there often filled up it's so hard to get to.
Alamitos Bay	Security: A lot of homeless have been occupying the area discarding their drug paraphernalia. I have to wear hard sole shoes for fear of stepping on glass or hypodermics. Since the restroom facilities are locked, I also need to on the lookout for mounds of feces.
Alamitos Bay	Security: Pretty frequent drug use at this beach.
Alamitos Bay	Security: Rampant drug use and unstable homeless folks.
Alamitos Bay	Transient Slips for restaurants and shops.
Avalon Harbor	Landings: Our race needs space for outrigger canoes overnight.
Avalon Harbor	Access to fresh water: Fresh water is scarce on Catalina.
Avalon Harbor	Access to shore by dingy boats.
Avalon Harbor	Day docks; during summer inflatables are tied 3 or 4 deep, with no one enforcing rules, which causes a lot of unnecessary confrontation and danger crawling over boats.
Avalon Harbor	Dingy Dock. One of the main docks is entirely consumed by resident tenders/boats which leaves one dock for transients in off-season and two during season. This is the main turn-off about being in Avalon.
Avalon Harbor	Dry dock to allow short term trips to shore.
Avalon Harbor	Fuel dock. I usually need to fuel up over a 2 - 3 day trip in Avalon. Current and previous docks were inadequate and at times overcrowded.

Avalon Harbor	Fuel Dock. It was torn down and is in the process of rebuilding it. It is quite often crowded, and there is little room to cue up in line. A multiple float, distributed fuel dock would be helpful.
Avalon Harbor	Fuel docks not up to demand for peak season.
Avalon Harbor	Water access is limited to buying bottled water. There needs to be more availability to potable water.
Castaic Lake	Boating access: Quagga mussel inspections turn away tons of boaters. The lake is ridiculously strict and does not have hot water decontamination stations.
Castaic Lake	Launch Ramp at Castaic lake it is a bottle neck of outgoing and incoming traffic very frustrating for the average boater.
Castaic Lake	Day docks short-term dockage, there are times we need to dock while we go to our vehicle or the store. The launching ramps have docks but, park rangers frown upon temporally docking your boat.
Castaic Lake	Docks, when busy, trying to tie up can get very difficult.
Castaic Lake	Fuel docks. Sometime, we are low on fuel.
Castaic Lake	Launch ramp does not have any protection against wind and waves.
Castaic Lake	Launch ramp gets crowded.
Castaic Lake	Law enforcement is over zealous in their patrols.
Castaic Lake	More beaches to dock at. There are very little beaches or day camp site for the boaters.
Castaic Lake	More docks to park a boat on the lake.
Castaic Lake	More tie up areas while those launch can get the person whom put boat and trailer in water.
Castaic Lake	pump out. there is no place else to go.
Channel Islands Harbor	Boating access: Non motorized boats should not have to use the same ramps as motorized boats.
Channel Islands Harbor	Parking: If parking is not close by, then equipment needs to be hauled.
Channel Islands Harbor	Parking: Sometimes there isn't any.
Channel Islands Harbor	Restrooms: They are dated and not clean.
Channel Islands Harbor	Restrooms: When ya gotta go, ya gotta go!
Channel Islands Harbor	Better fuel for the boats, fuel that works with boat motors....ethanol-free gas.
Channel Islands Harbor	Fuel and ice for day and overnight trips.
Channel Islands Harbor	Greater convenience to more shops / restaurants.
Channel Islands Harbor	Hand launch for day sailors ,catamaran's etc...
Channel Islands Harbor	Pump out facilities that function.
Channel Islands Harbor	Short term docks at the restaurants.
Channel Islands Harbor	Supply stores. The Do It Better Hardware store that was very close to the marina closed recently. Everyone in the marina went to that store and it had a good supply of stainless steel hardware and other useful items to make repairs on our boats.
Channel Islands Harbor	This harbor has zero anchorage spots for overnighters. If they allowed boaters to anchor in the main harbor overnight the harbor would experience more boaters traveling from the south or north to visit the beautiful channel islands.
King Harbor	Boating access: Our harbor is not welcoming or inviting. Infrastructure is poor. The launch is pulled in winter. Our outrigger club is squatting in our spot and it would be nice to be legal so we could develop some space for showers and safe boat storage.
King Harbor	Parking: Parking is limited.
King Harbor	Restrooms: All they have is a single porta potty.
King Harbor	Restrooms: There are over 300 team paddlers using a single portable toilet and cold water to shower.

King Harbor	Restrooms: There is only a porta potty at this time at the outrigger area.
King Harbor	A place to tie off and relax.
King Harbor	Launch spots (by hand): development taking access to water way.
King Harbor	Launch spots (by other means such as trailer): The current launch area for motorized boats is at a blind corner and very dangerous for those launching non motorized crafts.
King Harbor	Launch, Crowded.
King Harbor	Well, for a sailboat with an auxiliary motor, which I guess is motorized, the big improvement would be more guest docks, so people could sail up and down the coast and not worry about tie-ups.
Lake Casitas	I understand we have low water but ramps need to be improved.
Lake Casitas	Launch spots (by hand): Homes are surrounding the lagoon.
Lake Casitas	More dockage for launching at the ramp, it gets very crowded, especially when lake patrol boat is at the dock.
Long Beach Harbor	Access--Launch ramps.
Long Beach Harbor	Access to vehicle parking.
Long Beach Harbor	Parking: Limited spaces during dragon boat festivals.
Long Beach Harbor	Restroom . When we are out of the ramp, there are no restroom.
Long Beach Harbor	Restrooms: Not enough.
Long Beach Harbor	A place to tie off and relax.
Long Beach Harbor	Access to fresh water: People would like to wash off the canal water.
Long Beach Harbor	Boat services. Would be nice to have a good wash down and cleaning services.
Long Beach Harbor	Dock next to ramp so I could tie up while parking tow vehicle.
Long Beach Harbor	Lack of fuel services. At this time there is one remaining fuel dock but difficult to access from a small boat.
Long Beach Harbor	Launch Ramps (often covered with algae and slippery, high grade.)
Long Beach Harbor	Launch ramps some times takes a lot of time--in and out.
Long Beach Harbor	Launch spots (by other means such as trailer): So we can carry our non motorized craft shorter distance with easy access.
Long Beach Harbor	Maintenance of navigation buoys and markers. Safety, and for recreational use (marks for sailing courses).
Long Beach Harbor	More slips for overnight stays.
Long Beach Harbor	More transient dockage, particularly in Marina Del Rey. More protected anchorage in Long Beach Harbor. Better dockage at Belmont Pier.
Long Beach Harbor	Pump out stations.
Long Beach Harbor	Security of parking areas...many vandalized vehicles and stolen boat trailers.
Long Beach Harbor	Security.....many vehicles vandalized and stolen boat trailers.
Long Beach Harbor	Short term docks so I can park to access shops and restaurants.
Long Beach Harbor	Supply stores for marine products. East Long Beach & San Pedro are the nearest stores.
Long Beach Harbor	Supply stores: there are none.
Marina Del Rey	Boating access: No access no usage.
Marina Del Rey	Boating access: Primary access is from Mother's Beach, as docks are privately owned and not accessible to general public.
Marina Del Rey	Boating access: Small boat access. I.e.. Surfski, sup, paddle board, outriggers and general beach access are being eliminated slowly by parking fees, developers, inability to actually gain access to public facilities.

Marina Del Rey	Parking is always a challenge if you're taking a crew out for the day.
Marina Del Rey	Parking: limited and expensive.
Marina Del Rey	Parking: Parking fills up quickly.
Marina Del Rey	Parking: Parking is a challenge in the entire Marina del Rey area.
Marina Del Rey	Parking: so much housing is being added and construction has taken over the parking and is causing crowding.
Marina Del Rey	Parking: The county continues to issue permits for residential and commercial projects. Each brings with them an increased population. Parking, while currently available, needs to be maintained at the current levels to ensure adequate spaces for the growing crowds.
Marina Del Rey	Trailer parking, overcrowded.
Marina Del Rey	Restrooms: Sometimes bathroom closed for maintenance & port a potty is alternative.
Marina Del Rey	Restrooms; the current ones are not good.
Marina Del Rey	Showers: Currently there are just a few hoses for gear, boat and person rinsing, and they get overcrowded.
Marina Del Rey	Showers: If there were showers we could use the boats in the morning and then leave directly for work from the site.
Marina Del Rey	Showers: More people would use this sport during the morning if they could access a shower and go to work boating.
Marina Del Rey	Landings: Because there are only a few places to access the water.
Marina Del Rey	Boat-in day-use areas: Nowhere to go on the kayak.
Marina Del Rey	Boat-in day-use areas: Places to set up.
Marina Del Rey	Fish cleaning stations. Because good fish cleaning facilities help maintain the quality of the catch; provide a significant ease of use compared to attempting to duplicate the same at home; provide significant economies of scale due to throughput volume.
Marina Del Rey	I am actively looking for a boatyard and the two in Marina del Rey are either small or appear to be very expensive. I think San Diego will be a more competitive market for my boat repair dollars.
Marina Del Rey	It would be nice to have one competing fuel dock instead of the one on the main channel.
Marina Del Rey	It would be nice to have something similar to bike lanes for kayakers. Many kayakers, like bicyclists, believe they have every right to be in the main channel's outbound and inbound flow of traffic.
Marina Del Rey	Launch ramp docks are frequently fouled/soiled with bird feces so thick that it is impossible not to track this onto boat while boarding.
Marina Del Rey	Launch spots (by hand): Launching is the most important factor.
Marina Del Rey	Launch spots (by hand): over development of public access and usage of waterway.
Marina Del Rey	Launch spots (by hand): There is a lack of storage space for canoes.
Marina Del Rey	Launch spots (by hand): we currently have one small dock which is tilted and very challenging for rowing sculls with riggers.
Marina Del Rey	Security: Some boats have been stolen or vandalized.
Marina Del Rey	Security: There have been a few instances at mothers beach of canoes, kayaks, paddleboards, and rowing shells being vandalized or stolen.
Marina Del Rey	Security: there is non.
Marina Del Rey	Some sort of reasonably large transient area such that friends can come up from Redondo, Pedro, Long Beach, etc. and not have to be worried that they won't a spot to tie up. The anchorage at Marina del Rey is dangerous and uncomfortable.

Marina Del Rey	Stop closing of Marinas until the three currently under renovation are complete and open to the the public.
Pacific Ocean	Boating access, this would enable users the ability to explore areas otherwise too difficult to access.
Pacific Ocean	Parking: easy access to launch spots.
Pacific Ocean	Parking: There is a shortage at times.
Pacific Ocean	Parking: Too many visitors without enough places to park.
Pacific Ocean	Showers: there are none.
Pacific Ocean	Access to fresh water: Fresh water to rinse boat would be really nice. Current launch spot is adequate for now.
Pacific Ocean	Beach access to carry paddleboard to water's edge.
Pacific Ocean	Boat-in campsites: We have no beach campsites with boating access in Long Beach.
Pacific Ocean	Dredging is needed to keep harbors open.
Pacific Ocean	It would be very useful and convenient to have moorings established from Santa Monica to Malibu for day use and limited overnight stays.
Pacific Ocean	Launch ramps become very crowded on weekends and Holidays so more ramps would help citizens use the increased number of ramps.
Pacific Ocean	Marinas -more access to slips for permanent dockage.
Pacific Ocean	More launch ramps and parking spaces for car/trailer while boat is being used.
Pacific Ocean	Parking and boat launches. Parking lots are small and are limited for vehicles and trailers, if you get there late, no place to park. Boat launches are busy and not enough of those either, usually a long wait to unload and load boat.
Pacific Ocean	Save the tall visible landmarks from certain destruction by 2020 when the steam generating stations have been mandated to go off-line.
Pacific Ocean	Security: Often break-in.
Pacific Ocean	Too much traffic.
Puddingstone Lake	Bathrooms and being able to park with your trailer.
Puddingstone Lake	Access to fresh water: There are lots of great paddle in picnic spots, but no water at any of them.
Puddingstone Lake	Hand boat launch. Currently carrying kayak from parking area or launch from motorized launch.
Puddingstone Lake	Pump station. Same reason as before.
Puddingstone Lake	Transient tie ups. So one can enjoy the rest of the park and leave boat in water for several hours.
Pyramid Lake	parking. not enough spaces because cars without trailers take up most of the spaces.
Pyramid Lake	Boat camping cause its fun.
Pyramid Lake	Fuel dock. No fuel is available at the lake which requires pulling the boat out and trailering miles to the nearest gas station.
Pyramid Lake	Launch ramp can get really crowded.
Pyramid Lake	Needs to be better access to use the day camp areas that are only accessible by boat - make it easier for cars to park close to them.
Pyramid Lake	Raise the speed limit and allow loud boats.
Pyramid Lake	Supply store with more hours/days of operation.
Pyramid Lake	Tie ups. if the weather turns bad it becomes treacherous to get your boat to the ramp.
Pyramid Lake	Very tight boat trailer parking, both my truck's' and trailer have been hit in the tight spots by other patrons.
Redondo Beach Harbor	Showers: Though there is a lack of landing and parking, it is manageable. Showers would greatly improve the flexibility of a training schedule, i.e. paddling before work or school.

San Pedro Bay	Boating access: If we can't get on the water easily, we are discouraged from participating in our water sport.
San Pedro Bay	Boating access: Not enough spots with easy sand launching.
San Pedro Bay	Parking: Share with Boy Scout camp.
San Pedro Bay	Parking: There are many people parking.
San Pedro Bay	Restrooms: Need to be upgraded.
San Pedro Bay	Showers: Important to be able to rinse off salt water.
San Pedro Bay	Showers: More of them.
San Pedro Bay	Showers: The Bahia hotel plans to eliminate 250 parking spots along Bahia Point. A prime launch area for small craft users.
San Pedro Bay	Showers: The Bahia Point Has parking and grass, good beach access for non-motorized sports.
San Pedro Bay	Access to fresh water: I would love to be able to rinse off my gear before loading my board onto the top of my car.
San Pedro Bay	Access to fresh water: It's important.
San Pedro Bay	Aquatic center can provide essentials, fresh water, restrooms, showers, launch areas, parking, security, emergency services and supply store.
San Pedro Bay	Launch spots (by hand): Crafts are heavy need ease access to water.
San Pedro Bay	Launch spots (by hand): There are not many spots where you can park and launch easily.
San Pedro Bay	Launch spots (by hand): They are getting few and far between.
San Pedro Bay	Launch spots (by hand): We increasingly losing walk in access due to private interest i.e. resorts buying up public land .
San Pedro Bay	Launch spots (by other means such as trailer): Access to carry and launch boats is key otherwise cant use the area.
San Pedro Bay	Navigation aids (buoys, trail markers): Safety.
San Pedro Bay	Security: Boats stored at aquatic center.
San Pedro Bay	Security: Keeping public access for this beach. The Bahia Hotel beach is truly used by non motorized boat craft. It's an absolute favorite .
San Pedro Bay	Security: Some car break ins have happened.
San Pedro Bay	Take-out spots: Ease of access in and out of water.
Santa Fe Dam Reservoir	Parking: To expensive.
Santa Fe Dam Reservoir	Showers: You need to wash off after paddling both equipment and person.
Santa Fe Dam Reservoir	Launch spots (by hand): Safety.
Two Harbors	Boating access: safe access.
Two Harbors	Restrooms: Not enough parking spots, and not enough close enough to hand launch.
Two Harbors	Day Docks - often crowded.
Two Harbors	Entire operation. It's as bad and dirty for motorized and non motorized vessels.
Two Harbors	Fuel facilities. Two harbors is run by the Santa Catalina island company. they are a complete monopoly. while I understand the fuel has to be transported to Two harbors - their very high price feels like they are price gouging.
Two Harbors	If we're still referring to Two Harbors, the entire operation needs to be addressed. It's a mess. It's been better at times but at present, I've never seen it this bad in the 40 years I've been going there. I will not return.
Two Harbors	Moorings just not enough and too expensive.
Two Harbors	More moorings. There are very limited mooring available and more could be installed.

Two Harbors	Perhaps better separation between large and small boats.
Two Harbors	Potable water, but Catalina has a worse drought than the mainland.
Two Harbors	Pump out stations, maintenance of water quality and convenience for boats with small holding tanks.
Two Harbors	There is no mobile pump-out service, so to empty a holding tank a boat has to leave its mooring, tie up to the usually crowded dock and pump out.
Ventura Harbor	Boating access: There already is parking, access to fresh water, restrooms and a shower. They just don't allow SUPs, kayaks, canoes access to put in/take out at this beach.
Ventura Harbor	Ventura Harbor needs a central location to support non motorized boating opportunities for public access and education. It is a unique location that offers easy access to the ocean, coast, and harbor and could serve as a central point to provide the public.
Ventura Harbor	Parking: Increased use of Via Marina park and added parking restrictions are forcing us to leave to find alternate launching spots.
Ventura Harbor	Parking: Limited availability.
Ventura Harbor	Parking: Need more capacity.
Ventura Harbor	Parking: Not enough or permit parking limits public access.
Ventura Harbor	Bathrooms are outdated and often not clean.
Ventura Harbor	Shower needed to wash polluted water off your body after using a pwc in the ocean.
Ventura Harbor	Showers: need them.
Ventura Harbor	Showers: If showers were present, there would be far greater recreational opportunities for people to work out before and after work.
Ventura Harbor	Showers: none.
Ventura Harbor	Access to fresh water: Our boats get salty which corrodes them. We have to carry 3 gallon jugs of water down to the beach to rinse them off.
Ventura Harbor	Access to fresh water: WOULD LIKE TO RINSE OFF EQUIPMENT AND SELF BEFORE GOING HOME.
Ventura Harbor	Beach launch for catamaran etc...
Ventura Harbor	Boat-in campsites is an excellent idea, but where would you put them?
Ventura Harbor	Cheaper slips.
Ventura Harbor	For kayaks in the harbor would be nice to be able to access the parks that are adjacent to the harbor.
Ventura Harbor	Launch spots (by hand): launch spot is very good. It must be preserved. More storage and wash off to improve.
Ventura Harbor	Launch spots (by hand): There are only a few areas to launch boats.
Ventura Harbor	Launch spots (by hand): With recent developments, we are losing access to our harbor.
Ventura Harbor	Launch spots (by other means such as trailer): Safety.
Ventura Harbor	Security: area is open to public and in an area with high homeless population.
Ventura Harbor	The haul out facilities are busy and sometimes it is difficult to get scheduled in.

N=214

Appendix G. Boating Issues Reported by Motorized Boaters

Appendix G. High Facility Use Fee (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	6	13.6%
Avalon Harbor	43	8	18.6%
Castaic Lake	32	6	18.8%
Channel Islands Harbor	35	1	2.9%
Elizabeth Lake	1	0	0.0%
King Harbor	8	0	0.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	4	8.0%
Marina Del Rey	27	5	18.5%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	1	3.4%
Puddingstone Lake	14	2	14.3%
Pyramid Lake	26	7	26.9%
San Pedro Bay	1	0	0.0%
Two Harbors	44	13	29.5%
Ventura Harbor	24	1	4.2%

Appendix G. Invasive Species (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	1	2.3%
Avalon Harbor	43	0	0.0%
Castaic Lake	32	2	6.3%
Channel Islands Harbor	35	0	0.0%
Elizabeth Lake	1	0	0.0%
King Harbor	8	0	0.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	2	20.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	0	0.0%
Marina Del Rey	27	0	0.0%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	1	3.4%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	2	7.7%
San Pedro Bay	1	0	0.0%
Two Harbors	44	1	2.3%
Ventura Harbor	24	0	0.0%

Appendix G. Overcrowded (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	9	20.5%
Avalon Harbor	43	26	60.5%
Castaic Lake	32	9	28.1%
Channel Islands Harbor	35	3	8.6%
Elizabeth Lake	1	0	0.0%
King Harbor	8	0	0.0%
Lake Casitas	5	1	20.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	6	12.0%
Marina Del Rey	27	6	22.2%
Pacific Ocean-Catalina Island	2	1	50.0%
Pacific Ocean	29	4	13.8%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	9	34.6%
San Pedro Bay	1	0	0.0%
Two Harbors	44	17	38.6%
Ventura Harbor	24	2	8.3%

Appendix G. Poor Ramp Conditions (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	2	4.5%
Avalon Harbor	43	0	0.0%
Castaic Lake	32	5	15.6%
Channel Islands Harbor	35	2	5.7%
Elizabeth Lake	1	0	0.0%
King Harbor	8	1	12.5%
Lake Casitas	5	0	0.0%
Lake Piru	10	1	10.0%
Little Rock Reservoir	4	1	25.0%
Long Beach Harbor	50	3	6.0%
Marina Del Rey	27	0	0.0%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	1	3.4%
Puddingstone Lake	14	2	14.3%
Pyramid Lake	26	1	3.8%
San Pedro Bay	1	0	0.0%
Two Harbors	44	0	0.0%
Ventura Harbor	24	1	4.2%

Appendix G. Poor Road Access (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	0	0.0%
Avalon Harbor	43	0	0.0%
Castaic Lake	32	1	3.1%
Channel Islands Harbor	35	1	2.9%
Elizabeth Lake	1	0	0.0%
King Harbor	8	1	12.5%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	0	0.0%
Marina Del Rey	27	1	3.7%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	0	0.0%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	1	3.8%
San Pedro Bay	1	0	0.0%
Two Harbors	44	0	0.0%
Ventura Harbor	24	0	0.0%

Appendix G. Issues with Motorized Boaters (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	3	6.8%
Avalon Harbor	43	6	14.0%
Castaic Lake	32	3	9.4%
Channel Islands Harbor	35	1	2.9%
Elizabeth Lake	1	0	0.0%
King Harbor	8	1	12.5%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	2	4.0%
Marina Del Rey	27	0	0.0%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	1	3.4%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	1	3.8%
San Pedro Bay	1	0	0.0%
Two Harbors	44	2	4.5%
Ventura Harbor	24	0	0.0%

Appendix G. Issues with Non-motorized Boaters (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	7	15.9%
Avalon Harbor	43	2	4.7%
Castaic Lake	32	0	0.0%
Channel Islands Harbor	35	3	8.6%
Elizabeth Lake	1	0	0.0%
King Harbor	8	0	0.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	1	10.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	1	2.0%
Marina Del Rey	27	2	7.4%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	1	3.4%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	0	0.0%
San Pedro Bay	1	0	0.0%
Two Harbors	44	1	2.3%
Ventura Harbor	24	3	12.5%

Appendix G. Excessive/Rude Law Enforcement (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	2	4.5%
Avalon Harbor	43	3	7.0%
Castaic Lake	32	4	12.5%
Channel Islands Harbor	35	1	2.9%
Elizabeth Lake	1	0	0.0%
King Harbor	8	0	0.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	3	6.0%
Marina Del Rey	27	2	7.4%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	1	3.4%
Puddingstone Lake	14	1	7.1%
Pyramid Lake	26	1	3.8%
San Pedro Bay	1	0	0.0%
Two Harbors	44	0	0.0%
Ventura Harbor	24	1	4.2%

Appendix G. I have not experienced problems at this waterway (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	13	29.5%
Avalon Harbor	43	7	16.3%
Castaic Lake	32	6	18.8%
Channel Islands Harbor	35	14	40.0%
Elizabeth Lake	1	0	0.0%
King Harbor	8	0	0.0%
Lake Casitas	5	2	40.0%
Lake Piru	10	3	30.0%
Little Rock Reservoir	4	1	25.0%
Long Beach Harbor	50	10	20.0%
Marina Del Rey	27	5	18.5%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	8	27.6%
Puddingstone Lake	14	4	28.6%
Pyramid Lake	26	3	11.5%
San Pedro Bay	1	0	0.0%
Two Harbors	44	8	18.2%
Ventura Harbor	24	7	29.2%

Appendix G. Insufficient Water Depth (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	0	0.0%
Avalon Harbor	43	0	0.0%
Castaic Lake	32	9	28.1%
Channel Islands Harbor	35	3	8.6%
Elizabeth Lake	1	0	0.0%
King Harbor	8	1	12.5%
Lake Casitas	5	1	20.0%
Lake Piru	10	3	30.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	1	2.0%
Marina Del Rey	27	0	0.0%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	0	0.0%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	5	19.2%
San Pedro Bay	1	0	0.0%
Two Harbors	44	0	0.0%
Ventura Harbor	24	2	8.3%

Appendix G. Lack of Parking (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	11	25.0%
Avalon Harbor	43	0	0.0%
Castaic Lake	32	2	6.3%
Channel Islands Harbor	35	1	2.9%
Elizabeth Lake	1	0	0.0%
King Harbor	8	2	25.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	4	8.0%
Marina Del Rey	27	6	22.2%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	5	17.2%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	3	11.5%
San Pedro Bay	1	0	0.0%
Two Harbors	44	0	0.0%
Ventura Harbor	24	2	8.3%

Appendix G. Reservations Required (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	1	
Avalon Harbor	43	3	
Castaic Lake	32	0	
Channel Islands Harbor	35	0	
Elizabeth Lake	1	0	
King Harbor	8	0	
Lake Casitas	5	0	
Lake Piru	10	0	
Little Rock Reservoir	4	0	
Long Beach Harbor	50	0	
Marina Del Rey	27	0	
Pacific Ocean-Catalina Island	2	1	
Pacific Ocean	29	0	
Puddingstone Lake	14	0	
Pyramid Lake	26	0	
San Pedro Bay	1	0	
Two Harbors	44	3	
Ventura Harbor	24	0	

Appendix G. Poor Water Quality (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	3	6.8%
Avalon Harbor	43	0	0.0%
Castaic Lake	32	2	6.3%
Channel Islands Harbor	35	0	0.0%
Elizabeth Lake	1	0	0.0%
King Harbor	8	0	0.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	1	10.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	12	24.0%
Marina Del Rey	27	2	7.4%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	2	6.9%
Puddingstone Lake	14	1	7.1%
Pyramid Lake	26	6	23.1%
San Pedro Bay	1	0	0.0%
Two Harbors	44	0	0.0%
Ventura Harbor	24	2	8.3%

Appendix G. Floating Debris (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	6	13.6%
Avalon Harbor	43	1	2.3%
Castaic Lake	32	2	6.3%
Channel Islands Harbor	35	1	2.9%
Elizabeth Lake	1	0	0.0%
King Harbor	8	2	25.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	7	14.0%
Marina Del Rey	27	3	11.1%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	7	24.1%
Puddingstone Lake	14	1	7.1%
Pyramid Lake	26	1	3.8%
San Pedro Bay	1	0	0.0%
Two Harbors	44	0	0.0%
Ventura Harbor	24	1	4.2%

Appendix G. Reckless PWC Operators (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	8	18.2%
Avalon Harbor	43	5	11.6%
Castaic Lake	32	3	9.4%
Channel Islands Harbor	35	2	5.7%
Elizabeth Lake	1	0	0.0%
King Harbor	8	0	0.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	5	10.0%
Marina Del Rey	27	6	22.2%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	7	24.1%
Puddingstone Lake	14	1	7.1%
Pyramid Lake	26	8	30.8%
San Pedro Bay	1	0	0.0%
Two Harbors	44	3	6.8%
Ventura Harbor	24	4	16.7%

Appendix G. Issues with Shipping Vessels (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	1	2.3%
Avalon Harbor	43	0	0.0%
Castaic Lake	32	0	0.0%
Channel Islands Harbor	35	0	0.0%
Elizabeth Lake	1	0	0.0%
King Harbor	8	0	0.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	3	6.0%
Marina Del Rey	27	0	0.0%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	2	6.9%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	0	0.0%
San Pedro Bay	1	0	0.0%
Two Harbors	44	0	0.0%
Ventura Harbor	24	0	0.0%

Appendix G. Lack of Law Enforcement (Motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	44	0	0.0%
Avalon Harbor	43	0	0.0%
Castaic Lake	32	1	3.1%
Channel Islands Harbor	35	0	0.0%
Elizabeth Lake	1	0	0.0%
King Harbor	8	0	0.0%
Lake Casitas	5	0	0.0%
Lake Piru	10	0	0.0%
Little Rock Reservoir	4	0	0.0%
Long Beach Harbor	50	1	2.0%
Marina Del Rey	27	0	0.0%
Pacific Ocean-Catalina Island	2	0	0.0%
Pacific Ocean	29	0	0.0%
Puddingstone Lake	14	0	0.0%
Pyramid Lake	26	0	0.0%
San Pedro Bay	1	0	0.0%
Two Harbors	44	0	0.0%
Ventura Harbor	24	0	0.0%

Appendix H. Boating Issues Reported by Non-motorized Boaters

Appendix H. Boating Access (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	0	0.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	2	16.67%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	1	2.86%
Marina Del Rey	51	2	3.92%
Pacific Ocean	21	0	0.00%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	1	16.67%
San Pedro Bay	40	4	10.00%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	1	33.33%
Ventura Harbor	61	2	3.28%

Appendix H. Overcrowded (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	2	13.33%
Avalon Harbor	13	1	7.69%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	1	8.33%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	2	5.71%
Marina Del Rey	51	4	7.84%
Pacific Ocean	21	1	4.76%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	5	12.50%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	0	0.00%

Appendix H. Poor Ramp Conditions (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	0	0.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	2	16.67%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	1	1.96%
Pacific Ocean	21	0	0.00%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	0	0.00%
Santa Fe Dam Reservoir	4	1	25.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	0	0.00%

Appendix H. Poor Road Access (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	0	0.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	0	0.00%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	0	0.00%
Pacific Ocean	21	0	0.00%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	0	0.00%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	1	1.64%

Appendix H. Issues with Invasive Species (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	0	0.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	1	100.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	0	0.00%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	0	0.00%
Pacific Ocean	21	0	0.00%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	0	0.00%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	0	0.00%

Appendix H. Issues with Reckless PWC Operatorss (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	1	6.67%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	1	8.33%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	0	0.00%
Pacific Ocean	21	1	4.76%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	4	10.00%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	1	33.33%
Ventura Harbor	61	2	3.28%

Appendix H. Shipping Vessels (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	0	0.00%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	0	0.00%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	0	0.00%
Pacific Ocean	21	0	0.00%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	0	0.00%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	0	0.00%

Appendix H. Lack of Law Enforcement (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	2	13.33%
Avalon Harbor	13	0	0.00%
Castaic Lake	1	0	0.00%
Channel Islands Harbor	8	0	0.00%
King Harbor	12	0	0.00%
Lake Casitas	1	0	0.00%
Legg Lake	1	0	0.00%
Long Beach Harbor	35	0	0.00%
Marina Del Rey	51	0	0.00%
Pacific Ocean	21	1	4.76%
Puddingstone Lake	2	0	0.00%
Redondo Beach Harbor	6	0	0.00%
San Pedro Bay	40	1	2.50%
Santa Fe Dam Reservoir	4	0	0.00%
Two Harbors	3	0	0.00%
Ventura Harbor	61	0	0.00%

Appendix H. Lack of Parking (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	4	26.7%
Avalon Harbor	13	0	0.0%
Castaic Lake	1	0	0.0%
Channel Islands Harbor	8	3	37.5%
King Harbor	12	3	25.0%
Lake Casitas	1	0	0.0%
Legg Lake	1	0	0.0%
Long Beach Harbor	35	3	8.6%
Marina Del Rey	51	7	13.7%
Pacific Ocean	21	5	23.8%
Puddingstone Lake	2	0	0.0%
Redondo Beach Harbor	6	2	33.3%
San Pedro Bay	40	11	27.5%
Santa Fe Dam Reservoir	4	1	25.0%
Two Harbors	3	2	66.7%
Ventura Harbor	61	6	9.8%

Appendix H. Reservations Required (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	0	0.0%
Avalon Harbor	13	0	0.0%
Castaic Lake	1	0	0.0%
Channel Islands Harbor	8	0	0.0%
King Harbor	12	0	0.0%
Lake Casitas	1	0	0.0%
Legg Lake	1	0	0.0%
Long Beach Harbor	35	0	0.0%
Marina Del Rey	51	0	0.0%
Pacific Ocean	21	0	0.0%
Puddingstone Lake	2	0	0.0%
Redondo Beach Harbor	6	0	0.0%
San Pedro Bay	40	0	0.0%
Santa Fe Dam Reservoir	4	0	0.0%
Two Harbors	3	0	0.0%
Ventura Harbor	61	0	0.0%

Appendix H. Poor Water Quality (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	2	13.3%
Avalon Harbor	13	0	0.0%
Castaic Lake	1	0	0.0%
Channel Islands Harbor	8	0	0.0%
King Harbor	12	1	8.3%
Lake Casitas	1	0	0.0%
Legg Lake	1	0	0.0%
Long Beach Harbor	35	1	2.9%
Marina Del Rey	51	14	27.5%
Pacific Ocean	21	1	4.8%
Puddingstone Lake	2	1	50.0%
Redondo Beach Harbor	6	0	0.0%
San Pedro Bay	40	8	20.0%
Santa Fe Dam Reservoir	4	1	25.0%
Two Harbors	3	0	0.0%
Ventura Harbor	61	3	4.9%

Appendix H. Floating Debris (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	0	0.0%
Avalon Harbor	13	0	0.0%
Castaic Lake	1	0	0.0%
Channel Islands Harbor	8	0	12.5%
King Harbor	12	1	0.0%
Lake Casitas	1	0	0.0%
Legg Lake	1	0	100.0%
Long Beach Harbor	35	1	17.1%
Marina Del Rey	51	6	3.9%
Pacific Ocean	21	2	0.0%
Puddingstone Lake	2	0	0.0%
Redondo Beach Harbor	6	0	0.0%
San Pedro Bay	40	0	0.0%
Santa Fe Dam Reservoir	4	0	0.0%
Two Harbors	3	0	33.3%
Ventura Harbor	61	1	0.0%

Appendix H. Issues with motorized Boaters (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	0	0.0%
Avalon Harbor	13	0	0.0%
Castaic Lake	1	0	0.0%
Channel Islands Harbor	8	1	12.5%
King Harbor	12	1	8.3%
Lake Casitas	1	0	0.0%
Legg Lake	1	0	0.0%
Long Beach Harbor	35	1	2.9%
Marina Del Rey	51	5	9.8%
Pacific Ocean	21	1	4.8%
Puddingstone Lake	2	0	0.0%
Redondo Beach Harbor	6	0	0.0%
San Pedro Bay	40	0	0.0%
Santa Fe Dam Reservoir	4	0	0.0%
Two Harbors	3	0	0.0%
Ventura Harbor	61	0	0.0%

Appendix H. Issues with Non-motorized Boaters (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	1	6.7%
Avalon Harbor	13	0	0.0%
Castaic Lake	1	0	0.0%
Channel Islands Harbor	8	0	0.0%
King Harbor	12	1	8.3%
Lake Casitas	1	0	0.0%
Legg Lake	1	0	0.0%
Long Beach Harbor	35	0	0.0%
Marina Del Rey	51	2	3.9%
Pacific Ocean	21	0	0.0%
Puddingstone Lake	2	0	0.0%
Redondo Beach Harbor	6	0	0.0%
San Pedro Bay	40	0	0.0%
Santa Fe Dam Reservoir	4	0	0.0%
Two Harbors	3	0	0.0%
Ventura Harbor	61	0	0.0%

Appendix H. Excessive/Rude Law Enforcement (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	0	0.0%
Avalon Harbor	13	0	0.0%
Castaic Lake	1	1	100.0%
Channel Islands Harbor	8	0	0.0%
King Harbor	12	0	0.0%
Lake Casitas	1	0	0.0%
Legg Lake	1	0	0.0%
Long Beach Harbor	35	0	0.0%
Marina Del Rey	51	0	0.0%
Pacific Ocean	21	0	0.0%
Puddingstone Lake	2	0	0.0%
Redondo Beach Harbor	6	0	0.0%
San Pedro Bay	40	2	5.0%
Santa Fe Dam Reservoir	4	0	0.0%
Two Harbors	3	0	0.0%
Ventura Harbor	61	0	0.0%

Appendix H. I have not experienced problems at this waterway (Non-motorized Boaters)

Waterway	Responses	Stated Issue	Percent
Alamitos Bay	15	4	26.7%
Avalon Harbor	13	0	0.0%
Castaic Lake	1	0	0.0%
Channel Islands Harbor	8	3	37.5%
King Harbor	12	1	8.3%
Lake Casitas	1	1	100.0%
Legg Lake	1	1	100.0%
Long Beach Harbor	35	0	0.0%
Marina Del Rey	51	3	5.9%
Pacific Ocean	21	2	9.5%
Puddingstone Lake	2	0	0.0%
Redondo Beach Harbor	6	0	0.0%
San Pedro Bay	40	12	30.0%
Santa Fe Dam Reservoir	4	0	0.0%
Two Harbors	3	0	0.0%
Ventura Harbor	61	14	23.0%

Appendix I. Facilities by Waterway

Appendix I. Existing Boating Facilities & Access on Waterways

Waterways	Boat Launch	Dry Storage	Marina	Mooring Field	Aquatic Center/ BISC	Boating Access	Fuel Dock	Landing/ Boat-In Sites	Marine Services/ Repair	SSR Facility	Yacht Club	Total Facilities Identified
Alamitos Bay	9	6	10	0	1	1	0	0	1	0	2	30
Avalon Harbor (Catalina Island)	0	0	0	2	0	0	1	0	0	0	0	3
Castaic Lake	3	0	0	0	1	0	0	0	0	0	0	4
Channel Islands Harbor	2	2	14	0	3	2	0	0	0	0	1	24
Elizabeth Lake	1	0	0	0	0	0	0	0	0	0	0	1
King Harbor	1	0	7	0	0	1	0	0	0	0	2	11
Lake Casitas	3	3	3	2	0	0	0	0	0	1	0	12
Lake Piru	2	1	1	0	0	0	0	0	0	1	0	5
Little Rock Reservoir	1	0	0	0	0	0	0	0	0	0	0	1
Marina Del Rey	2	3	18	0	2	6	0	0	0	0	1	32
Pacific Ocean	5	1	4	11	0	0	0	0	1	0	2	24
Port of Long Beach	1	2	7	0	0	0	1	0	0	0	0	11
Port of Los Angeles	0	0	3	0	0	0	0	0	0	0	0	3
Puddingstone Lake	0	0	0	0	0	1	0	0	0	0	0	1
Pyramid Lake	4	2	2	0	0	2	0	6	0	0	0	16
Queensway Bay	1	0	3	0	0	0	0	0	0	0	1	5
San Pedro Bay	0	0	5	0	0	0	1	0	1	0	1	8
Santa Fe Dam Reservoir	1	0	0	0	0	0	0	0	0	0	0	1
Two Harbors (Catalina Island)	0	0	0	4	0	0	0	0	0	0	0	4
Ventura Harbor	4	2	7	0	1	3	2	0	0	0	1	20
Total Count	0	22	84	19	8	16	5	6	3	2	11	216

Appendix J. Launch Locations by Waterway

Appendix J. Launch Locations Reported by Boaters

Launch Location	Frequency Reported
Alamitos Bay	
Davies Main Launch	13
Mother's Beach	11
Alamitos Bay Main Launch	5
Main Marina Pacifica	4
Marine Stadium	4
Sunset Aquatic Park	2
265 Bay Shore Ave	1
2nd Street Main Launch Long Beach	1
Bahia Main Marina	1
Bain 4, Main Launch 31, Slip 7	1
Bay Shore Ave	1
Below 2nd Ave Bridge	1
Cabrillo Dry Boat Storage in San Pedro	1
Catamaran Launch Beach	1
Peters Landing Main Marina	1
Avalon Harbor	
Long Beach	3
Mooring Ball	3
Descanso	2
Dunes Main Marina	1
Golden Shore Main Launch, Long Beach	1
Green Pier	1
Huntington Harbor	1
Peter's Landing Main Marina in Huntington	1
Sail into Avalon Harbor	1
San Pedro	1
Southwestern Yacht Club	1
Wilmington	1
Castaic Lake	
Main Launch	19
Castaic Landing	3
Lagoon BISC	1
Upper Castaic Main Boat East Main Launch	1
Upper Lake Primary Main Launch	1
West Main Launch	1

Channel Islands Harbor

Channel Islands Main Launch	8
Ventura County Launch Main Launch	5
Pacific Corinthian Main Marina	2
Dana Point Harbor	1
H Main Launch in Vintage Main Marina	1
Mandelay Bay	1
Oxnard	1

Elizabeth Lake

Elizabeth Launch	1
------------------	---

King Harbor

Lanakila Outrigger Canoe Club	5
King Harbor Yacht Club Private Hoist	2
County Main Launch	1
Redondo Beach Main Marina	1
San Pedro	1

Lake Casitas

LA County Lake Casitas Main Launch	2
Beach	1
Coyote Main Launch	1

Lake Piru

Main Launch	4
-------------	---

Long Beach Harbor

Cabrillo Beach Boat Main Launch	8
Davies in Los Alamitos Harbor	7
Alamitos Bay	4
Long Beach Main Launch	4
Mother's Beach	3
South Shore Main Launch	3
Los Angeles	2
Marine Stadium	2
Shoreline Main Marina Long Beach	2
Yacht Haven	2
Larson Boat Yard	1
Lighthouse Yacht Anchorage	1
Main Launch	1
Rainbow Harbor	1
San Pedro	1
Second Street Landing	1
Sunset Aquatic	1
West Main Launch	1

Marina Del Rey

Main Marina del Rey Main Main Launch	21
Mothers Beach	16
California Yacht Club	2
County of Los Angeles Department of Beaches and Harbors Main Launch	2
Dolphin Main Marina	2
LA County Launch Facility	1
Panay Main Marina	1
Port Royal Main Marina	1
UCLA Main Marina Aquatic Center	1
Villa del Mar Slip C-1507	1

Pacific Ocean-Los Angeles, Ventura

Newport Dunes	3
Beach Launch	2
Mothers Beach	2
Redondo Beach Harbor	2
Ventura Main Marina launch	2
Alamitos Bay	1
Belmont Shores, Long Beach	1
Cabrillo Beach	1
Cabrillo Yacht Main Marina	1
Channel Islands Harbor	1
Channel Islands Landing	1
Dana Point Harbor	1
Dolphin Main Marina in C Basin	1
Huntington Harbor, Orange County	1
Malibu Beaches	1
Ocean Beach	1
Port Hueneme	1
Rocky Point	1
San Onofre Surf Beach	1
Shelter Island	1
Shoreline Main Marina Long Beach	1
Silver Wood	1
South Shore Main Launch, Long Beach	1
Sunset Aquatic Park, Huntington Harbour	1
Vintage Main Marina	1
Wilmington	1

Puddingstone Lake

Puddingstone (Bonnelli) Main Launch	9
Powerboat Main Launch	1

Pyramid Lake

Lake Main Launch	15
Emigrant Landing	4
The North End Primary Main Launch	1

Redondo Beach Harbor

Lanakila Outrigger Canoe Club	1
-------------------------------	---

San Pedro Bay

Bahia Point	15
Campland	3
Fiesta Island	3
Aqua Adventures	2
Santa Clara Point	2
Beach	1
Mission Bay	1
San Pedro	1
Youth Aquatic Center	1

Santa Fe Dam Reservoir

Visitor Main Launch	1
---------------------	---

Two Harbors

Balboa Yacht Club	2
Davies in Los Alamitos Harbor	2
Two Harbors	2
Cabrillo Beach	1
Cherry Cove Mooring B-16	1
Huntington Harbor	1
Huntington Harbour Tennis Estates Main Marina	1
Main Marina Del Rey Main Launch	1
Main Marina Pacifica, Long Beach	1
San Diego	1
Wilmington	1

Ventura Harbor

Ventura Harbor Main Launch	21
Beach	7
Harbor Cove Beach	6
Main Marina Park	4
Kids' Beach	1
Newport	1
Private Main Launch, Ventura Keys	1

Total Count = 368