

2014

California Recreational Boating Accident Statistics

State of California
Natural Resources Agency

California State Parks
Division of Boating and Waterways

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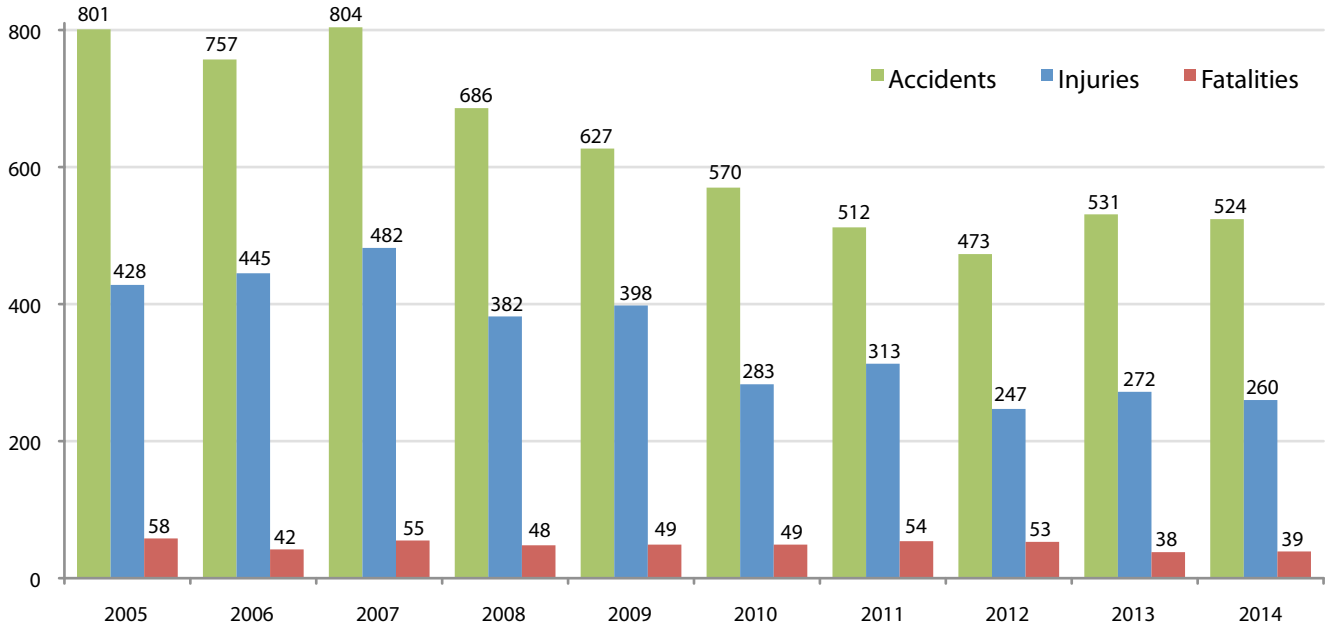




California

Boating Accident Statistics

Accidents, Injuries, and Fatalities 2005-2014



California Boating Accidents by Location 2013-2014

Waterway Categories	Accidents		Injuries		Fatalities	
	2013	2014	2013	2014	2013	2014
Northern Lake	163	121	126	74	15	10
Southern Lake	73	47	42	30	2	7
Northern Coast	31	22	5	17	3	4
Southern Coast	148	219	51	72	4	5
Northern River	20	24	7	8	6	8
Southern River	0	2	0	2	0	0
SF Bay Area	26	31	12	9	3	3
Delta	54	40	22	31	5	2
Colorado River	16	18	7	17	0	0
Totals	531	524	272	260	38	39

Property Damage 2005-2014

Year	Property Damage
2005	\$3,584,700
2006	\$8,913,375
2007	\$10,643,800
2008	\$5,899,184
2009	\$4,484,105
2010	\$4,040,700
2011	\$2,142,655
2012	\$5,794,000
2013	\$2,407,635
2014	\$2,889,230



California

2014 Boating Accidents

Vessel Registration

County	Accidents	Injuries	Fatalities	Property Damage	Number of Personal Watercraft (PWC)	Number of Vessels (includes PWC)
Alameda	2	0	0	\$42,790	3,190	20,034
Alpine	0	0	0	\$0	4	93
Amador	3	1	0	\$25,600	226	2,911
Butte	6	2	0	\$6,050	1,471	14,716
Calaveras	6	4	0	\$1,550	607	5,702
Colusa	0	0	0	\$0	136	1,286
Contra Costa	11	8	1	\$47,000	5,218	29,658
Del Norte	2	0	2	\$1,000	60	1,361
El Dorado	17	5	7	\$109,579	1,252	12,835
Fresno	6	5	0	\$23,100	2,491	19,026
Glenn	2	2	0	\$550	147	1,688
Humboldt	1	0	0	\$18,795	527	6,941
Imperial	3	1	0	\$29,000	433	1,803
Inyo	0	0	0	\$0	121	954
Kern	2	1	0	\$3,000	3,123	13,930
Kings	0	0	0	\$0	513	2,444
Lake	5	3	1	\$10,550	1,152	10,142
Lassen	1	0	0	\$20,000	261	2,778
Los Angeles	54	22	6	\$847,525	26,786	86,371
Madera	7	3	0	\$12,000	790	5,382
Marin	7	3	1	\$123,000	457	7,047
Mariposa	0	0	0	\$0	131	1,435
Mendocino	2	0	0	\$8,550	349	4,240
Merced	1	0	0	\$1,000	763	5,750
Modoc	0	0	0	\$0	34	647
Mono	2	3	0	\$550	116	1,271
Monterey	5	5	0	\$22,500	809	6,644
Napa	15	7	1	\$28,050	478	4,985
Nevada	7	6	0	\$7,500	569	8,539
Orange	77	10	1	\$170,400	14,511	51,233
Placer	7	4	0	\$49,000	2,426	18,428
Plumas	4	1	0	\$4,200	198	3,238
Riverside	14	11	0	\$45,800	14,195	41,840
Sacramento	12	9	2	\$18,150	5,104	37,144
San Benito	0	0	0	\$0	252	1,563
San Bernardino	19	17	0	\$47,600	13,133	40,255

Boating Accident Statistics

2014 Boating Accidents

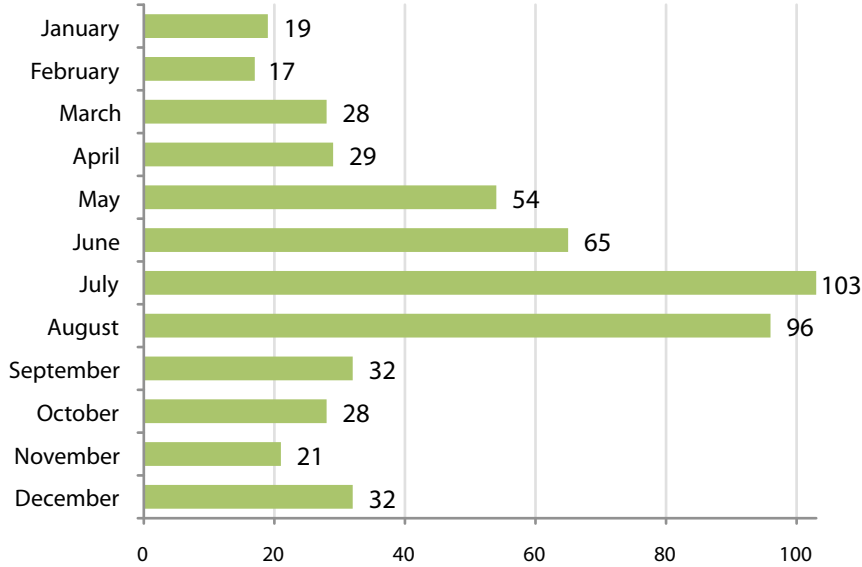
Vessel Registration

County	Accidents	Injuries	Fatalities	Property Damage	Number of Personal Watercraft (PWC)	Number of Vessels (includes PWC)
San Diego	63	38	4	\$402,870	11,119	52,810
San Francisco	15	4	1	\$101,550	317	3,343
San Joaquin	26	14	1	\$200,743	3,340	22,157
San Luis Obispo	2	0	0	\$3,698	1,428	11,178
San Mateo	6	4	1	\$81,000	1,593	9,296
Santa Barbara	25	0	1	\$68,390	1,138	8,206
Santa Clara	5	2	0	\$4,000	3,735	20,763
Santa Cruz	3	1	0	\$6,500	561	6,377
Shasta	25	13	1	\$28,140	1,458	17,674
Sierra	1	0	1	\$0	22	312
Siskiyou	1	1	0	\$0	153	3,637
Solano	3	2	0	\$30,550	1,645	12,618
Sonoma	20	16	5	\$138,900	1,705	15,347
Stanislaus	2	2	0	\$7,000	2,220	15,332
Sutter	2	1	0	\$4,550	572	4,761
Tehama	1	0	0	\$2,000	331	4,085
Trinity	0	0	0	\$0	126	1,927
Tulare	2	3	0	\$0	1,265	7,689
Tuolumne	8	10	0	\$19,600	436	5,314
Ventura	8	6	0	\$24,350	4,016	18,880
Yolo	3	10	1	\$13,000	570	5,350
Yuba	3	0	1	\$28,000	441	4,050
Out of State	N/A	N/A	N/A	N/A	790	3,259
Totals	524	260	39	\$2,889,230	141,014	728,679

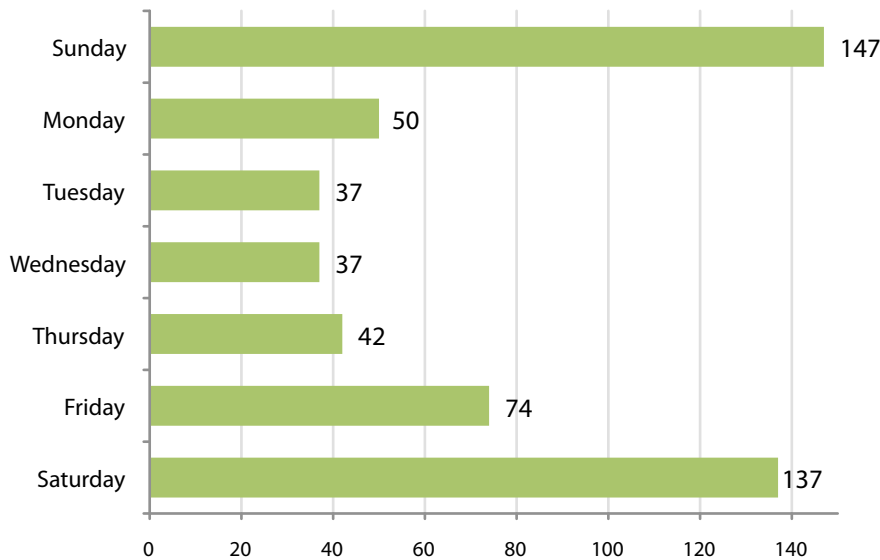


California

2014 Accidents by Month (Total Accidents 524)



2014 Accidents by Day of the Week (Total Accidents 524)

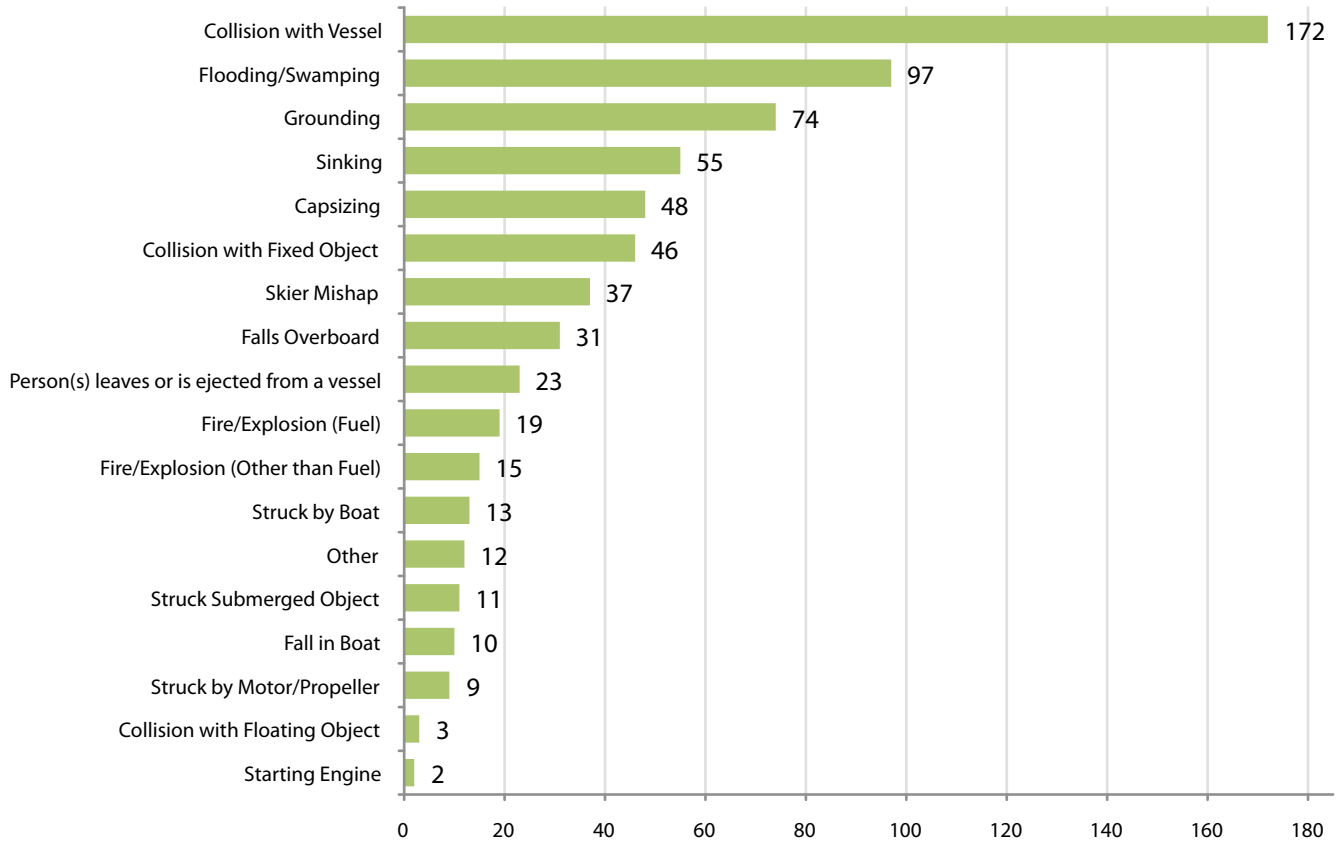


2014 Accidents by Time of Day

Time of Day	Number of Accidents
12:00-1:59 a.m.	10
2:00-3:59 a.m.	7
4:00-5:59 a.m.	6
6:00-7:59 a.m.	23
8:00-9:59 a.m.	27
10:00-11:59 a.m.	58
12:00-1:59 p.m.	73
2:00-3:59 p.m.	107
4:00-5:59 p.m.	99
6:00-7:59 p.m.	69
8:00-9:59 p.m.	21
10:00-11:59 p.m.	18
Time Unknown	6
Total Accidents	524

Boating Accident Statistics

2014 Type of Accidents (Total Types: 677* Total Accidents: 524)



*Some accidents are represented by more than one accident type, which accounts for the accident types exceeding the number of accidents.

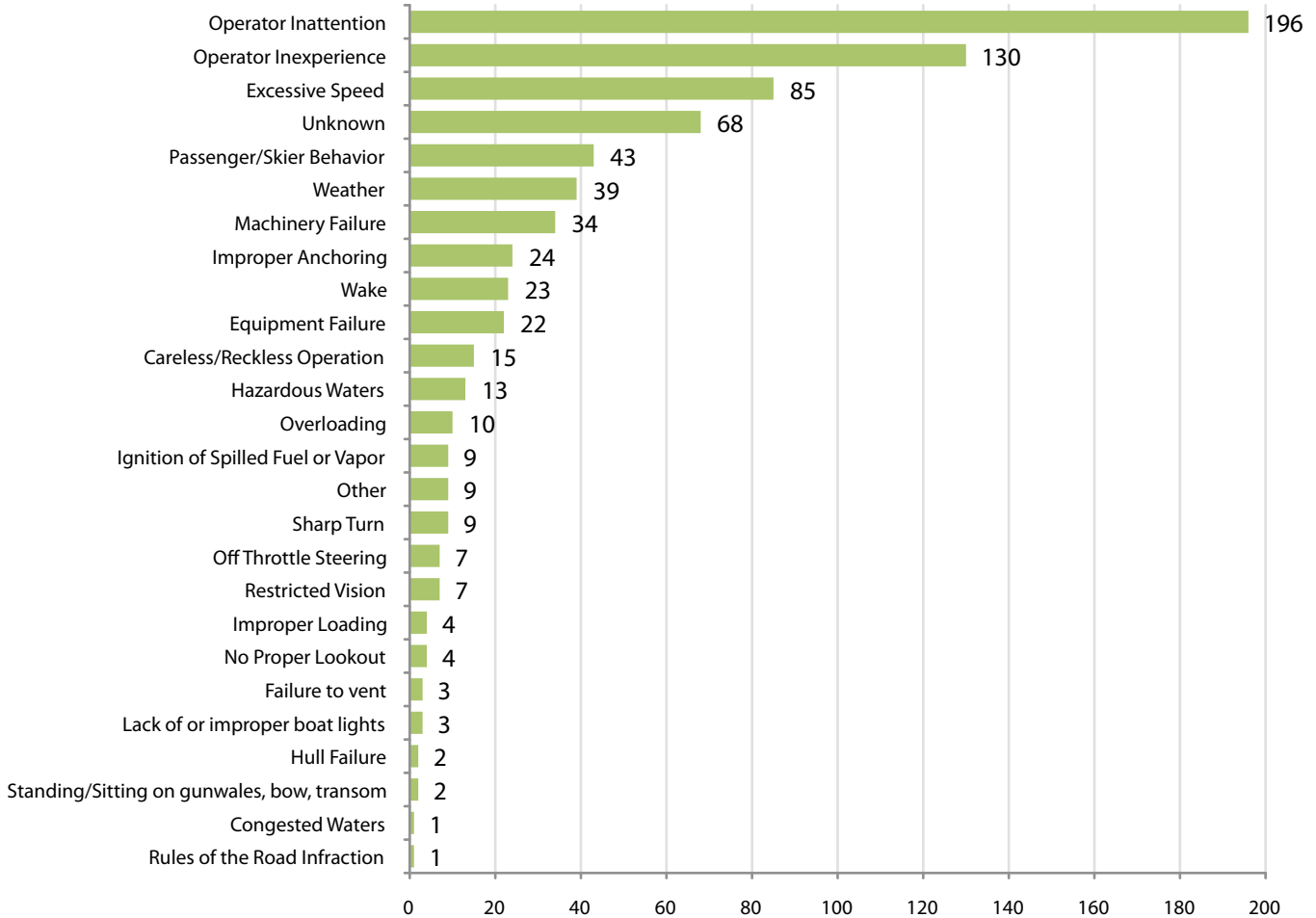
2014 Type of Accident by Vessel Type

Type of Accident	All Vessels	Open Motorboat	Cabin Motorboat	Personal Watercraft	All Sailboats	Houseboat/Pontoon	Canoe/Kayak
Collision with Vessel	33%	31%	50%	52%	50%	60%	32%
Flooding/Swamping	19%	21%	22%	1%	12%	8%	5%
Grounding	14%	9%	15%	8%	21%	0%	0%
Sinking	10%	12%	11%	0%	9%	8%	0%
Capsizing	9%	8%	3%	3%	8%	0%	53%
Collision with Fixed Object	9%	9%	11%	8%	4%	12%	5%
Skier Mishap	7%	15%	0%	3%	1%	0%	0%
Falls Overboard	6%	3%	1%	16%	4%	4%	16%
Person(s) leaves or is ejected from a vessel	4%	6%	1%	11%	0%	4%	0%
Fire/Explosion (Fuel)	4%	4%	5%	0%	3%	0%	0%



California

2014 Cause of Accidents (Total Causes: 763* Total Accidents: 524)



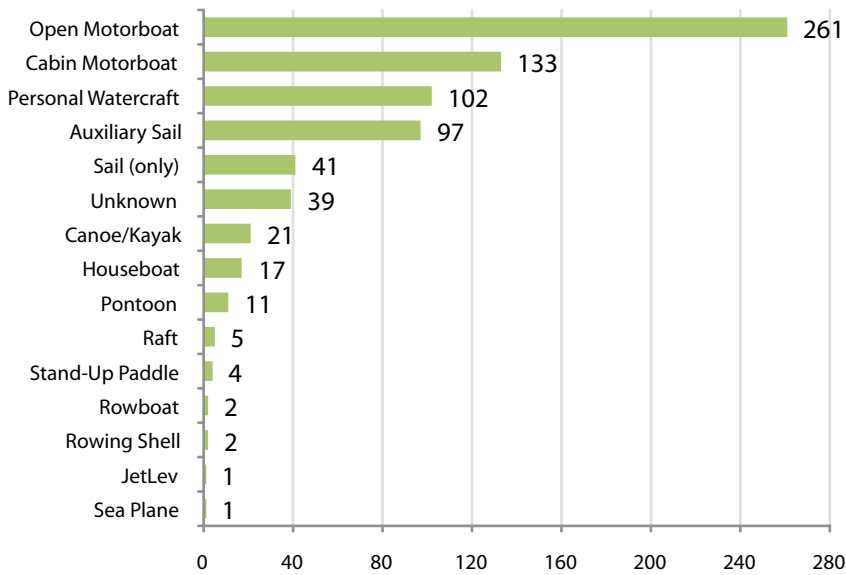
*Many accidents had more than one cause, which is reflected in this chart. The "Other" category includes causes that do not fit into any of the other categories listed above.

2014 Cause of Accident by Type of Vessel

Cause of Accident	All Vessels	Open Motorboat	Cabin Motorboat	Personal Watercraft	All Sailboats	Houseboat/Pontoon	Canoe/Kayak
Operator Inattention	37%	34%	43%	47%	51%	52%	32%
Operator Inexperience	25%	21%	26%	55%	30%	36%	26%
Excessive Speed	16%	16%	15%	40%	7%	4%	0%
Passenger/Skier Behavior	8%	16%	2%	5%	1%	0%	0%
Weather	7%	5%	10%	0%	11%	8%	11%
Machinery Failure	6%	8%	5%	1%	6%	4%	0%
Improper Anchoring	5%	2%	3%	0%	15%	0%	5%

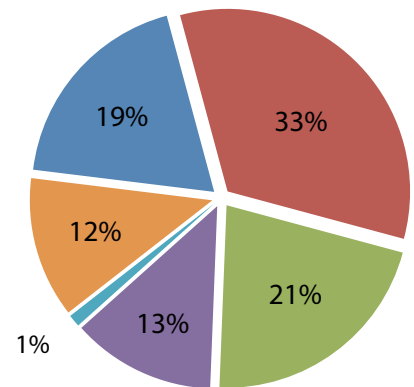
Boating Accident Statistics

2014 Vessels Involved in All Accidents by Type (Total Vessels 737)



2014 Vessels Involved in All Accidents by Length

Length of Vessels	Number of Vessels
Vessels <16 feet	139
Vessels 16-25 feet	246
Vessels 26-39 feet	158
Vessels 40-65 feet	94
Vessels over 65 feet	8
Unknown	92
Total Vessels	737



2014 Ownership Status of Vessels Involved in Accidents

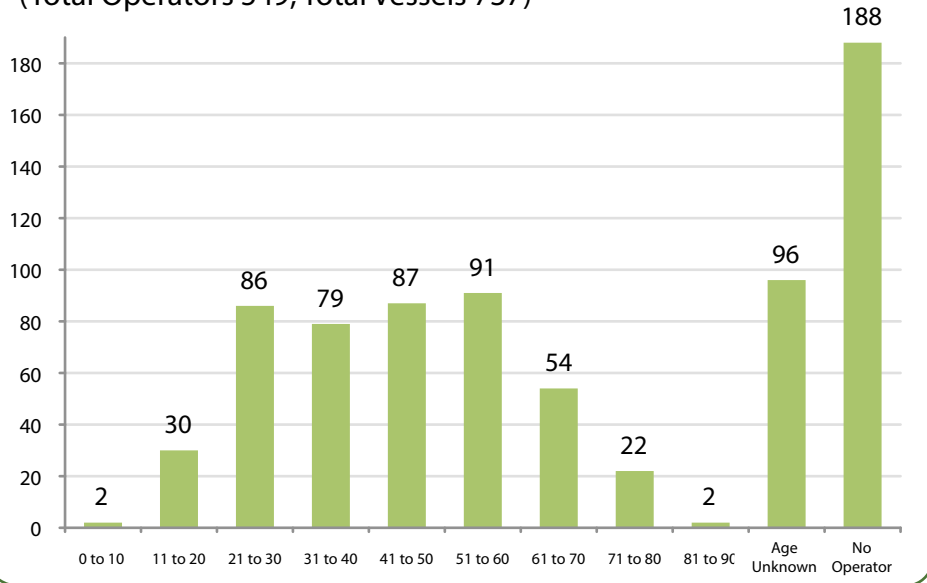
Operated By	All Vessels		Open Motorboats		Personal Watercraft	
	Number of Vessels	Percent of Vessels	Number of Vessels	Percent of Vessels	Number of Vessels	Percent of Vessels
Operated by Owner	287	39%	146	56%	25	25%
Operated by Borrower	126	17%	46	18%	36	35%
Operated by Renter	76	10%	18	7%	32	31%
Unknown	60	8%	7	3%	8	8%
No Operator	188	26%	44	17%	1	1%
Total Vessels	737	100%	261	100%	102	100%



California

2014 Operators Involved in All Accidents by Age

(Total Operators 549, Total Vessels 737)



The category No Operator reflects situations in which vessels were anchored or docked with no operator in command.

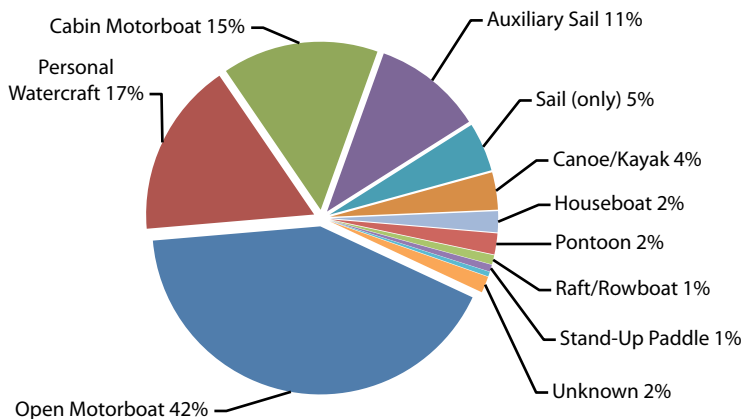
2014 Operator Education

Type of Education	Number of Operators
American Red Cross	6
State Course	23
U.S. Power Squadron	0
USCG Auxiliary	16
Other	0
Informal	172
None	170
Unknown	162
No Operator	188
Total	737

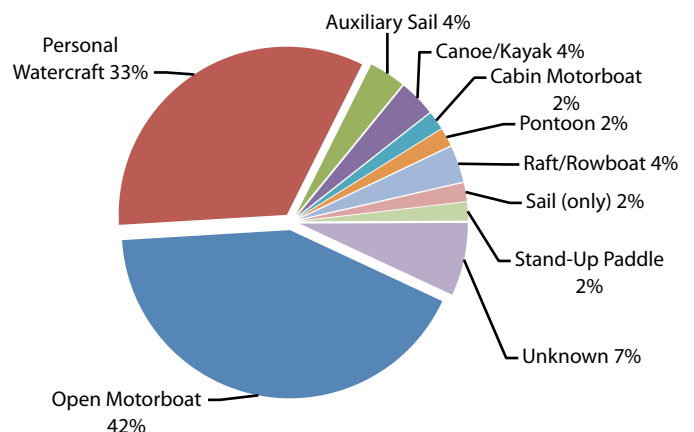
2014 Gender of Operators Involved in Accidents

Gender	Number of Operators
Male	446
Female	57
Gender Unknown	46
No Operator	188
Total	737

2014 Type of Vessels Operated by Men Involved in Accidents

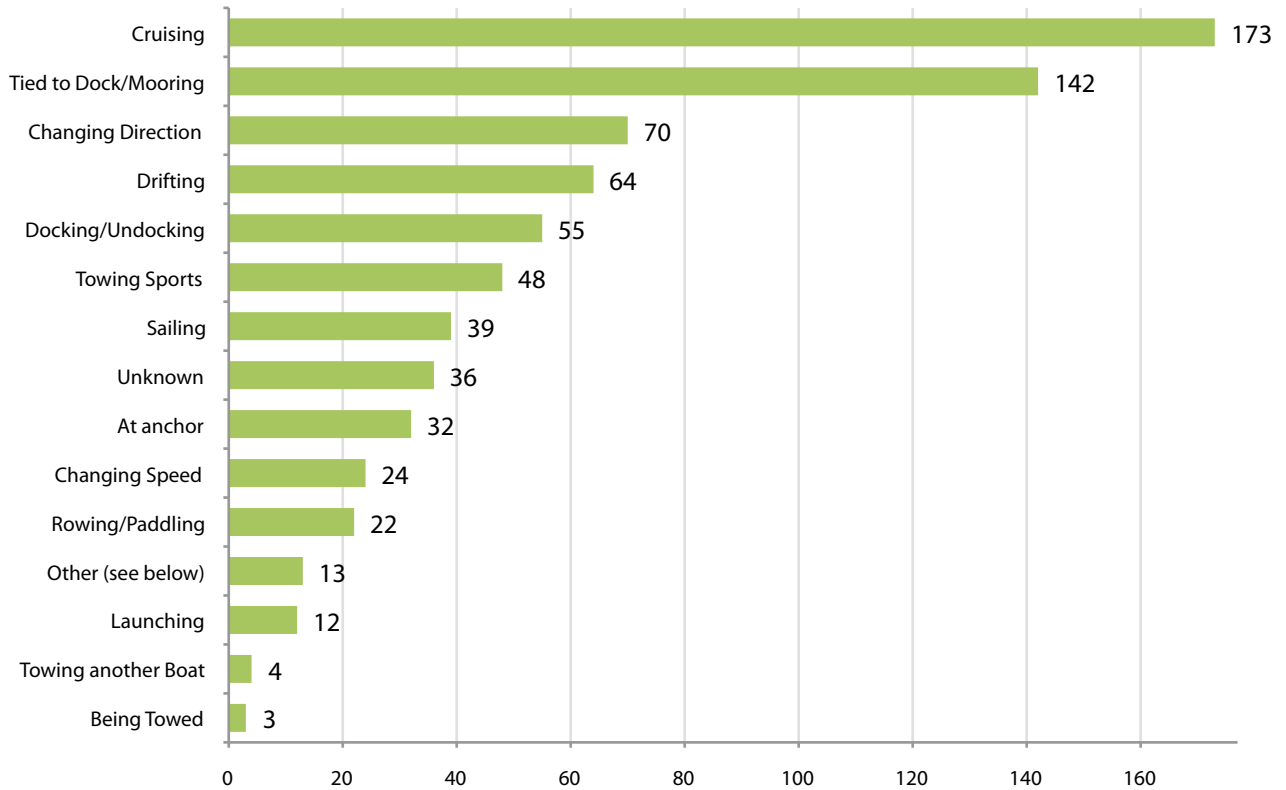


2014 Type of Vessels Operated by Women Involved in Accidents

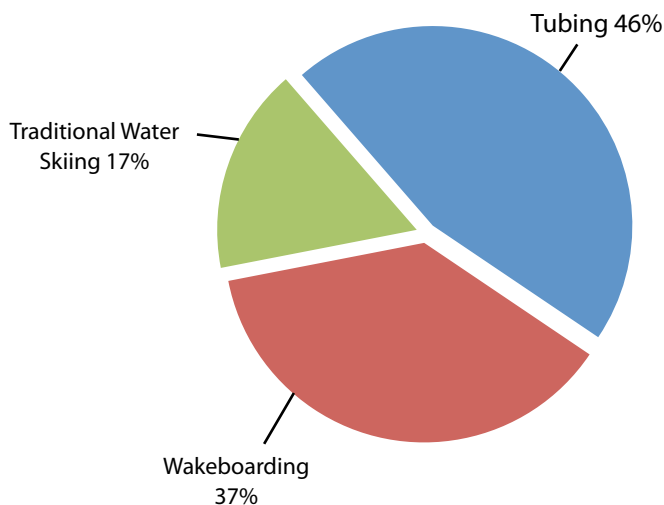


Boating Accident Statistics

2014 Operation at Time of Accident (Total Vessels 737)



2014 Accidents Involving Towing Sports*



Activity	Vessels Engaged in Activity
Tubing	22
Wakeboarding	18
Traditional Water Skiing	8
Total	48

*Towing sports include persons being towed on lines behind vessels on water skis, wakeboards, wake skates, kneeboards, surf boards, tubes, and parasails.

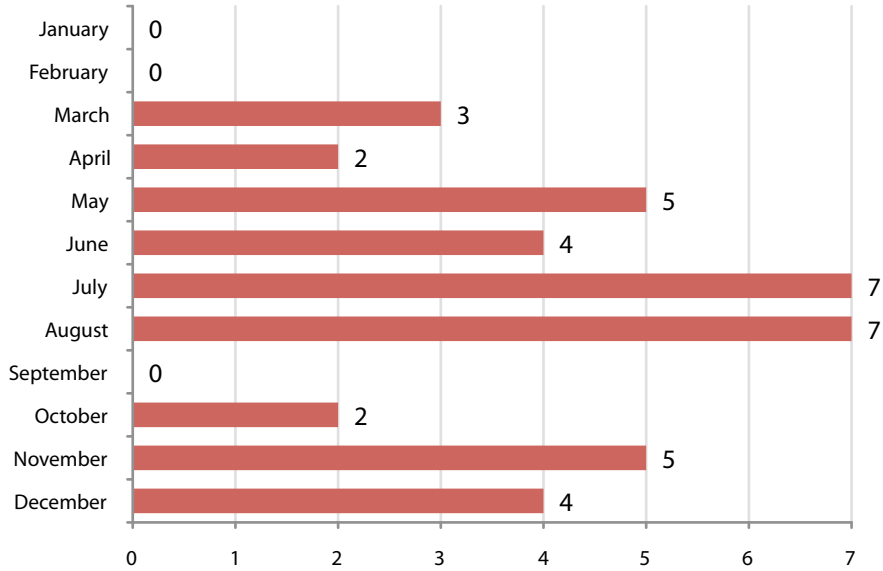
One of the accidents involved two vessels participating in different types of towing sports. Consequently, 48 vessels involved in towing sports were involved in 47 accidents. Accident percentages are based on 47 accidents.



California

2014 Fatalities by Month

(Total Fatalities 39)

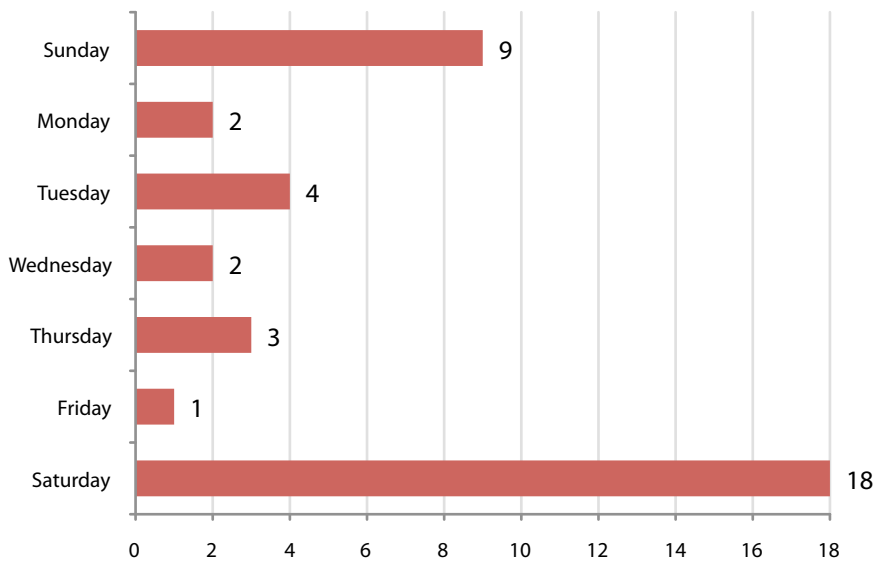


2014 Accidents by Time of Day

Time of Day	Number of Fatalities
12:00-1:59 a.m.	2
2:00-3:59 a.m.	1
4:00-5:59 a.m.	0
6:00-7:59 a.m.	1
8:00-9:59 a.m.	4
10:00-11:59 a.m.	6
12:00-1:59 p.m.	7
2:00-3:59 p.m.	5
4:00-5:59 p.m.	2
6:00-7:59 p.m.	7
8:00-9:59 p.m.	1
10:00-11:59 p.m.	3
Time Unknown	0
Total Accidents	39

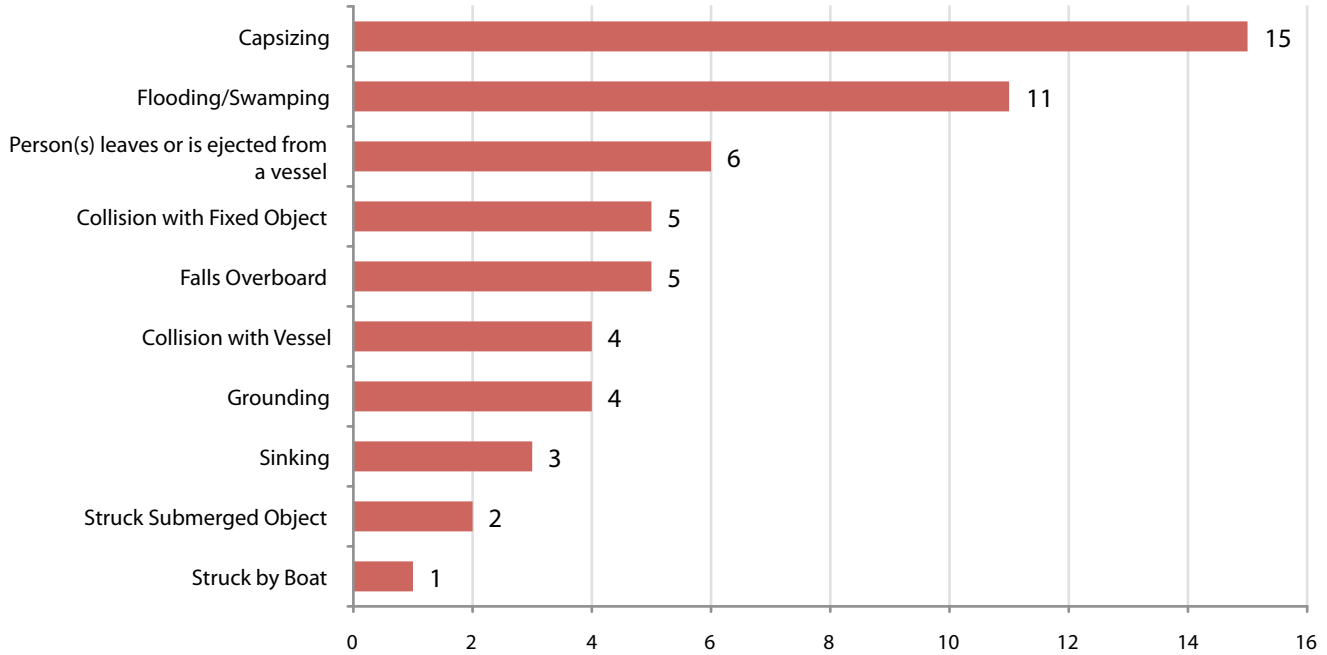
2014 Fatalities by Day of the Week

(Total Fatalities 39)



Boating Accident Statistics

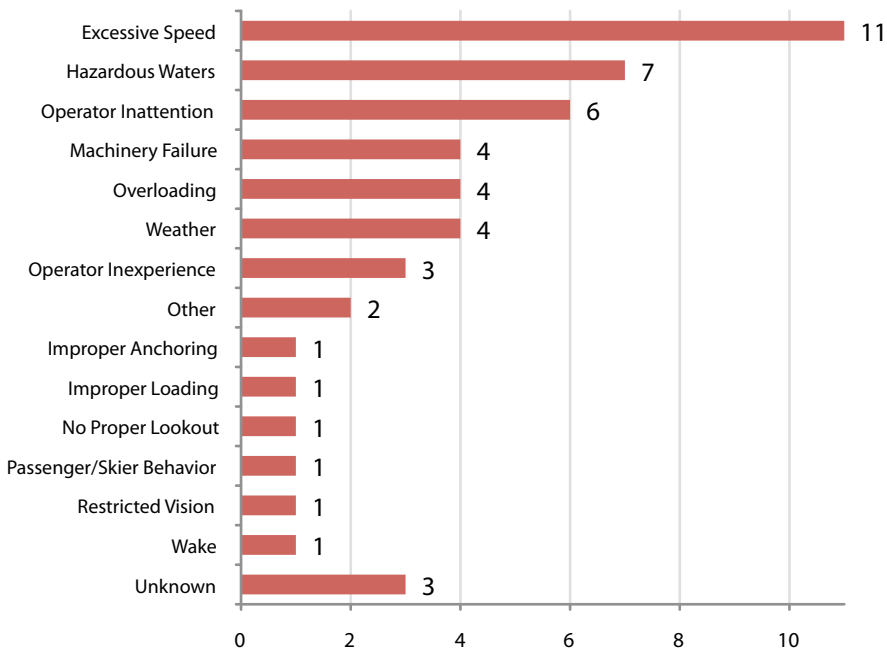
2014 Fatalities by Type of Accident (Total Types: 56* Total Fatalities: 39)



*Some accidents are represented by more than one accident type, which accounts for the accident types exceeding the number of accidents.

2014 Fatalities by Cause of Accident

(Total Causes: 50* Total Fatalities: 39)



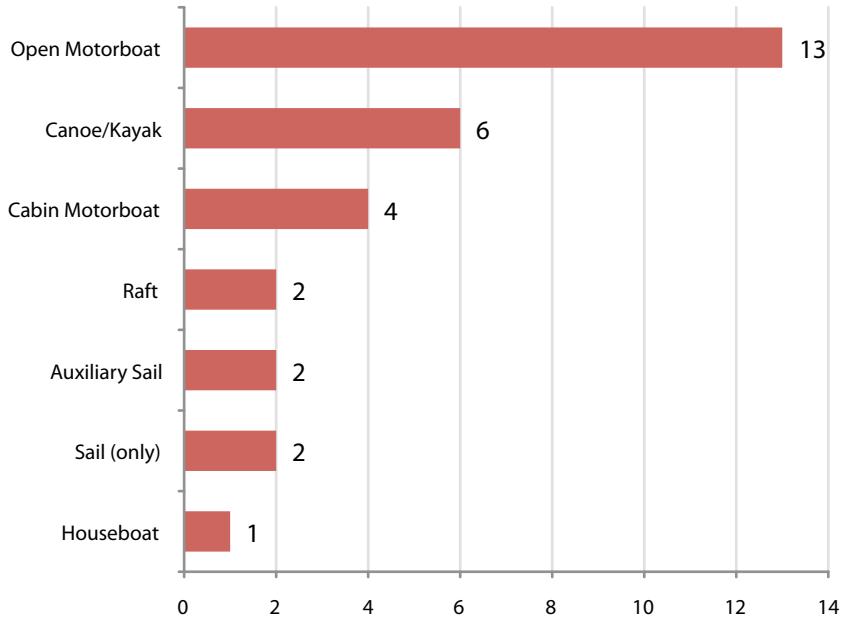
*Many accidents had more than one cause, which is reflected in this chart. The "Other" category includes causes that do not fit into any of the other categories listed left.



California

2014 Vessels Involved in Fatal Accidents

(Total Vessels 30)

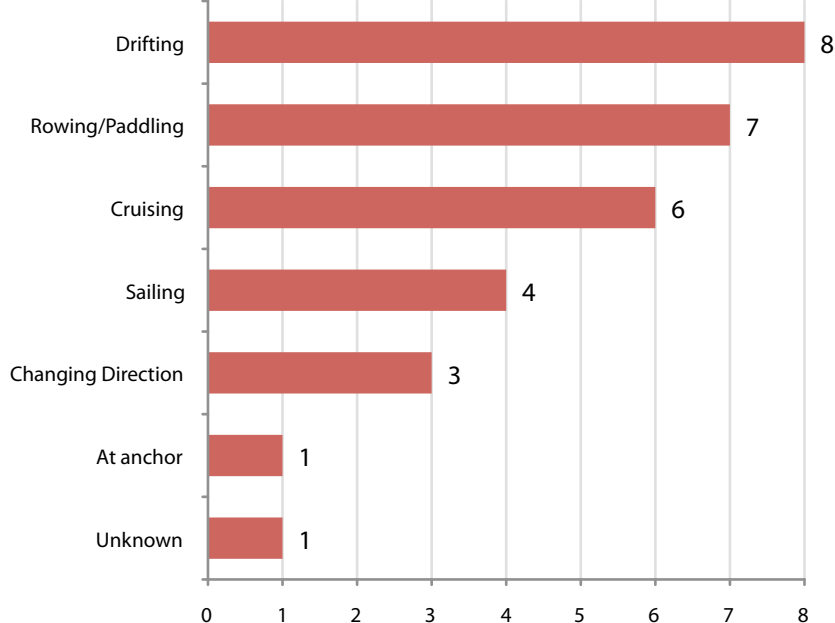


2014 Vessels Involved in Fatal Accidents by Length

Length of Vessels	Number of Vessels
<16 feet	8
16-25 feet	7
26-39 feet	5
40-65 feet	4
>65 feet	0
Unknown	6
Total Vessels	30

2014 Operation at Time of Fatal Accident

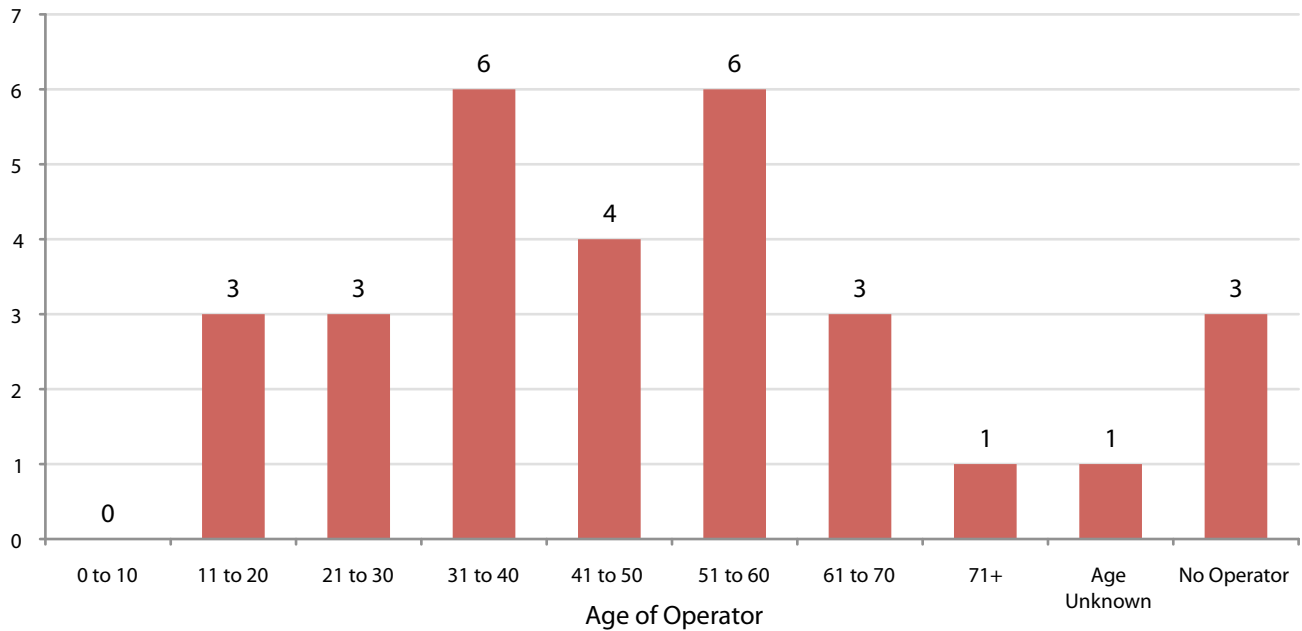
(Total Vessels 30)



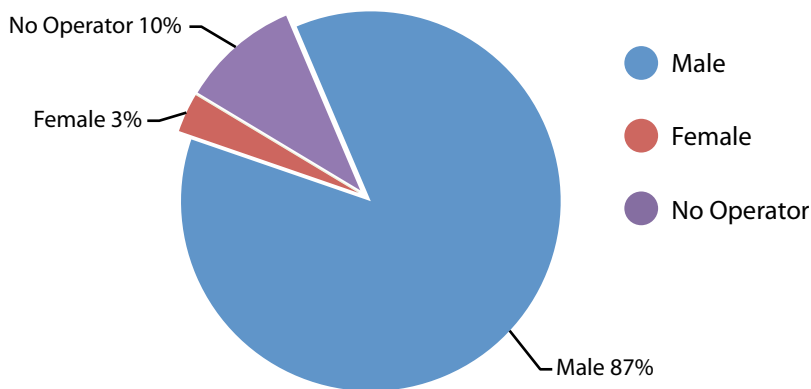
Boating Accident Statistics

2014 Operators Involved in Fatal Accidents by Age

(Total Operators: 27, Total Vessels: 30)



2014 Gender of Operators Involved in Fatal Accidents



2014 Operator Education

Type of Education	Number of Operators
American Red Cross	0
State Course	0
U.S. Power Squadron	0
USCG Auxiliary	0
Other	0
Informal	8
None	2
Unknown	17
No Operator	3
Total Vessels	30

The category No Operator reflects situations in which vessels were anchored or docked with no operator in command.



California

2010-2014 Life Jacket Use by Cause of Death

Cause of Death	Wearing Life Jacket	Not Wearing Life Jacket	Life Jacket Use Unknown	Total
Drowning	27	120	5	152
Trauma	19	22	2	43
Carbon Monoxide	0	1	0	1
Hypothermia	1	1	0	2
Other	2	5	2	9
Unknown Cause	6	13	7	26
Total Fatalities	55	162	16	233

2010-2014 Life Jacket Use by Victim Activity

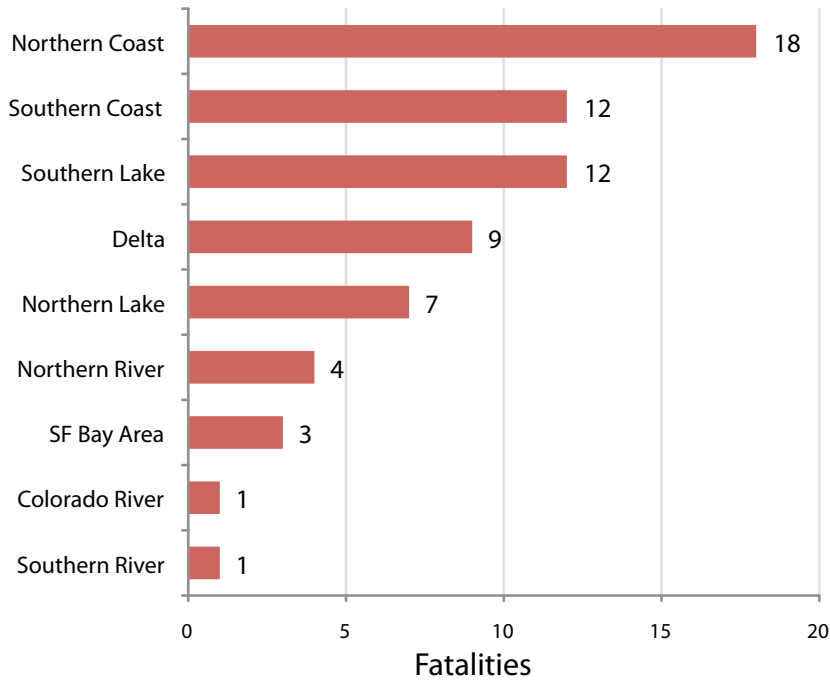
Activity	Wearing Life Jacket	Not Wearing Life Jacket	Life Jacket Use Unknown	Total
General Recreation	21	69	4	94
Fishing	5	58	4	67
Hunting	0	1	0	1
Paddle Sports	12	12	5	29
Towing Sports	5	1	0	6
Swimming	0	14	0	14
Sailing/Windsurfing	9	7	3	19
Other	3	0	0	3
Total Fatalities	55	162	16	233

2010-2014 Life Jacket Use by Victim's Type of Vessel

Type of Vessel	Wearing Life Jacket	Not Wearing Life Jacket	Life Jacket Use Unknown	Total
Open Motorboat/Pontoon	15	80	4	99
Cabin Motorboat	1	22	0	23
Personal Watercraft	13	4	0	17
Canoe/Kayak/Raft/Row	17	36	7	60
Sailboats/Sailboards	9	9	2	20
Other	0	6	1	7
Unknown	0	5	2	7
Total Fatalities	55	162	16	233

Boating Accident Statistics

2010-2014 Boating-Related Fishing Fatalities by Waterway Categories (Fatalities 67)



2010-2014 Alcohol Involvement in Boating-Related Fatalities

Year	Alcohol Involved	Alcohol not Involved	% Involving Alcohol Where Alcohol Testing was Conducted	Alcohol Testing not Conducted	Total Fatalities
2010	10	26	28%	13	49
2011	10	25	29%	19	54
2012	12	22	35%	19	53
2013	7	18	28%	13	38
2014	13	24	35%	2	39
Total Fatalities	52	115	31%	66	233



California

2014 California Recreational Boating Fatalities

