



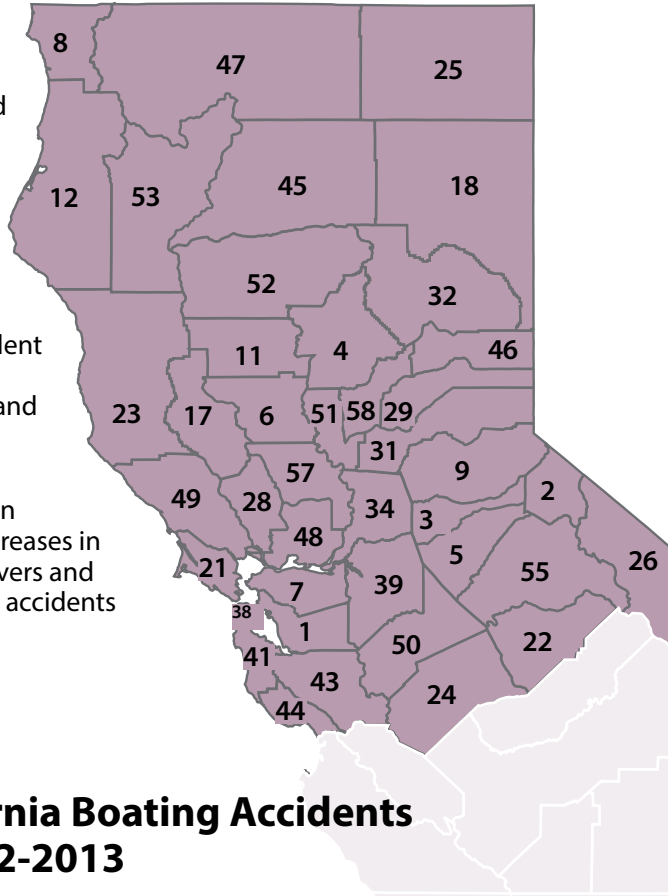
## 2013 California Recreational Boating Accident General Statistics for Northern California

In 2013, there were 294 boating accidents in Northern California that resulted in 172 injuries and 32 fatalities.

These accidents represented 55% of all accidents statewide, 63% of injuries and 84% of fatalities.

Compared with 2012 accident totals, accidents increased 6%, injuries increased 1% and fatalities decreased 14%.

Northern Coastal Waters, Northern Lakes and the San Francisco Bay Area saw increases in accidents. But Northern Rivers and the Delta saw decreases in accidents from 2012-2013.



County Number	County
1	Alameda
2	Alpine
3	Amador
4	Butte
5	Calaveras
6	Colusa
7	Contra Costa
8	Del Norte
9	El Dorado
11	Glenn
12	Humboldt
17	Lake
18	Lassen
21	Marin
22	Mariposa
23	Mendocino
24	Merced
25	Modoc
26	Mono
27	Monterey
28	Napa
29	Nevada
31	Placer
32	Plumas
34	Sacramento
38	San Francisco
39	San Joaquin
41	San Mateo
43	Santa Clara
44	Santa Cruz
45	Shasta
46	Sierra
47	Siskiyou
48	Solano
49	Sonoma
50	Stanislaus
51	Sutter
52	Tehama
53	Trinity
55	Tuolumne
57	Yolo
58	Yuba

## Northern California Boating Accidents by Location 2012-2013

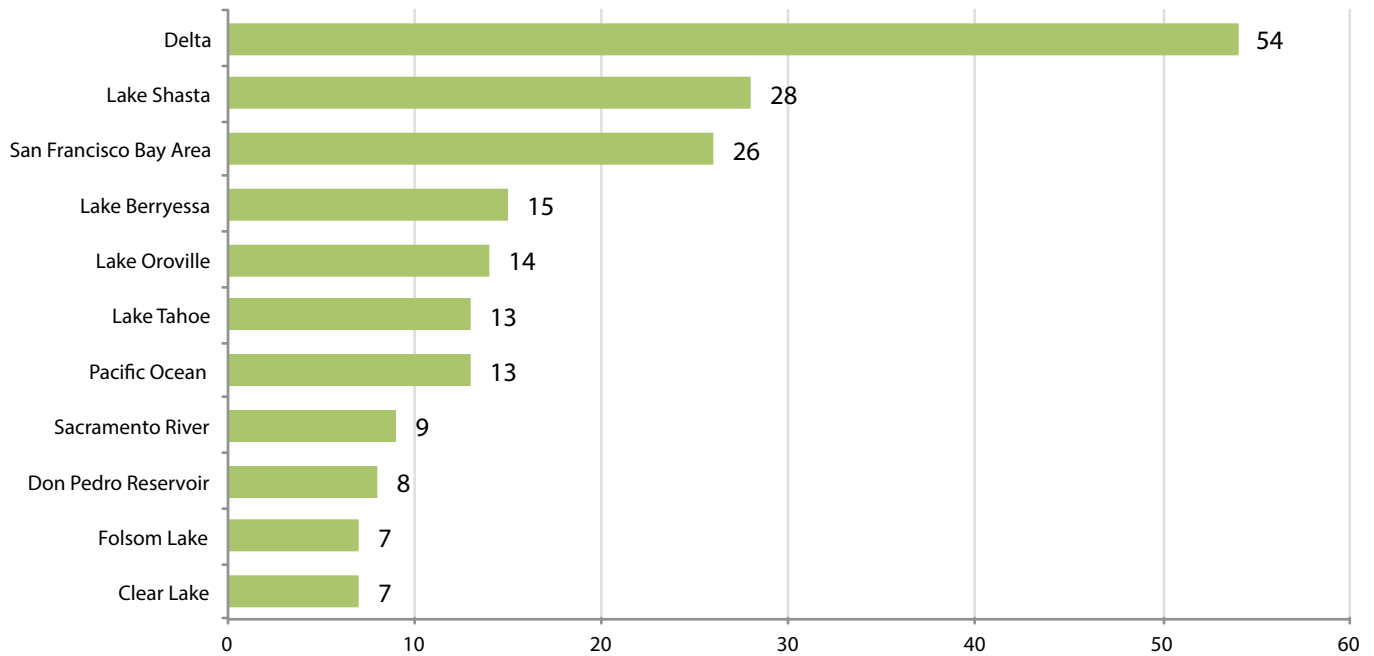
Location	2012			2013		
	Accidents	Injuries	Fatalities	Accidents	Injuries	Fatalities
Coastal Waters	23	17	9	31	5	3
Northern Lakes	151	96	18	163	126	15
Northern Rivers	23	17	5	20	7	6
Delta	66	34	5	54	22	5
San Francisco Bay Area	15	6	0	26	12	3
<b>Totals</b>	<b>278</b>	<b>170</b>	<b>37</b>	<b>294</b>	<b>172</b>	<b>32</b>



# NORTHERN CALIFORNIA

## 2013 Top Northern California Boating Accident Areas

(Total Accidents 194)



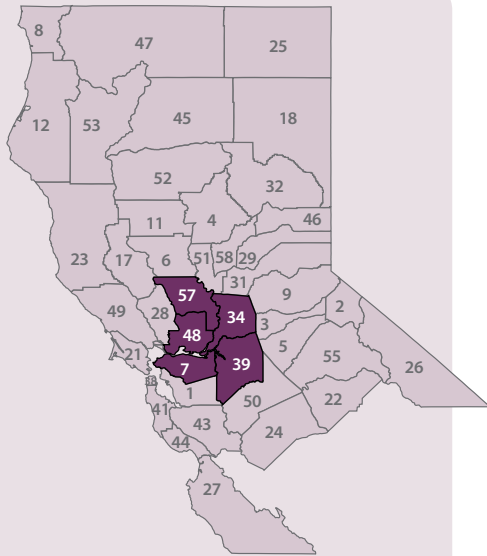
# California Delta

## Summary Statistics

The Sacramento-San Joaquin Delta had 54 accidents, 22 injuries and 5 fatalities in 2013.

The Delta accounted for 18% of accidents, 13% of injuries and 16% of fatalities in Northern California in 2013.

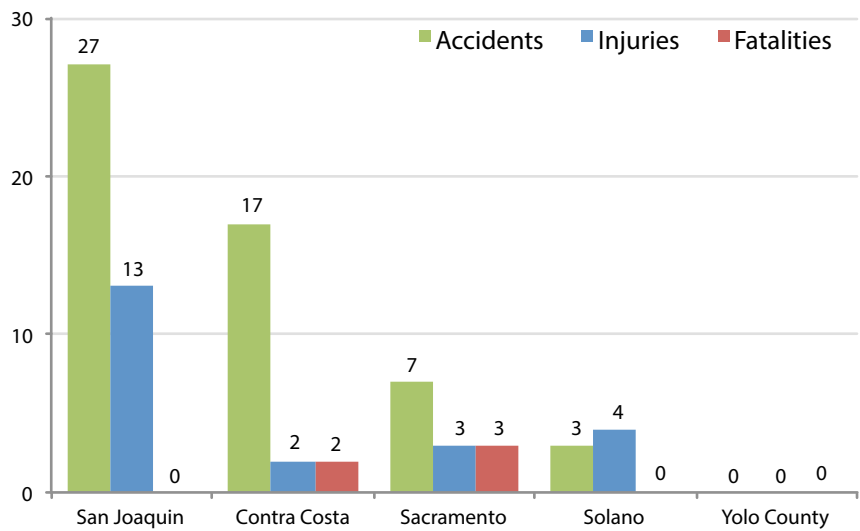
This accounted for 10% of all accidents, 8% of all injuries and 13% of all fatalities in California.



Includes accident statistics for the following counties:

County Number	County
7	Contra Costa
34	Sacramento
39	San Joaquin
48	Solano
57	Yolo

### 2013 Delta Boating Accidents by County



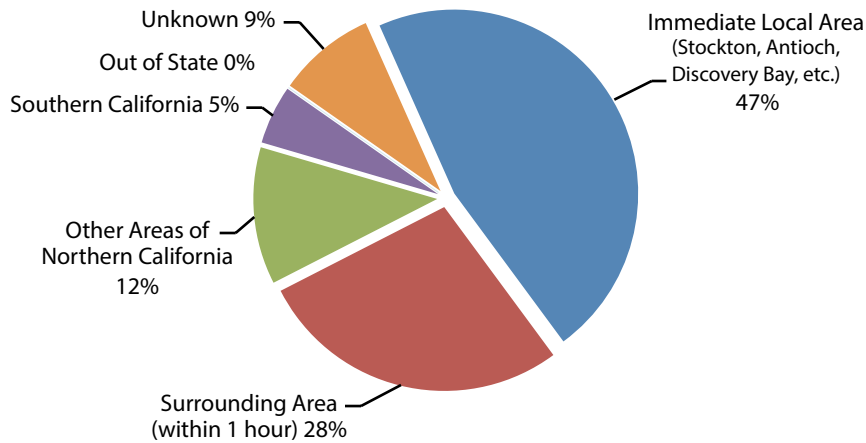
Delta	2009			2010			2011			2012			2013			5-Year Total		
	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fatalities
San Joaquin County	44	27	3	35	29	1	26	10	0	32	11	5	27	13	0	164	90	9
Contra Costa County	28	25	5	22	16	1	19	8	1	19	12	0	17	2	2	105	63	9
Sacramento County	6	6	2	5	7	0	4	5	0	6	4	0	7	3	3	28	25	5
Solano County	3	2	0	12	12	0	9	9	1	9	7	0	3	4	0	36	34	1
Yolo County	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<b>Total Delta Combined</b>	<b>81</b>	<b>60</b>	<b>10</b>	<b>75</b>	<b>64</b>	<b>2</b>	<b>58</b>	<b>32</b>	<b>2</b>	<b>66</b>	<b>34</b>	<b>5</b>	<b>54</b>	<b>22</b>	<b>5</b>	<b>334</b>	<b>212</b>	<b>24</b>



## Noteworthy Accident Statistics

	Delta	Northern California	California
<b>Percent of Accidents Involving...</b>			
Collisions with Other Vessels	24%	26%	34%
Flooding/ Swamping	15%	20%	19%
Grounding	13%	12%	11%
Water Skiing	9%	18%	15%
Operator Inattention	31%	32%	35%
Excessive Speed	30%	21%	21%
Personal Watercraft	7%	13%	16%
<b>Percent of Accidents Occurring on...</b>			
Holiday Weekends	9%	16%	14%
<b>Percent of Vessels that are...</b>			
Operated by Owner	58%	47%	41%

### 2013 Residence of Operators/Owners Involved in Accidents in the Delta



\* Seventy-five percent of operators involved in accidents live within one hour of their accident location.

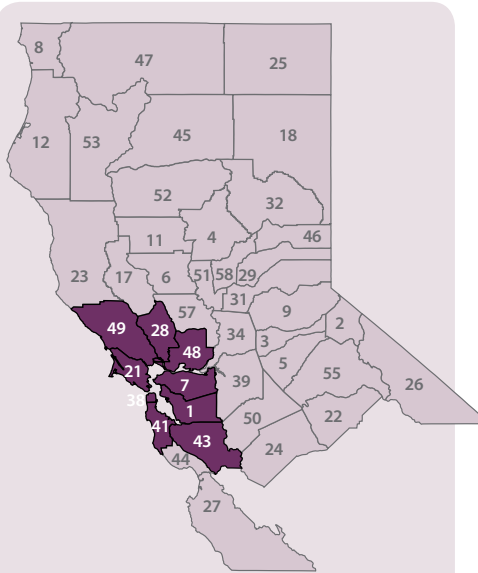
# San Francisco Bay Area

## Summary Statistics

The San Francisco Bay Area had 26 accidents, 12 injuries and 3 fatalities in 2013.

This accounted for 5% of all accidents, 4% of all injuries and 8% of all fatalities in California.

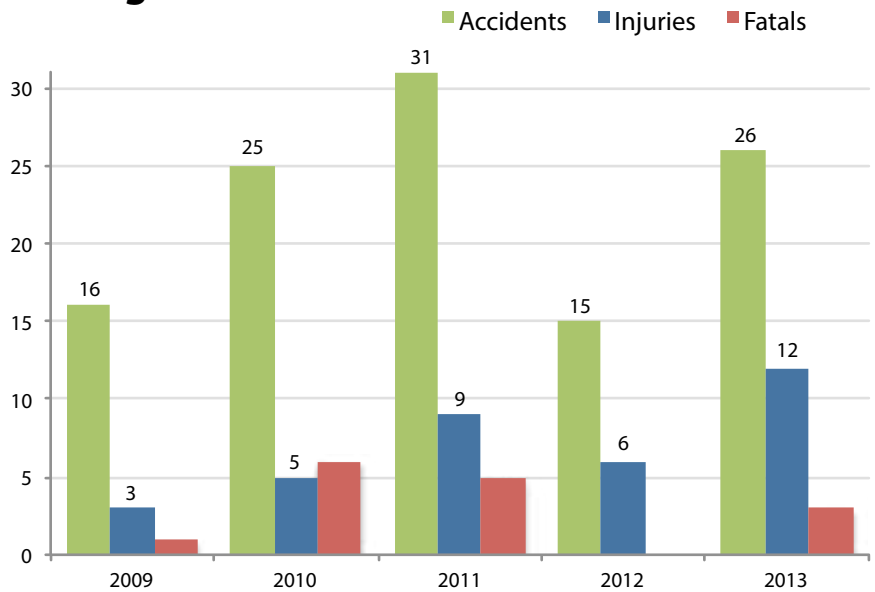
The San Francisco Bay Area accounted for 9% of accidents, 7% of injuries and 9% of fatalities in Northern California in 2013.



Includes accident statistics for the following counties:

County Number	County
1	Alameda
7	Contra Costa
21	Marin
28	Napa
38	San Francisco
41	San Mateo
43	Santa Clara
48	Solano
49	Sonoma

## 2009-2013 San Francisco Bay Area Boating Accidents



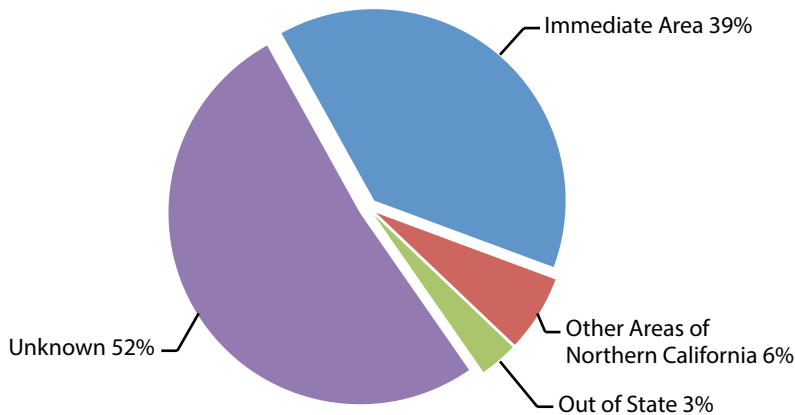
San Francisco Bay Area County	2009			2010			2011			2012			2013			5-Year Total		
	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fatalities
Alameda	6	3	0	3	0	0	6	0	1	4	2	0	6	3	0	25	5	4
Contra Costa	1	0	1	1	1	1	2	0	1	0	0	0	2	1	0	6	1	4
Marin	2	0	0	8	2	2	12	5	1	1	0	0	7	3	2	30	9	6
San Francisco	4	0	0	9	1	2	7	2	1	6	2	0	7	3	0	33	5	6
San Mateo	2	0	0	3	1	1	2	2	1	1	1	0	3	2	0	11	4	4
Santa Clara	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0
Solano	0	0	0	0	0	0	0	0	0	2	0	0	1	0	1	3	1	0
Sonoma	1	0	0	1	0	0	2	0	0	0	0	0	0	0	0	4	0	0
<b>Total SF Bay Combined</b>	<b>16</b>	<b>3</b>	<b>1</b>	<b>25</b>	<b>5</b>	<b>6</b>	<b>31</b>	<b>9</b>	<b>5</b>	<b>15</b>	<b>6</b>	<b>0</b>	<b>26</b>	<b>12</b>	<b>3</b>	<b>113</b>	<b>26</b>	<b>24</b>



## Noteworthy Accident Statistics

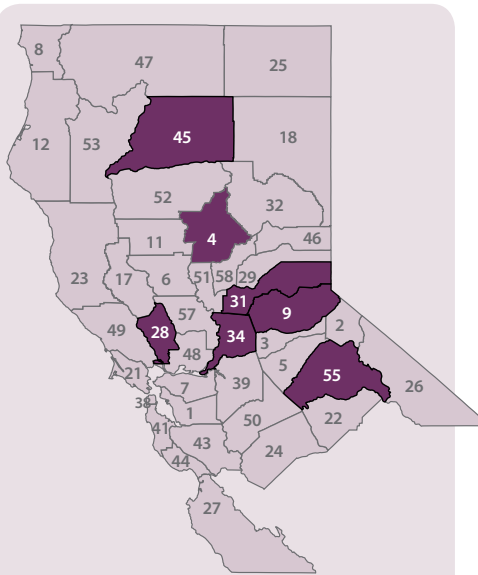
	SF Bay Area	Northern California	California
<b>Percent of Accidents Involving...</b>			
Collision with Other Vessels	38%	26%	34%
Falls Overboard	19%	9%	8%
Operator Inexperience	12%	17%	20%
Auxiliary Sail	42%	7%	12%
Cabin Motoboats	15%	12%	18%
Personal Watercraft	0%	13%	16%
<b>Percent of Operators that are...</b>			
Operating Borrowed Vessel	16%	22%	23%
Operating Rented Vessel	3%	7%	9%
Over 40 Years Old	93%	58%	53%

### 2013 Residence of Operators/Owners Involved in Accidents in the San Francisco Bay Area



# Northern Lakes

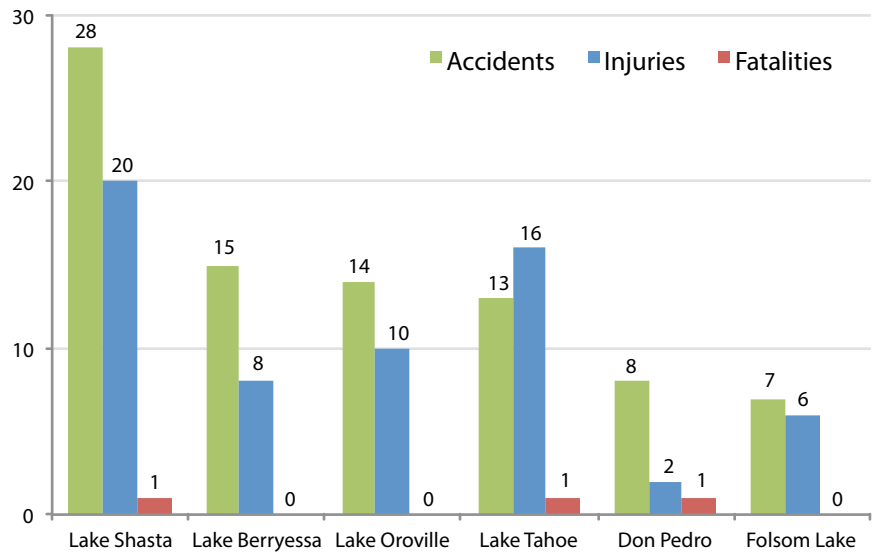
## Summary Statistics



Includes accident statistics for the following counties:

County Number	County
4	Butte
9	El Dorado
28	Napa
31	Placer
34	Sacramento
45	Shasta
55	Tuolumne

### 2013 Top Northern Lakes Boating Accidents by Location



### 2013 Residence of Operators Involved in Accidents

Area	Lake Shasta	Lake Berryessa	Lake Oroville	Lake Tahoe	Don Pedro Reservoir	Folsom Lake
Immediate Local Area	7%	0%	18%	0%	0%	22%
Surrounding Area (within 1 hour)	19%	18%	55%	0%	67%	67%
Other areas of Northern California	37%	76%	27%	67%	33%	0%
Southern California	15%	6%	0%	13%	0%	0%
Out of State	19%	0%	0%	13%	0%	0%
Unknown	4%	0%	0%	7%	0%	11%



## Noteworthy Accident Statistics

Lake Shasta	Lake Shasta	Northern California	California
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	14%	26%	34%
Grounding	18%	12%	11%
Water Skiing	50%	18%	15%
Houseboats	21%	6%	3%
Open Motorboats	61%	57%	53%
Excessive Speed	11%	21%	21%
<b>Percent of Operators that are...</b>			
Operating Rented Vessels	19%	7%	9%

Lake Shasta is in Shasta County and had 28 accidents, 20 injuries and 1 fatality in 2013.

This accounted for 12% of accidents, 12% of injuries and 6% of fatalities in all of California lakes.

Lake Shasta accounted for 17% of accidents, 16% of injuries and 7% of fatalities in Northern California lakes.

Lake Berryessa	Lake Berryessa	Northern California	California
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	27%	26%	34%
Flooding/ Swamping	33%	20%	19%
Water Skiing	27%	18%	15%
Personal Watercraft	33%	13%	16%
Operator Inexperience	33%	17%	20%
<b>Percent of Accidents Occurring on ...</b>			
Weekends	67%	59%	60%
<b>Percent of Operators that are...</b>			
Operating Rented Vessels	25%	7%	9%

Lake Berryessa is in Napa County and had 15 accidents, 8 injuries and 0 fatalities in 2013.

This accounted for 6% of accidents, 5% of injuries and 0% of fatalities in all of California lakes.

Lake Berryessa accounted for 9% of accidents, 6% of injuries and 0% of fatalities in Northern California lakes.



# Northern Lakes

Lake Oroville	Lake Oroville	Northern California	California
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	7%	26%	34%
Flooding/ Swamping	43%	20%	19%
Operator Inattention	50%	32%	35%
Houseboats	29%	6%	3%
Water Skiing	7%	18%	15%
<b>Percent of Accidents Occurring on..</b>			
Weekends	71%	59%	60%
<b>Percent of Operators that are...</b>			
40 Years Old and Under	55%	42%	47%
Operating Borrowed Vessels	31%	22%	23%

Lake Oroville is in Butte County and had 14 accidents, 10 injuries and 0 fatalities in 2013.

This accounted for 6% of accidents, 6% of injuries and 0% of fatalities in all of California lakes.

Lake Oroville accounted for 9% of accidents, 8% of injuries and 0% of fatalities in Northern California lakes.

Lake Tahoe	Lake Tahoe	Northern California	California
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	54%	26%	34%
Flooding/ Swamping	23%	20%	19%
Excessive Speed	31%	21%	21%
Open Motorboats	77%	57%	53%
Water Skiing	0%	18%	15%
<b>Percent of Accidents Occurring on..</b>			
Holiday Weekends	31%	16%	14%
<b>Percent of Operators that are...</b>			
40 Years Old and Under	92%	42%	47%
Operating Rented Vessels	43%	7%	9%

Lake Tahoe is in Placer and El Dorado Counties in California and Washoe and Douglas Counties in Nevada. It had 13 accidents, 16 injuries and 1 fatality in 2013.

This accounted for 6% of accidents, 10% of injuries and 6% of fatalities in all of California lakes.

Lake Tahoe accounted for 8% of accidents, 13% of injuries and 7% of fatalities in Northern California lakes.



## Noteworthy Accident Statistics

Don Pedro Reservoir	Don Pedro Reservoir	Northern California	California
<b>Percent of Accidents Involving...</b>			
Sinking	38%	10%	9%
Falls Overboard	13%	9%	8%
Operator Inattention	13%	32%	35%
Open Motorboats	75%	57%	53%
Houseboats	25%	6%	3%
<b>Percent of Accidents Occurring on..</b>			
Holiday Weekends	38%	16%	14%
Operating Rented Vessels	28%	10%	10%

Don Pedro Reservoir is in Tuolumne County and had 8 accidents, 2 injuries and 1 fatality in 2013.

This accounted for 3% of accidents, 1% of injuries and 6% of fatalities in all of California lakes.

Don Pedro Reservoir accounted for 5% of accidents, 2% of injuries and 7% of fatalities in Northern California lakes.

Folsom Lake	Folsom Lake	Northern California	California
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	43%	26%	34%
Excessive Speed	29%	21%	21%
Personal Watercraft	43%	13%	16%
Cabin Motorboats	29%	12%	18%
Sinking	14%	10%	9%
<b>Percent of Accidents Occurring on..</b>			
Holiday Weekends	29%	16%	14%
<b>Percent of Operators that are...</b>			
40 Years Old and Under	50%	42%	47%

Folsom Lake is in El Dorado, Placer and Sacramento Counties and had 7 accidents, 6 injuries and 0 fatalities in 2013.

This accounted for 3% of accidents, 4% of injuries and 0% of fatalities in all of California lakes.

Folsom Lake accounted for 4% of accidents, 5% of injuries and 0% of fatalities in Northern California lakes.

# NORTHERN CALIFORNIA



	Calif.	No. Calif.	Delta	San Francisco Bay	Lake Shasta	Lake Berryessa	Lake Oroville	Lake Tahoe	Don Pedro Reservoir	Folsom Lake
<b>Types - Percent of Accidents Involving...</b>										
Collisions with Other Vessels	34%	26%	24%	38%	14%	27%	7%	54%	0%	43%
Falls Overboard	8%	9%	11%	19%	4%	0%	21%	0%	13%	0%
Grounding	11%	12%	13%	12%	18%	0%	7%	8%	0%	0%
Flooding/ Swamping	19%	20%	15%	19%	4%	33%	43%	23%	50%	29%
Sinking	9%	10%	7%	4%	4%	13%	7%	8%	38%	14%
Towing Sport Accidents	15%	18%	9%	0%	50%	27%	7%	0%	0%	14%
<b>Causes - Percent of Accidents Involving...</b>										
Excessive Speed	21%	21%	30%	23%	11%	33%	14%	31%	0%	29%
Hazardous Weather/ Water	6%	7%	9%	8%	0%	13%	0%	8%	0%	0%
Operator Inattention	35%	32%	31%	35%	25%	7%	50%	23%	13%	14%
Operator Inexperience	20%	17%	15%	12%	21%	33%	14%	38%	13%	29%
<b>Types of Vessels - Percent of Accidents Involving...</b>										
Open Motorboats	53%	57%	54%	31%	61%	67%	64%	77%	75%	43%
Cabin Motorboats	18%	12%	26%	15%	4%	0%	0%	0%	0%	29%
Personal Watercraft	16%	13%	7%	0%	11%	33%	14%	23%	13%	43%
Auxiliary Sailboats	12%	7%	4%	42%	0%	0%	0%	8%	0%	0%
Houseboats	3%	6%	9%	0%	21%	7%	29%	0%	25%	0%
<b>Ownership - Percent of Vessels...</b>										
Operated by Owner	41%	47%	58%	35%	38%	55%	31%	5%	44%	50%
Borrowed	23%	22%	17%	16%	28%	5%	31%	19%	22%	40%
Rented	9%	7%	1%	3%	19%	25%	6%	43%	0%	0%
Unknown or No Operator	27%	24%	23%	46%	16%	15%	31%	33%	33%	10%
<b>Operator Age - Percent of Operators Involved in Accidents (does not include unknowns)...</b>										
Operators Under 18 Years Old	4%	3%	0%	0%	0%	6%	0%	0%	0%	0%
Operators 40 Years Old and Under	47%	42%	25%	7%	38%	47%	55%	92%	50%	50%
Operators Over 40 Years Old	53%	58%	75%	93%	62%	53%	45%	8%	50%	50%
<b>Other Factors - Percent of Accidents Occurring On...</b>										
Weekends	60%	59%	61%	65%	36%	67%	71%	69%	50%	29%
Holiday Weekends	14%	16%	9%	8%	25%	20%	7%	31%	38%	29%

