



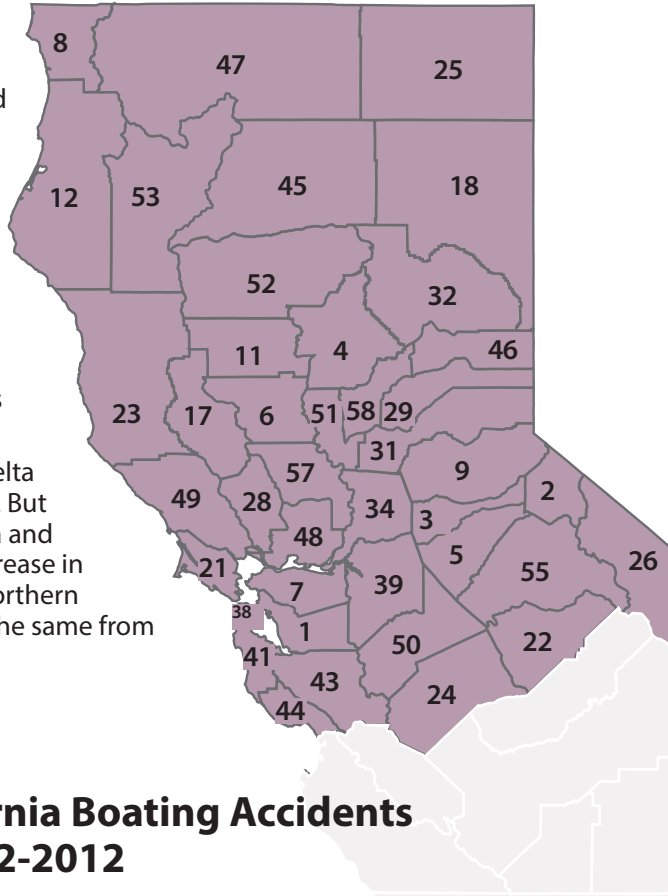
## 2012 California Recreational Boating Accident General Statistics for Northern California

In 2012, there were 278 boating accidents in Northern California that resulted in 170 injuries and 37 fatalities.

These accidents represent 59% of all accidents statewide, 69% of injuries and 70% of fatalities.

Compared with 2011 accident totals, accidents increased 1%, injuries increased 2% and fatalities increased 37%.

Northern Lakes and the Delta saw increases in accidents. But the San Francisco Bay Area and Northern Rivers saw a decrease in accidents. Accidents on Northern Coastal Waters remained the same from 2011 to 2012.



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 2012-2011

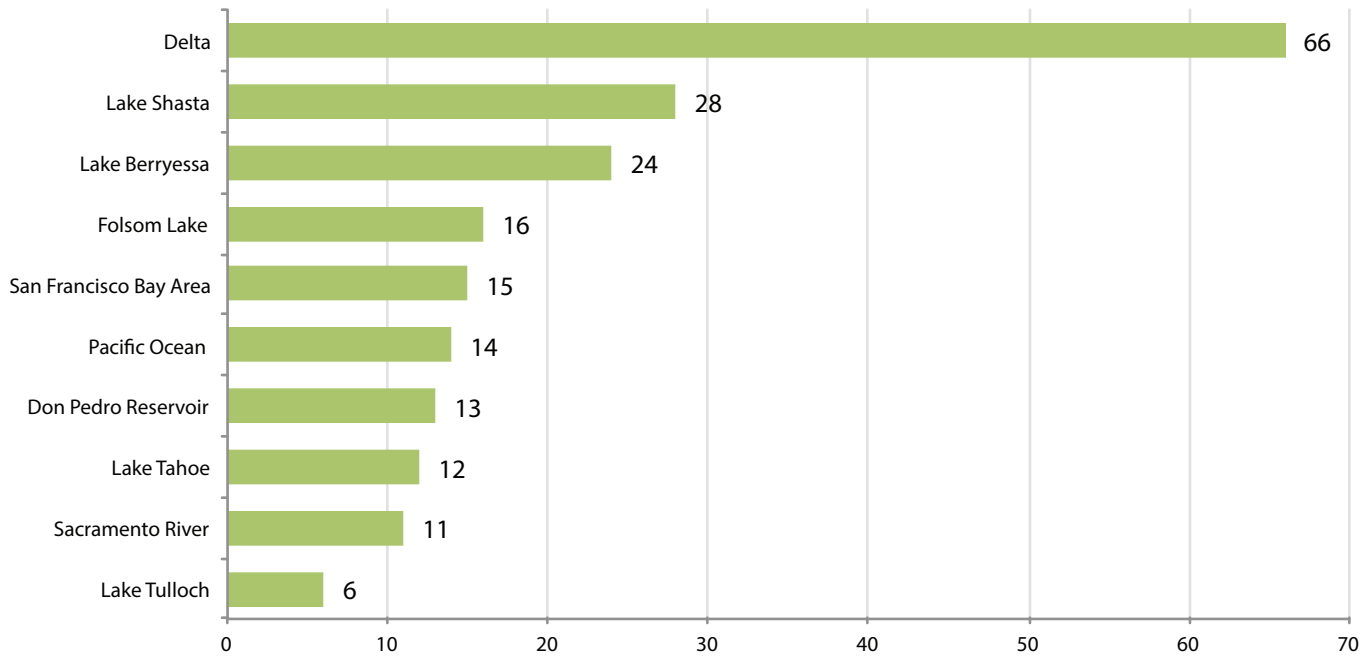
Location	2011			2012		
	Accidents	Injuries	Fatalities	Accidents	Injuries	Fatalities
Coastal Waters	23	10	2	23	17	9
Northern Lakes	137	100	9	151	96	18
Northern Rivers	27	16	9	23	17	5
Delta	58	32	2	66	34	5
San Francisco Bay Area	31	9	5	15	6	0
<b>Totals</b>	<b>276</b>	<b>167</b>	<b>27</b>	<b>278</b>	<b>170</b>	<b>37</b>



# NORTHERN CALIFORNIA

## Top Northern California Boating Accident Areas 2012

(Total Accidents 205)



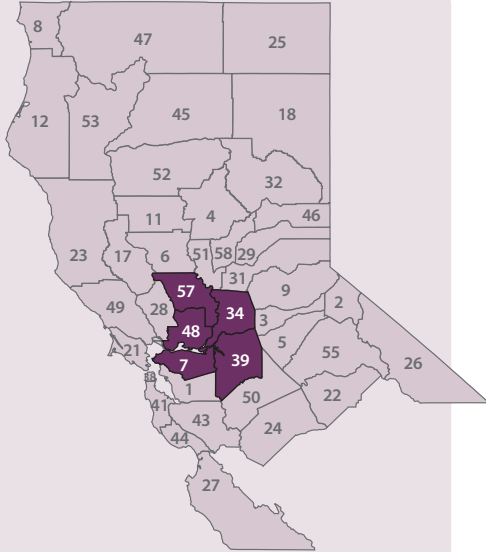
# California Delta

## Summary Statistics

The Sacramento-San Joaquin Delta had 66 accidents, 34 injuries and 5 fatalities in 2012.

The Delta accounted for 24% of accidents, 20% of injuries and 14% of fatalities in Northern California in 2012.

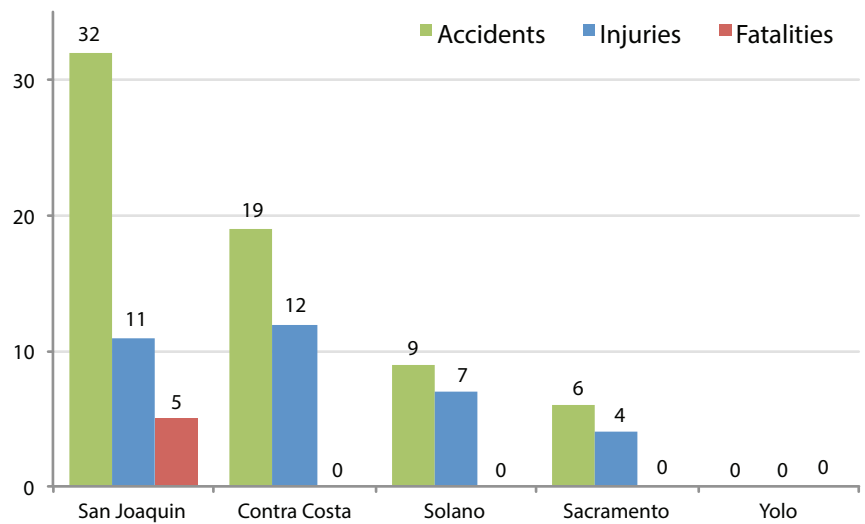
This accounted for 14% of all accidents, 14% of all injuries and 9% of all fatalities in California.



Includes accident statistics for the following counties:

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

## 2012 Delta Boating Accidents by County



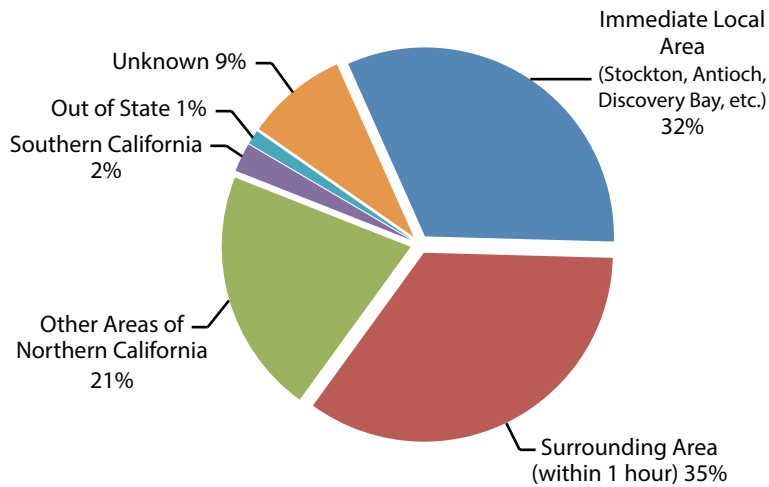
Delta	2008			2009			2010			2011			2012			5-Year Total		
	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fatalities
San Joaquin County	58	32	9	44	27	3	35	29	1	26	10	0	32	11	5	195	109	18
Contra Costa County	27	25	2	28	25	5	22	16	1	19	8	1	19	12	0	115	86	9
Sacramento County	8	2	1	6	6	2	5	7	0	4	5	0	6	4	0	29	24	3
Solano County	8	7	3	3	2	0	12	12	0	9	9	1	9	7	0	41	37	4
Yolo County	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
<b>Total Delta Combined</b>	<b>101</b>	<b>66</b>	<b>15</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>381</b>	<b>256</b>	<b>34</b>



## Noteworthy Accident Statistics

	Delta	Northern California	California
<b>Percent of Accidents Involving...</b>			
Collisions with Other Vessels	20%	26%	32%
Flooding/ Swamping	35%	22%	20%
Grounding	20%	13%	13%
Water Skiing	12%	19%	15%
Operator Inattention	42%	33%	36%
Excessive Speed	33%	22%	21%
Open Motorboats	59%	57%	51%
Personal Watercraft	8%	18%	19%
<b>Percent of Accidents Occurring on...</b>			
Holiday Weekends	9%	19%	16%
Weekends	56%	56%	58%

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



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

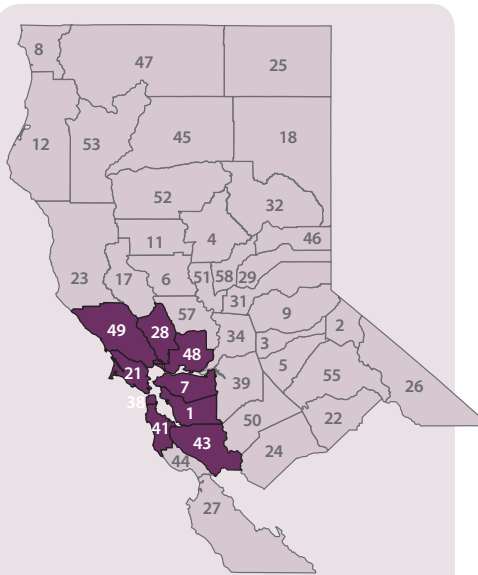
# San Francisco Bay Area

## Summary Statistics

The San Francisco Bay Area had 15 accidents, 6 injuries and 0 fatalities in 2012.

This accounted for 3% of all accidents, 2% of all injuries and 0% of all fatalities in California.

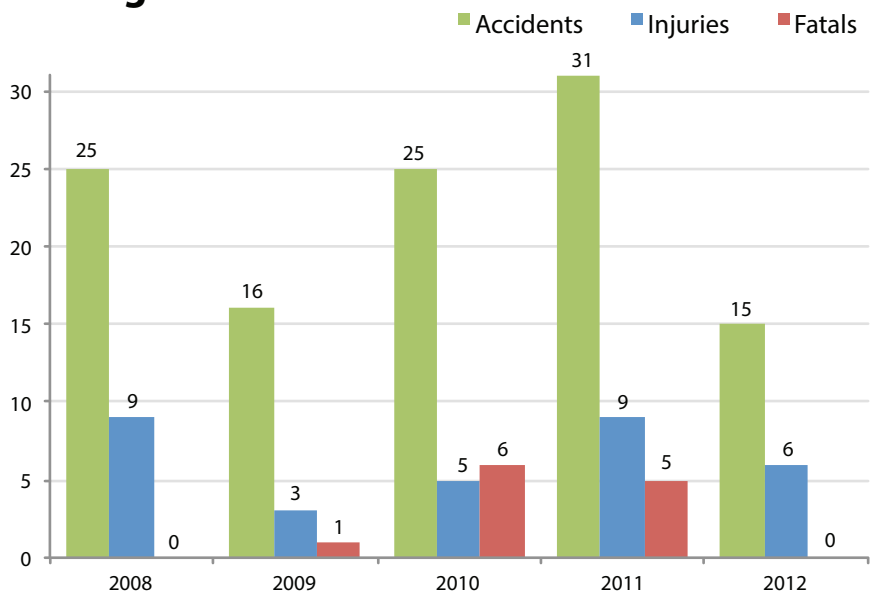
The San Francisco Bay Area accounted for 5% of accidents, 4% of injuries and 0% of fatalities in Northern California in 2012.



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

## 2008-2012 San Francisco Bay Area Boating Accidents



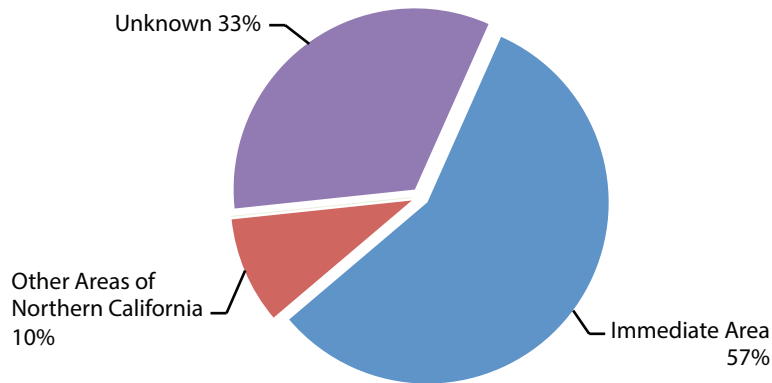
San Francisco Bay Area	2008			2009			2010			2011			2012			5-Year Total		
	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fatalities
Alameda	6	1	0	6	3	0	3	0	0	6	0	1	4	2	0	25	6	1
Contra Costa	1	1	0	1	0	1	1	1	1	2	0	1	0	0	0	5	2	3
Marin	1	0	0	2	0	0	8	2	2	12	5	1	1	0	0	24	7	3
San Francisco	15	7	0	4	0	0	9	1	2	7	2	1	6	2	0	41	12	3
San Mateo	2	0	0	2	0	0	3	1	1	2	2	1	1	1	0	10	4	2
Santa Clara	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0
Solano	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0
Sonoma	0	0	0	1	0	0	1	0	0	2	0	0	0	0	0	4	0	0
<b>Total San Francisco Bay Combined</b>	<b>25</b>	<b>9</b>	<b>0</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>112</b>	<b>32</b>	<b>12</b>



## Noteworthy Accident Statistics

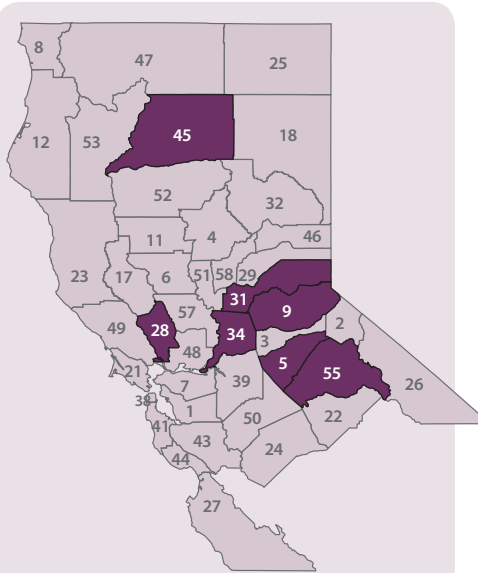
	SF Bay Area	Northern California	California
<b>Percent of Accidents Involving...</b>			
Collision with Other Vessels	40%	26%	32%
Capsizing	13%	11%	10%
Equipment Failure	27%	8%	7%
Auxiliary Sail	27%	5%	9%
Cabin Motoboats	47%	15%	21%
Personal Watercraft	0%	18%	19%
<b>Percent of Operators that are...</b>			
Operating Borrowed Vessel	10%	20%	20%
40 Years Old and Under	60%	55%	52%

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



# Northern Lakes

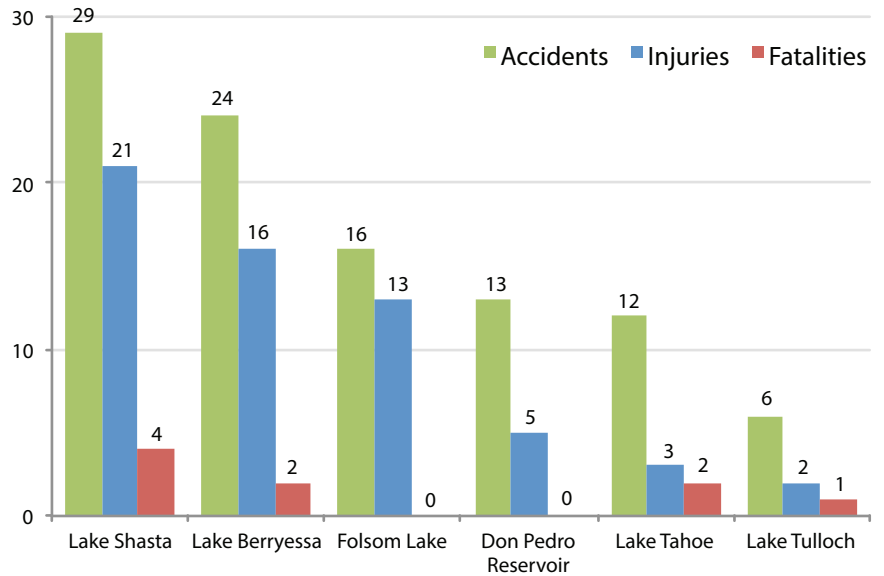
## Summary Statistics



Includes accident statistics for the following counties:

County Number	County
5	Calaveras
9	El Dorado
28	Napa
31	Placer
34	Sacramento
45	Shasta
55	Tuolumne

### 2012 Top Northern Lakes Boating Accidents by Location



### Residence of Operators Involved in Accidents

Area	Lake Shasta	Lake Berryessa	Folsom Lake	Don Pedro Reservoir	Lake Tahoe	Lake Tulloch
Immediate Local Area	20%	0%	33%	6%	11%	11%
Surrounding Area (within 1 hour)	7%	35%	62%	19%	0%	33%
Other areas of Northern California	39%	55%	0%	63%	50%	56%
Southern California	7%	0%	0%	6%	6%	0%
Out of State	22%	3%	0%	0%	22%	0%
Unknown	5%	6%	5%	6%	11%	0%



## Noteworthy Accident Statistics

Lake Shasta	Lake Shasta	Northern California	California
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	31%	26%	32%
Water Skiing	28%	19%	15%
Houseboats	28%	5%	3%
Open Motorboats	66%	57%	51%
Excessive Speed	17%	22%	21%
<b>Percent of Operators that are...</b>			
Operating Rented Vessels	27%	10%	10%

Lake Shasta is in Shasta County and had 29 accidents, 21 injuries and 4 fatalities in 2012.

This accounted for 15% of accidents, 18% of injuries and 17% of fatalities in all of California lakes.

Lake Shasta accounted for 19% of accidents, 22% of injuries and 22% of fatalities in Northern California.

22% of operators involved in accidents on Lake Shasta in 2012 resided out of state.

Lake Berryessa	Lake Berryessa	Northern California	California
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	25%	26%	32%
Water Skiing	42%	19%	15%
Personal Watercraft	25%	18%	19%
Operator Inexperience	29%	22%	22%
<b>Percent of Accidents Occurring on..</b>			
Weekends	71%	56%	58%
<b>Percent of Operators that are...</b>			
Operating Rented Vessels	35%	10%	10%
40 Years Old and Under	64%	55%	52%

Lake Berryessa is in Napa County and had 24 accidents, 16 injuries and 2 fatalities in 2012.

This accounted for 12% of accidents, 13% of injuries and 8% of fatalities in all of California lakes.

Lake Berryessa accounted for 16% of accidents, 17% of injuries and 11% of fatalities in Northern California lakes.



# Northern Lakes

<b>Folsom Lake</b>	<b>Folsom Lake</b>	<b>Northern California</b>	<b>California</b>
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	25%	26%	32%
Excessive Inattention	50%	33%	36%
Operator Inexperience	6%	22%	22%
Personal Watercraft	31%	18%	19%
Open Motorboats	75%	57%	51%
Water Skiing	38%	19%	15%
<b>Percent of Accidents Occurring on...</b>			
Holiday Weekends	38%	19%	16%
<b>Percent of Operators that are...</b>			
40 Years Old and Under	63%	55%	52%

Folsom Lake is in El Dorado, Placer and Sacramento Counties and had 16 accidents, 13 injuries and 0 fatalities in 2012.

This accounted for 8% of accidents, 11% of injuries and 0% of fatalities in all of California lakes.

Folsom Lake accounted for 11% of accidents, 14% of injuries and 0% of fatalities in Northern California lakes.

<b>Don Pedro Reservoir</b>	<b>Don Pedro Reservoir</b>	<b>Northern California</b>	<b>California</b>
<b>Percent of Accidents Involving...</b>			
Water Skiing	38%	19%	15%
Excessive Inattention	15%	33%	36%
Operator Inexperience	15%	22%	22%
Open Motorboats	62%	57%	51%
Houseboats	23%	5%	3%
<b>Percent of Accidents Occurring on..</b>			
Weekends	77%	56%	58%

Don Pedro Reservoir is in Tuolumne County and had 13 accidents, 5 injuries and 0 fatalities in 2012.

This accounted for 7% of accidents, 4% of injuries and 0% of fatalities in all of California lakes.

Don Pedro Reservoir accounted for 9% of accidents, 5% of injuries and 0% of fatalities in Northern California lakes.



## Noteworthy Accident Statistics

Lake Tahoe	Lake Tahoe	Northern California	California
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	42%	26%	32%
Sinking	33%	12%	12%
Hazardous Weather/ Water	17%	8%	8%
Open Motorboats	58%	57%	51%
Water Skiing	8%	19%	15%
<b>Percent of Accidents Occurring on..</b>			
Holiday Weekends	33%	19%	16%
<b>Percent of Operators that are..</b>			
40 Years Old and Under	70%	55%	52%
Operating Rented Vessels	28%	10%	10%

Lake Tahoe is in Placer and El Dorado Counties in California and Washoe and Douglas County in Nevada. It had 12 accidents, 3 injuries and 2 fatalities on the California side in 2012.

This accounted for 6% of accidents, 3% of injuries and 8% of fatalities in all of California lakes.

Lake Tahoe accounted for 8% of accidents, 3% of injuries and 11% of fatalities in Northern California lakes.

Lake Tulloch	Lake Tulloch	Northern California	California
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	50%	26%	32%
Operator Inexperience	33%	22%	22%
Personal Watercraft	83%	18%	19%
<b>Percent of Accidents Occurring on..</b>			
Holiday Weekends	33%	19%	16%
<b>Percent of Operators that are..</b>			
Over 40 Years Old	56%	45%	48%
Operating Rented Vessels	44%	10%	10%

Lake Tulloch is in Calaveras and Tuolumne Counties and had 6 accidents, 2 injuries and 1 fatality in 2012.

This accounted for 3% of accidents, 2% of injuries and 4% of fatalities in all of California lakes.

Lake Tulloch accounted for 4% of accidents, 2% of injuries and 6% of fatalities in Northern California lakes.

# NORTHERN CALIFORNIA



	Calif.	No. Calif.	Delta	San Francisco	Lake Shasta	Lake Berryessa	Folsom Lake	Don Pedro Reservoir	Lake Tahoe	Lake Tulloch
<b>Types - Percent of Accidents Involving...</b>										
Collisions with Other Vessels	32%	26%	20%	40%	31%	25%	25%	15%	42%	50%
Falls Overboard	8%	8%	6%	0%	7%	8%	0%	8%	8%	50%
Groundings	13%	13%	20%	13%	10%	4%	19%	8%	0%	0%
Flooding/ Swamping	20%	22%	35%	33%	7%	17%	13%	15%	33%	0%
Sinking	12%	12%	20%	20%	3%	8%	0%	8%	33%	0%
Towing Sport Accidents	15%	19%	12%	0%	28%	42%	38%	38%	8%	0%
<b>Causes - Percent of Accidents Involving...</b>										
Excessive Speed	21%	22%	33%	0%	17%	13%	25%	15%	25%	17%
Hazardous Weather/ Water	8%	8%	6%	7%	3%	0%	6%	0%	17%	0%
Operator Inattention	36%	33%	42%	33%	34%	29%	50%	15%	17%	33%
Operator Inexperience	22%	22%	24%	13%	31%	29%	6%	15%	25%	33%
<b>Types of Vessels - Percent of Accidents Involving...</b>										
Open Motorboats	51%	57%	59%	13%	66%	71%	75%	62%	58%	33%
Cabin Motorboats	21%	15%	32%	47%	0%	0%	0%	0%	17%	0%
Personal Watercraft	19%	18%	8%	0%	24%	25%	31%	23%	17%	83%
Auxiliary Sailboats	9%	5%	3%	27%	0%	0%	0%	8%	0%	0%
Houseboats	3%	5%	2%	0%	28%	0%	0%	23%	8%	0%
<b>Ownership - Percent of Vessels...</b>										
Operated by Owner	45%	49%	62%	43%	34%	32%	52%	50%	28%	44%
Borrowed	20%	20%	15%	10%	17%	26%	38%	6%	0%	11%
Rented	10%	10%	1%	0%	27%	35%	0%	6%	28%	44%
Unknown or No Operator	25%	21%	22%	47%	22%	6%	10%	37%	44%	0%
<b>Operator Age - Percent of Operators Involved in Accidents (does not include unknowns)...</b>										
Under 18 Years Old	7%	7%	5%	10%	21%	0%	5%	0%	0%	22%
40 Years Old and Under	52%	55%	41%	60%	71%	64%	63%	60%	70%	44%
Over 40 Years Old	48%	45%	59%	40%	29%	36%	37%	40%	30%	56%
<b>Other Factors - Percent of Accidents Occurring On...</b>										
Weekends	58%	56%	56%	33%	45%	71%	69%	77%	42%	33%
Holiday Weekends	16%	19%	9%	7%	34%	29%	38%	15%	33%	33%

