

# SOUTHERN CALIFORNIA

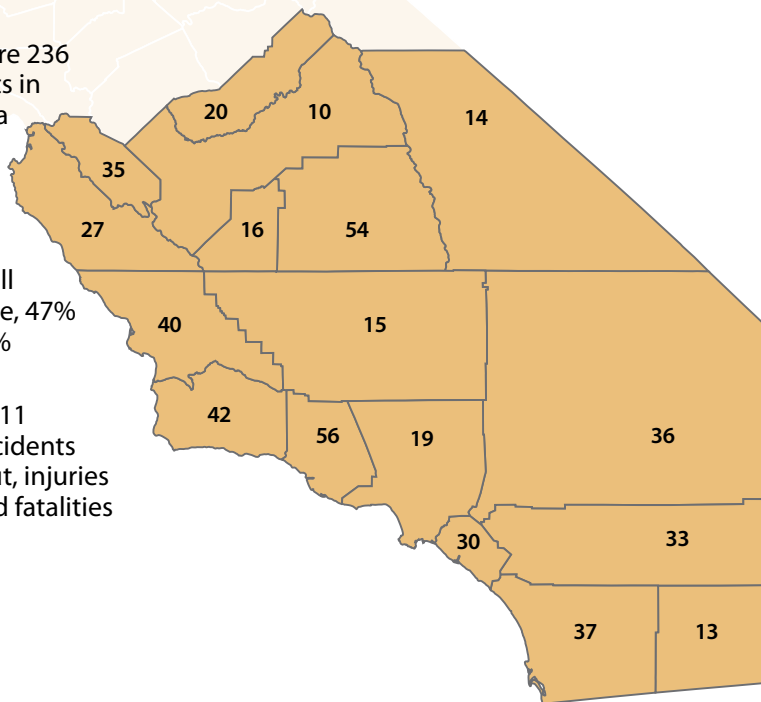


## 2011 California Recreational Boating Accident General Statistics for Southern California

In 2011, there were 236 boating accidents in Southern California that resulted in 146 injuries and 27 fatalities.

These accidents represent 46% of all accidents statewide, 47% of injuries, and 50% of fatalities.

Compared with 2011 accident totals, accidents decreased 16%, but, injuries increased 45%; and fatalities increased 17%.



Includes accident statistics for the following counties:

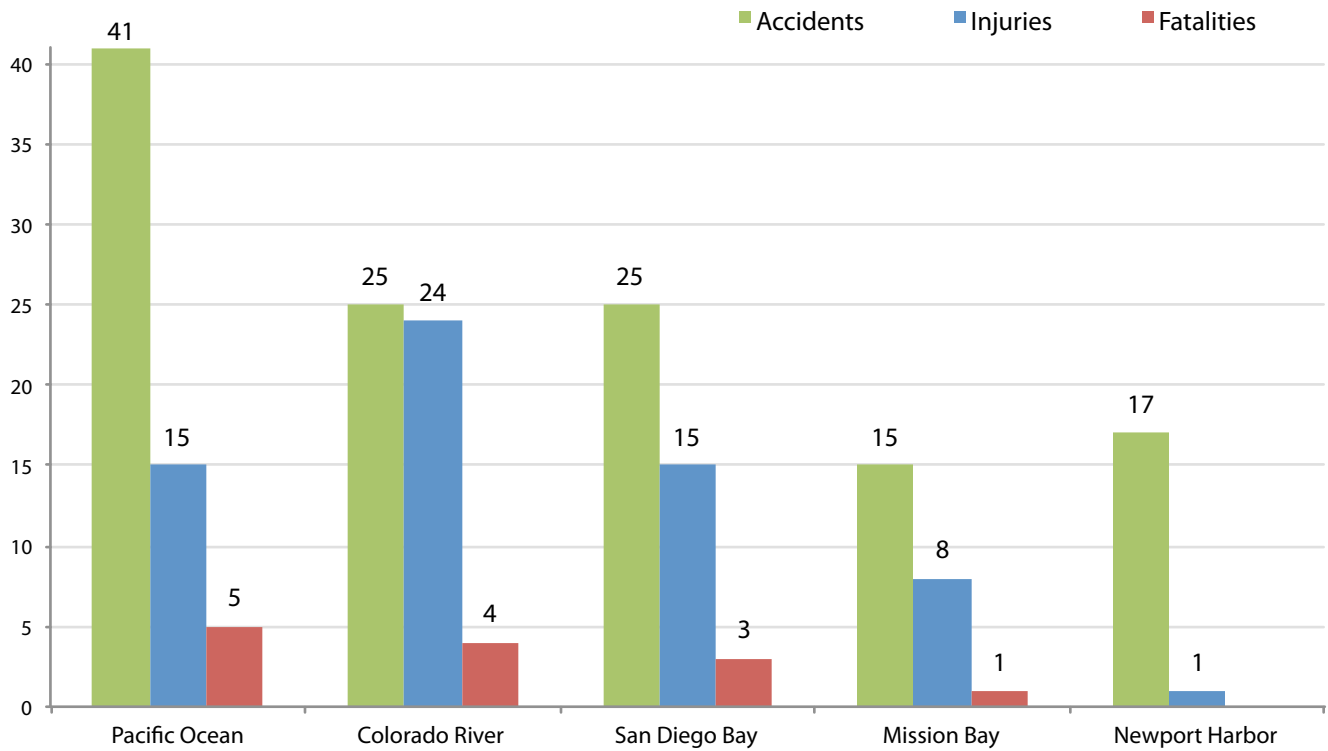
County Number	County
10	Fresno
13	Imperial
14	Inyo
15	Kern
16	Kings
19	Los Angeles
20	Madera
27	Monterey
30	Orange
33	Riverside
35	San Benito
36	San Bernardino
37	San Diego
40	San Luis Obispo
42	Santa Barbara
54	Tulare
56	Ventura

Location	2010			2011		
	Accidents	Injuries	Fatalities	Accidents	Injuries	Fatalities
Southern Coast	190	36	8	133	53	10
Southern River	9	4	4	10	13	6
Southern Lake	51	33	8	68	56	7
Colorado River	31	28	3	25	24	4
<b>Totals</b>	<b>281</b>	<b>101</b>	<b>23</b>	<b>236</b>	<b>146</b>	<b>27</b>



# SOUTHERN CALIFORNIA

## 2011 Top Southern California Boating Accident Areas



# Colorado River

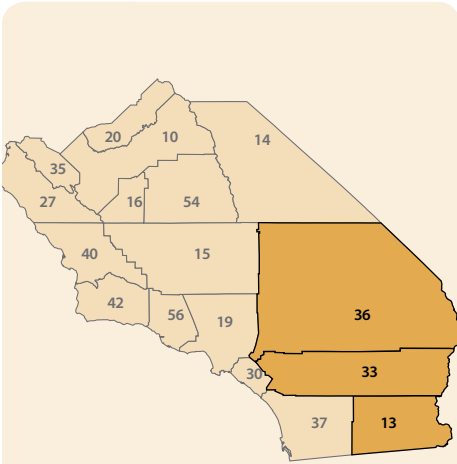
## Summary Statistics

The Colorado River forms the border between California and Arizona. San Bernardino, Riverside and Imperial Counties all share a piece of the river.

Accidents on the Colorado River accounted for 5% of all accidents in California, 8% of injuries, and 7% of fatalities.

In 2011, 25 accidents occurred on the Colorado River. These accidents resulted in 24 injuries and 4 fatalities.

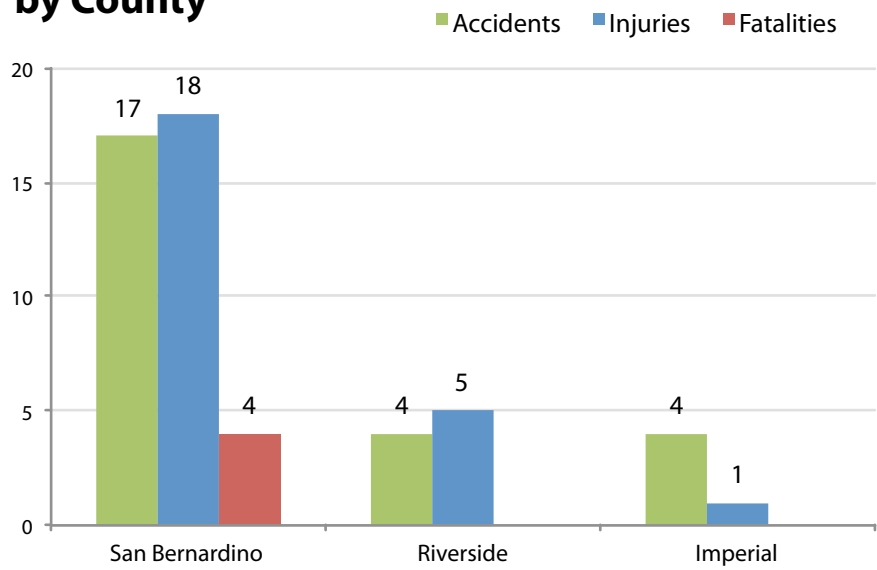
These accidents represented 11% of all accidents in Southern California, 16% of injuries, and 15% of fatalities.



Includes accident statistics for the following counties:

County Number	County
13	Imperial
33	Riverside
36	San Bernardino

## 2011 Colorado River Boating Accidents by County



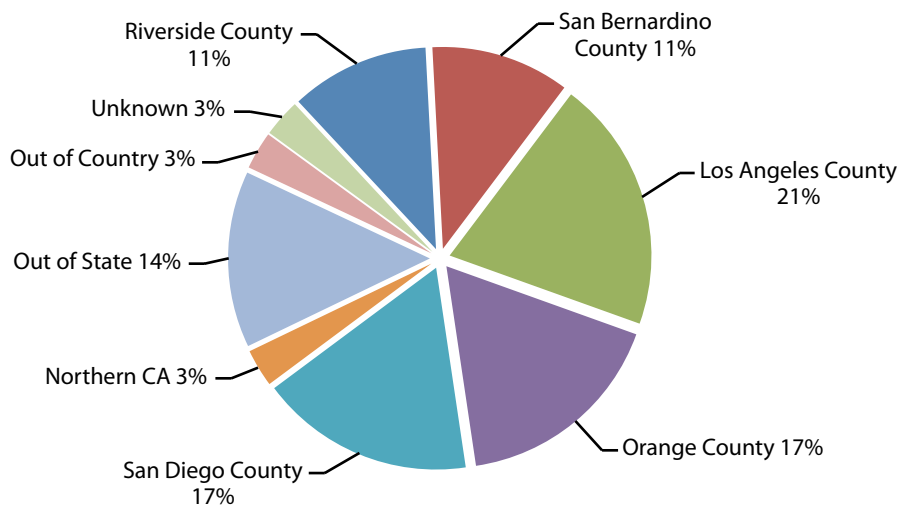
Colorado River County	2007			2008			2009			2010			2011			5-Year Total		
	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fatalities
San Bernardino	33	44	2	29	36	0	23	23	2	23	20	2	17	18	4	125	141	10
Riverside	16	12	1	6	6	1	4	3	0	4	5	0	4	5	0	34	31	2
Imperial	0	0	0	1	2	0	3	4	1	4	3	1	4	1	0	12	10	2
<b>Total Colorado River Combined</b>	<b>49</b>	<b>56</b>	<b>3</b>	<b>36</b>	<b>44</b>	<b>1</b>	<b>30</b>	<b>30</b>	<b>3</b>	<b>31</b>	<b>28</b>	<b>3</b>	<b>25</b>	<b>24</b>	<b>4</b>	<b>171</b>	<b>182</b>	<b>14</b>



## Noteworthy Accident Statistics

Colorado River	Colorado River	Southern California	California
<b>Percent of Accidents Involving...</b>			
Collision with Other Vessel	32%	32%	29%
Towing Sports	12%	7%	14%
Propeller Strikes	12%	3%	2%
Excessive Speed	40%	19%	21%
Open Motorboats	64%	38%	55%
Personal Watercraft	24%	24%	17%
<b>Percent of Operators that are...</b>			
40 Years Old and Under	55%	46%	47%
<b>Percent of Accidents Occurring on...</b>			
Weekends	80%	47%	57%
Holiday Weekends	40%	12%	14%

### Residence of Operator/Owner Involved in Accidents on the Colorado River



### Distance Traveled

(Residence to Accident Location)

Type of Education	Number of Operators
Under 20 miles	6%
20-100 miles	6%
101-200 miles	29%
201-300 miles	46%
Over 300 miles	11%
Unknown	3%

*Only 6% of boaters involved in accidents were from local areas along the river*

# Los Angeles County

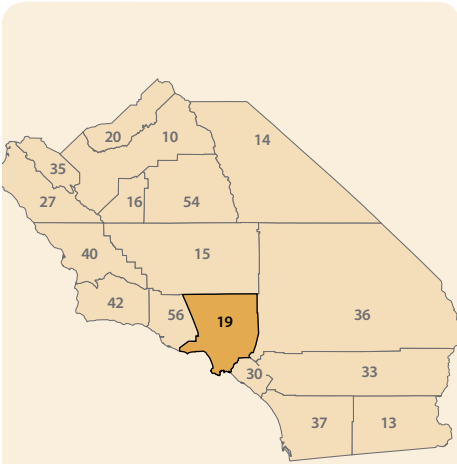
## Summary Statistics

As of December 31, 2011, there were 106,307 vessels registered in Los Angeles County—more than any other county—12% of the statewide total.

Thirty-two accidents occurred in Los Angeles County, resulting in 20 injuries, and 7 fatalities.

These accidents represented 14% of all accidents in Southern California, 14% of injuries, and 26% of fatalities.

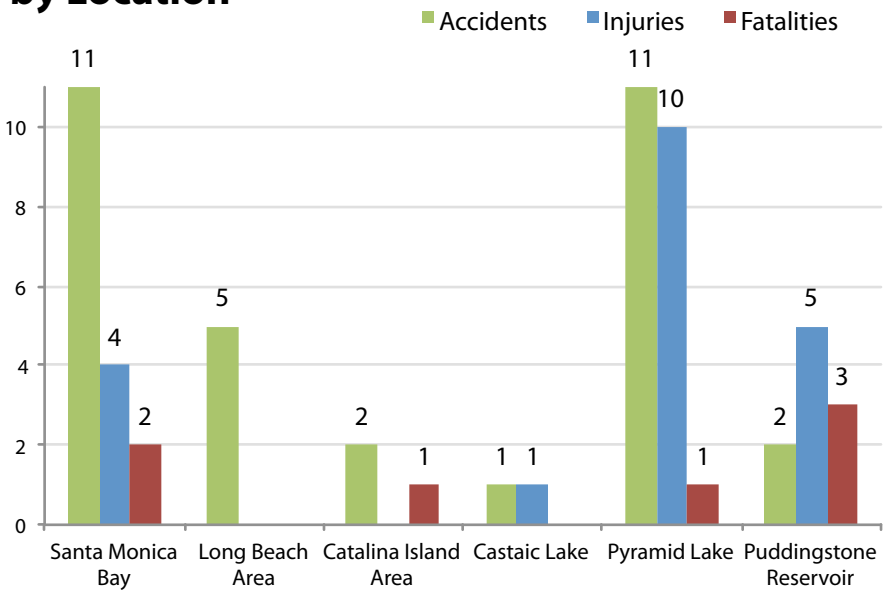
Accidents in Los Angeles County accounted for 6% of accidents in California, 6% of injuries, and 13% of fatalities.



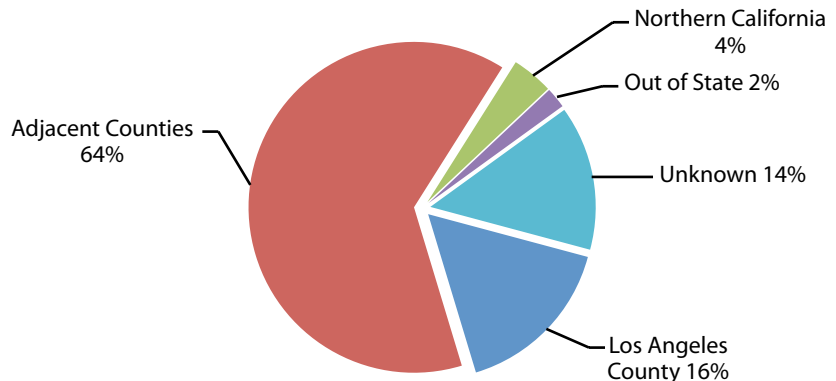
Includes accident statistics for the following county:

County Number	County
19	Los Angeles

## 2011 Los Angeles County Boating Accidents by Location



## Residence of Operators/Owners Involved in Accidents in Los Angeles County





## Noteworthy Accident Statistics

Los Angeles Coast	Los Angeles Coast	Southern California	California
<b>Percent of Accidents Involving</b>			
Collisions with Other Vessels	56%	32%	29%
Collisions with Fixed Objects	11%	3%	3%
Falls Overboard	17%	5%	6%
Operator Inattention	56%	30%	37%
Cabin Motorboats	44%	21%	14%
Auxiliary Sailboats	39%	21%	13%
<b>Percent of Operators that are...</b>			
Over 40 Years Old	83%	54%	53%
<b>Percent of Accidents Occurring on..</b>			
Weekends	67%	47%	57%

Pyramid Lake	Pyramid Lake	Southern California	California
<b>Percent of Accidents Involving</b>			
Collisions with Other Vessels	45%	32%	29%
Capsizings	18%	7%	11%
Towing Sports	18%	7%	14%
Operator Inexperience	55%	19%	20%
Operator Inattention	55%	30%	37%
Open Motorboats	91%	38%	55%
Personal Watercraft	45%	24%	17%
<b>Percent of Operators that are...</b>			
Operating Borrowed Vessels	41%	22%	21%
Under 18 Years Old	14%	4%	4%
40 Years Old and Under	57%	46%	47%

# Orange County

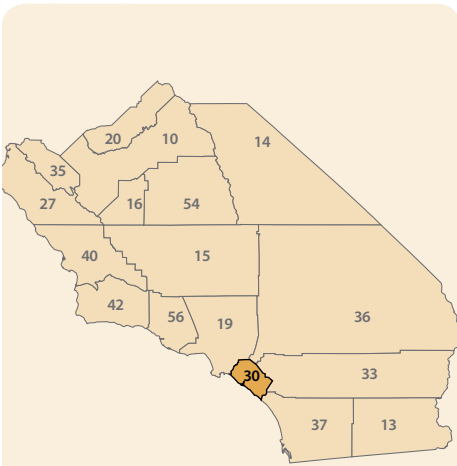
## Summary Statistics

As of December 2011, there were 61,270 vessels registered in Orange County, 7% of the statewide total.

Forty-six accidents occurred in Orange County, resulting in 19 injuries and 3 fatalities.

These accidents represented 19% of all accidents in Southern California, 13% of injuries, and 11% of fatalities.

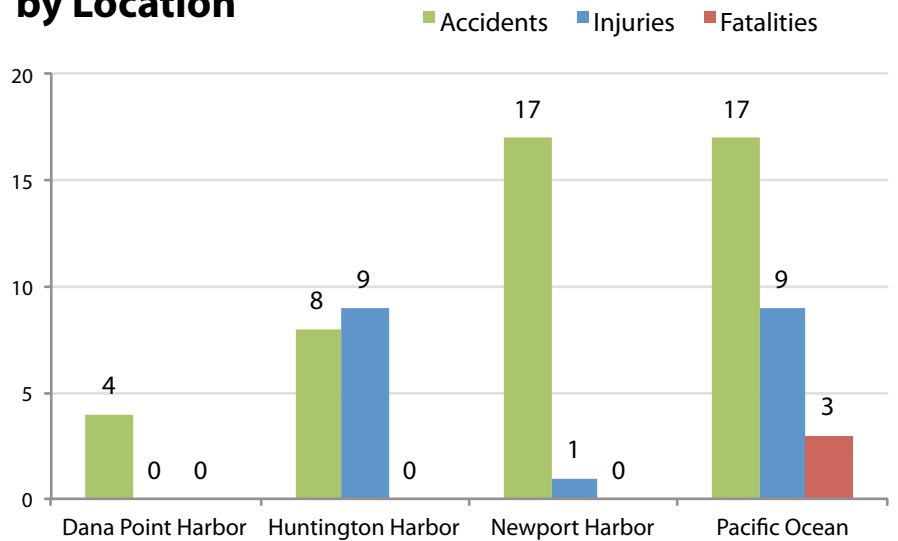
Accidents in Orange County accounted for 9% of accidents in California, 6% of injuries, and 6% of fatalities.



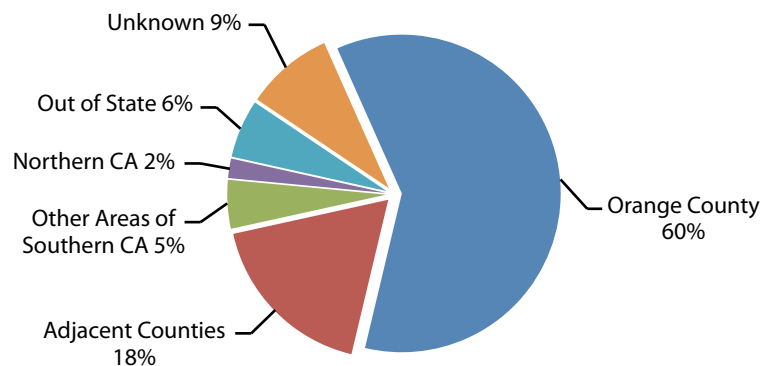
Includes accident statistics for the following county:

County Number	County
30	Orange

## 2011 Orange County Boating Accidents by Location



## Residence of Operators/Owners Involved in Accidents in Orange County





## Noteworthy Accident Statistics

<b>Orange County Coast</b>	<b>Orange County</b>	<b>Southern California</b>	<b>California</b>
<b>Percent of Accidents Involving...</b>			
Groundings	47%	9%	13%
Falls Overboard	12%	5%	6%
Fires	12%	4%	5%
Cabin Motorboats	41%	21%	14%
Auxiliary Sailboats	24%	21%	13%
<b>Percent of Vessels that are...</b>			
Rented	19%	7%	8%

<b>Newport Bay</b>	<b>Newport Bay</b>	<b>Southern California</b>	<b>California</b>
<b>Percent of Accidents Involving</b>			
Collisions with Other Vessels	76%	32%	29%
Cabin Motorboats	53%	21%	14%
Auxiliary Sailboats	41%	21%	13%
<b>Percent of Operators that are...</b>			
Over 40 Years Old	92%	54%	53%



# San Diego County

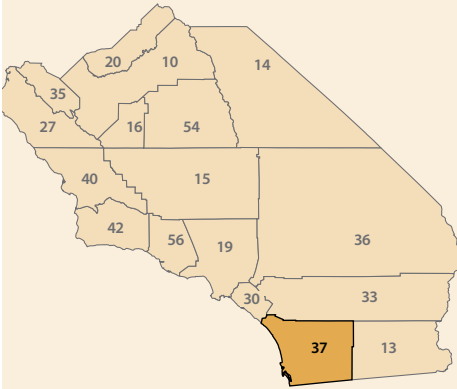
## Summary Statistics

As of December 31, 2011, there were 61,598 vessels registered in San Diego County, 7% of the statewide total.

Fifty-three accidents occurred in San Diego County, resulting in 30 injuries and 4 fatalities.

Accidents in San Diego County represented 22% of accidents in Southern California, 21% of injuries, and 15% of fatalities.

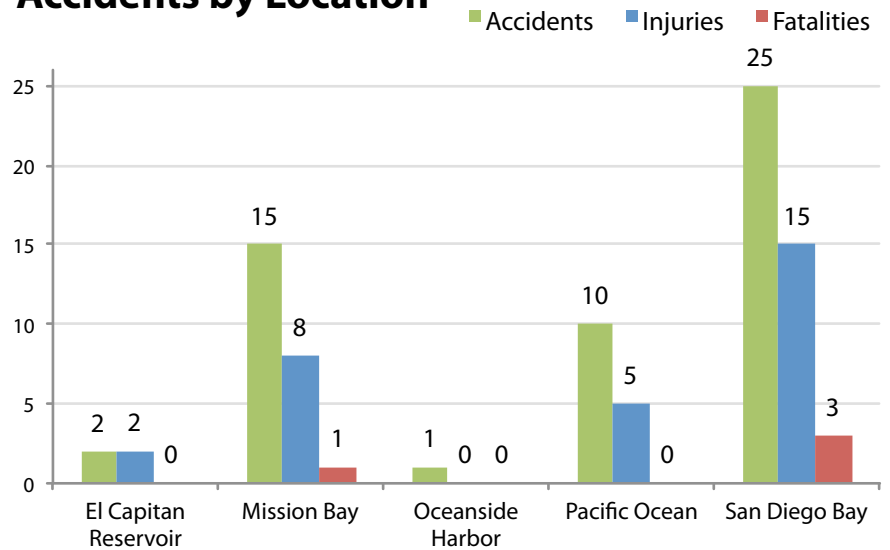
These accidents represented 10% of all accidents in California, 10% of injuries, and 7% of fatalities.



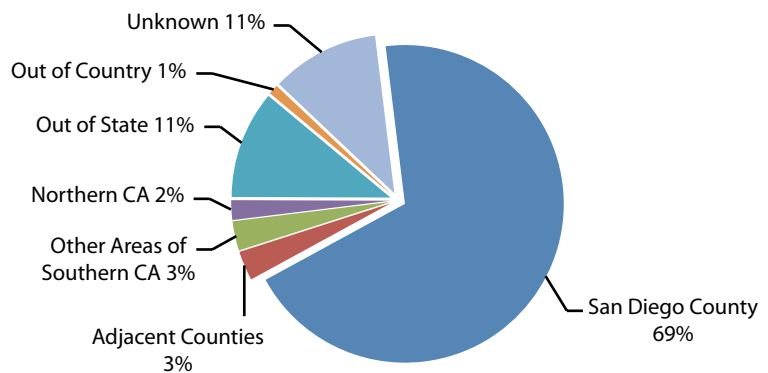
Includes accident statistics for the following county:

County Number	County
37	San Diego

## 2011 San Diego County Boating Accidents by Location



## Residence of Operators/Owners Involved in Accidents in San Diego County





## Noteworthy Accident Statistics

<b>Mission Bay</b>	<b>Mission Bay</b>	<b>Southern California</b>	<b>California</b>
<b>Percent of Accidents Involving...</b>			
Collisions with Other Vessels	40%	32%	29%
Collisions with Fixed Objects	13%	3%	3%
Propeller Strikes	13%	3%	2%
Towing Sports	20%	7%	14%
Excessive Speed	53%	19%	21%
Personal Watercraft	67%	24%	17%
<b>Percent of Vessels that are...</b>			
Rented	19%	7%	8%
<b>Percent of Operators that are...</b>			
Operating Borrowed Vessel	43%	7%	8%
Under 18 Years Old	12%	4%	4%
40 Years Old and Under	82%	46%	47%
<b>Percent of Accidents Occurring on..</b>			
Holiday Weekends	27%	12%	14%

<b>San Diego Bay</b>	<b>San Diego Bay</b>	<b>Southern California</b>	<b>California</b>
<b>Percent of Accidents Involving</b>			
Collisions with Other Vessels	44%	32%	29%
Falls Overboard	20%	5%	6%
Operator Inexperience	28%	19%	20%
Excessive Speed	28%	19%	21%
Cabin Motorboat	36%	21%	14%
Auxiliary Sailboat	36%	21%	13%
<b>Percent of Operators that are...</b>			
Over 40 Years Old	63%	54%	53%

# SOUTHERN CALIFORNIA



	Calif	So. Calif	Colorado River	L.A. County	L.A. Coast	Pyramid Lake	Orange County	Newport Bay	O.C. Coast	San Diego County	Mission Bay	San Diego Bay
<b>Types – Percent of Accidents Involving...</b>												
Collisions with Other Vessels	29%	32%	32%	50%	56%	45%	39%	76%	24%	36%	40%	44%
Collisions with Fixed Objects	3%	3%	0%	6%	11%	0%	2%	6%	0%	8%	13%	8%
Collisions with Submerged Objects	3%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Capsizings	11%	7%	4%	9%	6%	18%	7%	0%	12%	8%	7%	8%
Fall in Boat	3%	3%	8%	0%	0%	0%	2%	0%	6%	9%	7%	8%
Flooding/Swamping	18%	10%	8%	13%	6%	0%	17%	0%	12%	6%	0%	8%
Groundings	13%	9%	12%	9%	11%	9%	20%	6%	47%	6%	0%	4%
Falls Overboard	6%	5%	12%	12%	17%	9%	4%	0%	12%	13%	7%	20%
Fires (All Types)	5%	4%	0%	3%	0%	0%	15%	6%	12%	6%	0%	8%
Propeller Strikes	2%	3%	12%	3%	0%	9%	0%	0%	0%	6%	13%	0%
Towing Sport Accidents	14%	7%	12%	9%	0%	18%	0%	0%	0%	8%	20%	0%
<b>Causes – Percent of Accidents Involving...</b>												
Inexperience	20%	19%	12%	19%	6%	55%	9%	6%	18%	32%	47%	28%
Inattention	37%	30%	36%	53%	56%	55%	26%	35%	29%	34%	53%	28%
Excessive Speed	21%	19%	40%	9%	17%	18%	9%	18%	6%	30%	53%	28%
Machinery/Equipment Failure	13%	13%	12%	9%	11%	9%	28%	0%	18%	15%	0%	12%
Hazardous Weather/ Water	15%	10%	8%	9%	17%	0%	8%	6%	18%	14%	7%	12%
<b>Types of Vessels – Percent of Accidents Involving...</b>												
Open Motorboats	55%	38%	64%	53%	28%	91%	33%	24%	24%	34%	13%	44%
Cabin Motorboats	14%	21%	4%	25%	44%	0%	44%	53%	41%	23%	7%	36%
Personal Watercraft	17%	24%	24%	25%	6%	45%	7%	0%	18%	25%	67%	4%
Auxiliary Sailboats	13%	21%	0%	22%	39%	0%	29%	41%	24%	25%	7%	36%
<b>Ownership – Percent of Vessels...</b>												
Operated by Owner	47%	41%	51%	47%	39%	53%	35%	31%	43%	32%	26%	29%
Borrowed	21%	22%	26%	31%	25%	41%	15%	6%	29%	20%	43%	27%
Rented	8%	7%	6%	4%	7%	0%	8%	3%	19%	6%	4%	7%
Unknown or No Operator	24%	30%	17%	18%	29%	6%	42%	59%	10%	42%	26%	37%
<b>Operator Age – Percent of Operators Involved in Accidents (does not include unknowns)</b>												
Under 18 Years Old	4%	4%	0%	7%	0%	14%	3%	0%	5%	8%	12%	6%
40 Years Old and Under	47%	46%	55%	40%	17%	57%	30%	8%	42%	72%	82%	37%
Over 40 Years Old	53%	54%	45%	60%	83%	43%	70%	92%	58%	28%	18%	63%
<b>Other Factors – Percent of Accidents Occurring on...</b>												
Weekends	57%	47%	80%	45%	67%	45%	48%	41%	47%	38%	47%	24%
Holiday Weekends	14%	12%	40%	0%	0%	0%	11%	12%	6%	9%	27%	4%

