

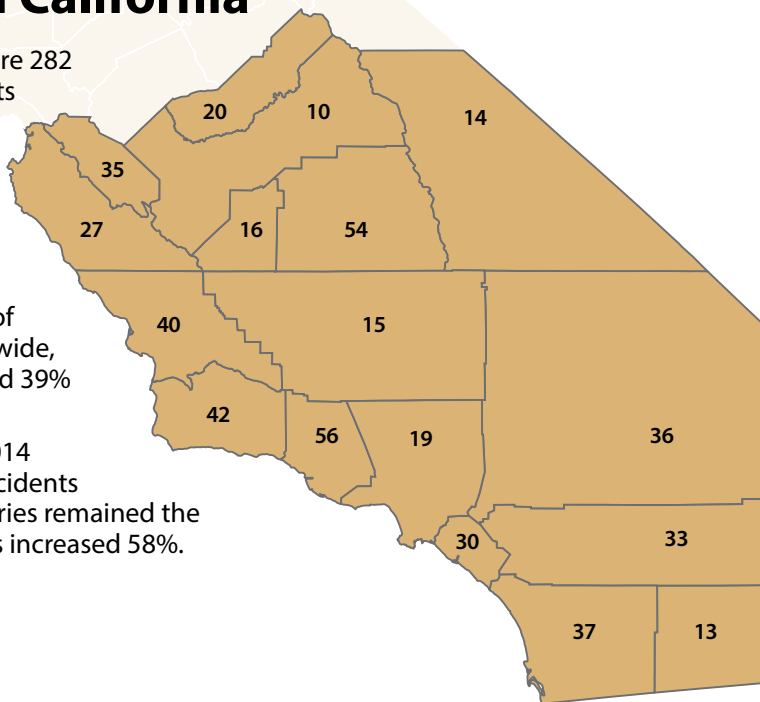


## 2015 California Recreational Boating Accident General Statistics for Southern California

In 2015, there were 282 boating accidents in Southern California that resulted in 121 injuries and 19 fatalities.

These accidents represented 56% of all accidents statewide, 52% of injuries, and 39% of fatalities.

Compared with 2014 accident totals, accidents increased 1%, injuries remained the same and fatalities increased 58%.



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

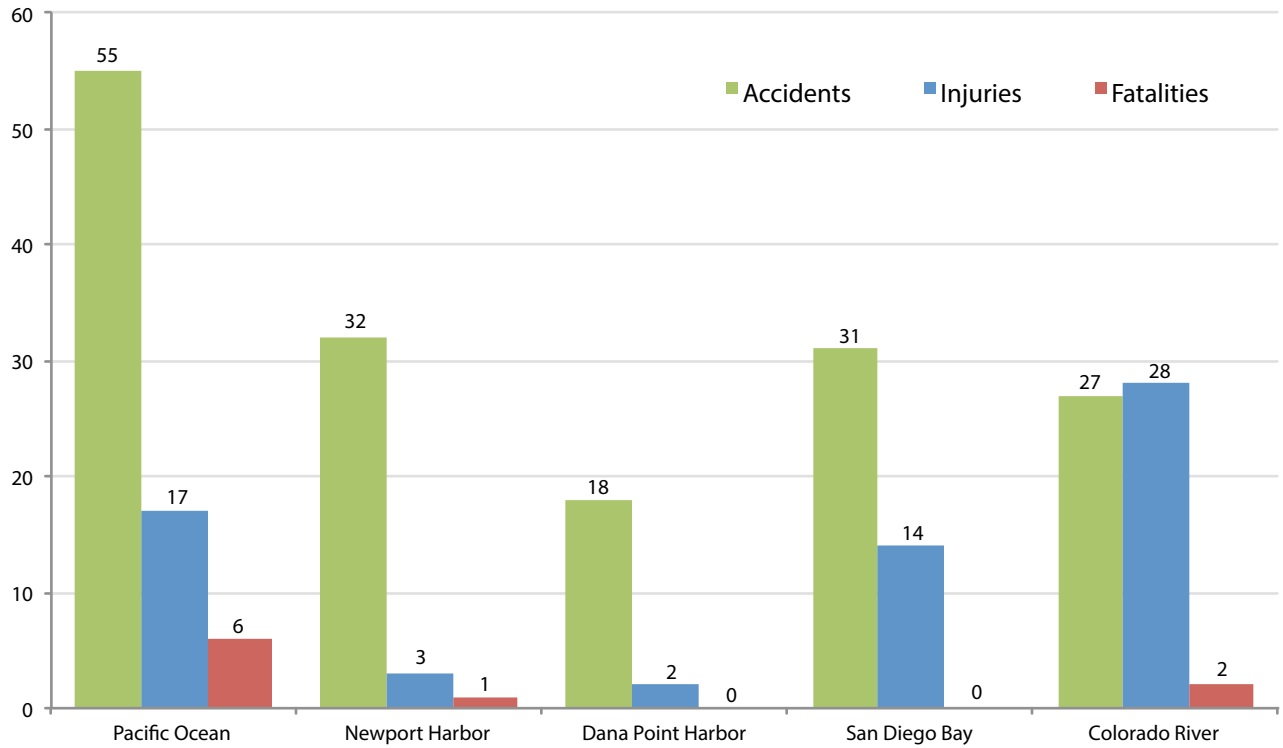
## Southern California Boating Accidents by Location 2014-2015

Waterway Categories	2014			2015		
	Accidents	Injuries	Fatalities	Accidents	Injuries	Fatalities
Southern Coast	219	72	5	195	51	10
Southern Lake	47	30	7	58	36	7
Southern River	2	2	0	2	6	0
Colorado River	18	17	0	27	28	2
<b>Totals</b>	<b>286</b>	<b>121</b>	<b>12</b>	<b>282</b>	<b>121</b>	<b>19</b>



# SOUTHERN CALIFORNIA

## 2015 Top Southern California Boating Accident Areas



# Colorado River

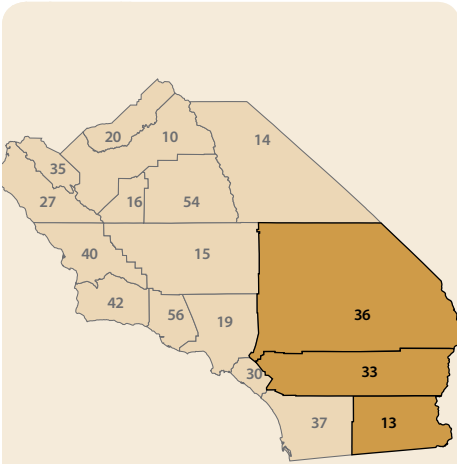
## Colorado River

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

In 2015, 27 accidents occurred on the Colorado River. These accidents resulted in 28 injuries and 2 fatalities.

These accidents represented 10% of all accidents in Southern California, 23% of injuries, and 11% of fatalities.

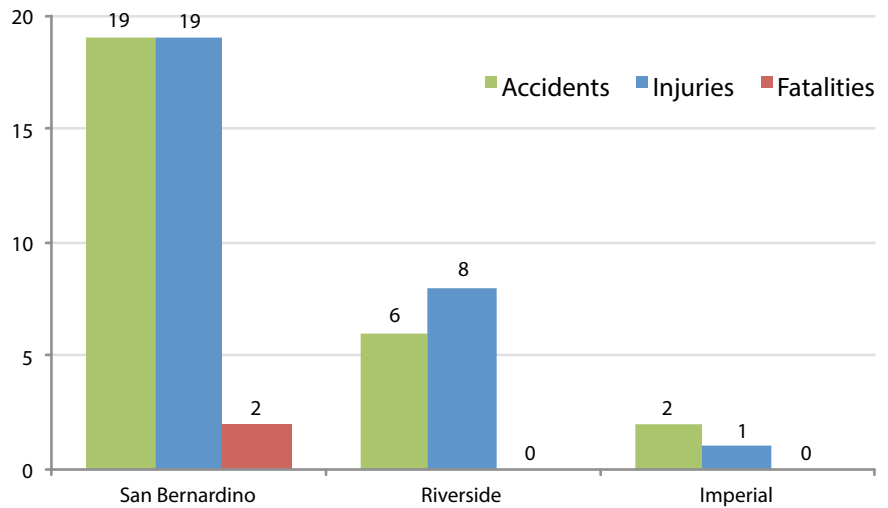
Accidents on the Colorado River accounted for 5% of all accidents in California, 12% of injuries, and 4% of fatalities.



Includes accident statistics for the following counties:

County Number	County
13	Imperial
33	Riverside
36	San Bernardino

### 2015 Colorado River Boating Accidents by County



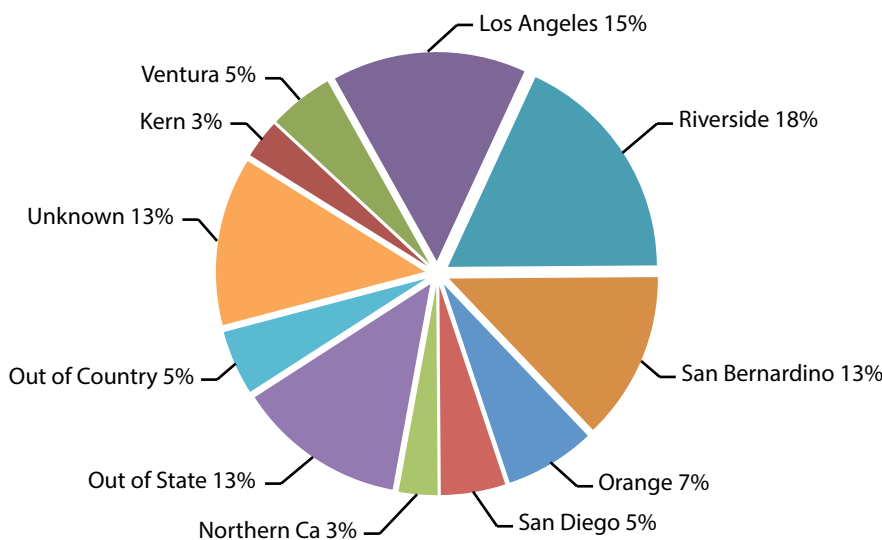
Colorado River County	2011			2012			2013			2014			2015			5-Year Total		
	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fatalities
San Bernardino	17	18	4	19	13	7	14	6	0	12	12	0	19	19	2	81	68	13
Riverside	4	5	0	1	1	0	2	1	0	3	4	0	6	8	0	16	19	0
Imperial	4	1	0	0	0	0	0	0	0	3	1	0	2	1	0	9	3	0
<b>Total Colorado River Combined</b>	<b>25</b>	<b>24</b>	<b>4</b>	<b>20</b>	<b>14</b>	<b>7</b>	<b>16</b>	<b>7</b>	<b>0</b>	<b>18</b>	<b>17</b>	<b>0</b>	<b>27</b>	<b>28</b>	<b>2</b>	<b>106</b>	<b>90</b>	<b>13</b>



## Noteworthy Accident Statistics

Colorado River	Colorado River	Southern California	California
<b>Percent of Accidents Involving...</b>	<b>Colorado River</b>	<b>Southern California</b>	<b>California</b>
Collision with Vessel	41%	41%	34%
Operator Inattention	52%	29%	36%
Excessive Speed	41%	20%	20%
Open Motorboats	67%	39%	48%
Personal Watercraft	48%	20%	18%
<b>Percent of Operators that are...</b>			
The Owner of the Vessel	49%	36%	39%
Operating Borrowed Vessels	38%	21%	20%
<b>Percent of Accidents Occurring on...</b>			
Holiday Weekends	41%	15%	14%

### 2015 Residence of Operator/Owner Involved in Accidents on the Colorado River



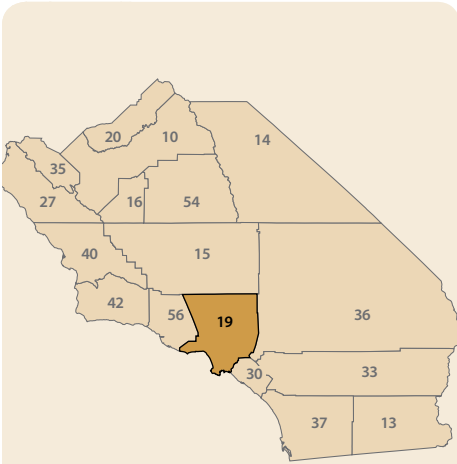
### Distance Traveled

(Residence to Accident Location)

Distance Traveled	Percent of Operators
Under 20 miles	5%
20-100 miles	3%
101-200 miles	18%
201-300 miles	38%
Over 300 miles	23%
Unknown	13%

*Only 5% involved in accidents were from local areas along the river.*

# Los Angeles County



Includes accident statistics for the following county:

County Number	County
19	Los Angeles

## Los Angeles County

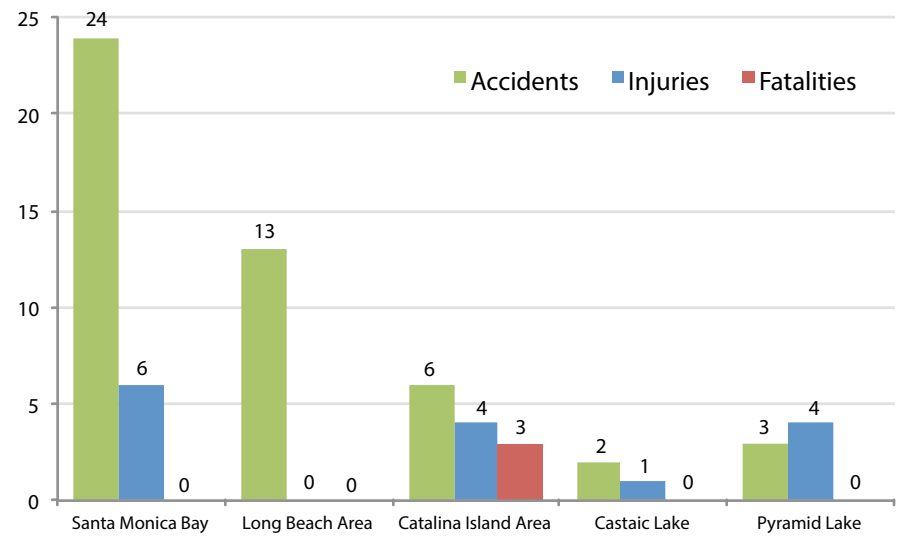
As of December 31, 2015, there were 91,529 vessels registered in Los Angeles County—more than any other county—12% of the statewide total.

Forty-eight accidents occurred in Los Angeles County, resulting in 15 injuries, and 3 fatalities.

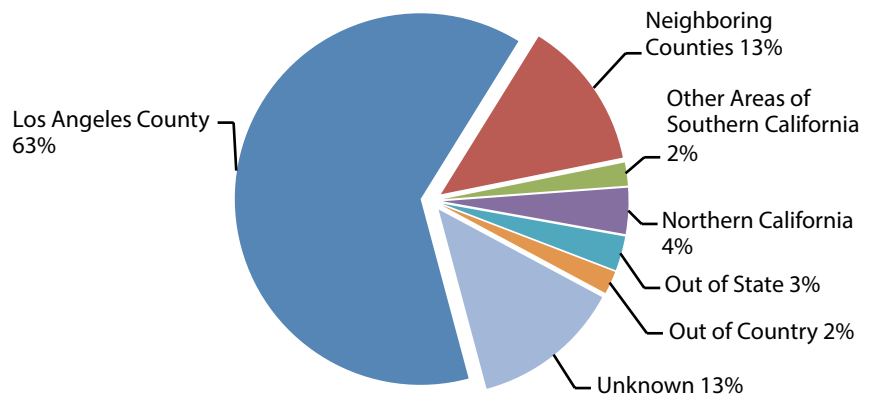
These accidents represented 17% of all accidents in Southern California, 12% of injuries, and 16% of fatalities.

Accidents in Los Angeles County accounted for 10% of accidents in California, 6% of injuries, and 6% of fatalities.

## 2015 Los Angeles County Boating Accidents by Location



## 2015 Residence of Owners/Operators 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>			
Flooding/Swamping	23%	16%	19%
Grounding	23%	11%	12%
Operator Inattention	47%	29%	36%
Operator Inexperience	35%	30%	24%
Cabin Motorboats	30%	29%	20%
Auxiliary Sailboats	40%	19%	13%
<b>Percent of Operators that are...</b>			
Over 40 Years Old	68%	54%	53%

# Orange County

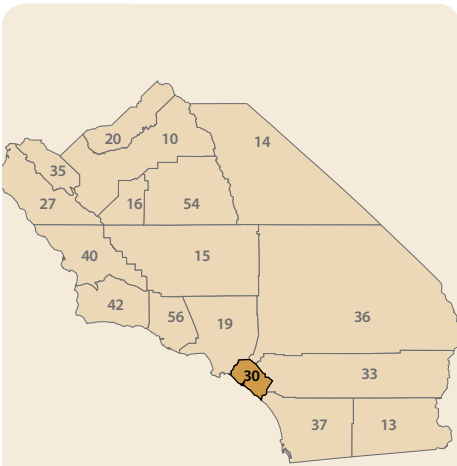
## Orange County

As of December 31, 2015, there were 53,756 vessels registered in Orange County, 7% of the statewide total.

Seventy-five accidents occurred in Orange County, resulting in 8 injuries and 3 fatalities.

These accidents represented 27% of all accidents in Southern California, 7% of injuries, and 16% of fatalities.

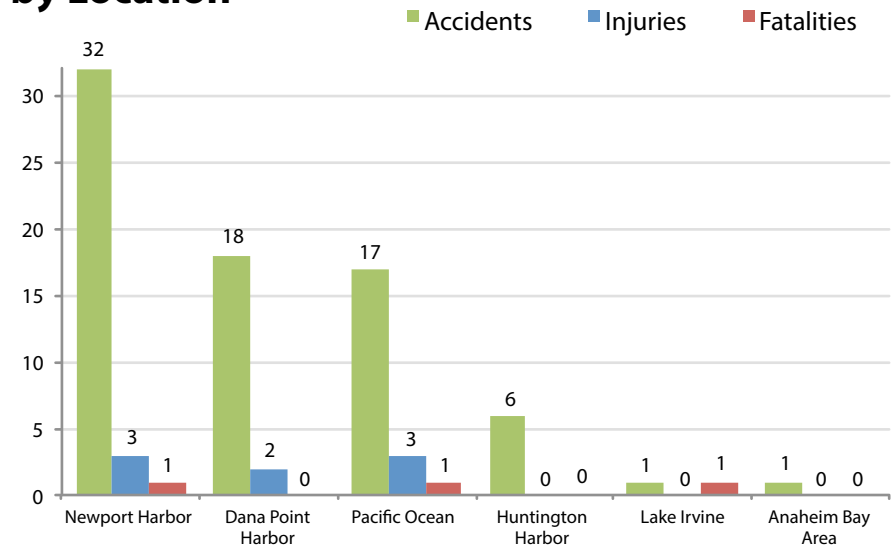
Accidents in Orange County accounted for 15% of accidents in California, 4% of injuries, and 6% of fatalities.



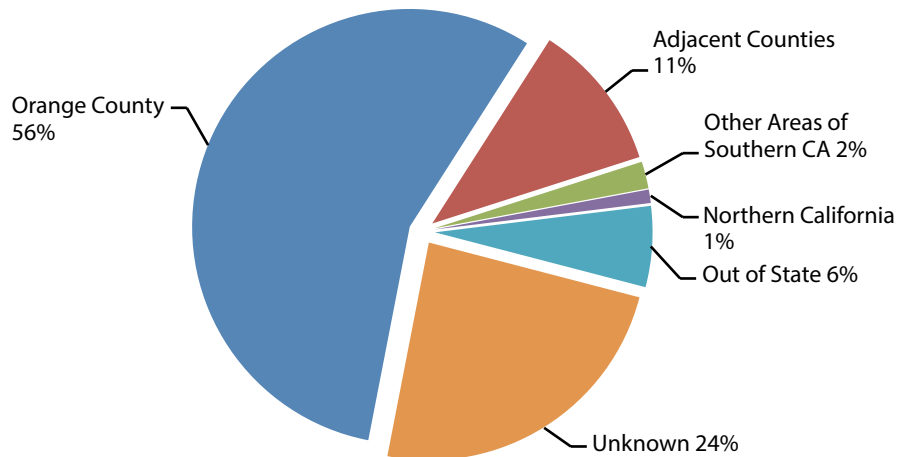
Includes accident statistics for the following county:

County Number	County
30	Orange

### 2015 Orange County Boating Accidents by Location



### 2015 Residence of Owners/Operators Involved in Accidents in Orange County





## Noteworthy Accident Statistics

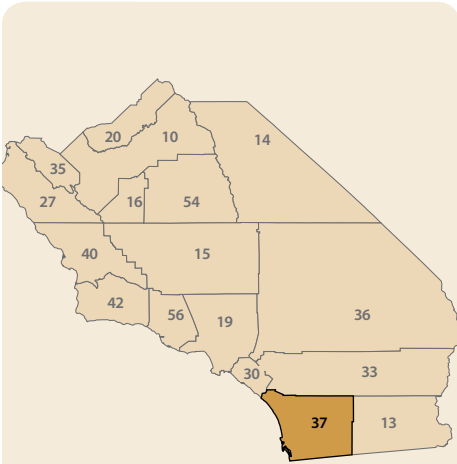
<b>Newport Harbor</b>	<b>Newport Harbor</b>	<b>Southern California</b>	<b>California</b>
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	50%	41%	34%
Flooding/Swamping	28%	16%	19%
Open Motorboats	44%	39%	48%
Cabin Motorboats	56%	29%	20%
<b>Percent of Operators that are...</b>			
Over 40 Years Old	70%	54%	53%

<b>Dana Point Harbor</b>	<b>Dana Point Harbor</b>	<b>Southern California</b>	<b>California</b>
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	67%	41%	34%
Machinery/Equipment Failure	22%	13%	13%
Personal Watercraft	35%	20%	18%
<b>Percent of Operators that are...</b>			
Over 40 Years Old	71%	54%	53%

<b>Orange County Coast</b>	<b>Orange County Coast</b>	<b>Southern California</b>	<b>California</b>
<b>Percent of Accidents Involving...</b>			
Capsizings	29%	7%	12%
Grounding	47%	11%	12%
Falls Overboard	24%	7%	6%
Operator Inexperience	53%	30%	24%
Cabin Motorboats	83%	29%	20%
Auxiliary Sailboats	33%	19%	13%
<b>Percent of Operators that are...</b>			
Operating Borrowed Vessels	32%	21%	20%
Operating Rented Vessels	26%	12%	11%



# San Diego County



Includes accident statistics for the following county:

County Number	County
37	San Diego

## San Diego County

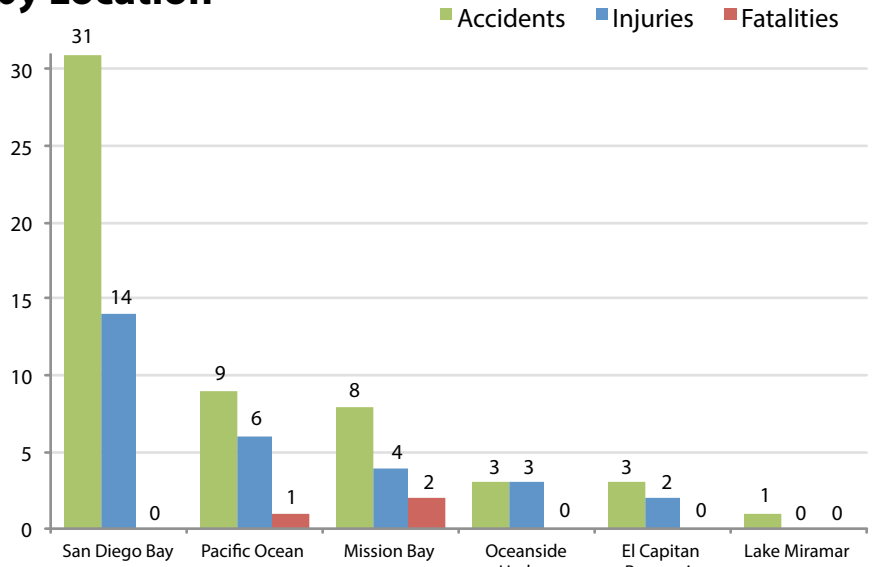
As of December 31, 2015, there were 56,961 vessels registered in San Diego County, 7% of the statewide total.

Fifty-five accidents occurred in San Diego County, resulting in 29 injuries and 3 fatalities.

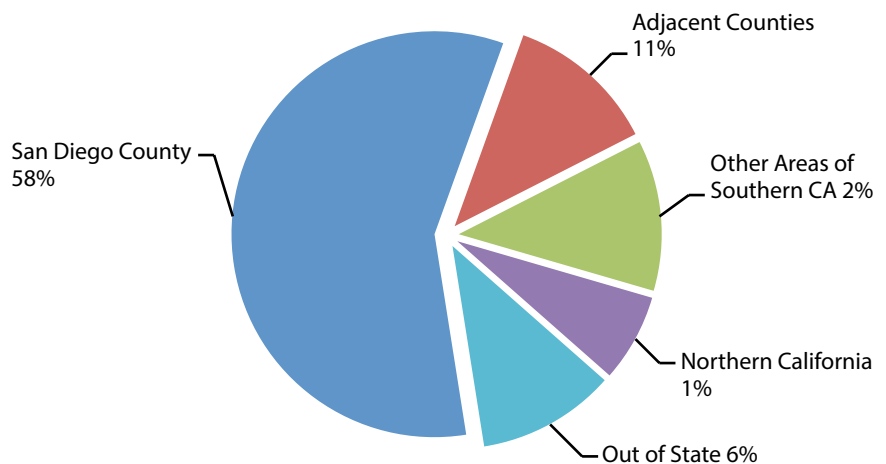
Accidents in San Diego County represented 19% of accidents in Southern California, 24% of injuries, and 16% of fatalities.

These accidents represented 11% of all accidents in California, 13% of injuries, and 6% of fatalities.

### 2015 San Diego County Boating Accidents by Location



### 2015 Residence of Owners/Operators 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>			
Capsizing	38%	7%	12%
Falls Overboard	25%	7%	6%
Excessive Speed	38%	20%	20%
Personal Watercraft	50%	20%	18%
<b>Percent of Operators that are...</b>			
The Owner of the Vessel	50%	36%	39%
Over 40 Years Old	62%	54%	53%

<b>San Diego Bay</b>	<b>San Diego Bay</b>	<b>Southern California</b>	<b>California</b>
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	68%	41%	34%
Operator Inexperience	39%	30%	24%
Excessive Speed	35%	20%	20%
Cabin Motorboats	45%	29%	20%
Auxiliary Sailboats	29%	19%	13%
<b>Percent of Operators that are...</b>			
Operating Rented Vessels	19%	12%	11%
Over 40 Years Old	66%	54%	53%

# SOUTHERN CALIFORNIA



	Calif.	So. Calif.	Colorado River	L. A. County	L. A. Coast	Orange County	Newport Bay	Dana Point Harbor	O. C. Coast	San Diego County	Mission Bay	San Diego Bay
<b>Types-Percent of Accidents Involving...</b>												
Collisions with Other Vessels	34%	41%	41%	38%	37%	40%	50%	67%	12%	47%	25%	68%
Capsizings	12%	7%	0%	4%	5%	12%	6%	6%	29%	9%	38%	0%
Flooding/Swamping	19%	16%	11%	21%	23%	24%	28%	2%	6%	9%	0%	0%
Grounding	12%	11%	4%	21%	23%	11%	0%	0%	47%	5%	0%	3%
Falls Overboard	6%	7%	7%	0%	2%	9%	3%	0%	24%	7%	25%	3%
Fires (all types)	8%	10%	11%	6%	7%	13%	12%	11%	12%	6%	0%	6%
Towing Sport Accidents	9%	5%	4%	4%	0%	3%	0%	0%	12%	4%	13%	0%
<b>Causes-Percent of Accidents Involving...</b>												
Operator Inexperience	24%	30%	26%	35%	35%	29%	22%	33%	53%	31%	24%	39%
Operator Inattention	36%	29%	52%	50%	47%	25%	25%	33%	29%	35%	25%	32%
Excessive Speed	20%	20%	41%	15%	12%	8%	3%	6%	24%	33%	38%	35%
Machinery/Equipment Failure	13%	13%	0%	25%	28%	16%	9%	22%	18%	16%	13%	35%
Hazardous Weather/ Water	11%	9%	4%	10%	9%	7%	3%	6%	12%	11%	0%	13%
<b>Types of Vessels-Percent of Accidents Involving...</b>												
Open Motorboats	48%	39%	67%	38%	33%	33%	44%	35%	6%	33%	0%	39%
Cabin Motorboats	20%	29%	0%	27%	30%	52%	56%	18%	83%	27%	0%	45%
Personal Watercraft	18%	20%	48%	10%	7%	9%	0%	35%	6%	18%	50%	10%
Auxiliary Sailboats	13%	19%	0%	35%	40%	15%	9%	12%	33%	22%	0%	29%
<b>Ownership-Percent of Vessels...</b>												
Operated by Owner	39%	36%	49%	45%	44%	28%	23%	31%	42%	41%	50%	35%
Borrowed	20%	21%	38%	20%	17%	14%	12%	11%	32%	14%	30%	13%
Rented	11%	12%	8%	8%	8%	10%	12%	0%	26%	17%	10%	19%
No Operator or Unknown	31%	31%	5%	26%	31%	48%	53%	59%	0%	28%	10%	33%
<b>Operator Age-Percent of Operators Involved in Accidents (does not include unknowns)</b>												
Under 18 Years Old	4%	7%	12%	4%	5%	4%	0%	7%	5%	0%	0%	0%
40 Years Old and Under	47%	46%	62%	40%	32%	44%	30%	28%	53%	34%	38%	34%
Over 40 Years Old	53%	54%	38%	60%	68%	56%	70%	71%	47%	66%	62%	66%
<b>Other Factors-Percent of Accidents Occurring on...</b>												
Weekends	54%	53%	56%	60%	56%	45%	70%	50%	53%	49%	50%	57%
Holiday Weekends	14%	15%	41%	15%	9%	7%	9%	6%	6%	15%	10%	10%

