



**TEXAS PARKS AND  
WILDLIFE  
DEPARTMENT'S  
RECREATIONAL BOATING  
INCIDENT STATISTICS 2023**

# TEXAS PARKS AND WILDLIFE DEPARTMENT'S ANNUAL REPORT

## RECREATIONAL BOATING INCIDENT STATISTICS 2023

In Texas, there are approximately 1.7 million surface acres of freshwater inland lakes, 4 million surface acres of saltwater, 80,000 miles of rivers and streams. The Texas Water Safety Act, Chapter 31, Parks and Wildlife Code, governs recreational boating activities on all public waters in Texas. Texas Parks and Wildlife Department (TPWD) is the statutorily designated agency responsible for recreational boating safety on public waters in the state. The governing entities of local water bodies are permitted by state statute to incorporate recreational boating safety regulations into their respective water and recreational management plans by means of ordinances or other rules. These ordinances or rules are reviewed by TPWD legal staff for consistency with state law and filed with the Department.

Texas' vast water resources, coupled with an almost year-round boating season, offer diverse recreational opportunities for boaters and water enthusiasts, including but not limited to angling, pleasure boating, recreational and competition water sports, personal watercraft activities, sailing, canoeing, kayaking, rafting, and various other water oriented recreational uses.

Historically, TPWD registers on average 560,000 recreational boats in Texas. Registered vessels include all motorboats, and sailboats over 14 feet in length. In addition to the registered vessels, there are an estimated 359,000 unregistered rafts, sailboards, canoes, kayaks and other similar vessels, and sailboats less than 14 feet in length that utilize Texas' public waterways.

Unfortunately, the activities of vessel operators, combined with congestion, careless operation and substance abuse result in boating related fatalities, injuries, accidents, violations, and property damage. This report represents a summation of those incidents reported to TPWD and is in compliance with state statutes requiring the release of this data.



### Mission

To manage and conserve the natural and cultural resources of Texas and to provide hunting, fishing and outdoor recreation opportunities for the use and enjoyment of present and future generations.

# Annual Recreational Boating Incidents Statistics Report

## 1/1/2023 through 12/31/2023

### INCIDENT STATISTICS

Report Period: 1/1/2023 through 12/31/2023

Previous Report Period: 01/01/2022 through 12/31/2022

#### Incidents

Total number of incidents for report period: **175**

Percentage change from previous report period: **-17.1%**

#### Deaths

Total number of fatal incidents for report period: **28**

Percentage change from previous report period: **-17.6%**

Total number of fatalities for report period: **28**

Percentage change from previous report period: **-26.3%**

Fatality rate\* for report period: **5.0** deaths per 100,000 registered recreational vessels

Rate change from previous report period: **-25.7%**

#### Injuries\*\*

Total number of injury incidents for report period: **76**

Percentage change from previous report period: **-11.6%**

Total number of injured persons for report period: **97**

Percentage change from previous report period: **-15.7%**

Injury rate\* for report period: **17.4** injuries per 100,000 registered recreational vessels

Rate change from previous report period: **-14.5%**

#### Property damage\*\*\*

Total dollar amount property damage for report period: **\$769,868.00**

Percentage change from previous report period: **-72.2%**

#### Loss of vessels

Total number of vessel losses for report period: **27**

Percent change from previous report period: **-28.9%**

#### Registered vessels

Total number of registered vessels for CY 2023: **557,077**

Percentage change from CY 2022: **-1.4%**

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**Notes:**

\* Fatality and Injury rates are calculated as the number of deaths or injuries, respectively, per 100,000 registered recreational vessels. While the U.S. Coast Guard rate calculations that appear in the national statistics are based on the entire RBS program—with motorized and non-motorized vessels—not every state registers the same types of vessels and some states have longer boating seasons than others. In **Texas**, all vessel on public waters must be registered except for canoes, kayaks, punts, rowboats, rubber rafts or other vessels under 14 ft. in length when paddled, poled, oared or windblown. The fatality and injury rates may include deaths and injuries that occurred in **Texas** but were associated with vessels that were registered in another state.

\*\* The reporting threshold for an injury is requirement of medical treatment beyond first aid.

\*\*\* The dollar threshold for reporting property damage in **Texas** is \$2,000.00.

## **DATA TABLES**

**Incident Types (Primary Type) \***

**Incident Causes/Contributing Factors (Primary Cause/Factor) \***

**Incidents by Month \***

**Incidents by Day of Week \***

**Incidents by Time of Day \***

**Incidents by County \***

**Incidents by Waterbody\***

**Incidents by Vessel Type \***

**Incidents by Vessel Length \***

**Vessel Operation at Time of Incident \***

**Vessel Activity at Time of Incident \***

**Operator's Experience with the Vessel (in Hours) \***

**Operator Boating Safety Education \***

**Operator Gender \***

**Operator Age \***

**Fatalities – Cause of Death**

**Fatalities – Life Jacket Use**

**Fatalities – Cause of Death and Life Jacket Use**

**Fatalities – Vessel Type**

**Fatalities – Vessel Type and Life Jacket Use**

**\* Tables present data for “All Incidents,” “Injury Incidents,” and “Fatal Incidents.” The threshold for an “injury” is requirement of medical treatment beyond first aid.**

### Incident Types (Primary Type)

Incident Types	All Incidents	Injury Incidents		Fatal Incidents	
	Number of Vessels Involved	Number of Vessels Involved	Total Persons Injured	Number of Vessels Involved	Total Fatalities
Vessel Collision	46	12	16	3	1
Fixed Object Collision	28	14	19	3	3
Struck by Vessel	20	4	7	1	1
Collision w/ Recreational Boat	19	4	4	0	0
Capsizing	19	3	3	9	9
Struck Submerged Object	13	2	2	0	0
Other	10	5	5	2	2
Person Ejected from a Vessel	9	7	10	2	2
Falls Overboard	8	3	3	4	4
Flooding / Swamping	8	2	2	0	0
Fall in Boat	7	6	7	0	0
Struck by Propeller / Propulsion	6	5	5	1	1
Grounding	6	3	4	0	0
Fire / Explosion (Other)	6	1	1	0	0
Skier Mishap	5	5	6	0	0
Unknown	5	1	1	2	2
Person Leaves a Vessel	4	0	0	2	2
Sinking	4	0	0	0	0
Fire / Explosion (Fuel)	2	1	1	0	0
Not Specified	2	1	1	0	0
Sudden Medical Condition	1	0	0	1	1
<b>Totals</b>	<b>228</b>	<b>79</b>	<b>97</b>	<b>30</b>	<b>28</b>

**Notes:**

---Injury incidents may include incidents involving fatalities. While there will be incidents that are "injury only" and "fatality only," there also could be incidents involving multiple vessels with both injuries and fatalities, as well as incidents involving single vessels that have more than one injured person.

---The totals presented in this table may exceed the total number of incidents shown in other sections and tables in this report. This is because there may be multiple vessels involved in a single incident.

## Incident Causes/Contributing Factors (Primary Cause/Factor)

Incident Causes / Contributing Factors	All Incidents	Injury Incidents		Fatal Incidents	
	Total Incidents	Number of Incidents	Total Injured	Number of Incidents	Total Fatalities
Operator Inattention	27	13	15	1	1
Carless/Reckless Operation	17	7	10	2	2
Not at Fault	15	7	7	1	1
Operator Inexperience	15	7	8	3	3
Unknown	14	3	3	6	6
Weather Conditions	11	2	2	1	1
Wake	10	8	13	1	1
Excessive Speed	9	5	8	1	1
Navigation Rules Violation	7	4	7	1	1
Fault Of Equipment	6	1	1	0	0
Alcohol Use	5	4	8	1	1
Hazardous Waters	5	2	2	0	0
No Proper Lookout	5	1	1	1	1
Sharp Turn	5	2	2	1	1
Fault Of Machinery	3	1	1	0	0
Ignition of Spilled Fuel / Vapor	3	1	1	0	0
Other	3	1	1	2	2
Overloading	3	0	0	3	3
Passenger/Skier Behavior	3	2	2	1	1
Congested Waters	2	2	2	0	0
Off-Throttle Steering	2	0	0	0	0
Standing/Sitting on Gunwale, Bows, or Transom	2	2	2	0	0
Drug Use	1	0	0	1	1
Failure To Vent	1	1	1	0	0
Improper Loading	1	0	0	1	1
<b>Totals</b>	<b>175</b>	<b>76</b>	<b>97</b>	<b>28</b>	<b>28</b>



### Incidents by Month

Month	All Incidents	Injury Incidents		Fatal Incidents	
	Total Incidents	Number of Incidents	Total Persons Injured	Number of Incidents	Total Fatalities
January	3	0	0	1	1
February	5	4	4	0	0
March	10	4	5	3	3
April	20	4	4	3	3
May	19	8	9	3	3
June	28	15	18	4	4
July	39	21	26	5	5
August	27	12	20	7	7
September	15	6	9	1	1
October	5	0	0	0	0
November	2	2	2	0	0
December	2	0	0	1	1

### Incidents by Day of Week

Day of Week	All Incidents	Injury Incidents		Fatal Incidents	
	Total Incidents	Number of Incidents	Total Persons Injured	Number of Incidents	Total Fatalities
Sunday	49	23	34	13	13
Monday	10	4	5	3	3
Tuesday	19	4	5	3	3
Wednesday	6	2	2	0	0
Thursday	9	3	3	2	2
Friday	17	9	11	1	1
Saturday	65	31	37	6	6

### Incidents by Time of Day

Time of Day	All Incidents	Injury Incidents		Fatal Incidents	
	Total Incidents	Number of Incidents	Total Persons Injured	Number of Incidents	Total Fatalities
12:00Am - 01:59Am	3	1	1	2	2
02:00Am - 03:59Am	2	1	3	1	1
04:00Am - 05:59Am	2	1	1	0	0
06:00Am - 07:59Am	3	1	1	0	0
08:00Am - 09:59Am	7	2	2	1	1
10:00Am - 11:59Am	25	10	11	4	4
12:00Pm - 01:59Pm	19	13	18	0	0
02:00Pm - 03:59Pm	35	14	20	7	7
04:00Pm - 05:59Pm	34	20	23	4	4
06:00Pm - 07:59Pm	28	11	15	5	5
08:00Pm - 09:59Pm	12	1	1	4	4
10:00Pm - 11:59Pm	4	0	0	0	0
Time Unknown	1	1	1	0	0

## Incidents by County

County	Total Incidents	Total Injured	Total Fatalities	Damage (dollars)
Angelina	1	1	0	\$0.00
Aransas	3	3	0	\$2,500.00
Baylor	1	1	0	\$2,700.00
Bell	3	1	1	\$12,000.00
Bexar	1	0	0	\$2,500.00
Bosque	1	1	1	\$22,000.00
Brazoria	4	5	0	\$1,700.00
Brown	1	1	0	\$0.00
Burnet	4	1	2	\$2,000.00
Calhoun	3	1	0	\$15,000.00
Cameron	3	2	0	\$22,000.00
Camp	1	0	0	\$3,000.00
Chambers	1	1	0	\$3,000.00
Cherokee	2	0	0	\$2,000.00
Collin	2	0	0	\$7,813.00
Comal	6	4	0	\$2,150.00
Dallas	3	1	1	\$22,600.00
Delta	1	1	0	\$3,000.00
Denton	5	2	1	\$24,500.00
Ellis	2	0	2	\$0.00
Fannin	1	0	1	\$0.00
Franklin	1	0	0	\$10,000.00
Galveston	3	2	1	\$25,000.00
Garza	4	4	0	\$10,500.00
Goliad	1	1	0	\$0.00
Grayson	3	1	0	\$8,000.00
Hardin	3	3	0	\$20,000.00
Harris	13	6	2	\$31,280.00
Harrison	4	1	0	\$24,000.00
Henderson	3	4	0	\$22,200.00
Hood	5	1	0	\$10,750.00
Jefferson	2	0	1	\$3,500.00
Limestone	1	0	1	\$500.00
Llano	4	4	0	\$0.00
Marion	1	0	0	\$2,400.00
Matagorda	3	1	0	\$17,200.00
McMullen	2	0	1	\$5,000.00
Mitchell	2	2	1	\$9,370.00
Montgomery	9	4	0	\$54,800.00
Navarro	2	1	0	\$46,000.00
Newton	2	0	1	\$1,700.00
Nolan	1	0	0	\$2,500.00
Nueces	11	6	1	\$39,614.00
Polk	3	1	1	\$4,000.00
Rains	2	0	0	\$11,000.00
Sabine	1	0	0	\$4,000.00



County	Total Incidents	Total Injured	Total Fatalities	Damage (dollars)
San Augustine	1	0	0	\$20,000.00
San Jacinto	4	2	0	\$6,500.00
San Patricio	2	1	0	\$3,000.00
Scurry	1	1	0	\$5,000.00
Shackelford	1	0	1	\$0.00
Smith	2	0	1	\$68,000.00
Stephens	1	0	1	\$0.00
Tarrant	3	0	1	\$7,500.00
Tom Green	3	2	0	\$4,750.00
Travis	18	23	3	\$83,898.00
Trinity	1	0	1	\$3,500.00
Val Verde	1	0	1	\$36,000.00
Webb	1	0	0	\$2,650.00
Willacy	1	0	0	\$15,293.00

### Incidents by Waterbody

Waterbody	Total Incidents	Number of Vessels	Total Injured	Total Fatalities	Damage (dollars)
Alan Henry	4	5	5	0	\$10,500.00
Amistad	1	1	0	1	\$36,000.00
Aransas Bay	1	1	1	0	\$2,500.00
Austin	9	11	13	1	\$83,427.00
Bastrop	1	1	2	0	\$0.00
Belton (Bell Co)	2	3	1	0	\$12,000.00
Big Cypress Creek	1	1	0	0	\$2,400.00
Bob Sandlin	1	2	0	0	\$3,000.00
Bonham City	1	1	0	1	\$0.00
Brazos River	1	1	1	1	\$22,000.00
Brownsville Ship Channel	1	1	0	0	\$20,000.00
Brownwood	1	1	1	0	\$0.00
Buchanan	2	2	1	1	\$0.00
Caddo	5	5	2	0	\$54,000.00
Calaveras	1	2	0	0	\$2,500.00
Caney Branch	1	1	0	0	\$7,000.00
Canyon	6	8	6	0	\$2,150.00
Casa Blanca	1	2	0	0	\$2,650.00
Cedar Creek (Lake)	3	4	5	0	\$22,200.00
Champion Creek	1	1	0	1	\$0.00
Chocolate Bay	1	1	0	0	\$0.00
Chocolate Bayou	1	1	1	0	\$200.00
Choke Canyon	2	2	0	1	\$5,000.00
Clear Creek	1	1	0	0	\$10,009.00
Clear Creek (Galveston)	1	2	0	0	\$0.00
Clear Lake (Galveston Bay)	1	1	0	0	\$2,001.00
Coletto Creek Lake	1	1	1	0	\$0.00
Colorado City	1	2	2	0	\$9,370.00

<b>Waterbody</b>	<b>Total Incidents</b>	<b>Number of Vessels</b>	<b>Total Injured</b>	<b>Total Fatalities</b>	<b>Damage (dollars)</b>
Conroe	11	13	4	0	\$57,300.00
Cooper Reservoir	1	2	1	0	\$3,000.00
Corpus Christi	2	3	1	0	\$3,000.00
Corpus Christi Bay	4	5	6	0	\$2,500.00
Corpus Christi Channel	1	1	0	0	\$2,000.00
Cypress Springs	1	1	0	0	\$10,000.00
Espiritu Santo Bay	1	2	0	0	\$11,000.00
Fort Parker State Park	1	1	0	1	\$500.00
Galveston Bay	2	3	3	0	\$25,000.00
Granbury	6	6	2	0	\$10,750.00
Grapevine	1	1	0	1	\$0.00
Gulf of Mexico Aransas/ Corpus Christi < 10 M	1	1	2	0	\$6,000.00
Gulf of Mexico Galveston/Freeport < 10 Mi	1	0	0	0	\$0.00
Gulf of Mexico Galveston/Freeport > 10 Mi	2	2	1	0	\$45,000.00
Gulf of Mexico Matagorda/San Antonio Bay < 10 Mi	1	1	0	0	\$0.00
Halls Bayou	1	2	0	1	\$0.00
Houston	4	4	4	1	\$16,400.00
Hubbard Creek	1	1	0	1	\$0.00
J. B. Thomas	1	1	1	0	\$5,000.00
Jacksonville	1	2	0	0	\$2,000.00
Joe Pool	4	8	1	1	\$25,100.00
Lavon	2	4	0	0	\$7,813.00
Lewisville	4	6	2	1	\$16,500.00
Livingston	7	7	2	2	\$14,000.00
Lower Laguna Madre	3	5	2	0	\$17,293.00
Lydia Ann Channel	1	1	1	0	\$0.00
Lyndon B. Johnson	6	6	4	1	\$2,000.00
Matagorda Bay	1	1	0	0	\$52,000.00
McCarty	1	1	0	1	\$0.00
Mesquite Bay (Aransas)	1	1	1	0	\$0.00
Millers Creek	1	2	1	0	\$2,700.00
Nasworthy	2	4	2	0	\$3,750.00
Neches River	5	5	4	1	\$13,500.00
Palestine	1	1	0	1	\$38,000.00
Pass Cavallo	1	2	0	0	\$4,000.00
Port Aransas Pass	2	4	0	0	\$23,614.00
Pringle Lake (San Antonio Bay)	1	1	1	0	\$0.00
Ray Roberts	1	1	0	0	\$8,000.00
Richland-Chambers	2	3	1	0	\$46,000.00
Sabine River	1	1	0	1	\$500.00
Sam Rayburn	2	2	1	0	\$20,000.00
San Bernard River	1	2	2	0	\$1,500.00
San Jacinto River	8	13	6	0	\$22,879.00

<b>Waterbody</b>	<b>Total Incidents</b>	<b>Number of Vessels</b>	<b>Total Injured</b>	<b>Total Fatalities</b>	<b>Damage (dollars)</b>
Sims Bayou	1	1	0	1	\$0.00
Stillhouse Hollow	1	1	0	1	\$0.00
Sweetwater	1	1	0	0	\$2,500.00
Tawakoni	2	2	0	0	\$11,000.00
Texoma	3	5	2	0	\$8,000.00
Toledo Bend	2	4	1	0	\$5,200.00
Travis	9	12	10	2	\$35,800.00
Tres Palacios Bay	2	3	1	0	\$10,200.00
Trinity River	2	2	3	0	\$3,000.00
Twin Buttes	1	1	0	0	\$1,000.00
Tyler East	1	1	0	0	\$30,000.00
Upper Laguna Madre	4	6	4	1	\$6,500.00
Walter E. Long	1	2	3	0	\$2,750.00
Waxahachie	2	2	0	2	\$0.00
West Bay	1	1	0	1	\$0.00
Worth	1	1	0	0	\$5,000.00

### Incidents by Vessel Type

<b>Type of Vessel Involved</b>	<b>All Incidents</b>		<b>Injury Incidents</b>		<b>Fatal Incidents</b>	
	<b>Number of Vessels</b>	<b>Percent of Vessels</b>	<b>Number of Vessels</b>	<b>Percent of Vessels</b>	<b>Number of Vessels</b>	<b>Percent of Vessels</b>
Open Motorboat	98	43.00%	38	48.10%	12	40.00%
Personal Watercraft	79	34.60%	28	35.40%	6	20.00%
Pontoon Boat	18	7.90%	6	7.60%	1	3.30%
Other	9	3.90%	2	2.50%	2	6.70%
Cabin Motorboat	7	3.10%	2	2.50%	0	0.00%
Kayak	7	3.10%	0	0.00%	7	23.30%
Air Boat	2	0.90%	2	2.50%	0	0.00%
Canoe	2	0.90%	0	0.00%	2	6.70%
Unknown	2	0.90%	1	1.30%	0	0.00%
Auxiliary Sail	1	0.40%	0	0.00%	0	0.00%
Houseboat	1	0.40%	0	0.00%	0	0.00%
Jet Boat	1	0.40%	0	0.00%	0	0.00%
Rowboat	1	0.40%	0	0.00%	0	0.00%

**Notes:**

---There could be crossover in this table as a single incident could involve both non-fatal injuries **and** deaths.

## Incidents by Vessel Length

Vessel Length	All Incidents		Injury Incidents		Fatal Incidents	
	Number of Vessels	Percent of Vessels	Number of Vessels	Percent of Vessels	Number of Vessels	Percent of Vessels
Unknown	9	3.9%	1	1.3%	2	6.7%
Less Than 16 Ft	98	43.0%	34	43.0%	17	56.7%
16 Ft To < 26 Ft	109	47.8%	43	54.4%	11	36.7%
26 Ft To < 40 Ft	8	3.5%	1	1.3%	0	0.0%
40 Ft To 65 Ft	4	1.8%	0	0.0%	0	0.0%

**Notes:**

--- The Vessel Length breakdowns in this table are the same as those used in the U.S. Coast Guard's annual *Recreational Boating Statistics* publication.

---There could be crossover in this table as a single incident could involve both non-fatal injuries and deaths.

## Vessel Operation at Time of Incident

Vessel Operation	All Incidents		Injury Incidents		Fatal Incidents	
	Number of Vessels	Percent of Vessels	Number of Vessels	Percent of Vessels	Number of Vessels	Percent of Vessels
Cruising	114	49.80%	45	57.00%	9	30.00%
Drifting	23	10.80%	8	10.00%	5	16.70%
Changing Speed	13	5.60%	6	7.60%	3	9.90%
Docking/Undocking	13	5.60%	4	5.00%	1	3.30%
Changing Direction	12	5.20%	6	7.60%	0	0.00%
Docked	10	4.40%	0	0.00%	0	0.00%
Unknown	8	3.40%	2	2.60%	3	10.00%
Rowing/Paddling	7	3.00%	0	0.00%	6	20.00%
At Anchor	6	2.60%	1	1.30%	0	0.00%
Being Towed	4	1.80%	2	2.50%	0	0.00%
Trolling	4	1.80%	1	1.30%	2	6.80%
Jumping Wake	3	1.30%	0	0.00%	1	3.30%
Tubing	3	1.30%	3	3.80%	0	0.00%
Towing a Boat	3	1.30%	1	1.30%	0	0.00%
Recreating	2	0.90%	0	0.00%	0	0.00%
Boarding Moving Vessel	1	0.40%	0	0.00%	0	0.00%
Speeding	1	0.40%	0	0.00%	0	0.00%
Starting	1	0.40%	0	0.00%	0	0.00%

**Notes:**

---There could be crossover in this table as a single incident could involve both non-fatal injuries and deaths.

## Vessel Activity at Time of Incident

Vessel Activity	All Incidents		Injury Incidents		Fatal Incidents	
	Number of Vessels	Percent of Vessels	Number of Vessels	Percent of Vessels	Number of Vessels	Percent of Vessels
Activity Not Defined	42	18.40%	9	11.40%	0	0.00%
Fishing	33	13.50%	10	12.70%	10	33.30%
Cruising / Relaxing	12	53.50%	44	55.70%	15	50.00%
Tubing	10	4.30%	8	10.20%	1	3.30%
Water Skiing	5	2.20%	4	5.10%	0	0.00%
Fishing Tournament	4	1.70%	1	1.30%	0	0.00%
Swimming/Diving	4	1.80%	1	1.30%	3	10.00%
Starting Engine	3	1.30%	1	1.30%	0	0.00%
Racing	2	0.90%	0	0.00%	1	3.30%
Commercial Activity	2	0.80%	0	0.00%	0	0.00%
Making Repairs	1	0.40%	1	1.30%	0	0.00%

**Notes:**

---Multiple activities can be recorded on an incident report. The percentage of vessels involved in each activity is listed.

---There could be crossover in this table as a single incident could involve both non-fatal injuries **and** deaths.

## Operator's Experience with the Vessel (in Hours)

Hours of Experience	All Incidents		Injury Incidents		Fatal Incidents	
	Number of Operators	Percent of Operators	Number of Operators	Percent of Operators	Number of Operators	Percent of Operators
Unknown	33	15.3%	11	14.1%	5	17.9%
No Experience	29	13.5%	14	17.9%	4	14.3%
Under 10 Hrs.	16	7.4%	7	9.0%	0	0.0%
10 To 100 Hrs.	20	9.3%	11	14.1%	1	3.6%
100 - 500 Hrs.	24	11.2%	4	5.1%	0	0.0%
Over 500 Hrs.	27	12.6%	15	19.2%	1	3.6%
Not Applicable	28	13.0%	6	7.7%	6	21.4%
No Operator	1	0.5%	0	0.0%	1	3.6%
Other	37	17.2%	10	12.8%	10	35.7%

**Notes:**

---This table captures the hours of operating experience with the vessel involved in the incident. The previous table presents **overall** operating experience. Do not merge the counts from these tables—the hours of experience recorded for a specific vessel are likely to be a subset of the hours recorded for the overall experience.

---There could be crossover in this table as a single incident could involve both non-fatal injuries **and** deaths.

---The percent columns are based on total numbers of operators involved in the incidents. The calculations do not delete those whose numbers of hours of experience with the vessel is unknown.

## Operator Boating Safety Education

Type of Education	All Incidents		Injury Incidents		Fatal Incidents	
	Number of Operators	Percent of Operators	Number of Operators	Percent of Operators	Number of Operators	Percent of Operators
Unknown	85	39.50%	27	34.60%	16	57.10%
None	82	38.30%	31	39.80%	8	28.60%
State Course	44	20.50%	18	23.10%	3	10.70%
USCG OUPV	3	1.50%	1	1.30%	1	3.60%

**Notes:**

---There could be crossover in this table as a single incident could involve both non-fatal injuries **and** deaths.

---The percent columns are based on total numbers of operators involved in the accidents. The calculations do not delete those whose education or instruction is unknown.

## Operator Gender

Gender	All Incidents		Injury Incidents		Fatal Incidents	
	Number of Operators	Percent of Operators	Number of Operators	Percent of Operators	Number of Operators	Percent of Operators
Male	192	89.3%	70	89.7%	25	89.3%
Female	17	7.9%	5	6.4%	3	10.7%
Unknown	6	2.8%	3	3.8%	0	0.0%

**Notes:**

- The collection and recording of an operator's gender is not required in CFR, so it is possible that this table may contain incomplete data.
- There could be crossover in this table as a single incident could involve both non-fatal injuries **and** deaths.
- The percent columns are based on total numbers of operators involved in the incidents. The calculations do not delete those whose gender was recorded as unknown.

## Operator Age

Operator Age	All Incidents		Injury Incidents		Fatal Incidents	
	Number of Operators	Percent of Operators	Number of Operators	Percent of Operators	Number of Operators	Percent of Operators
0 To 10 Years	1	0.5%	0	0.0%	0	0.0%
11 To 20 Years	32	14.9%	12	15.4%	5	17.9%
21 To 30 Years	42	19.5%	19	24.4%	3	10.7%
31 To 40 Years	30	14.0%	7	9.0%	3	10.7%
41 To 50 Years	37	17.2%	15	19.2%	7	25.0%
51 To 60 Years	32	14.9%	12	15.4%	6	21.4%
61 To 70 Years	16	7.4%	5	6.4%	1	3.6%
71 To 80 Years	6	2.8%	3	3.8%	1	3.6%
81 Yrs. or More	1	0.5%	0	0.0%	0	0.0%
Unknown	18	8.4%	5	6.4%	2	7.1%

**Notes:**

- This table presents age groupings for incidents with an operator. It presents the data in more groupings than are used in the U.S. Coast Guard's annual, national **Recreational Boating Statistics** publication.
- There could be crossover in this table as a single incident could involve both non-fatal injuries **and** deaths.
- The percent columns are based on total numbers of operators involved in the incidents. The calculations do not delete those for which the operator's age was recorded as unknown.

## Fatalities -- Cause of Death

Boating Fatalities		
Cause of Death	Number of Fatalities	Percent of Fatalities
Drowning	16	57.2%
Prop Cut	1	3.6%
Trauma	7	25.0%
Unknown	4	14.3%

## Fatalities -- Life Jacket Use

Status	Number of Fatalities	Percent of Fatalities
Life Jacket Worn	7	25.0%
Life Jacket Not Worn	21	75.0%

### Fatalities -- Cause of Death and Life Jacket Use

Cause of Death	Life Jacket Use Status		
	Worn	Not Worn	Unknown
Drowning	2	14	0
Prop Cut	1	0	0
Trauma	2	5	0
Unknown	2	2	0

### Fatalities -- Vessel Type

Boating Fatalities		
Vessel Type	Number of Fatalities	Percent of Fatalities
Canoe	2	7.1%
Kayak	7	25.0%
Open Motorboat	12	42.9%
Other	2	7.1%
Personal Watercraft	4	14.3%
Pontoon Boat	1	3.6%

### Fatalities -- Vessel Type and Life Jacket Use

Vessel Type	Life Jacket Use Status		
	Worn	Not Worn	Unknown
Canoe	0	2	0
Kayak	2	5	0
Open Motorboat	2	10	0
Other	0	2	0
Personal Watercraft	3	1	0
Pontoon Boat	0	1	0