2019 RECREATIONAL BOATING STATISTICS

COMDTPUB P16754.33 U.S. DEPARTMENT OF HOMELAND SECURITY U.S. COAST GUARD OFFICE OF AUXILIARY AND BOATING SAFETY



U.S. Department of Homeland Security

United States Coast Guard



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FOREWORD

Under the authority of Title 46, United States Code, the Inspections & Compliance Directorate has been delegated the responsibility to collect, analyze, and annually publish statistical information obtained from recreational boat numbering and casualty reporting systems. Within the Directorate, the Office of Auxiliary and Boating Safety, Boating Safety Division has National Recreational Boating Safety Program responsibility.

<u>Recreational Boating Statistics 2019</u>, the 61st annual report, contains statistics on recreational boating accidents and state vessel registration. This publication is a result of the coordinated effort of the Coast Guard and those states and territories that have Federally-approved boat numbering and casualty reporting systems. These include all states, the District of Columbia, Puerto Rico, Guam, the Virgin Islands, American Samoa, and the Commonwealth of the Northern Mariana Islands.

<u>Recreational Boating Statistics 2019</u> may be copied and distributed freely in the interest of boating safety. For questions and suggestions regarding content, use the address, telephone number, or email address at the top of this page. For an electronic copy, visit the Boating Safety Division website at www.uscgboating.org.

DAVID C. BARATA /s/ Captain, U.S. Coast Guard Director of Inspections & Compliance

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2019 EXECUTIVE SUMMARY

- In 2019, the Coast Guard counted 4,168 accidents that involved 613 deaths, 2,559 injuries and approximately \$55 million dollars of damage to property as a result of recreational boating accidents.
 - The fatality rate was 5.2 deaths per 100,000 registered recreational vessels. This rate represents a 1.9% decrease from the 2018 fatality rate of 5.3 deaths per 100,000 registered recreational vessels.
 - Compared to 2018, the number of accidents increased 0.6%, the number of deaths decreased 3.2%, and the number of injuries increased 1.9%.
- Where cause of death was known, 79% of fatal boating accident victims drowned. Of those drowning victims with reported life jacket usage, 86% were not wearing a life jacket.
- Where length was known, eight out of every ten boaters who drowned were using vessels less than 21 feet in length.
- Alcohol use is the leading known contributing factor in fatal boating accidents; where the primary cause was known, it was listed as the leading factor in 23% of deaths.
- Where instruction was known, 70% of deaths occurred on boats where the operator did not receive boating safety instruction. Only 20% percent of deaths occurred on vessels where the operator had received a nationally-approved boating safety education certificate.
- There were 171 accidents in which at least one person was struck by a propeller. Collectively, these accidents resulted in 35 deaths and 155 injuries.
- Operator inattention, improper lookout, operator inexperience, excessive speed, and alcohol use rank as the top five primary contributing factors in accidents.
- Where data was known, the most common vessel types involved in reported accidents were open motorboats (45%), personal watercraft (19%), and cabin motorboats (16%).
- Where data was known, the vessel types with the highest percentage of deaths were open motorboats (48%), kayaks (14%), and personal watercraft (8%).
- The 11,878,542 recreational vessels registered by the states in 2019 represent a 0.22% increase from last year when 11,852,969 recreational vessels were registered.

	Tabl	le 1 • 2019	EXECUTIVE	ESUMMA	RY								
	TO				۹								
Accident Rank	Accident Ty		Number of A		Number of Deaths	Number of Injuries							
1	Collision with recreati	onal vessel	107	1	47	650							
2	Collision with fixed ob	oject	493	3	44	326							
3	Grounding		413	}	16	253							
4	Flooding/swamping		399)	45	124							
5	Falls overboard		299)	189	122							
VESSEL TYPES WITH THE TOP CASUALTY NUMBERS													
Casualty Rank	Type of Boat	Drownings	Other Deaths	Total Deaths	Total Injuries	Total Casualties							
1	Open motorboat	201	87	288	1246	1534							
2	Personal watercraft	24	22	46	614	660							
3	Cabin motorboat	14	20	34	248	282							
4	Canoe/kayak	107	18	125	121	246							
5	Pontoon	32	8	40	153	193							
LIFE JACKET WEAR BY TOP FIVE KNOWN CAUSES OF DEATH													
Known Cause			Number of		Life Jacke	et							
of Death Rank	Cause of De	eath	Deaths	Worn	Not Worn	Unknown if worn							
1	Drowning		439	57	362	20							
2	Trauma		92	35	49	8							
3	Cardiac arrest		17	5	12	0							
4	Carbon monoxide poi	soning	5	0	3	2							
5	Hypothermia		4	2	2	0							
	TOP TEN KNOWN P	RIMARY CO	NTRIBUTING	FACTOR	S OF ACCIDEN	TS							
Accident Rank	Contributing F	actor	Number of A	Accidents	Number of Deaths	Number of Injuries							
1	Operator inattention		546	6	36	296							
2	Improper lookout		506	3	26	425							
3	Operator inexperience	e	458	3	39	273							
4	Excessive speed		358	3	22	325							
5	Alcohol use		282	2	113	221							
6	Machinery failure		274	1	18	93							
	Navigation rules viola	tion	235	5	21	141							
				1	31	58							
	Hazardous waters	170)	48	87								
10	Force of wave/wake		140)	12	117							

Mission and Strategic Plan of the National Recreational Boating Safety Program

The mission of the National Recreational Boating Safety (RBS) Program is "to ensure the public has a safe, secure, and enjoyable recreational boating experience by implementing programs that minimize the loss of life, personal injury, and property damage while cooperating with environmental and national security efforts."

The Coast Guard has released the Strategic Plan of the National Recreational Boating Safety Program for 2017-2021 to address the following initiatives: 1) Improve and expand recreational boating education, training, and outreach; 2) Update, leverage, and enforce policies, regulations, and standards; and 3) Improve upon and expand recreational boating data collection and research. To view the Strategic Plan of the Program, please visit the Division's website at http://www.uscgboating.org/content/strategic-plan.php.

Overview of Statistics

This report contains statistics on registered recreational vessels and boating accidents during calendar year 2019. Data used to compile the recreational boating accident statistics come from four main sources: State marine agencies; Federal agencies, including the Coast Guard, National Park Service, Army Corps of Engineers, and Forest Service; the public, on a CG-3865 Recreational Boating Accident Report (BAR) form; and the news media.

The data in this publication reflects a collaboration of state and Coast Guard efforts. After reports are submitted, the Coast Guard reviews them and standardizes the data so that it can be used for national comparison. The data in this publication reflects Coast Guard standardized values, which may be different from the state's original submission.

The following table reflects the number of accidents, deaths, injuries, and losses of vessels that were captured from federal and news media sources that met reporting requirements and are included in this report.

	Accidents	Deaths	Injuries	Vessel losses	Damages	Notes
AL	1	1	5	0	\$0.00	
AT	5	2	3	4	\$907,095.00	5 accidents offshore in the Atlantic Ocean
CA	1	0	1 1	0	\$0.00	
CO	3	3	0	0	\$0.00	
FL	13	0	7	7	\$329,635.00	
GA	8	7	5	0	\$0.00	
GM	3	0	0 0	0	\$404,175.00	3 accidents offshore in the Gulf of Mexico
IL	1	1	0	0	\$0.00	
KY	1	1	0	0	\$0.00	
ME	1	0	0 0	0	\$85,000.00	
MI	2	1	1	1	\$0.00	
MS	1	2	0	0	\$0.00	1 accident on private waters
МТ	2	2	0	0	\$0.00	
NC	1	2	0	0	\$0.00	1 accident on private waters
NH	1	0) 1	0	\$0.00	
NY	1	1	0	0	\$0.00	
PA	1	0	3	0	\$0.00	
PC	4	3	0	3	\$95,000.00	4 accidents offshore in the Pacific Ocean
PR	2	2	0	1	\$206,000.00	
SC	1	1	0	0	\$0.00	
TN	1	1	0	0	\$0.00	1 accident on private waters
ТХ	15	7	13	3		2 accidents on private waters
UT	2	0	2	0	\$0.00	
VA	2	0	0	1	\$859,370.00	
Nation	73	37	41	20	\$2,912,160.00	

Major Changes to the Publication

As a result of changes in 33 CFR 174.19 that took effect 1 January 2017, a new term "paddlecraft" was introduced and defined as "a vessel powered only by its occupants, using a single or double bladed paddle as a lever without the aid of a fulcrum provided by oarlocks, thole pins, crutches, or similar arrangements". As such, the definition limits the use of the term "paddlecraft" to non-motorized vessels. Consequently, any canoe or kayak with a motor has been classified as an "open motorboat" for accident reporting and registration purposes. Though the term "paddlecraft" exists in regulation, for the purposes of this publication, the subcategories of canoe, kayak, and standup paddleboard have been retained; these represent non-motorized vessels, and data can be combined to represent paddlecraft.

Table 10 has been amended to provide a breakdown of the victim's role (operator, occupant, other/ unknown). Examples of "other" include tuber, wakeboarder, water skier, kneeboarder, bystander, and swimmer.

Table 4a has been added to provide detail related to Figure 2. Figures 9a and 9b have been added to provide a graphical depiction of information in Tables 26 and 27. Figures 12 and 16 have been color-coded.

The glossary has been updated to reflect new definitions in the Code of Federal Regulations (CFR).

Table 37 has been rearranged due to a change in data collection. On 1 January 2017, changes in regulation (33 CFR 174.19) necessitated revision to the Coast Guard's data collection on registration, which took place in early 2017. Due to delays in transitioning to a new form, the Coast Guard accepted registration data on the previous registration collection form used and the proposed form. Since the forms did not cover the same information, the publication table was amended.

Four of the statistics in the Executive Summary were changed to remove the records where values were unknown. To find information on the number of "unknown" cases excluded, please reference Tables 35 (on page 66), 22 (on page 46), 5 (on page 20), and 7 (on page 25).

Accident Reporting as Required by Federal Law

Under federal regulations (33 CFR Part 173; Subpart C – Casualty and Accident Reporting) the operator of any numbered vessel that was not required to be inspected or a vessel that was operated for recreational purposes is required to file a BAR when, as a result of an occurrence that involves the vessel or its equipment:

- 1. A person dies; or
- 2. A person disappears from the vessel under circumstances that indicate death or injury; or
- 3. A person is injured and requires medical treatment beyond first aid; or
- 4. Damage to vessels and other property totals \$2,000 or more; or
- 5. There is a complete loss of any vessel.

If the above conditions are met, the federal regulations state that the operator or owner must report their accident to a state reporting authority, abbreviated in this publication as "state." The reporting authority can be either the state where the accident occurred, the state in which the vessel was numbered, or, if the vessel does not have a number, the state where the vessel was principally used. The owner must submit the report if the operator is deceased or unable to make the report.

The regulations also state the acceptable length of time in which the accident report must be submitted to the reporting authority. Boat operators or owners must submit:

- 1. Accident reports within 48 hours of an occurrence if:
 - a. A person dies within 24 hours of the occurrence; or
 - b. A person requires medical treatment beyond first aid; or
 - c. A person disappears from the vessel.
- 2. Accident reports within 10 days of an occurrence if there is damage to the vessel/property only.

The minimum reporting requirements are set by Federal regulation, but states are allowed to have more stringent requirements. For example, some states have a lower threshold for reporting damage to

vessels and other property.

Federal Regulations (33 CFR 174.121) require accident report data to be forwarded to Coast Guard Headquarters within 30 days of receipt by a state or its agent.

The statistics in this publication cover boating accidents reported on waters of joint federal and state jurisdiction and exclusive state jurisdiction. Most states use BAR forms that are similar to the Coast Guard form. A copy of the Coast Guard BAR form used for this report is on pages 73-78.

Casualty and Accident Reporting Guidelines

Casualty and accident reporting applies to each "vessel" used by its operator for recreational purposes or vessels that are required to be numbered and are not subject to inspection.

This publication reflects watercraft that have been deemed a "vessel." Terms used to describe the various types of watercraft are: airboat, auxiliary sailboat, cabin motorboat, canoe, houseboat, inflatable boat, kayak, open motorboat, personal watercraft, pontoon, raft, rowboat, sailboat, and standup paddleboard. Reports received involving watercraft that have not been determined to be "vessels" to date, such as single unmodified innertubes, have not been included in the statistics in the main body of this report.

"Reportable" Boating Accidents

A vessel is considered to be involved in a "boating accident" whenever a death, missing person, personal injury, property damage, or total vessel loss results from the vessel's operation, construction, seaworthiness, equipment, or machinery.

The following are examples of accident types that are used in this report:

- Grounding, capsizing, sinking, or flooding/swamping.
- Falls in or overboard a vessel.
- Persons ejected from a vessel.
- Fire or explosions that occur while underway and while anchored, moored or docked if the fire resulted from the vessel or vessel equipment.
- Water-skiing or other mishap involving a towable device.
- Collision with another vessel or object.
- Striking a submerged object.
- A person struck by a vessel, propeller, propulsion unit, or steering machinery.
- Carbon monoxide exposure.
- Electrocution due to stray current related to a vessel.
- Casualties while swimming from a vessel that is not anchored, moored or docked.
- Casualties where natural causes served as a contributing factor in the death of an individual but the determined cause of death was drowning.
- Casualties from natural phenomena such as interaction with marine life (i.e. carp causes casualty to person) and interaction with nature (i.e. mountain side falls onto vessel causing casualties).
- Casualties where a person falls off an anchored vessel.
- Casualties that result when a person departs an anchored, disabled vessel to make repairs, such as unfouling an anchor or cleaning out the intake of a jet-propelled vessel.

"Non-Reportable" Boating Accidents

Not every occurrence involving a vessel is considered within the scope of the National Recreational Boating Safety Program. The following occurrences involving a vessel may be required to be reported to the state, but for statistical purposes are excluded from this report and are considered "non-reportable" boating accidents:

- A person dies, is injured, or is missing as a result of self-inflicted wounds, alcohol poisoning, gunshot wounds, or the ingestion of drugs, controlled substances or poison.
- A person dies, is injured, or is missing as a result of assault by another person or persons while aboard a vessel.
- A person dies or is injured from natural causes while aboard a vessel where the vessel did not

contribute to the casualty.

- A person dies, is injured, or is missing as a result of jumping, diving, or swimming for pleasure from an anchored, moored or docked vessel.
- A person dies, is injured, or is missing as a result of swimming to retrieve an object or a vessel that is adrift from its mooring or dock, having departed from a place of inherent safety, such as the shore or pier.
- Property damage occurs or a person dies, is injured, or is missing while preparing a vessel for launching or retrieving and the vessel is not on the water and capable / ready for its intended use.
- Property damage occurs or a person dies, is injured, or is missing as a result of a fire on shore or a pier that spreads to a vessel or vessels.
- Property damage occurs to a docked or moored vessel or a person dies, is injured, or is missing from such a vessel as a result of storms, or unusual tidal or sea conditions; or when a vessel gets underway in those conditions in an attempt to rescue persons or vessels.
- Property damage occurs to a docked or moored vessel due to lack of maintenance on the vessel or the structure to which it was moored.
- Property damage occurs to a docked or moored vessel due to theft or vandalism.
- Property damage occurs to, a person dies or is injured on, or a person is missing from a non-propelled residential platform or other watercraft used primarily as a residence that is not underway.
- Casualties that result from falls from or on docked vessels or vessels that are moored to a permanent structure.
- Casualties that result from a person climbing aboard an anchored vessel from the water or swimming near an anchored vessel (unless the casualty was related to carbon monoxide exposure or stray electric current).
- Fire or explosions on anchored, docked or moored boats where the cause of the fire was not attributed to the vessel or vessel equipment.
- Casualty or damage that results when the vehicle used for trailering the vessel fails.
- Casualties or damage that occur during accidents that only involve watercraft that have not been deemed a vessel.
- Casualties or damage that occur when the only vessel(s) involved are being used solely for governmental, commercial or criminal activity.
- Casualties or damage that occur when the only vessel(s) involved are not required to be numbered and are being used exclusively for racing (exclusion in 33 CFR 173.13(a)).
- Casualties or damage that occur when the only vessel(s) involved are foreign vessels and thus not subject to U.S. federal reporting requirements.

A list of "non-reportable" scenarios and their associated casualty counts can be found in Table 3.

Table 3 • NON-REPORTABLE SCENARIO	DS WITH T		SUALTY	COUNT	
	Accidents			Vessels Losses	Damages
Does not meet Coast Guard policy A person dies or is injured from natural causes while aboard a vessel where the vessel did not contribute to the casualty.	1	0	1	0	\$0.00
A person dies, is injured, or is missing as a result of assault by another person or persons while aboard a vessel.	4	0	1	0	\$44,000.00
A person dies, is injured, or is missing as a result of jumping, diving, or swimming for pleasure from an anchored, moored or docked vessel.	6	3	3	0	\$0.00
A person dies, is injured, or is missing as a result of self- inflicted wounds, alcohol poisoning, gunshot wounds, or the ingestion of drugs, controlled substances or poison.	2	1	1	0	\$0.00
A person dies, is injured, or is missing as a result of swim- ming to retrieve an object or a vessel that is adrift from its mooring or dock, having departed from a place of inherent safety, such as the shore or pier.	10	7	4	0	\$500.00
Casualties or damage that occur during accidents that only involve watercraft that have not been deemed a vessel.	5	3	5	0	\$100.00
Casualties or damage that occur when the only vessel(s) involved are being used solely for governmental, commercial or criminal activity.	85	17	45	9	\$1,809,929.77
Casualties or damage that occur when the only vessel(s) involved are foreign vessels and thus not subject to U.S. federal reporting requirements.	1	0	0	0	\$6,300,000.00
Casualties or damage that occur when the only vessel(s) involved are not required to be numbered and are being used exclusively for racing.	2	0	3	0	\$1,000.00
Casualties that result from falls from or on docked vessels or vessels that are moored to a permanent structure.	7	0	7	0	\$0.00
Fire or explosions on anchored, docked or moored boats where the cause of the fire was not attributed to the vessel or vessel equipment.	2	0	0	2	\$200,000.00
Property damage occurs or a person dies, is injured, or is missing while preparing a vessel for launching or retrieving and the vessel is not on the water and capable/ready for its intended use.	3	0	2	1	\$4,400.00
Property damage occurs to a docked or moored vessel due to lack of maintenance on the vessel or the structure to which it was moored.	33	0	1	4	\$621,900.00
Property damage occurs to a docked or moored vessel or a person dies, is injured, or is missing from such a vessel as a result of storms, or unusual tidal or sea conditions; or when a vessel gets underway in those conditions in an attempt to rescue persons.	35	0	1	6	\$1,423,625.00
Property damage occurs to, a person dies or is injured on, or a person is missing from a non-propelled residential platform or other watercraft used primarily as a residence that is not underway.	1	1	0	1	\$40,000.00
Does not meet federal reporting requirements	415			0	. ,
Total	612	32	137	23	\$10,755,583.39

Use of Statistics

The following are notes on using data on recreational boating accidents.

1) Normalizing data.

When analyzing recreational boating accident data, it is recommended that any researcher normalize it with a denominator.

The Coast Guard frequently uses recreational vessel registration as a denominator because of the availability of the data. The Coast Guard calculates a fatality rate expressed as the number of deaths per 100,000 registered recreational vessels. This measure is representative of the entire program (motorized and non-motorized activity) but necessitates a caveat that not all states register the same types of vessels (many do not register non-motorized vessels, which are represented in fatal accident data) and some states have longer boating seasons than others. Further, when examining a state fatality rate, it is important to note that the state fatality rate may include deaths from vessels that were registered by another state.

The Coast Guard also calculates a motorized fatality rate expressed as the number of deaths on motorized vessels per 100,000 registered motorized recreational vessels. While this measure is sound, it doesn't reflect all of recreational boating because it does not represent non-motorized activity.

It is worthwhile to note that the Coast Guard is pursuing a denominator on exposure, which would reflect the level of boating activity. The proposed measure would be a fatality rate expressed as the number of deaths per 100,000,000 exposure hours. The Coast Guard most recently published exposure data from a 2011-2012 survey, and expects to publish data again in 2020 based upon a survey conducted in calendar year 2018.

2) Limitations on collection.

It is recommended that any researcher focus on fatal data since the confidence of this data is very high. The Coast Guard works with state marine agencies, other federal agencies, and news media aggregating services to identify boating incidents. Despite best efforts to document incidents, the Coast Guard is only confident in its capture of deceased victims since fatal accidents undoubtedly involve state or government oversight, and garner more attention in the news media.

Data on non-fatal accidents have a much lower confidence level. Non-fatal accidents are severely under-reported because boaters are unaware of reporting requirements or are unwilling to report. A 2006 study, "Recent Research on Recreational Boating Accidents and the Contribution of Boating Under the Influence," suggest that 20% of hospital-admitted injuries were not captured, and upwards of 93% of non-fatal, non-hospital admitted injuries were not captured in the data collection on boating accidents. The study is posted on the Coast Guard's website at http://www.uscgboating.org/library/bui-study/BUI_Study_Final.pdf.

There has been discussion about adjusting numbers to account for non-reporting, but attempts have not been undertaken yet. The Coast Guard is planning to study insurance data to better gauge the gap between reported and unreported accidents.

3) Comparisons with other sources.

The data in this publication may differ from other sources due to a number of factors, including:

- a. Time period. The statistics in this publication are based on calendar year 2019 accident data submitted by states as of 19 March 2020 with subsequent updates as information is reviewed and standardized. This publication covers only accidents meeting the aforementioned reporting requirements.
- b. Geographic location. This publication reflects accidents that occurred on waters subject to the jurisdiction of the United States and on the high seas.

Although the reporting of accidents that occur on private waters (such as a pond on a private property) are not required to be reported since states do not have jurisdiction, the Coast Guard includes data on private waters if the accidents satisfy the other requirements for inclusion. The rationale for doing so is that the National Recreational Boating Safety program could still impact individuals who boat on private waters. For those accidents that occur on private waters, the Coast Guard attributes the data to a state. For instance, if an accident occurred on a private pond in Texas, the Coast Guard attributes the accident to Texas.

Similarly, although the reporting of accidents that occur on federal waters within the boundaries of a state (for instance, Aberdeen Proving Grounds in Maryland), are not required to be reported by the states since state officials do not have jurisdiction, the Coast Guard includes data on federal waters if the accidents satisfy the other requirements for inclusion. The rationale for doing so is the same; the National Recreational Boating Safety program could still impact individuals who boat on federal waters. For those accidents that occur on federal waters, the Coast Guard attributes the data to a state. For instance, if an accident occurred on Aberdeen Proving Grounds, the Coast Guard attributes the accident to Maryland.

c. Different reporting requirements. Some states have more stringent reporting requirements than the federal government. For instance, some states may require a person to report an accident that involved at least \$500 damage, whereas the federal threshold for reporting damage is \$2,000 or more.

4) Fatal accidents are accidents that involve at least one death.

For example, a fatal accident could be a capsizing that resulted in three deaths. It was an accident that had at least one death.

5) Disappearances.

Victims who have disappeared and are presumed dead are represented in the tallies of deaths.

ACCIDENT CAUSES & CONDITIONS

Explanation of Accident Causes and Conditions Section

The following eighteen tables and figures focus on the causes of accidents with a special focus on alcohol use, the operation and activity at the time of accident, weather and water conditions, vessel information, and the time of accidents.

Percent of Accidents that are Fatal by Month (Figure 1 & Table 4, Page 18)

This table provides information about total accidents, fatal accidents, non-fatal accidents, and deaths. The figure focuses on the percent of fatal accidents by month.

Percent of Accidents that are Fatal by Time Period (Figure 2 & Table 4a, Page 19)

This table and figure reflect the percent of accidents that are fatal by time period. The category in which accidents are more frequently fatal span the hours between 2:31am and 4:30am.

Primary Contributing Factor of Accidents & Casualties (Table 5, Page 20)

The "contributing factors" of an accident are the causes of the accident. In the Coast Guard's national accident reporting database, there are allowances for up to four causes. This table reflects the first cause listed for all accidents, deaths, and injuries nationwide.

For the purposes of displaying information in a simplified manner, the Coast Guard divided the contributing factor categories into five larger categories: operation of vessel, loading of passengers or gear, failure of vessel or vessel equipment, environment, and miscellaneous. These five categories are situated in the leftmost column of the table and have the total number of accidents, deaths, and injuries associated with each category under the category name.

Machinery & Equipment Primary Contributing Factor of Accidents & Casualties (Table 6, Page 21)

This table reflects the number of accidents, deaths, and injuries where machinery or equipment failure was listed as a first cause of the accident. The table also delineates the different types of failure that were listed.

Primary Contributing Factor of Accidents (Figure 3, Page 22)

This figure reflects the first cause of accidents for all accidents nationwide.

Primary Contributing Factor of Deaths (Figure 4, Page 23)

This figure reflects the first cause listed for all deaths.

Primary Contributing Factor of Injuries (Figure 5, Page 24)

This figure reflects the first cause listed for all injuries.

Number of Vessels in Accidents by Vessel Type & Primary Contributing Factor (Table 7, Page 25) This table looks at the number of vessels involved in accidents by vessel type and the primary cause of the accident.

Alcohol Use as a Contributing Factor in Accidents & Casualties by State 2015-2019 (Table 8, Page 26)

This table reflects a tally of all four causes of accidents listed for all national accidents, deaths, and injuries.

This table lists accidents where alcohol use by the vessel's occupants was listed as a direct or indirect cause of the accident. There are other cases in the national database where alcohol use is listed as being involved in the accident but it was not determined to be a cause of the accident.

Vessel Operation at the Time of Accident (Table 9, Page 27)

This table focuses on the vessel operation at the time of the accident. The table lists information about the number of vessels involved, the resulting number of deaths, and the resulting number of injuries.

Vessel Activity at the Time of Accident (Table 10, Page 27)

This table examines the vessel and victim activity at the time of the accident. The table provides information about the number of vessels involved, the resulting number of deaths, and the resulting number of injuries.

Please note that vessels used for commercial or government activity were included in this recreational boating statistics publication if they were involved in a multi-vessel accident that involved at least one recreational vessel.

Also note that racing was included as an activity because either the vessels involved in racing were not exempted from reporting requirements, or the vessels were involved in a multi-vessel accident that involved at least one recreational vessel.

Weather & Water Conditions (Table 11, Page 28)

This table documents some of the environmental characteristics of accidents. It focuses on accidents, deaths, and injuries by type of body of water, water conditions, wind level, visibility, and water temperature.

Time Related Data (Table 12, Page 29)

These three sections independently examine time-related information for accidents, deaths, and injuries. The top section documents the number of accidents, deaths, and injuries that occurred during a time frame. The middle section documents the number of accidents, deaths, and injuries that occurred during a given month. Finally, the bottom section documents the number of accidents the number of accidents, deaths, and injuries that occurred injuries that occurred during a given during a given day of the week.

Each section examines the national data separately and should not be combined to draw conclusions. For instance, one cannot use them to deduce that the majority of accidents occur from 2:31 pm-4:30 pm in July on the weekends. However, you could deduce that 2:31 pm-4:30 pm was the time frame during which the highest number of accidents occurred in calendar year 2019. Furthermore, the month with the highest number of accidents was July. Finally, the two days of the week with the greatest number of accidents were Saturday and Sunday.

Vessel Information (Table 13, Page 30)

This table documents some of the characteristics of vessels involved in accidents. It provides information about the number of accidents, deaths, and injuries by horsepower, year built, length, and hull material.

Rental Status of Vessels Involved in Accidents (Table 14, Page 31)

This table examines whether a vessel involved in an accident was rented. It also provides information on whether deaths and injuries occurred on rented vessels. Please note that some states only document if a vessel was rented; they do not indicate whether a vessel was "not rented". As a result, the rental status of many vessels is "unknown".

Number & Percent of Deaths by Vessel Length (Figure 6 & Table 15, Page 32)

This table focuses on the number of deaths by vessel length. Deaths are categorized into drownings and non-drownings. The table also provides a percentage of all deaths that were caused by drowning.

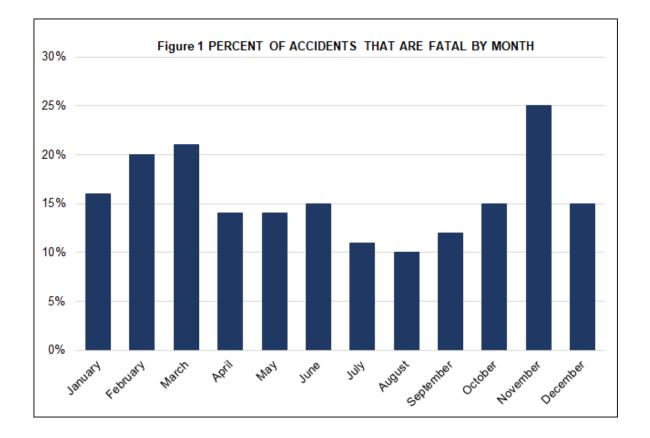


Table	94 • PERCE	NT OF ACCIDE	ENTS THAT	ARE FATAL BY M	ONTH
Month January	Fatal Accidents 14	Non-Fatal Accidents 73	Total Accidents 87	Accidents Resulting in Deaths 16%	Total Deaths 16
February	17	70	87	20%	17
March	32	122	154	21%	33
April	33	205	238	14%	37
Мау	64	408	472	14%	68
June	103	579	682	15%	119
July	110	892	1002	11%	119
August	66	584	650	10%	70
September	48	362	410	12%	58
October	27	158	185	15%	30
November	29	86	115	25%	32
December	13	73	86	15%	14
Total	556	3612	4168	13%	613

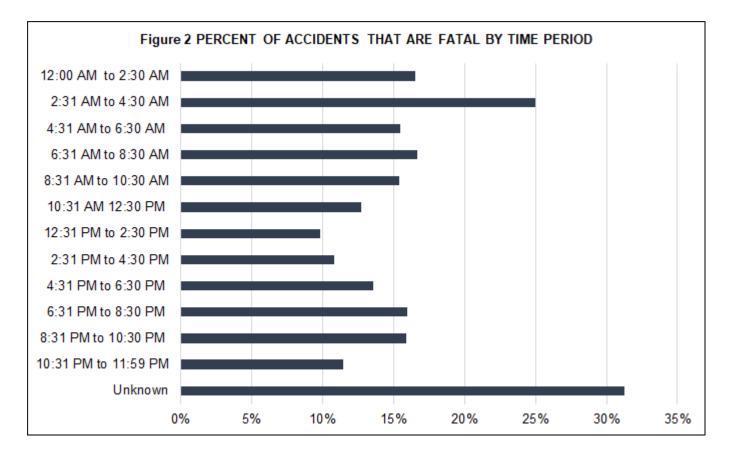
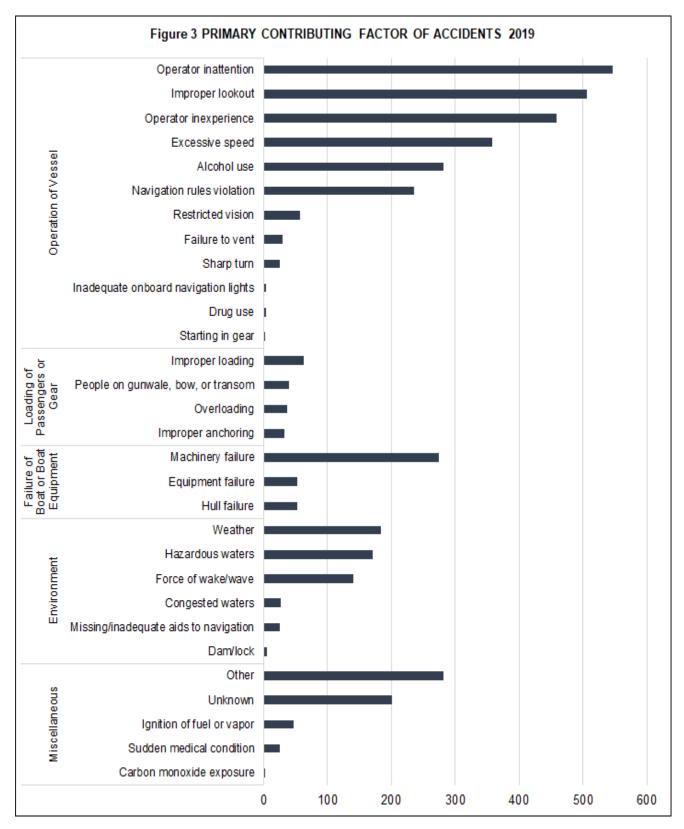


Table 4a • PERCENT OF ACCIDENTS THAT ARE FATAL BY TIME PERIOD														
Time period	Fatal Accidents	Non-Fatal Accidents	Total Accidents	Accidents Resulting in Deaths	Total Deaths									
12:00 AM to 2:30 AM	17	86	103	17%	20									
2:31 AM to 4:30 AM	8	24	32	25%	11									
4:31 AM to 6:30 AM	11	60	71	15%	12									
6:31 AM to 8:30 AM	16	80	96	17%	18									
8:31 AM to 10:30 AM	39	214	253	15%	41									
10:31 AM 12:30 PM	60	412	472	13%	63									
12:31 PM to 2:30 PM	63	579	642	10%	64									
2:31 PM to 4:30 PM	92	766	858	11%	96									
4:31 PM to 6:30 PM	98	624	722	14%	106									
6:31 PM to 8:30 PM	81	427	508	16%	96									
8:31 PM to 10:30 PM	40	211	251	16%	48									
10:31 PM to 11:59 PM	11	85	96	11%	13									
Unknown	20	44	64	31%	25									
All time periods	556	3612	4168	13%	613									

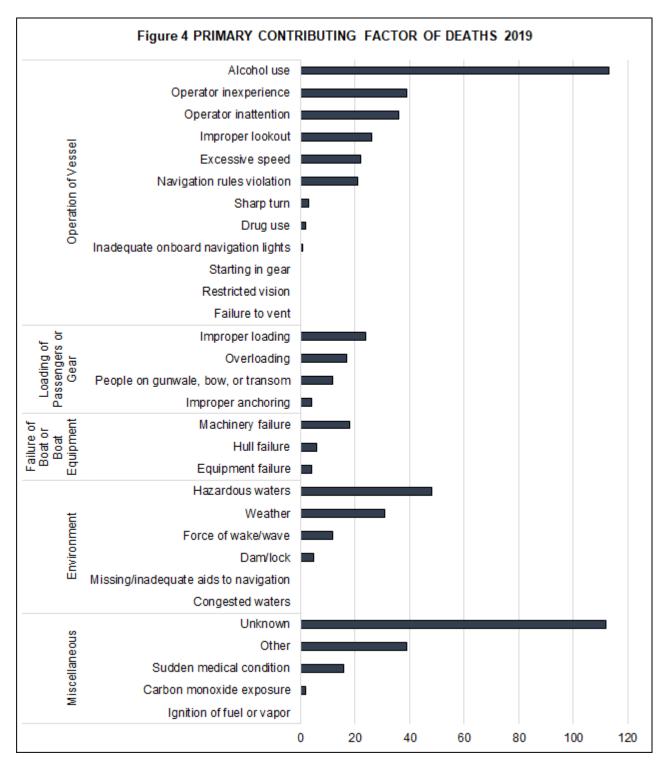
		Accidents	Deaths	Injuries
Operation of Vessel	Alcohol use	282	113	221
2508 Accidents 263 Deaths	Drug use	4	2	2
1775 Injuries	Excessive speed	358	22	325
	Failure to vent	30	0	30
	Improper lookout	506	26	425
	Inadequate onboard navigation lights	4	1	0
	Navigation rules violation	235	21	141
	Operator inattention	546	36	296
	Operator inexperience Operator inexperience Restricted vision Sharp turn Starting in gear ling of Passengers or Gear Accidents			273
	57	0	35	
	Sharp turn	26	3	26
	Starting in gear	2	0	1
oading of Passengers or Gear	Improper anchoring	32	4	8
57 Deaths	Improper loading	63	24	34
38 Injuries	Overloading	37	17	18
	People on gunwale, bow or transom	nchoring 32 pading 63 g 37 gunwale, bow or transom 40 failure 53 52	12	28
Failure of Boat or Boat Equipment	Equipment failure	53	4	15
28 Deaths	Hull failure	52	6	9
117 Injuries	Machinery failure	274	18	93
Environment	Congested waters	27	0	11
96 Deaths	Dam/lock	5	5	3
279 Injuries	Force of wave/wake	140	12	117
	Hazardous waters	170	48	87
Starting in gearding of Passengers or Gear Accidents Deaths njuriesImproper anchoringImproper loadingImproper loadingOverloadingOverloadingPeople on gunwale, bow or transure of Boat or Boat Equipment Accidents Deaths InjuriesEquipment failureAccidents Deaths InjuriesEquipment failureAccidents Deaths InjuriesCongested watersDeaths InjuriesDam/lockForce of wave/wake Hazardous watersHazardous watersMissing/inadequate navigation ai WeatherWeather	Missing/inadequate navigation aid	26	0	3
	Weather	184	31	58
Miscellaneous	Carbon monoxide exposure	3	2	16
69 Deaths	Ignition of fuel or vapor	47	0	30
300 Injuries	Sudden medical condition	25	16	15
	Other	281	39	192
	Unknown	201	112	47
All categories combined		4168	613	2559

CON	Table 6 • MACHINERY & E0 TRIBUTING FACTOR OF ACC			2019
		Accidents	Deaths	Injuries
	Electrical system failure	43	0	12
	Engine failure	140	14	25
	Exhaust system failure	2	0	0
	Fuel system failure	18	0	28
Machinery Failure	Shift failure	14	0	1
1 allule	Steering system failure	31	4	19
	Throttle failure	12	0	0
	Ventilation system failure	1	0	0
	Not specified	13	0	8
	Auxiliary equipment failure	35	2	5
	Onboard navigation aid	0	0	0
Equipment	Sail dismasting	2	0	2
Failure	Seat broke loose	0	0	0
	Other	14	2	7
	Not specified	2	0	1

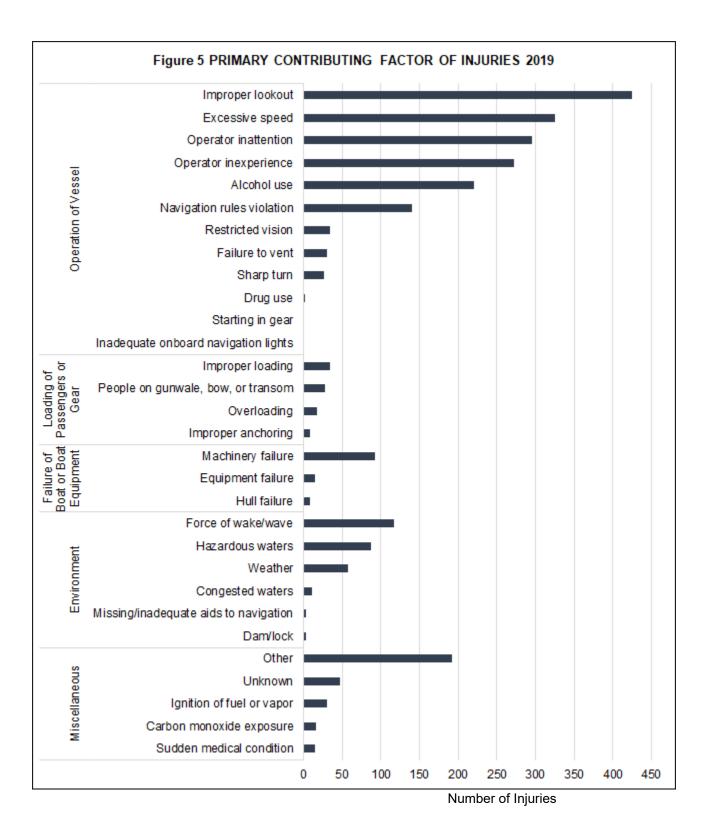
T



Number of Accidents



Number of Deaths



	Unknown	233	0	13	41	7	ω	-	20	97	11	8	5	2	4	4	~	<u>-</u>
	Other	286	2	7	20	9	З	1	2	194	18	31	0	0	0	0	0	2
		255	0	25	65	1	6	1	19	98	4	18	0	10	2	٦	-	-
	Weather Sudden medical condition	25 2	0	1	1	1	0	0	3	13	4	0	1	0	0	1	0	0
19	Starting in gear	e	0	0	٢	0	0	0	0	0	٢	1	0	0	0	0	0	0
2018	Sharp turn	l 30	6 1	7 0	5 1	0 0	0 0	0 0	0 0	11	7 13	6 3	0 0	0 0	o o	0 0	0 0	-
TOF	Restricted vision	81	9	1	15	0	0	0		39	1		0	0	0	0		
FAC	People on gunwale, bow or transom	44	0	0	4	0	1	0	. 2	5 28	0	9	0	0	0	0	0	0
NG	Overloading	2 40	0 0	1 1	88 1	14 1	10 1	6 0	7 4	7 25	3 1	39 2	0 2	0 0	0 0	3 0	1 0	3 2
UTII	Operator inexperience	662		21					27	21	. 233							
RIB	Operator inattention	798	9	52	143	2	11	1	11	340	144	64	4	4	0	0	3	10
UND	Navigation rules violation	405	0	17	40	3	1	0	7	138	138	31	0	1	0	2	3	24
ХC	Missing/inadequate navigation aid	26	0	1	10	0	0	0	0	14	0	1	0	0	0	0	0	0
PRIMARY CONTRIBUTING FACTOR	Machinery failure	340	2	24	118	0	13	0	0	151	11	12	0	0	-	0	7	9
PRI	Inadequate onboard navigation lights	8	0	0	e	0	0	0	0	2	0	0	0	0	0	0	0	0
Š		789	-	33	101	-	5	1	7	390	72	59	3	3	0	0	5	ω
ТҮРЕ	Improper lookout Improper loading	66 7	1	0	1	7	0	0	9	36 3	3	9	5	0	0	0	0	-
_	Improper anchoring	39	0	2	11	0	0	0	1	18	0	1	1	3	0	0	0	2
ESS	Ignition of fuel or vapor	55	0	1	17	0	2	0	0	30	4	0	0	0	0	0	0	~
BY VESSEL	Hull failure	53	0	3	7	0	٢	0	2	32	1	4	0	0	0	0	2	1
	Hazardous waters	188	0	9	15	13	Ţ	11	46	70	9	1	5	2	0	3	2	~
ACCIDENTS	Force of wave/wake	153	1	0	13	2	1	0	9	89	24	9	0	0	0	0	2	9
CID	Failure to vent	31	0	-	8	0	-	0	0	18	2	-	0	0	0	0	0	0
-		549	4	5	100	0	2	0	1	210	198	17	1	1	0	0	2	8
-S IN	Excessive speed Equipment failure	61	٢	4	10	0	0	0	0	39	1	2	0	2	0	0	0	2
SEI	Drug use	5	0	0	0	0	0	0	0	З	-	0	0	0	0	0	0	~
VES	Dam/lock	1 5	1 0	5 0	8 0	0 0	0 0	0 2	1 2	1	6 0	3 0	1 0	0 0	0 0	0 0	1 0	2 0
OF	Congested waters	3 44	Ò	0	80	0	2	0	0	1 16	0	0	Ò	0	0	0	Ò	0
3ER	Carbon monoxide exposure	4	1	5	46	8	-	1	12	37	56	44	4	1	0	1	З	4
UME	Alcohol use	1 374	C	7		6	3	LO		J 187			2	6	7	2	8	m
- N	All contributing factors	5651	30	237	888	66	73	25	179	2510	1062	372	32	29	•	15	28	98
Table 7 - NUMBER OF VESSELS																		
Та		All vessels	Airboat	Auxiliary sailboat	Cabin motorboat	Canoe	Houseboat	Inflatable	Kayak	Open motorboat	Personal watercraft	Pontoon	Rowboat	Sail (only)	Sail (unknown)	Standup paddleboard	Other	Unknown

			Та	ble 8	• AL	соно	DL U	SE A	SAC	ONT	RIBL	JTING	G FAC	CTOR	R IN
				AC		NTS	& CA	SUA	LTIE	S BY	STA	TE 20)15-2	019	
		Ac	cide	nts			0)eath	s			lı	njurie	es	
			2017		2019			2017		2019		2016			2019
USA AK	306 3	350 1	323 1	309 7	330 1	122 3	133 1	118 1	119 10	128 1	258 0	335 0	255 0	275 5	279 0
AL	9	7	8	9	12	5	6	2	7	8	4	5	10	7	12
AR	4	2	4	1	3	2	2	1	0	1	5	0	7	1	0
AZ CA	8 16	11 11	2 14	9 11	8 16	2	3 3	2	4 5	0	9 13	12 20	0 17	17 13	6 18
CO	2	3	5	2	1	1	1	1	1	0	2	1	3	1	1
CT	3	3	4	2	6	0	1	5	0	1	4	5	1	2	1
DE DC	0	1	3	1	0	0	0	1	0	0	0	0	2	0	0
FL	30	31	39	29	40	11	14	14	6	18	21	25	35	20	26
GA	8	12	11	8	7	4	7	2	2	3	3	7	9	8	2
HI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IA ID	2	7	4 5	6 3	4	1	2 3	1	2	1	1 5	4 5	3	6 3	6 3
IL	9	10	7	7	9	5	1	3	4	8	8	4	4	2	6
IN	4	4	6	7	5	1	2	2	2	4	2	3	7	10	2
KS	2	6	4	1	2	1	2	0	0	1	3	5	5	4	3
KY LA	7	6 7	7	5 12	8 8	2	2	5 3	4	1	5 10	6 6	2 11	1	6 8
MA	6	7	3	6	6	3	2	3	1	0	4	2	1	6	8
MD	17	12	16	10	14	8	3	3	5	9	22	13	17	5	10
ME	1 6	6 10	6 9	4	3 17	1	2 7	4	1 3	2 5	0	7	2	1	0 13
MN	6 10	10	9 14	8	17	4	7 8	4	2	5 2	8	ь 11	3 12	4	4
MO	6	14	13	19	14	2	3	1	3	4	11	15	8	33	18
MS	1	8	1	5	0	0	3	1	1	0	1	6	0	7	0
MT NC	2 20	3 12	1 13	4 18	1 11	2	1	0	4	1	0 14	6 13	0 13	4 18	0 9
ND	20	0	4	1	0	4	0	3	1	0	4	0	1	1	0
NE	1	1	3	2	3	0	0	1	0	0	1	0	2	0	3
NH	1	2	3	3	1	1	0	0	1	0	0	2	1	0	1
NJ NM	3 0	4	1 0	4	2	0	0	0	0	2 0	3 0	6 0	1	2	0
NV	3	3	2	3	1	2	0	1	1	0	1	3	1	4	0
NY	14	18	12	15	11	3	6	1	3	2	7	24	16	13	17
OH	8 7	9	10 5	6 7	11 4	4	4	4	2	2	6 3	11 6	8 6	3	11 2
OK OR	7	4	5 1	4	4 5	3 4	1	3	3 2	4	3	6	0	7	2
PA	3	7	5	1	3	1	5	3	1	1	2	8	4	0	4
RI	3	3	2	0	0	0	0	2	0	0	6	1	1	0	0
SC SD	7	9 3	12 0	4	9 1	3 3	4	2	1	2 0	6 2	9 1	8 0	3	9 4
TN	10	11	9	8	9	3	5	2	3	1	3	10	3	6	7
ΤX	7	21	10	12	27	1	6	7	6	11	6	28	5	6	33
UT	2	5	1	4	5	0	1	0	3	2	5	10	1	3	6
VA VT	4	5 0	3 1	6 0	6 0	1 0	4	2	2	4	4	2	0	1 0	1
WA	11	10	9	8	17	5	3	5	5	9	12	8	3	4	14
WI	11	9	16	10	4	8	8	9	6	1	5	7	20	10	2
WV WY	4	6 1	2 1	2	1 0	0	0	1	2	1 0	14 0	5 0	1	1	0
AS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CNMI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PR VI	1 0	1	0	0	0	1 0	0	0	0	0	2	1	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

П

Table 9 - VESSE	EL OPERATION AT	THE TIME OF AC	CIDENT 2019
	Vessels Involved	Deaths	Injuries
Totals	5651	613	2559
At anchor	197	17	49
Being towed	34	1	2
Changing direction	706	41	371
Changing speed	580	26	282
Cruising	2233	180	1285
Docking/undocking	88	2	18
Drifting	525	125	221
Idling	51	3	29
Launching/loading	34	1	11
Rowing/paddling	246	137	121
Sailing	54	6	26
Tied to dock/moored	610	1	48
Towing	31	1	6
Trolling	31	5	9
Other	35	4	6
Unknown	196	63	75

Table	e 10 • VES	SEL AC		AT THE T	IME OF	ACCIE)ENT 20	19	
			De	aths			Ir	njuries	
	Vessels Involved	Total	Operator	Occupant	Other/ unknown role	Total	Operator	Occupant	Other/ unknown role
Totals	5651	613	375	201	37	2559	952	1202	405
Boating/relaxation	3628	323	203	110	10	1726	764	903	59
Commercial	52	0	0	0	0	5	3	2	0
Fishing	680	198	128	57	13	261	116	136	9
Fueling	19	0	0	0	0	22	7	15	0
Government	16	0	0	0	0	2	0	2	0
Hunting	38	8	6	2	0	33	14	16	3
Racing	29	3	2	1	0	18	9	9	0
Repairs	41	7	5	2	0	21	8	13	0
Starting engine	40	0	0	0	0	28	10	16	2
Swimming/snorkeling	80	34	11	21	2	41	1	34	6
Towed watersports	374	15	3	2	10	371	9	38	324
Towing	65	1	0	1	0	11	4	6	1
Whitewater	30	19	13	4	2	12	3	9	0
Other	31	5	4	1	0	7	4	2	1
None; not in operation	496	0	0	0	0	0	0	0	0
Unknown	32	0	0	0	0	1	0	1	0

	Table 11 • WEATHER AND WATER CON	DITIONS 20	19	
		Accidents	Deaths	Injuries
	1	4168	613	2559
	Lakes, Ponds, Reservoirs, Dams, Gravel Pits	1953	294	1234
	Rivers, Streams, Creeks, Swamps, Bayous	884	188	583
TYPE OF BODY OF WATER	Bays, Inlets, Marinas, Sounds, Harbors, Channels, Canals, Sloughs, Coves	864	70	485
OI WATER	Ocean/Gulf	341	46	188
	Great Lakes (not tributaries)	125	15	68
	Unknown	1	0	1
	Calm (waves less than 6")	2424	310	1556
	Choppy (waves >6" to 2')	1086	136	677
WATER CONDITIONS	Rough (waves >2' to 6')	358	54	162
CONDITIONS	Very Rough (waves larger than 6')	69	21	29
	Unknown	231	92	135
	None	347	46	247
	Light (0 - 6 mph)	2420	312	1565
	Moderate (7 - 14 mph)	903	114	538
WIND	Strong (15 - 25 mph)	274	53	103
	Storm (over 25 mph)	46	14	7
	Unknown	178	74	99
	Poor - Day	61	17	27
	Poor - Night	133	25	92
	Poor - Unknown if day or night	2	0	0
	Fair - Day	171	31	84
	Fair - Night	135	24	104
VISIBILITY	Fair– Unknown if day or night	4	3	3
VISIDILITY	Good - Day	3036	359	1880
	Good - Night	365	74	227
	Good- Unknown if day or night	3	2	0
	Unknown - Day	189	56	91
	Unknown - Night	51	15	42
	Unknown - Unknown if day or night	18	7	9
	39 degrees F and below	34	15	16
	40 - 49 degrees F	107	39	82
	50 - 59 degrees F	313	65	174
WATER	60 - 69 degrees F	662	87	352
TEMPERATURE	70 - 79 degrees F	1232	137	763
	80 - 89 degrees F	1002	125	687
	90 degrees F and above	22	3	16
	Unknown	796	142	469

	Table 12 • TIME RELA	TED DATA 201	9	
		Accidents	Deaths	Injuries
		4168	613	2559
	12:00 am to 2:30 am	103	20	64
	2:31 am to 4:30 am	32	11	9
	4:31 am to 6:30 am	71	12	45
	6:31 am to 8:30 am	96	18	47
	8:31 am to 10:30 am	253	41	126
	10:31 am 12:30 pm	472	63	237
Time of Day	12:31 pm to 2:30 pm	642	64	391
	2:31 pm to 4:30 pm	858	96	567
	4:31 pm to 6:30 pm	722	106	447
	6:31 pm to 8:30 pm	508	96	344
	8:31 pm to 10:30 pm	251	48	190
	10:31 pm to 11:59 pm	96	13	66
	Unknown	64	25	26
	January	87	16	53
	February	87	17	44
	March	154	33	91
	April	238	37	136
	Мау	472	68	270
Month of Year	June	682	119	357
Wonth of Tear	July	1002	119	711
	August	650	70	455
	September	410	58	234
	October	185	30	87
	November	115	32	76
	December	86	14	45
	Sunday	979	121	618
	Monday	366	52	228
	Tuesday	270	55	133
Day of Week	Wednesday	337	69	203
	Thursday	419	73	240
	Friday	549	85	293
	Saturday	1248	158	844

	Table 13 • VESSEL	INFORMATI	ON 2019	
		Vessels Involved 5651	Deaths 613	Injuries 2559
	Aluminum	947	167	449
	Fiberglass	4161	291	1920
	Plastic	194	81	81
Hull Material	Rubber/Vinyl/Canvas	60	29	32
	Steel	47	5	6
	Wood	55	4	15
	Other	5	0	3
	Unknown	182	36	53
	No Engine	354	180	166
	10 hp or less	109	30	54
	11 - 25 hp	127	32	54
Horsepower	26 - 75 hp	447	56	220
norsepower	10 - 150 hp	1066	77	540
	151 - 250 hp	747	56	354
	Over 250 hp	1123	55	477
	Unknown	1678	127	694
	2019	398	34	195
	2018	381	31	194
	2016 - 2017	459	34	248
Year Built	2014 - 2015	282	23	132
Teal Dulit	2012 - 2013	190	8	83
	2006 - 2011	649	59	294
	Prior to 2006	2653	245	1161
	Unknown	639	179	252
	Less than 16 feet	1508	252	806
	16 feet to <26 feet	2528	243	1299
Length	26 feet to <40 feet	833	46	251
Lengui	40 feet to 65 feet	365	11	69
	More than 65 feet	87	0	19
	Unknown	330	61	115

		Table 1	Table 14 - RENTA	FAL STATU	S OF VES	SSELS IN	VOLVED	STATUS OF VESSELS INVOLVED IN ACCIDENTS	ENTS			
		Ves	Vessels			Dea	Deaths			Injuries	ries	
	# of Vessels	Rented	Not Rented	Unknown if rented	# of Deaths	Rented	Not rented	Unknown if rented	# of Iniuries	Rented	Not rented	Unknown if rented
All Vessels	5651	597	3949	1105	613	41	418	154	2559	305	1815	439
Airboat	30	0	29	~	~	0	-	0	28	0	28	0
Auxiliary sailboat	237	7	192	38	14	0	11	3	61	5	47	6
Cabin motorboat	888	6	750	132	34	0	27	7	248	2	217	29
Canoe	66	8	42	16	39	5	23	11	45	4	31	10
Houseboat	73	13	37	23	3	٢	2	0	26	3	21	2
Inflatable	25	5	8	12	12	1	5	9	15	3	2	10
Kayak	179	12	111	56	86	4	52	30	76	8	43	25
Open motorboat	2510	115	1904	491	288	6	213	69	1246	52	959	235
Personal watercraft	1062	337	575	150	46	12	26	8	614	184	357	73
Pontoon	372	90	197	85	40	12	23	5	153	41	82	30
Rowboat	32	2	27	3	18	0	18	0	13	2	10	1
Sailboat (only)	29	0	24	5	4	0	2	2	10	0	8	2
Sailboat (unknown)	7	-	0	9	0	0	0	0	с	0	0	З
Standup paddleboard	15	1	11	3	12	0	9	3	3	1	2	0
Other	28	0	20	8	8	0	4	4	5	0	З	2
Unknown	98	0	22	76	8	0	2	6	13	0	5	8

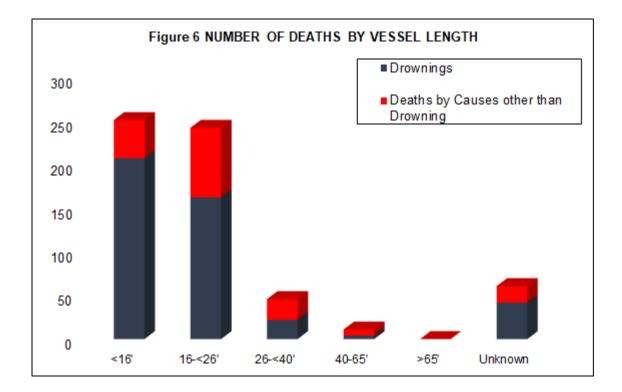


Table	15 • NUMBE	ER & PERCENT OF DE	ATHS BY VES	SEL LENGTH
Length	Drownings	Deaths by Causes other than Drowning	Total Deaths	Percent of Deaths from Drowning
<16'	208	44	252	83%
16-<26'	163	80	243	67%
26-<40'	22	24	46	48%
40-65'	4	7	11	36%
>65'	0	0	0	0%
Unknown	42	19	61	69%
Total	439	174	613	72%

ACCIDENT TYPES

Explanation of Accident Types Section

The following section contains six tables that examine data related to the events in accidents (termed "accident types"). The tables focus on these events and break down information by state, vessel type, vessel length, engine type, and propulsion.

In the Coast Guard's national database, there are four fields that can be used to define the series of events in an accident. By events, we mean the series of occurrences during an accident. If a wave broke over a vessel causing it to take on water, capsize, and eject its occupant, the Coast Guard would categorize this accident by three events. First, there was a flooding/swamping. Second, there was a capsizing. Third, there was an ejection.

With the exception of one table, the tables and figures in this report focus only on the first event in the sequence. The rationale for providing only the first accident type is to keep the tables simplistic; if we added the second, third, and fourth events in the boating sequence, our accident, casualty, and damage totals would not match up because they would be double-counting the accidents, casualties, and damages for cases that had more than one event.

Accident, Vessel & Casualty Numbers by Primary Accident Type (Table 16, Page 36)

This table focuses on the first event in a boating accident and provides information on the number of accidents, vessels, and casualties attributed to that first event. The deaths section is also separated by the categories drownings and non-drownings.

Five-year Summary of Frequency of Events in Accidents & Casualties Nationwide (Table 17, Pages 37-40)

As mentioned in the second paragraph, there are four fields that can be used to define the series of events in an accident. This table focuses on the first three events in an accident and the number of casualties associated with each event. The Coast Guard leaves out the fourth because it is not a standardized field.

Using the example in the opening paragraphs, the flooding/swamping would fall under the intersection of the column "First Event in an Accident" and the row "Flooding/swamping". The capsizing would be marked under the column "Second Event in an Accident" and the row "Capsizing". Finally, the ejection would be marked under the column "Third Event in an Accident" and the row "Ejected from Vessel".

This table focuses on the frequency that these events occurred nationally and the total number of deaths that were associated with each accident type. If we turn back to our example and focus on deaths as a result of flooding/swamping, we see that there were 399 accidents where flooding/swamping was the first event in the boating accident. There were 45 deaths associated with this first event type. However, there were other accidents that involved a flooding/swamping as a second or third occurrence. There were 246 accidents and 13 deaths associated with flooding/swamping as a second event and 58 accidents and 18 deaths associated with flooding/swamping as a third event. All combined, you get the sixth column of the table that looks at how many deaths were associated with an event that occurred either as the first, second, or third occurrence in an accident. Please note that in this table deaths are not separated by first, second and third event. In the example, there were 703 accidents and 76 deaths associated with flooding/swamping as a first, second, or third event.

This table can be difficult to understand, especially when the reader is under the expectation that the tallies of the casualty columns will equal the numbers published at the front of this report that reference the number of reportable accidents and deaths.

Number of Vessels in Accidents by Vessel Length & Primary Accident Type (Table 18, Page 41)

This table displays the types of accidents by the length of vessel. The table lists vessel length by foot for vessels of lengths 4 ft-39 ft. After 39 ft, information is categorized in ranges. This table also provides information about the number of casualties and vessels associated by length of vessel.

Number of Vessels in Accidents by Vessel Type & Primary Accident Type (Table 19, Page 42) This table examines the first event of a boating accident for all vessels involved in an accident. It also provides information about the casualties associated with each vessel type.

Number of Vessels in Accidents by Primary Accident Type & Propulsion Type (Table 20, Page 43) This table provides information about the number of vessels involved in accidents by primary accident type and propulsion type.

Number of Vessels with Propellers by Primary Accident Type & Engine Type (Table 21, Page 43) This table provides information about the number of casualties and vessels associated by primary accident type and engine type. This table is a subset of information from Table 20 and represents all vessels propelled by a propeller.

Table 16 - ACCIDENT,		L & CASUAL	TY NUMBER	VESSEL & CASUALTY NUMBERS BY PRIMARY ACCIDENT TYPE 2019	א Acciden	Т ТҮРЕ 2019	
	Accidents	Vessels Involved	Drowning Deaths	Other Deaths	Total Deaths	Total Injuries	Damages
All Accident Types	4168	5651	439	174	613	2559	\$55,320,226.25
Capsizing	242	256	112	17	129	107	\$1,004,103.00
Carbon monoxide poisoning	12	12	0	5	5	31	\$650.00
Collision with fixed object	493	610	32	12	44	326	\$10,415,847.56
Collision with floating object	68	77	ω	2	10	25	\$604,554.75
Collision with commercial vessel	21	43	2	0	2	17	\$287,840.00
Collision with governmental vessel	8	18	0	0	0	7	\$56,200.00
Collision with recreational vessel	1071	2233	5	42	47	650	\$10,960,016.59
Collision with submerged object	134	139	6	0	6	65	\$1,674,834.20
Departed vessel	67	100	46	2	53	74	\$106,283.01
Ejected from vessel	181	191	24	6	33	153	\$288,618.00
Electrocution	0	0	0	0	0	0	\$0.00
Fall in vessel	131	139	-	4	5	136	\$27,601.00
Falls overboard	299	315	148	41	189	122	\$110,101.19
Fire/explosion (fuel)	134	154	0	0	0	107	\$4,096,791.71
Fire/explosion (non-fuel)	59	63	2	0	2	12	\$5,962,305.00
Fire/explosion (unknown origin)	46	60	0	3	3	6	\$6,499,679.00
Flooding/swamping	399	427	36	6	45	124	\$7,233,449.00
Grounding	413	429	3	13	16	253	\$5,930,027.24
Person struck by propeller	39	39	۲	2	3	37	\$3,125.00
Person struck by vessel	19	22	0	0	0	22	\$0.00
Sinking	0	0	0	0	0	0	\$0.00
Skier mishap	259	273	8	5	13	279	\$9,650.00
Sudden medical condition	0	0	0	0	0	0	\$0.00
Other	43	51	2	3	5	42	\$48,550.00

Table 17 • FREQUENCY OF EVE	NTS IN	ACCIE	DENTS	5 & CAS	UALTIE		ONWIDE
						Inju	
	st Event in	nd Event i	d Event in	Total Times Event curred in all Accide	ns Associated witl in all Accidents	ies Associ	Damages , Event
2019	First Event in an Accident	Second Event in an Accident	Third Event in an Accident	Total Times Event Occurred in all Accidents	Deaths Associated with Event in all Accidents	Injuries Associated with Event in all Accidents	Damages Associated with Event in all Accidents
Capsizing	040		50	500			
	242				185		
Carbon monoxide poisoning	12		0	13		32	
Collision with fixed object	493		13		53		\$11,611,781.57
Collision with floating object Collision with commercial vessel	68		3	78	14	30	
	21	3	2	26		19	
Collision with governmental vessel	8		0	8	0		. ,
Collision with recreational vessel	1071	83	15		47		\$12,097,263.60
Collision with submerged object	134		0			59	
Departed vessel	97	41	7	145		69	. ,
Ejected from vessel	181	555	347	1083	277	910	
Electrocution	0		0	2	0	5	
Fall in vessel	131	252	43	426	26	637	\$7,903,634.68
Falls overboard	299	27	7	333	194	151	\$143,451.19
Fire/explosion (fuel)	134	5	0	139	0	107	\$4,123,621.71
Fire/explosion (non-fuel)	59	3	2	64	2	16	\$6,496,195.00
Fire/explosion (unknown origin)	46	0	0	46	3	9	\$6,499,679.00
Flooding/swamping	399	246	58	703	76	206	\$16,930,794.83
Grounding	413	56	20	489	25	294	\$6,792,155.24
Person struck by propeller	39	101	31	171	35	155	
Person struck by vessel	19		25			338	
Sinking	0						
Skier mishap	259	13	0	272	13	301	
Sudden medical condition	0		0	2	1	1	\$0.00
Other	43	11	3	57	5	55	\$68,550.00
Unknown	0	0					
2018	1						
Capsizing	266	223	62	551	214	269	\$4,245,361.27
Carbon monoxide poisoning	8	2	0	10	8	8	\$0.00
Collision with fixed object	470	84	17	571	71	348	\$8,793,679.73
Collision with floating object	59	5	0	64	11	26	
Collision with commercial vessel	25	0	1			18	
Collision with governmental vessel	6	3	0				
Collision with recreational vessel	1028	65	10				\$11,044,445.18
Collision with submerged object	151	1	0				
	101	I	U	192	10	40	ψ1,214,300.09

Table 17 Continued • FREQUENCY O	EVEN	NTS IN	ACCID	ENTS 8	k CASU	ALTIES	NATIONWIDE
2018 continued	First Event in an Accident	Second Event in an Accident	Third Event in an Accident	nt dents	Deaths Associated with Event in all Accidents	Injuries Associated with Event in all Accidents	Damages Associated with Event in all Accidents
Departed vessel	119		20				
Ejected from vessel	197						
	0		0	0	0	0	•
Fall in vessel	128		57	376			
Falls overboard	274					158	
Fire/explosion (fuel)	145	2	1	148	4	99	\$3,906,954.54
Fire/explosion (non-fuel)	70	3	0	73	0	11	\$6,235,940.37
Fire/explosion (unknown origin)	41	0	0	41	0	7	\$3,291,006.75
Flooding/swamping	443	244	78	765	105	227	\$13,031,049.80
Grounding	367	64	33	464	26	298	\$6,901,793.84
Person struck by propeller	45	107	25	177	25	177	\$80,388.70
Person struck by vessel	31	204	34	269	23	348	\$837,487.82
Sinking	0	144	87	231	20	45	\$6,343,604.00
Skier mishap	230	8	1	239	10	264	\$2,600.00
Sudden medical condition	0	0	0	0	0	0	\$0.00
Other	42	17	1	60	2	53	\$498,108.00
Unknown	0	0	0	0	0	0	\$0.00
2017 Capsizing	286	244	72	602	222	224	\$5,472,159.63
Carbon monoxide poisoning	200		1	11			
Collision with fixed object	470				68		
Collision with floating object							
Collision with commercial vessel	55		0	60 23			. ,
Collision with governmental vessel	19 6		2	23			. ,
Collision with recreational vessel	1145		2	1212			\$56,200.00 \$10,007,231.45
Collision with submerged object	141		0				
Departed vessel	93						
Ejected from vessel	173				330		
Electrocution	1	-	0.0	3			
Fall in vessel	154		58		23		
Falls overboard	306			349			
Fire/explosion (fuel)	157		- 2	164			
Fire/explosion (non-fuel)	81		1	84	0		
Fire/explosion (unknown origin)	33			34		5	
Flooding/swamping	435						\$17,383,750.97
. ieeanig/ottaniping	400	209	14	110	90	201	ψ11,303,130.91

Table 17 Continued - FREQUENCY OF	EVEN	ITS IN	ACCIE	DENTS &	CASU	ALTIES	NATIONWIDE
2017 continued	First Event in an Accident	Second Event in an Accident	Third Event in an Accident	Total Times Event Occurred in all Accidents	Deaths Associated with Event in all Accidents	Injuries Associated with Event in all Accidents	Damages Associated with Event in all Accidents
Grounding	368	50	15	433	24	262	\$5,773,401.27
Person struck by propeller	30	118	24	172	31	162	\$170,980.00
Person struck by vessel	23	253	31	307	38	403	\$1,087,437.00
Sinking	0	113	100	213	19	50	\$10,377,829.59
Skier mishap	259	18	1	278	16	290	\$14,134.00
Sudden medical condition	2	1	0	3	3	0	\$0.00
Other	45	9	3	57	1	54	
Unknown	0	0	0		0	0	
2016				•			
Capsizing	305	262	60	627	263	356	\$4,262,346.53
Carbon monoxide poisoning	8	2	1	11	6	13	\$5,000.00
Collision with fixed object	565	82	9	656	74	475	\$8,189,699.35
Collision with floating object	53	4	0	57	5	19	\$489,063.83
Collision with commercial vessel	31	3	0	34	5	23	\$696,484.58
Collision with governmental vessel	4	0	1	5	0	3	\$15,100.00
Collision with recreational vessel	1051	67	9	1127	42	747	\$9,587,374.22
Collision with submerged object	143	5	0	148	9	56	\$2,772,112.20
Departed vessel	121	58	16	195	96	88	\$1,018,112.00
Ejected from vessel	160	609	311	1080	319	969	\$7,122,482.55
Electrocution	2	0	0	2	2	1	\$0.00
Fall in vessel	170	284	52	506	25	693	\$3,956,127.78
Falls overboard	284	58	9	351	183	177	\$227,195.00
Fire/explosion (fuel)	158	10	2	170	2	138	\$3,054,056.00
Fire/explosion (non-fuel)	81	2	1	84	0	8	\$7,265,495.00
Fire/explosion (unknown origin)	34	0	0	34	1	10	\$5,198,480.00
Flooding/swamping	470						\$15,154,400.50
Grounding	413	55	23	491	16	299	\$7,128,476.37
Person struck by propeller	42	101	28	171	24	175	\$124,740.00
Person struck by vessel	32	220	31	283	24	367	\$889,104.49
Sinking	0	119	83	202	23	46	\$8,122,022.00
Skier mishap	278	19	3	300	11	316	\$47,490.00
Sudden medical condition	10	1	0	11	9	2	\$700.00
Other	48	28	5	81	6	66	
Unknown	0	0	0	0	0	0	\$0.00

Recreational Boating Statistics 2019

Table 17 Continued - FREQUENCY O	F EVE	NTS II	N AC	CCII	DENTS &	& CASU	IALTIES	NATIONWIDE
2015	First Event in an Accident	Second Event in an Accident	Third Event in an Accident		Total Times Event Occurred in all Accidents	Deaths Associated with Event in all Accidents	Injuries Associated with Event in all Accidents	Damages Associated with Event in all Accidents
Capsizing	299		1	56		226		
Carbon monoxide poisoning	12		0	1				. ,
Collision with fixed object	470	-	_	10	553	62	385	\$5,195,040
Collision with floating object	61		5	1		11	29	
Collision with commercial vessel	29	. (4	0		4	13	\$954,100
Collision with governmental vessel	4	-	0	0		0	1	\$47,000
Collision with recreational vessel	990	5	9	6	1055	37	650	\$6,575,775
Collision with submerged object	127		2	0	129	8	56	\$1,973,274
Departed vessel	86	3	9	13	138	70	57	\$308,765
Ejected from vessel	172	57	6 3	369	1117	316	931	\$5,696,172
Electrocution	1		1	0	2	0	3	\$44,000
Fall in vessel	146	26	8	43	457	22	682	\$3,837,367
Falls overboard	259	3	3	4	296	169	125	\$234,191
Fire/explosion (fuel)	174		4	0	178	3	136	\$3,878,941
Fire/explosion (non-fuel)	67		4	0	71	0	7	\$6,007,411
Fire/explosion (unknown origin)	24	-	1	0	25	0	6	\$5,875,925
Flooding/swamping	449	23	1	56	736	82	216	\$13,574,146
Grounding	350) 5	6	32	438	30	312	\$5,706,612
Person struck by propeller	42	9	4	22	158	27	150	\$106,485
Person struck by vessel	36	22	8	16	280	35	347	\$780,330
Sinking	C	10	9	75	184	27	35	\$5,798,853
Skier mishap	301	1	2	2	315	13	338	\$13,590
Sudden medical condition	2	2	0	0	2	0	2	\$0
Other	57	′ 1	0	0	67	3	56	\$83,443
Unknown	C)	0	0	0	0	0	\$0

Table 18 - NUMBER OF VESSELS IN ACCIDENTS BY VESSEL LENGTH & PRIMARY ACCIDENT TYPE Total Carbon Coll Coll Coll Coll Coll Coll Coll Co																														
	Total vessels involved	Capsizing	Carbon monoxide poisoning	Collision with fixed object	Collision with floating object	Collision with commercial vessel	Collision with governmental vessel	Collision with recreational vessel	Collision with submerged object	Departed vessel	Ejected from vessel	Electrocution	Fall in vessel	Falls overboard	Fire/explosion (fuel)	Fire/explosion (non-fuel)	Fire/explosion (unknown)	Flooding/ swamping	Grounding	Person struck by propeller	Person struck by vessel	Sinking	Skier mishap	Sudden medical condition	Other	Unknown	Drownings	Other Deaths	Total Deaths	Injuries
All lengths	5651	256	12	610	77	43	18	2233	139	100	191	0	139	315	154	63	60	427	429	39	22	0	273	0	51	0	439	174	613	2559
5 feet	0	0		0	0	0	0	0	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0		0	0	0
6 feet	12	4	0	1	0	0	0	4	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	7	0	7	0
7 feet	19	2	0	-	0	0	0	5	0	0	2	0	1	2	1	1	0	1	1	0	0	0	0	0	0	0	5	0	5	11
8 feet	81	15	0	5	0	0	0	31	1	1	6	0	3	13	0	0	0	2	1	0	2	0	1	0	0	0	16	7	23	38
9 feet	113	10	0	8	2	0	0	63	2	1	7	0	2	9	2	0	0	1	2	0	2	0	2	0	0	0	19	3	22	56
10 feet	496	38	0		2	1	1	278	2	7	46	0	12	30	5	0	0	15	18	0	3	0	6	0	-	0	45	12	57	258
11 feet	379	8	0	24	0	2	0	223	4	2	42	0	19	30	1	1	0	1	7	0	2	0	11	0	2	0	12	7	19	245
12 feet	140	28	0	16	3	0	0	32	4	1	12	0	3	16	0	0	0	-	4	0	0	0	1	0	2	0	38	4	42	76
13 feet	38	8	0	2	1	0	0	15	1	0		0	0	4	1	0	0	3	2	0	0	0	0	0	0	0	5	1	6	18
14 feet	129	20			2	0	0	18	7	3	5	0	1	17	2	1	0	30	6	1	0	0	1	0	1	0	46	8	54	58
15 feet	101	12	0	11	1	0	0	24	12	1	3	0	1	4	0	1	0	24	6	0	0	0	1	0	0	0	15	2	17	46
Under 16 ft	1508	145	0	113	11	3	1	693	33	16	125	0	42	127	12	4	0	95	47	1	9	0	23	0	8	0	208	44	252	806
16 feet	202	16	0	21	3	2	0	47	6	3	10	0	0	19	5	0	1	42	18	1	2	0	5	0	1	0	30	6	36	124
17 feet	243	15			5	1	0	63	10	1	-		9	17	6	1	3	-	17	6	2	0	14	0	1	0	23	11	34	147
18 feet	305	11	-	-	5	2	0	98	12	5	-	-	9		13	3	1	30	26	1	0	0	26	0	2	0	13	12	25	135
19 feet	248	8		13	6	1	0	71	6	6			5		12	3	1	23	32	2	0	0	40	0	-	0	20	10	30	127
20 feet	379	3			7	0	0		18	10		-			9	3	2		29	10	2	0	32	0		0	26	14	40	181
21 feet	302	4		37	4	1	1	91	5	6			4	-	14	4	0	38	35	1	1	0	32	0		0	14	7	21	150
22 feet	258	4		-	4	1	1	113	6	5			9		5	2	2	16	15	3	0	0	24	0	-	0	17	2	19	114
23 feet	201	0		22	4	1	1	73	4	8		0	9		12	1	0	11	24	4	1	0	17	0		0	7	6	13	104
24 feet	255	0		31	6	1	1	84	8	8			7	14	10	2	2	18	29	4	1	0	24	0		0	10	10	20	129
25 feet	135	2	0	20	1	5	0	49	6	4	3	0	5	5	2	1	2	5	11	1	0	0	10	0	3	0	3	2	5	88
16 ft to less than 26 ft	2528	63	5	282	45	15	4	818	81	56	48	0	71	133	88	20	14	259	236	33	9	0	224	0	24	0	163	80 2	243	1299
26 feet	115	1			0	1	2		2	5						1	0		16	0	0	0		0		0		2	7	46
27 feet	84	3			2	0	0		4	1	-	0	-		7	4	1	5	6	0	0	0	2	0		0		2	4	19
28 feet	76	0			1	0	1	31	1	0	-	-			5	1	4	6	7	0	1	0	-	0		0		1	2	30
29 feet	47	0			0	0	2		1	3		-			2	1	1	-	3	1	0	0		0	-	0		1	2	18
30 feet	70 49	0		-		0	1	31 28	1 0	3		-	3		1	2	2	4	6 7	0	0	0	2 0	0		0	v	0	6	28
31 feet	49 64	0	-	5 6	0	1	1	28 32	0	0	-	-			2	2	3	5	7 9	0	0	0	0	0		0	Ŭ	3	1	22
32 feet	64 53	-		-	1	0	0	32	0	0	-	0	0		2	∠ 1	3		9	0	0	0	1	0		0	0	3	4	22 11
33 feet 34 feet	53 54	0	-		1	2	0		1	2		0	-		3	1	2		0 4	0	0	0	0	0	-	0	v	5	8	10
35 feet	52	-		7	0	0	0	19	0	1		0	5		0	2	4	2	4	0	0	0	-	0		0	-	3	4	19
36 feet	53			-	2	1	0	23	0	. 1	0	-			2	4	1	1	9	1	0	0	1	0		0	2	2	4	16
37 feet	42	0	-	-	1	0	1	23	4	. 0	-	-			2	0	0	0	6	0	0	0	0	0	-	0	0	0	0	11
38 feet	40	1			0	0	0		0	0	-	-	1		1	3	0	-	4	0	0	0	0	0		0	0	1	1	3
39 feet	34	1	0		0	0	0		1	0			0	0	0	1	0	0	4	1	0	0	0	0	0	0	0	2	2	11
26 ft to less than 40 ft	833	8	4	108	10	6	8	377	15	16	5	0	19	19	34	23	20	41	94	3	1	0	12	0	10	0	22	24	46	251
40 ft to 65 ft	365			60	7	10	3	-	7	3		-			16	13	-	7	42	0	0	0	0	0		0	-	7	11	69
Over 65 ft	87	1	2	20	0	7	1	47	0	1	0	0	0	0	1	1	1	3	2	0	0	0	0	0	0	0	0	0	0	19
Unknown	330	37	0	27	4	2	1	136	3	8	13	0	4	32	3	2	4	22	8	2	3	0	14	0	5	0	42	19	61	115

Accident Types

Table 19 - NUMBER OF VESSEL IN ACCIDENT S BY VESSEL TYPE & PRIMARY ACCIDENT TYPE & UNMER OF VESSEL IN ACCIDENT S BY CASUALTYPE & PRIMARY ACCIDENT TYPE & VESSEL IN ACCIDENT S BY CASUALTYPE & PRIMARY ACCIDENT S BY CASUALTYPE & PRIMARY ACCIDENT S BY CASUALTYPE & PRIMARY ACCIDENT S BY CASUALTYPE & VESSEL IN ACCIDENT S BY S B		Injuries	െ	ß	-	8	2	G	2	G	G	4	С	З	0	e	С	5	Э
Table 19 - NUMBER OF VESSEL TYPE & PRIMARY ACCIDENT TYPE & VESSEL TYPE & PRIMARY ACCIDENT TYPE & VESSEL TYP	-	injunes	255	28	61	248	45	26	15	76	1246	614	153	-	-				÷
Table 19 - NUMBER OF VESSELS IN Grounding Decomposition of the second second second seco	Ę	Total deaths	3	-	14	34	39	3	12	86	288	46	40	18	4	0	12	8	8
Table 19 - NUMBER OF VESSELS IN Grounding Decomposition of the second second second seco	S Ш	Deaths by causes other than drowning		0	9	20	5	З	-	13		22	8	2	2	0	2	0	З
Table 19 - NUMBER OF VESSELS IN Grounding Decomposition of the second second second seco	Ϋ́Ρ	Drownings	391	-	8	14	34	0	11	73	01	24	32	16	2	0	10	8	5
Table 19 - NUMBER OF VESSELS IN Accoller Second and accoller Seco	L L	Unknown		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Table 19 - NUMBER OF VESSELS IN Accoller Second and accoller Seco) EN		51	0	2	8	-	З	0	2	25	5	2	0	2	0	0	0	-
Table 19 - NUMBER OF VESSELS IN Accoller Second and accoller Seco		Sudden medical condition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Table 19 - NUMBER OF VESSELS IN Grounding Decomposition of the second second second seco	A A A A	Skier mishap	273	0	0	1	0	0	0	0	212	23	25	0	0	0	0	0	2
Table 19 - NUMBER OF VESSELS IN Accoller Second and accoller Seco	ARY TYI	Sinking		0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Table 19 - NUMBER OF VESSELS IN Accoller Second and accoller Seco		Person struck by vessel	22	0	0	0	0	0	0	0	∞	10	2	0	0	0	0	0	2
Table 19 - NUMBER OF VESSELS IN ACCIDENTS BY VESSEL TYPE Table 19 - NUMBER OF VESSELS IN ACCIDENTS BY VESSEL TYPE & NUMBER OF VESSELS IN ACCIDENTS BY VESSEL TYPE & NUMBER OF VESSELS IN ACCIDENTS BY VESSEL TYPE & NUMBER OF VESSELS IN ACCIDENTS BY VESSEL TYPE & NUMBER OF VESSELS IN ACCIDENTS BY VESSEL TYPE & NUMBER OF VESSELS IN ACCIDENTS BY VESSEL TYPE & NUMBER OF VESSELS IN ACCIDENTS BY VESSEL TYPE & NUMBER OF VESSELS IN ACCIDENTS BY VESSEL TYPE & NUMBER OF VESSELS IN ACCIDENTS BY VESSEL TYPE & NUMBER OF VESSELS IN ACCIDENTS BY VESSELS IN ACCIDENTS BY VESSELS IN ACCIDENTS BY VESSEL TYPE & NUMBER OF VESSELS IN ACCIDENTS BY VESSELS IN ACCIDENTS BY VESSELS IN ACCIDENTS BY VESSELS IN ACCIDENTS BY VESSEL TYPE & NUMBER OF VESSELS IN ACCIDENTS BY VESSEL TYPE & NUMBER OF VESSELS IN ACCIDENTS BY VESSELS IN ACCIDENT AND INTOUCHER AND AND ACCIDENTS BY VESSELS IN ACCIDENT AND A	ESS	Person struck by propeller	6	0	0	3	0	0	0	0	8	0	7	0	0	0	0	0	-
Table 19- NUMBER OF VESSELS IN ACCIDENTS BY VESSELS IN ACCIDENTS BY VESSELS IN ACCIDENTS BY CASUALTY TY UNIVER OF CASUALTY TY Elice/explosion (non-line) List of the constraint of the constener of the constraint of the constraint of the constraint of the	ш «З			9				-					7	1				1	5
Table 19- NUMBER OF VESSELS IN ACCIDENTS BY VESSELS IN ACCIDENTS BY VESSELS IN ACCIDENTS BY CASUALTY TY UNIVER OF CASUALTY TY Elice/explosion (non-line) List of the constraint of the constener of the constraint of the constraint of the constraint of the	PET	-									22								
Table 19 - NUMBER OF VESSELS IN ACCIDENTS BY VESSELS IN ACCIDENTS BY VESSELS IN ACCIDENT Selection (unu-line) Like / (number OF Vessels II) Like (action of the context of	⊒≿	Flooding/swamping	427	ŝ	10	39	2	က	-	10	316	9	15	4	0	0	0	3	80
Table 19 - NUMBER OF VESSELS IN ACCIDENT NUMBER OF CASUALTIES BY NUMBER OF CASUALTIES BY NU	SSI	Fire/explosion (unknown origin)	60	0	7	32	0	2	0	0	14	0	3	0	0	0	0	0	2
Table 19 - NUMBER OF VESSELS IN ACCIDENT NUMBER OF CASUALTIES BY NUMBER OF CASUALTIES BY NU	AL AL	Fire/explosion (non-fuel)	63	0	∞	24	0	2	0	0	27	0	-	0	0	0	0	1	0
Table 19 - NUMBER OF VESSELS IN ACCIDENT NUMBER OF CASUALTIES BY NUMBER OF CASUALTIES BY NU	BY ASI	Fire/explosion (fuel)	54	-	2	45	0	∞	0	0	82	10	4	0	0	0	0	0	2
Table 19 - NUMBER OF AL Interpretation of the second state of the secon	NTS SY C	Falls overboard		0	11	12	6	-	7	31	29	58	36	7	-	-	11	-	5
Table 19 - NUMBER OF AL Interpretation of the second state of the secon	IDE S B	Fall in vessel		0	4	8	0	0	0	0	~	39	9	0	1	0	0	0	2
Table 19 - NUMBER OF AL Interpretation of the second state of the secon	S≡.			0	0	0	0	0	0	0			0	0	0	0	0	0	0
Table 19 - NUMBER OF AL Interpretation of the second state of the secon	N A NAL		-	0	-	33	0	0	33	2	7	0	4	0	1	0	0	0	-
Table 19 - NUMBER OF AL Interpretation of the second state of the secon	-S I ASI		019	0	0	9	e	2	0	-		1	0	0	0	0	0	2	-
Table 19 - NUMBER OF AL Interpretation of the second state of the secon			10								-								
Table 19 - NUMBER 0 Collision with locicational vessel Seliboat Seliboat </td <th></th> <td>Collision with submerged object</td> <th></th> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>		Collision with submerged object		-	-										-	0	0	0	0
Table 19 - NUMBER Of the collision with downmental nessel Collision with downmental nessel Sailboat 23 3 <th>L W</th> <td>Collision with recreational vessel</td> <th>233</th> <td>5</td> <td></td> <td>382</td> <td>2</td> <td>38</td> <td>1</td> <td>13</td> <td>801</td> <td>659</td> <td></td> <td>4</td> <td>8</td> <td>1</td> <td>2</td> <td>7</td> <td>44</td>	L W	Collision with recreational vessel	233	5		382	2	38	1	13	801	659		4	8	1	2	7	44
Table 19 Table 19 MI Collision with commercial nessel 2 1	U M	Collision with governmental vessel		0	2		0	0	0	0			1	0	1	0	0	2	0
Selection Selection als 5651 25 als 5651 25 at 73 1 torboat 888 30 at 73 1 torboat 888 372 at 73 1 torboat 2510 5 at 73 1 torboat 32 1 at 7 1 torboat 166 3 at 7 1 at 7 1	ABE N			0	e	-	0	0	0	0	7	4	7	0	0	0	0	5	-
Selection Selection als 5651 25 als 5651 25 at 73 1 torboat 888 30 at 73 1 torboat 888 372 at 73 1 torboat 2510 5 at 73 1 torboat 32 1 at 7 1 torboat 166 3 at 7 1 at 7 1	NUN			0	4		7	-	0	0	-	2	З	0	0	0	0	0	е
Selection Selection als 5651 25 als 5651 25 at 73 1 torboat 888 30 at 73 1 torboat 888 372 at 73 1 torboat 2510 5 at 73 1 torboat 32 1 at 7 1 torboat 166 3 at 7 1 at 7 1	-6			6	33		9	7	-	0		7	5	5	2	1	2	5	11
Selection Selection als 5651 25 als 5651 25 at 73 1 torboat 888 30 at 73 1 torboat 888 372 at 73 1 torboat 2510 5 at 73 1 torboat 32 1 at 7 1 torboat 166 3 at 7 1 at 7 1	e 19		261			3 15					3 25				0	0	0	0	2
Selection Selection als 5651 25 als 5651 25 at 73 1 torboat 888 30 at 73 1 torboat 888 372 at 73 1 torboat 2510 5 at 73 1 torboat 32 1 at 7 1 torboat 166 3 at 7 1 at 7 1	abl								0										
Signation Selection	F	Capsizing	256	3	11	7	31	0	7	96	52	18	2	9	10	4	0	1	5
electronic control of the second control of		All accident types	351	30	237	88	99	73	25	79	510)62	372	32	29	7	15	28	98
essels eat bat liary sailboat n motorboat n motorboat seboat seboat ik notorboat n motorboat on oat (unknown) dup paddleboard			56		~	ω				-	25	10	(1)						
			All vessels	Airboat	Auxiliary sailboat	Cabin motorboat	Canoe	Houseboat	nflatable	Kayak	Open motorboat	Personal watercraft	Pontoon	Rowboat	Sailboat (only)	Sailboat (unknown)	Standup paddleboard	Other	Unknown

Accident Types

	Injuries	2559	28	156	676	10	663	26			Injuries	366	950	0	333	27
	Total deaths	S	-	76	~	4		6			Total deaths	46	287	0	36	4
ш	Other deaths	746	0	231	233	2	23	З	Ц	J	Other deaths	25	76	0	19	С
TΥΡΙ	Drownings	43917461	٢	153	250123373	2	27	9	TVDF	-	Drownings	21	211	0	17	~
NO	Unknown		0	0	0	0	0	0	ENGINE		Unknown	0	0	0	0	0
มี	Other	51	0	ю	36	2	7	З	C N		Other	6	1		12	
PUI	Sudden medical condition	0	0	0	0	0	0	0	Ц «	۲.	Sudden medical condition	0	0	0	0	0
PROPULSION	Skier mishap	273	0	0	235	0	34	4	TVDF		Skier mishap	81	87	0	65	7
ø	Sinking						0	0			Sinking	0	0	0		
ТҮРЕ	Person struck by vessel	22	0	0	11	0	10	-	DPIMARY ACCIDENT		Person struck by vessel	2	9			2
	Person struck by propeller	39	0	0	39	0	0	0			Person struck by propeller	11	17	0	10	-
IDE	Grounding	429	9	5	363	2	44	9	N N		Grounding	130	151	0	78	4
ACCIDENT	Flooding/swamping	427	5	24	374	0	12	12			Flooding/swamping	56	282	0	ო	4
	Fire/explosion (unknown origin)	60	0	0	55	0	-	4			Fire/explosion (unknown origin)	34	6	0		5
BY PRIMARY	Fire/explosion (non-fuel)	63	0	-	59	0	2	-	Ž	נ	Fire/explosion (non-fuel)	30	14	0	13	2
ΥΡF	Fire/explosion (fuel)	154	-	0	137	0	14	2			Fire/explosion (fuel)	61	24	0	51	~
	Falls overboard	315 1	0	62		1	60	6			Falls overboard	15	151	0	17	Э
ACCIDENTS	Fall in vessel	139 3	0	0	91	1	44	3		2	Fall in vessel	15	52	0	23	~
CID	Electrocution	0	0	0	0	0	0	0			Electrocution	0	0	0	0	0
	Ejected from vessel	191	0	5	65	1	119	-			Ejected from vessel	4	56	0	4	~
ELS IN	Departed vessel	100	0	9	85	0	8	1			Departed vessel	13	60	0	1	-
S	Collision with submerged object	139	-	7	118	1	10	2			Collision with submerged object	29	77	0	12	0
OF VES	Collision with recreational vessel		5				689			× .	Collision with recreational vessel	453	752	0	203	27
	Collision with governmental vessel	18 2	0	0							Collision with governmental vessel	5	6	0	-	0
NUMBER	Collision with commercial vessel	43	0	0	34	0	2	7	NIMBER		Collision with commercial vessel	7	21	0	9	0
NU	Collision with floating object	77	0	2	63	0	8	4	Z		Collision with floating object	12	36	-	13	-
20 -	Collision with fixed object	610	6	45	464	2	74	16	0.01	1 1 2	Collision with fixed object	138	244	0	75	7
Table	Carbon monoxide	12	0	0		0	0	ю	Tahlo	20	Carbon monoxide	9	٦	0	-	~
F	Capsizing	256	с	144	71	10	18	10			Capsizing	4	64	0	~	2
	Total vessels involved	5651	30	325		29	1158	164			Total vessels involved	1115	2128	~	636	65
					(1)		~				, De				0	
		Types	hrust	la	eller		r Jet	NNO			F naine Tvoe	ard	oard	drive	Jdrive	UMOL
			Air Thrust	Manua	Propeller	Sail	Water Jet	Unknown			ц. Ц	Inboard	Outboard	Pod drive	Sterndrive	Unknown
		-	~			57	~				·				1	لــَـــ

OPERATOR & PASSENGER INFORMATION

Explanation of Operator/Passenger Information Section

The following section contains eleven tables and figures that examine data relating to the operators and passengers in accidents. Information is displayed by age, boating safety instruction, type of injury, and cause of death.

Operator Information (Table 22, Page 46)

This table provides information about the operator. Information covers a variety of topics including age, operator's experience, number of people onboard the vessel, and the boating safety instruction level of the operator.

Examples of "other" boating safety instruction include licenses issued by the Coast Guard, military training, police academy training, rental operator training, commercially-available courses, and camp training. Informal training signifies that the operator did not receive formal instruction, but rather learned from experience.

Number of Deaths by Type of Operator Boating Instruction (Table 23 & Figure 7, Page 47)

This table and accompanying figure focus on boating safety instruction for those operators who had a person die on their vessel. The table and figure both focus on instruction provided by the U.S. Coast Guard Auxiliary, U.S. Power Squadrons, American Red Cross, and state sources. The figure examines only deaths where the operator instruction was known.

Number of Deaths by Vessel Type (Table 24 & Figure 8, Page 48)

This table documents deaths by vessel type with a focus on drownings. It also provides the percentage of deaths by drowning by type of vessel.

Percentage of Deaths by Vessel Type, 2005-2019 (Figure 9 & Table 25, Page 49)

This table and accompanying figure focus on the percentage of deaths that occurred on each vessel type for the past ten years. The figure may be interpreted by measuring the upper and lower bounds of the color-coded vessel type to obtain the percentage of deaths attributed to that vessel type within the year.

Please note that the percentages in the table have been rounded up.

Number of Deceased Victims by Age & Vessel Type (Table 26 and Figure 9a, Pages 50 and 51)

This table documents the age of fatal accident victims by vessel type, and delineates the number of drownings, non-drownings, and total deaths by age. The accompanying figure charts the percent of deceased victims by age group and vessel type.

Percent of Injured Victims by Age & Vessel Type (Figure 9b and Table 27, Pages 51 and 52)

This figure charts the percent of injured victims by age group and vessel type, and the accompanying table documents the age of injured victims by vessel type.

Nature of Primary Injury Type by Area of Injury 2019 (Table 28, Page 53)

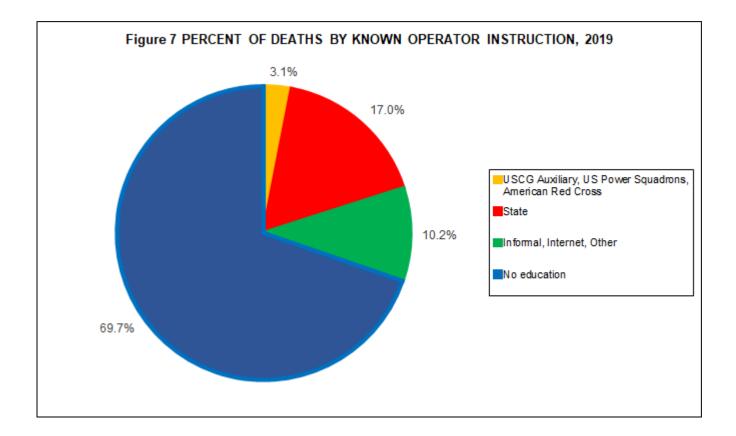
This table focuses on the nature and area of the primary injury of injured victims.

Number of Injured Victims under Age 18 by Age Group and Injury Type on Personal Watercraft, 2019 (Figure 10, Page 53)

This figure focuses on the number of injured victims from personal watercraft for specific age groups and by type of injury.

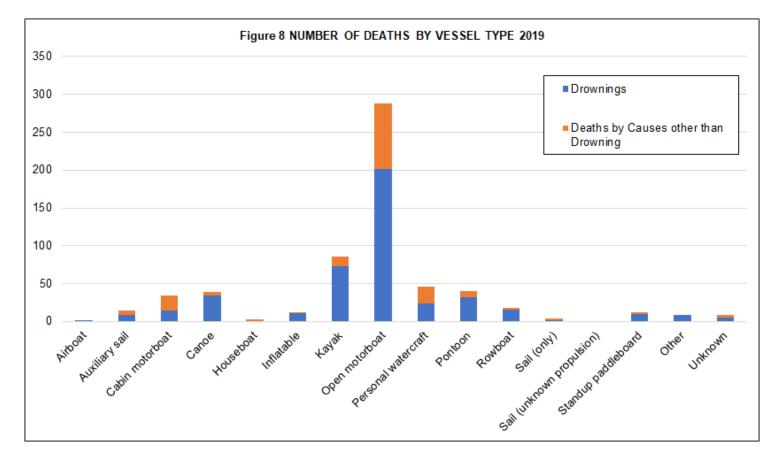
Table 2	2 • OPERATOR INFO	ORMATIO	N 2019	
		Vessels Involved 5651	Deaths 613	Injuries 2559
	12 years and under	19	5	15
	13 to 18 years	219	13	123
	19 to 25 years	580	50	324
	26 to 35 years	766	99	411
Age of Operator	36 to 55 years	1701	196	902
	Over 55 years	1297	206	610
	Unknown	343	37	119
	No operator	726	7	55
	No Experience	46	3	22
	Under 10 hours	483	46	231
	10 to 100 hours	1007	88	574
Operator's Experience	101 to 500 hours	1537	144	788
	Over 500 Hours	537	39	278
	Unknown	1315	286	611
	No Operator	726	7	55
	None	432	0	0
	One	1809	244	558
	Two	1438	193	726
	Three	540	58	358
	Four	430	46	275
	Five	242	16	165
Number of Persons on	Six	194	11	149
Board	Seven	96	11	62
	Eight	90	13	102
	Nine	48	4	47
	Ten	41	5	26
	More than 10	74	8	66
	Unknown	217	4	25
	American Red Cross	9	0	0
	Informal	181	13	106
	Internet Course	158	11	98
	State Course	895	50	454
Education of Onerctor	US Power Squadrons	42	1	13
Education of Operator	USCG Auxiliary	126	8	67
	Other	124	6	48
	No Education	1928	205	1010
	Unknown	1462	312	708
	No Operator	726	7	55

Table 23 • NUMBER OF DEATHS OPERATOR BOATING INSTRUC	
Type of Boating Instruction	Deaths
American Red Cross	0
Informal	13
Internet Course	11
State Course	50
US Power Squadrons	1
USCG Auxiliary	8
Other	6
No Education	205
Total Deaths - Known Operator Instruction	294
Total Deaths - Unknown Operator Instruction	312
Total Deaths - No Operator	7
Total Deaths - Known & Unknown Operator Instruction	613



Recreational Boating Statistics 2019

Ta	ble 24 • NUMBE	R OF DEATHS BY VI	ESSEL TYPE 2019)
Vessel type	Drownings	Deaths by Causes other than Drowning	Total Deaths	Percentage of Deaths from Drowning
Airboat	1	0	1	100%
Auxiliary Sailboat	8	6	14	57%
Cabin Motorboat	14	20	34	41%
Canoe	34	5	39	87%
Houseboat	0	3	3	0%
Inflatable	11	1	12	92%
Kayak	73	13	86	85%
Open Motorboat	201	87	288	70%
Personal Watercraft	24	22	46	52%
Pontoon	32	8	40	80%
Rowboat	16	2	18	89%
Sailboat (only)	2	2	4	50%
Sailboat (unknown)	0	0	0	0%
Standup paddleboard	10	2	12	83%
Other	8	0	8	100%
Unknown	5	3	8	63%
Total	439	174	613	72%



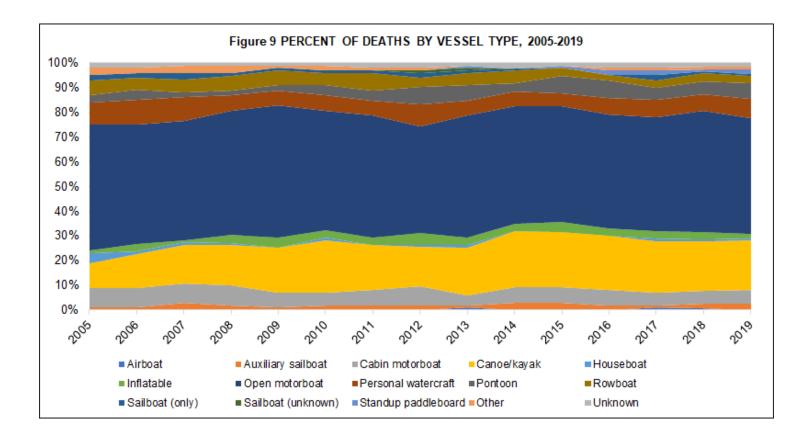
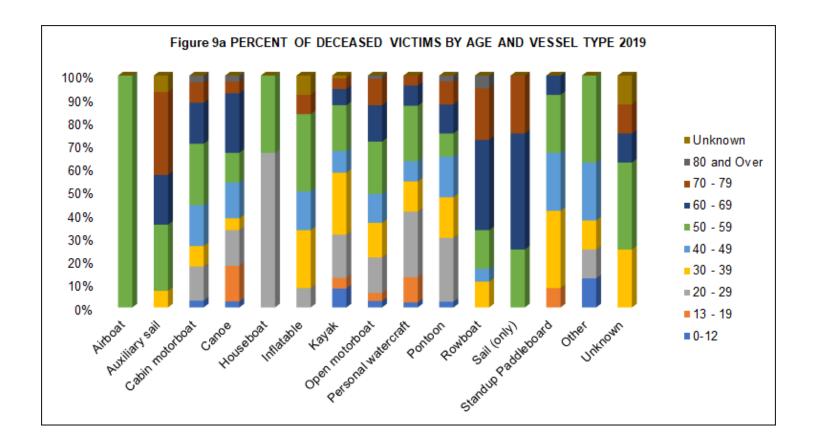


Table 25 • PERCENT OF DEATHS BY VESSEL TYPE, 2005-2019															
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Airboat	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	1%	1%	0%
Auxiliary sailboat	1%	1%	3%	2%	1%	2%	2%	2%	1%	3%	3%	2%	1%	2%	2%
Cabin motorboat	8%	8%	8%	8%	6%	5%	6%	8%	4%	6%	6%	6%	5%	5%	6%
Canoe/kayak	10%	14%	16%	16%	18%	21%	18%	16%	19%	22%	22%	22%	21%	20%	20%
Houseboat	4%	1%	1%	1%	0%	1%	0%	1%	1%	0%	0%	0%	1%	0%	0%
Inflatable	1%	3%	1%	3%	4%	3%	3%	5%	3%	3%	4%	3%	3%	3%	2%
Open motorboat	51%	49%	49%	50%	53%	48%	49%	44%	49%	46%	46%	46%	46%	49%	47%
Personal watercraft	9%	10%	10%	6%	6%	6%	6%	9%	6%	6%	5%	7%	7%	7%	8%
Pontoon	3%	4%	2%	2%	2%	4%	4%	7%	6%	3%	7%	7%	5%	6%	7%
Rowboat	6%	5%	5%	6%	6%	5%	7%	4%	5%	5%	3%	2%	3%	3%	3%
Sailboat (only)	2%	2%	3%	1%	1%	1%	1%	2%	1%	1%	0%	0%	2%	1%	1%
Sailboat (unknown)	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%
Standup paddleboard	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	1%	2%	2%	1%	2%
Other	3%	2%	3%	3%	1%	2%	1%	1%	0%	0%	0%	1%	1%	1%	1%
Unknown	2%	2%	1%	1%	1%	1%	2%	2%	1%	2%	1%	2%	2%	1%	1%

Table 2	6 • N	IUMI	BER	OF	DEC	EA	SED	VIC	тім	S BY	′ AG	E Al	ND V	ESS	SEL	ТҮР	PE 20)19	
							Тур	be of	Ves	sel							Dro	Ott	Tot
Age of Deceased Victim	Airboat	Auxiliary sailboat	Cabin motorboat	Canoe	Houseboat	Inflatable	Kayak	Open motorboat	Personal watercraft	Pontoon	Rowboat	Sailboat (only)	Sailboat (unknown)	Standup paddelboard	Other	Unknown	Drownings	Other deaths	otal deaths
Total	1	14	34	39	3	12	86	288	46	40	18	4	0	12	8	8	439	174	613
1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	1	2
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1
4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1
5	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	3	1	4
6	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1
7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1
8	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	2
9	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	1	2
10	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1
11	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
12	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	1	3	4
0-12	0	0	1	1	0	0	7	8	1	1	0	0	0	0	1	0	11	9	20
13 - 19	0	0	0	6	0	0	4	10	5	0	0	0	0	1	0	0	16	10	26
20 - 29	0	0	5	6	2	1	16	44	13	11	0	0	0	0	1	0	69	30	99
30 - 39	0	1	3	2	0	3	23	43	6	7	2	0	0	4	1	2	71	26	97
40 - 49	0	0	6	6	0	2	8	36	4	7	1	0	0	3	2	0	61	14	75
50 - 59	1	4	9	5	1	4	17	65	11	4	3	1	0	3	3	3	93	41	134
60 - 69	0	3	6	10	0	0	6	45	4	5	7	2	0	1	0	1	66	24	90
70 - 79	0	5	3	2	0	1	4	33	2	4	4	1	0	0	0	1	46	14	60
80 and Over	0	0	1	1	0	0	0	4	0	1	1	0	0	0	0	0	4	4	8
Unknown	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	1	2	2	4



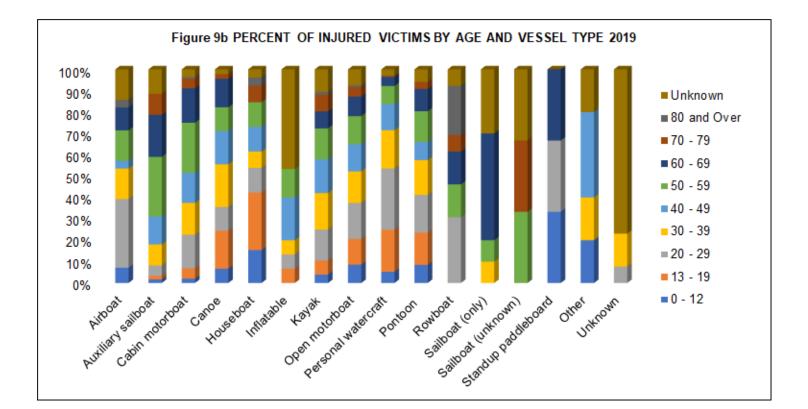
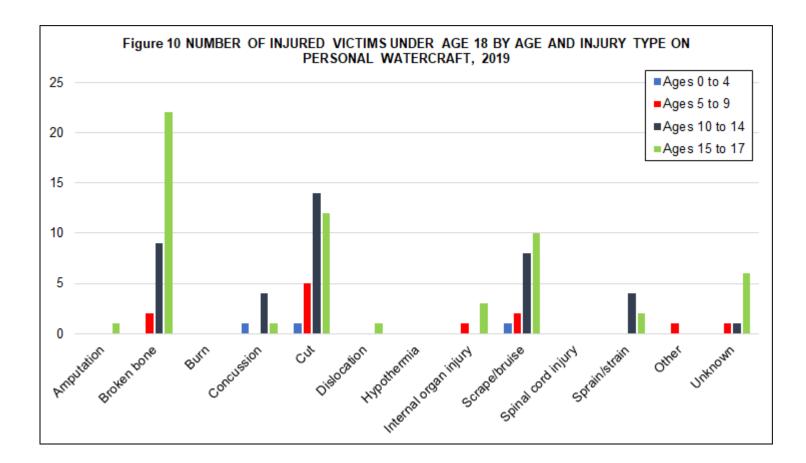


Table 27	- NUM	ИВE	R O	F IN.		ED V	/ICT		BY A	GE A	ND V	VES	SEL	ТҮР	PE 20)19	
Age of Injured Victim	Total injuries	Airboat	Auxiliary sailboat	Cabin motorboat	Canoe	Houseboat	Inflatable	Kayak	Open motorboat	Personal watercraft	Pontoon	Rowboat	Sailboat (only)	Sailboat (unknown)	Standup paddleboard	Other	Unknown
Total	2559	28	61	248	45	26	15	76	1246	614	153	13	10	3	3	5	13
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
2	7	0	0	0	0	0	0	0	6	0	1	0	0	0	0	0	0
3	4	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0
4	15	0	0	2	1	0	0	0	9	1	2	0	0	0	0	0	0
5	13	1	0	0	0	0	0	0	9	3	0	0	0	0	0	0	0
6	13	0	0	1	0	1	0	0	9	2	0	0	0	0	0	0	0
7	14	0	0	0	0	1	0	0	11	2	0	0	0	0	0	0	0
8	10	0	0	0	0	0	0	0	8	1	1	0	0	0	0	0	0
9	12	0	0	0	0	0	0	0	6	4	2	0	0	0	0	0	0
10	22	0	0	0	1	0	0	0	12	7	2	0	0	0	0	0	0
11	29	0	1	2	1	0	0	1	16	4	3	0	0	0	0	1	0
12	29	1	0	0	0	2	0	2	15	6	2	0	0	0	1	0	0
0 - 12	172	2	1	5	3	4	0	3	107	32	13	0	0	0	1	1	0
13 - 19	328	0	1	12	8	7	1	5	150	121	23	0	0	0	0	0	0
20 - 29	490	9	3	39	5	3	1	11	210	176	27	4	0	0	1	0	1
30 - 39	395	4	6	37	9	2	1	13	184	110	25	0	1	0	0	1	2
40 - 49	317	1	8	35	7	3	3	12	158	75	13	0	0	0	0	2	0
50 - 59	342	4	17	58	5	3	2	11	164	52	22	2	1	1	0	0	0
60 - 69	231	3	12	40	6	0	0	6	114	26	16	2	5	0	1	0	0
70 - 79	91	0	6	11	1	2	0	6	55	3	5	1	0	1	0	0	0
80 and Over	19	1	0	2	0	1	0	1	10	1	0	3	0	0	0	0	0
Unknown	174	4	7	9	1	1	7	8	94	18	9	1	3	1	0	1	10

Table 28 • NA	TURE OF	PRIMAP	RY INJU	JRY TY	PE B	Y ARE	A OF I	NJURY	′ 2019	
	All Areas	Arm	Body	Foot	Hand	Head	Leg	Neck	Trunk	Unknown
All primary injury types	2559	227	286	108	86	578	522	63	505	184
Amputation	14	1	0	1	7	0	5	0	0	0
Broken bone	472	57	0	34	20	69	159	2	118	13
Burn	101	10	11	7	4	8	33	3	9	16
Carbon monoxide	32	0	32	0	0	0	0	0	0	0
Concussion	205	0	0	0	0	205	0	0	0	0
Dislocation	41	25	0	5	2	0	9	0	0	0
Electric shock	3	0	3	0	0	0	0	0	0	0
Hypothermia	196	0	196	0	0	0	0	0	0	0
Internal organ injury	129	0	0	0	0	10	0	0	111	8
Laceration	593	55	8	39	36	219	171	4	39	22
Scrape/bruise	352	48	10	9	10	47	86	3	74	65
Shock	6	0	6	0	0	0	0	0	0	0
Spinal cord Injury	35	0	0	0	0	0	0	7	28	0
Sprain/strain	138	17	17	11	4	1	26	26	31	5
Other	8	0	1	0	0	1	0	0	6	0
Unknown	234	14	2	2	3	18	33	18	89	55



CASUALTY DATA

Explanation of Casualty Data Section

This section contains fifteen tables and figures that examine data relating to the victims in boating accidents. The following pages focus on historical casualty information, casualty-vessel information, and state-specific casualty information.

Deaths, Injuries & Accidents by Year, 2000-2019 (Figure 11 & Table 29, Page 56)

This figure and table document the number of accidents and casualties from 2000-2019.

Accident, Casualty & Damage Data by State (Table 30, Page 57)

This table provides accident, casualty, and damage information by state for the year 2019. Accidents are broken down into three levels of severity– fatal accidents, non-fatal injury accidents, and property damage only accidents. Please note that under this categorization, accidents are represented by their greatest severity. If an accident resulted in one death, two injured victims, and \$5,000 damages, the accident would be represented under the fatal accident column under the greater "Number of Accidents" heading. The death, injured victims, and damages would be represented in the totals under the "Persons Involved" and "Damages" headings.

Distribution of Recreational Boating Deaths by State (Figure 12, Page 58)

This figure provides the percentage that each state contributed to the national death count. So, for instance, Michigan had 22 deaths. Out of the total national death count of 613, Michigan contributed 3.6% ((22/613) × 100) of deaths to the national count. Please note that percentages have been rounded.

Fatal Accidents by Location (Figures 12a-c, Pages 59-60)

These figures plot the location of fatal accidents in four different regions. 12a represents the continental United States and Puerto Rico. 12b represents Alaska. 12c represents Hawaii. In many cases, the location was plotted using coordinates. When coordinates were not available, other fields such as the name of body of water, nearest city or town, county, and the narrative were used to approximate the location. The size of the plot correlates to the number of deaths in the fatal accident.

Annual Recreational Boating Fatality Rates, 2000-2019 (Figure 13 & Table 31, Page 61)

This table and accompanying figure provide two fatality rates for years 2000-2019. The fatality rate is calculated by dividing the number of fatalities by the total national vessel registration. The Coast Guard then multiplied by a factor of 100,000 to arrive at the number of deaths per 100,000 registered vessels. The fatality rate takes into account all fatalities and all recreational registration data collected. The motorized fatality rate takes into account only fatalities that occurred on motorized vessels and only motorized recreational vessels registered.

States Coded by their 2019 Fatality Rate (Figure 14, Page 62)

This figure displays states that are color-coded depending on their fatality rate which is expressed as the number of deaths that occurred in that state per 100,000 vessels that the state registered. It is important to note that not all states register the same types of vessels which could skew the fatality rates provided. Please see Table 38, Recreational Registration Data by State 2018-2019 to view the Scope of each state's registration system. Further, when examining a state fatality rate, it is important to note that the state fatality rate may include deaths from vessels that were registered in another state.

Five-year Summary of Selected Accident Data by State, 2015-2019 (Table 32, Page 63)

This table examines the number of accidents, fatal accidents, and fatalities by state for years 2015-2019.

Number of Accidents by Primary Accident Type & State (Table 33, Page 64-65)

This table documents the first accident event by state. It also provides information about the total number of accidents and casualties by state.

Number of Injured Victims by Primary Injury & Vessel Type (Table 34, Page 66)

This table displays the number of injured victims by primary injury and vessel type.

Number of Fatal Victims by Life Jacket Wear, Cause of Death, & Vessel Type (Table 35, Page 66)

This table displays the number of fatal victims by vessel type and cause of death. The table also provides information on whether the deceased victim was wearing a life jacket.

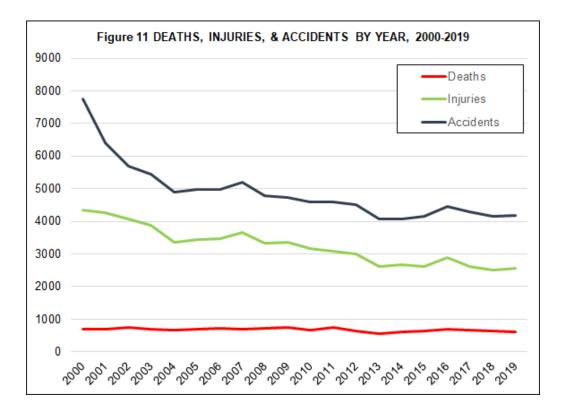
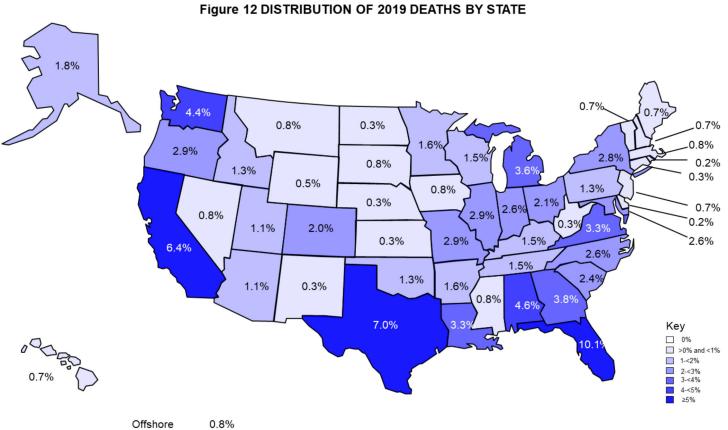


Table 29 • DE	ATHS, INJURIE 2000-	S, & ACCIDEN 2019	TS BY YEAR,
Year	Deaths	Injuries	Accidents
2000	701	4355	7740
2001*	681	4274	6419
2002	750	4062	5705
2003	703	3888	5438
2004	676	3363	4904
2005	697	3451	4969
2006	710	3474	4967
2007	685	3673	5191
2008	709	3331	4789
2009	736	3358	4730
2010	672	3153	4604
2011	758	3081	4588
2012	651	3000	4515
2013	560	2620	4062
2014	610	2678	4064
2015	626	2613	4158
2016	701	2903	4463
2017	658	2629	4291
2018	633	2511	4145
2019	613	2559	4168

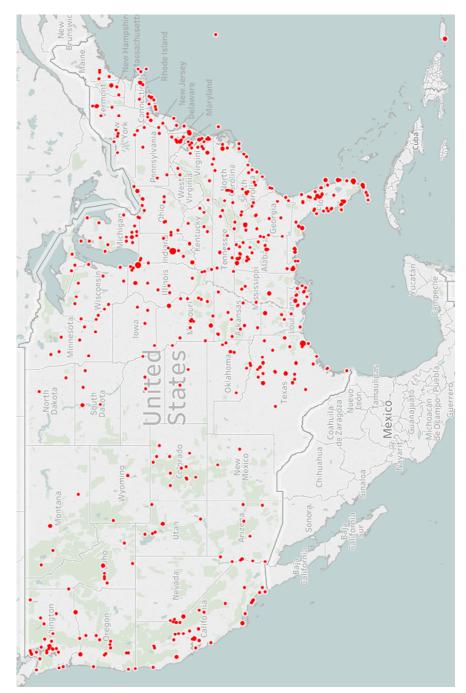
* On July 2, 2001, the Federal threshold of property damage for reports of accidents involving recreational vessels changed from \$500 to \$2000.

	Table 3		•	& DAMAGE DATA E		r	
			per of Accidents		Persons	Involved	
	Total	Fatal	Non-Fatal Injury	Property Damage	Deaths	Injured	Damages
Totals	4168	556	1785	1827	613	2559	\$55,320,226.2
٩K	14	8		3	11	7	\$60,500.0
4L	101	25	31	45	28	58	\$766,208.0
AR	37	10	7	20	10	9	\$237,496.1
AZ	96	7	41	48	7	52	\$491,282.0
CA	324	37	130	157	39	199	\$7,300,523.3
CO	44	12	15		12	15	\$75,050.0
СТ	40	2	17	21	2	20	\$780,434.6
DC	2	0	2	0	0	3	\$3,500.0
DE	13	1	2	10	1	2	\$283,500.0
FL	679	55	299	325	62	421	\$9,232,015.9
GA	109	22	42	45	23	57	\$480,200.00
HI	15	3	5	7	4	6	\$231,650.00
IA	21	5	9	7	5	15	\$49,261.0
D	50	7	21	22	8	29	\$553,680.00
L	75	13			18	41	\$1,170,268.5
IN	40	11	20	9	16	25	\$126,130.00
KS	13	2		4	2	10	\$23,250.0
KY	39	9		12	9	23	\$507,104.0
LA	105	18	52	35	20	96	\$552,135.92
MA	79	4	29	46	5	38	\$2,458,008.1
MD	130	12	78		16	101	\$865,977.88
ME	35	4	16	15	4	19	\$305,600.0
MI	128	21	54	53	22	74	\$526,661.94
MN	100	10	55	35	10	66	\$588,908.0
MO	145	18	71	56	18	103	\$1,260,848.0
MS	20	4	10	6	5	15	\$148,650.00
MT	13	4	6	3	5	8	\$59,275.9
NC	128	15	54	59	16	72	\$2,417,890.00
ND	16	2	4	10	2	5	\$76,242.90
NE	19	2		6	2	17	\$54,800.00
NH	37	3	20	14	4	21	\$463,757.60
NJ	110	4	46	60	4		\$1,188,042.00
NM	13	2		3	2	9	\$9,000.00
NV	44	4	22	18	5	28	\$143,595.00
NY	165	17	77	71	17	119	\$5,615,010.6
ОН	128	12	42	74	13	61	\$2,516,256.00
OK	24	8		9	8	7	\$96,400.00
OR	62	16		26	18	31	\$813,534.88
PA	58	8		16	8	45	\$121,750.00
RI	42	1	9	32	1	14	\$1,142,256.00
SC	141	15	68		15	108	\$1,287,306.00
SD	23	4	8	11	5	16	\$84,159.7
TN	107	9	46	52	9	69	\$1,847,947.0
TX	184	38	81	65	43	122	\$2,012,209.3
UT	86	6	=	28	7	78	\$407,004.0
VA	84	18	28	38	20	33	\$1,399,326.0
VT	4	3	1	0	4	2	\$18,100.0
WA	106	26	33	47	27	55	\$2,329,133.0
WI	82	9	37	36	9	52	\$484,566.3
WV	9	2	3	4	2	5	\$23,150.0
WY	11	3	7	1	3	8	\$9,000.0
AS	0	0	0	0	0	0	\$0.0
CNMI	0	0	0	0	0	0	\$0.0
GU	2	0	1	1	0	1	\$7,400.0
PR	4	1	1	2	2	1	\$208,000.0
VI	0	0	0	0	0	0	\$0.0
Atlantic Ocean*	5	2	2	1	2	3	\$907,095.0
Gulf of Mexico*	3	0	0	3	0	0	\$404,175.0
Pacific Ocean*	4	2	0	2	3	0	\$95,000.0
	-	_	-	shore in the Atlantic Ocean and F	-	-	



Puerto Rico 0.3%

American Samoa, Guam, the Northern Mariana Islands, the U.S. Virgin Islands, and District of Columbia did not have deaths.



Plots represent fatal accidents; the size of the plot correlates to the number of deaths in a fatal accident. The largest plot represents five deaths.

Recreational Boating Statistics 2019

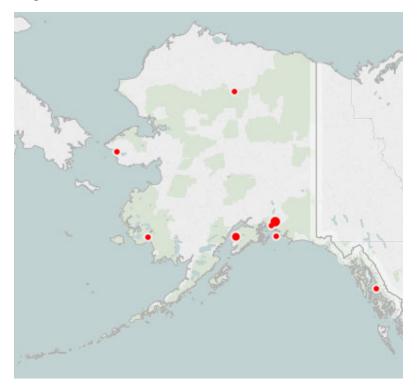


Figure 12b • FATAL ACCIDENTS BY LOCATION- ALASKA

Plots represent fatal accidents; the size of the plot correlates to the number of deaths in a fatal accident. The largest plot represents three deaths.

• • • Hawaii

Figure 12c • FATAL ACCIDENTS BY LOCATION- HAWAII

Plots represent fatal accidents; the size of the plot correlates to the number of deaths in a fatal accident. The largest plot represents two deaths.

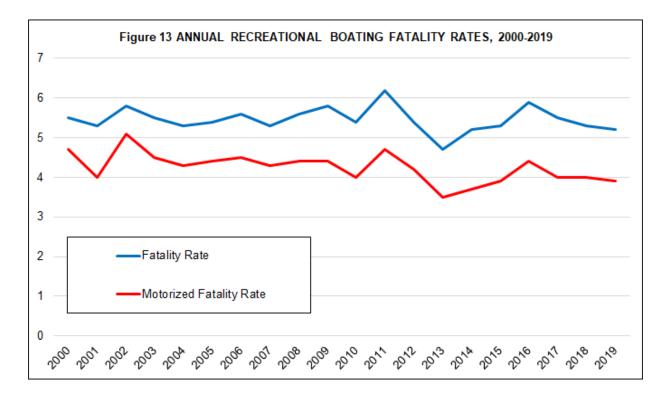
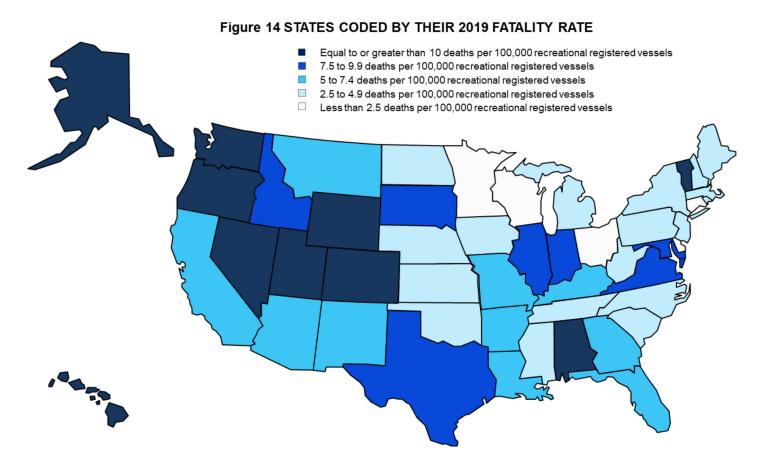


Table	31 • ANNL	JAL RECREAT	IONAL BO	ATING FATA	LITY RATES 20	00-2019
	All Deaths	All Registered Vessels	Fatality Rate	Motorized Vessel Deaths	Registered Motorized Vessels	Motorized Vessel Fatality Rate
2000	701	12,782,143	5.5	543	11,648,769	4.7
2001	681	12,876,346	5.3	484	12,100,439	4.0
2002	750	12,854,054	5.8	612	11,918,688	5.1
2003	703	12,794,616	5.5	536	11,946,576	4.5
2004	676	12,781,476	5.3	515	11,878,783	4.3
2005	697	12,942,414	5.4	528	11,998,728	4.4
2006	710	12,746,126	5.6	535	11,802,419	4.5
2007	685	12,875,568	5.3	515	11,966,627	4.3
2008	709	12,692,892	5.6	518	11,841,281	4.4
2009	736	12,721,541	5.8	522	11,834,872	4.4
2010	672	12,438,926	5.4	469	11,597,326	4.0
2011	758	12,173,935	6.2	527	11,326,848	4.7
2012	651	12,101,936	5.4	476	11,226,268	4.2
2013	560	12,013,496	4.7	391	11,128,052	3.5
2014	610	11,804,002	5.2	411	10,960,861	3.7
2015	626	11,867,049	5.3	434	11,034,479	3.9
2016	701	11,861,811	5.9	481	11,005,841	4.4
2017	658	11,961,568	5.5	440	11,090,600	4.0
2018	633			441	10,994,900	4.0
2019	613	11,878,542	5.2	426	11,052,684	3.9



Note: The fatality rate is calculated using the number of deaths in each state and the number of recreational registered vessels in each state. Please be aware that, for some states, the fatality rate includes deaths that occurred on vessels that were not registered. Further, it is important to note that the state fatality rate may include deaths from vessels that were registered in another state. Only the contiguous jurisdictions, Hawaii, and Alaska are represented on this map.

Totals 4158 4463 4291 4145 4168 569 624 599 565 556 626 701 658 i Alabama 79 46 70 66 101 17 12 18 13 25 21 14 7 14 13 17 8 7 19 20 Arkansas 49 47 64 60 37 9 9 11 7 10 9 10 11 California 369 386 350 322 324 41 43 49 33 7 48 47 50 Colorado 36 43 32 28 44 8 11 6 6 12 8 12 6 3 9 10 13 2 10 1 3 2 10 1 3 2 10 13 10 10 13 10 10 13 10 10 13 10 10 10 13 1	2018 2019 633 613 17 28 22 11 11 7 7 10 34 39 6 12 5 2 2 1 0 0 57 62 11 23 1 4 10 8 17 18 8 16 8 5 2 2 13 9 19 20 4 4 16 16 10 5 22 22 14 10
Totals 4158 4463 4291 4145 4168 569 624 599 565 556 626 701 658 i Alabama 79 46 70 66 101 17 12 18 13 25 21 14 71 14 13 17 8 7 19 20 Arkansas 49 47 64 60 37 9 9 11 7 10 9 10 11 California 369 386 350 322 324 41 43 49 33 7 48 47 50 Connecticut 58 47 49 39 40 6 3 8 4 2 6 3 9 Delaware 13 23 23 13 0 1 3 2 10 1 3 Delaware 13 5 55 52 70 66 Georgia 85 112 102 10 10 15 16 <	$\begin{array}{ccccc} 633 & 613 \\ 17 & 28 \\ 22 & 11 \\ 11 & 7 \\ 7 & 10 \\ 34 & 39 \\ 6 & 12 \\ 5 & 2 \\ 2 & 1 \\ 0 & 0 \\ 57 & 62 \\ 11 & 23 \\ 1 & 4 \\ 10 & 8 \\ 17 & 18 \\ 8 & 16 \\ 8 & 5 \\ 2 & 2 \\ 13 & 9 \\ 19 & 20 \\ 4 & 4 \\ 16 & 16 \\ 10 & 5 \\ 22 & 22 \\ 14 & 10 \\ 11 & 5 \\ \end{array}$
Alabama 79 46 70 66 101 17 12 18 13 25 21 14 21 Alaska 25 26 15 22 14 7 14 13 17 8 7 19 20 Arizona 97 90 123 129 96 6 5 11 6 7 6 5 13 Arkansas 49 47 64 60 37 9 9 11 7 10 9 10 11 California 369 386 350 322 324 41 43 49 33 37 48 47 50 Connecticut 58 47 49 39 40 6 3 8 4 2 6 3 9 Delaware 13 23 23 23 13 0 1 3 2 1 0 1 3 Delaware 6 3 4 2 2 2 2	17 28 22 11 11 7 7 10 34 39 6 12 5 2 2 1 0 0 57 62 11 23 1 4 10 8 17 18 8 16 8 5 2 2 13 9 19 20 4 4 16 16 10 5 22 22 14 10 5 22 14 10 11 5
Alaska 25 26 15 22 14 7 14 13 17 8 7 19 20 Arizona 97 90 123 129 96 6 5 11 6 7 6 5 13 Arkansas 49 47 64 60 37 9 9 11 7 10 9 10 11 California 369 38 350 322 324 41 43 49 33 37 48 47 50 Colorado 36 43 32 28 44 8 11 6 6 12 8 12 6 Connecticut 58 47 49 39 40 6 3 8 4 2 6 3 9 10 13 3 5 5 5 7 6 6 5 55 55 52 70 66 3 13 3 5 8 3 13 10	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Arizona 97 90 123 129 96 6 5 11 6 7 6 5 13 Arkansas 49 47 64 60 37 9 9 11 7 10 9 10 11 California 369 386 350 322 324 44 43 49 33 37 48 47 50 Colorado 36 43 32 28 44 8 11 6 6 12 8 12 60 Connecticut 58 47 49 39 40 6 3 8 4 2 6 3 9 0 <	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Arkansas 49 47 64 60 37 9 9 11 7 10 9 10 11 California 369 386 350 322 324 41 43 49 33 37 48 47 50 Colorado 36 43 32 28 44 8 11 6 6 12 8 12 6 3 9 Colorado 36 47 49 39 40 6 3 8 4 2 6 3 9 Delaware 13 23 23 13 0 1 3 2 1 0 1 3 Delaware 10 1 3 2 1 0 1 3 2 1 0 1 3 2 1 0 1 3 Delaware 36 52 70 66 Georgia 85 13 1 10 15 15 13 13 15 16 13 11 9 <td>$\begin{array}{c cccc} 7 & 10 \\ 34 & 39 \\ 6 & 12 \\ 5 & 2 \\ 2 & 1 \\ 0 & 0 \\ 57 & 62 \\ 11 & 23 \\ 1 & 4 \\ 10 & 8 \\ 17 & 18 \\ 8 & 16 \\ 8 & 5 \\ 2 & 2 \\ 13 & 9 \\ 19 & 20 \\ 4 & 4 \\ 16 & 16 \\ 10 & 5 \\ 22 & 22 \\ 14 & 10 \\ 11 & 5 \\ \end{array}$</td>	$\begin{array}{c cccc} 7 & 10 \\ 34 & 39 \\ 6 & 12 \\ 5 & 2 \\ 2 & 1 \\ 0 & 0 \\ 57 & 62 \\ 11 & 23 \\ 1 & 4 \\ 10 & 8 \\ 17 & 18 \\ 8 & 16 \\ 8 & 5 \\ 2 & 2 \\ 13 & 9 \\ 19 & 20 \\ 4 & 4 \\ 16 & 16 \\ 10 & 5 \\ 22 & 22 \\ 14 & 10 \\ 11 & 5 \\ \end{array}$
California 368 366 350 322 324 41 43 49 33 37 48 47 50 Colorado 36 43 32 28 44 8 11 6 6 12 8 12 6 Connecticut 58 47 49 39 40 6 3 8 4 2 6 3 9 Delaware 13 23 23 23 13 0 1 3 2 1 0 1 3 2 1 0 1 3 2 1 0 1 3 2 1 0 1 3 2 1 0 1 3 2 1 0 1 3 3 3 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 <	34 39 6 12 5 2 2 1 0 0 57 62 11 23 1 4 10 8 17 18 8 16 8 5 2 2 13 9 19 20 4 4 16 16 10 5 22 22 14 10 11 5
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Connecticut 58 47 49 39 40 6 3 8 4 2 6 3 9 Delaware 13 23 23 23 13 0 1 3 2 1 0 1 3 DC 0 2 1 2 2 0	5 2 1 0 0 57 62 1 1 23 1 1 4 10 8 17 18 16 8 5 2 2 2 13 9 19 20 4 4 4 16 16 16 10 5 22 22 14 10 11 5
Delaware 13 23 23 13 0 1 3 2 1 0 1 3 DC 0 2 1 2 0 <	2 1 0 0 57 62 11 23 1 4 10 8 17 18 8 16 8 5 2 2 13 9 19 20 4 4 16 16 10 5 22 22 14 10 11 5
DC 0 2 1 2 2 0	0 0 57 62 11 23 1 4 10 8 17 18 8 16 8 5 2 2 13 9 19 20 4 4 16 16 10 5 22 22 14 10 11 5
Florida 671 684 723 607 679 49 59 60 54 55 52 70 66 Georgia 85 112 102 104 109 19 15 12 9 22 22 22 14 Hawaii 12 14 15 8 15 5 6 3 1 3 5 8 3 Idaho 39 50 46 44 50 9 8 13 9 7 13 10 16 Ilinois 66 74 84 67 75 11 9 15 16 13 11 9 15 Indiana 43 40 57 43 40 5 67 8 11 5 7 8 Iowa 36 37 40 31 21 3 7 4 8 9 13 <	57 62 11 23 1 4 10 8 17 18 8 16 8 5 2 2 13 9 19 20 4 4 16 16 10 5 22 22 14 10 11 5
Georgia 85 112 102 104 109 19 15 12 9 22 22 22 22 14 Hawaii 12 14 15 8 15 5 6 3 1 3 5 8 3 Idaho 39 50 46 44 50 9 8 13 9 7 13 10 16 Illinois 66 74 84 67 75 11 9 15 16 13 11 9 15 Indiana 43 40 57 43 40 5 6 7 8 11 5 7 8 Iowa 36 37 40 31 21 3 7 4 8 5 3 7 4 Kansas 25 32 29 22 13 2 7 2 2 2 7 2 2 2 7 2 2 2 10 8 13 <td>11 23 1 4 10 8 17 18 8 16 8 5 2 2 13 9 19 20 4 4 16 16 10 5 22 22 14 10 11 5</td>	11 23 1 4 10 8 17 18 8 16 8 5 2 2 13 9 19 20 4 4 16 16 10 5 22 22 14 10 11 5
Hawaii 12 14 15 8 15 5 6 3 1 3 5 8 3 Idaho 39 50 46 44 50 9 8 13 9 7 13 10 16 Illinois 66 74 84 67 75 11 9 15 16 13 11 9 15 Indiana 43 40 57 43 40 5 6 7 8 11 5 7 8 Iowa 36 37 40 31 21 3 7 4 8 5 3 7 4 Kansas 25 32 29 22 13 2 7 2 2 2 7 2 2 7 2 8 13 Louisiana 87 112 106 95 105 20 23 19 17 18 22 24 19 Maine 32 24 43 35 <t< td=""><td>10 8 17 18 8 16 8 5 2 2 13 9 19 20 4 4 16 16 10 5 22 22 14 10 11 5</td></t<>	10 8 17 18 8 16 8 5 2 2 13 9 19 20 4 4 16 16 10 5 22 22 14 10 11 5
Illinois 66 74 84 67 75 11 9 15 16 13 11 9 15 Indiana 43 40 57 43 40 5 6 7 8 11 5 7 8 Iowa 36 37 40 31 21 3 7 4 8 5 3 7 4 Kansas 25 32 29 22 13 2 7 2 2 2 7 2 Kentucky 41 46 41 41 39 12 8 12 13 9 20 8 13 Louisiana 87 112 106 95 105 20 23 19 17 18 22 24 19 Maine 32 49 49 43 35 7 9 11 4 8 9 13 Maryland 146 150 147 122 130 10 14	17 18 8 16 8 5 2 2 13 9 19 20 4 4 16 16 10 5 22 22 14 10 11 5
Indiana 43 40 57 43 40 5 6 7 8 11 5 7 8 Iowa 36 37 40 31 21 3 7 4 8 5 3 7 4 Kansas 25 32 29 22 13 2 7 2 2 2 7 2 Kentucky 41 46 41 41 39 12 8 12 13 9 20 8 13 Louisiana 87 112 106 95 105 20 23 19 17 18 22 24 19 Maine 32 49 49 43 35 7 9 11 4 4 8 9 13 Maine 32 49 49 43 35 7 9 11 4 8 9 13 Maryland 146 150 147 122 130 20 11 6<	8 16 8 5 2 2 13 9 19 20 4 4 16 16 10 5 22 22 14 10 11 5
Iowa 36 37 40 31 21 3 7 4 8 5 3 7 4 Kansas 25 32 29 22 13 2 7 2 2 2 7 2 Kentucky 41 46 41 41 39 12 8 12 13 9 20 8 13 Louisiana 87 112 106 95 105 20 23 19 17 18 22 24 19 Maine 32 49 49 43 35 7 9 11 4 4 8 9 13 Maryland 146 150 147 122 130 20 11 6 13 12 21 16 6 Massachusetts 89 92 66 77 79 5 13 10 10 4 5 15 10 Michigan 90 125 116 119 128	8 5 2 2 13 9 19 20 4 4 16 16 10 5 22 22 14 10 11 5
Kansas 25 32 29 22 13 2 7 2 2 2 7 2 Kentucky 41 46 41 41 39 12 8 12 13 9 20 8 13 Louisiana 87 112 106 95 105 20 23 19 17 18 22 24 19 Maine 32 49 49 43 35 7 9 11 4 4 8 9 13 Maryland 146 150 147 122 130 20 11 6 13 12 21 16 6 Massachusetts 89 92 66 77 79 5 13 10 10 4 5 15 10 Michigan 90 125 116 119 128 22 33 19 20 21 24 38 20 Minnesota 87 96 105 77 100<	2 2 13 9 19 20 4 4 16 16 10 5 22 22 14 10 11 5
Kentucky 41 46 41 41 39 12 8 12 13 9 20 8 13 Louisiana 87 112 106 95 105 20 23 19 17 18 22 24 19 Maine 32 49 49 43 35 7 9 11 4 4 8 9 13 Maryland 146 150 147 122 130 20 11 6 13 12 21 16 6 Massachusetts 89 92 66 77 79 5 13 10 10 4 5 15 10 Michigan 90 125 116 119 128 22 33 19 20 21 24 38 20 Minnesota 87 96 105 77 100 16 17 13 13 10 11 11 6 5 2 9 4 6 5	13 9 19 20 4 4 16 16 10 5 22 22 14 10 11 5
Louisina 87 112 106 95 105 20 23 19 17 18 22 24 19 Maine 32 49 49 43 35 7 9 11 4 4 8 9 13 Maryland 146 150 147 122 130 20 11 6 13 12 21 16 6 Massachusetts 89 92 66 77 79 5 13 10 10 4 5 15 10 Michigan 90 125 116 119 128 22 33 19 20 21 24 38 20 Minnesota 87 96 105 77 100 16 17 13 13 10 18 17 14 Mississippi 30 43 34 31 20 7 10 6 9 4 10 11 6 5 2 9 4 5 2	19 20 4 4 16 16 10 5 22 22 14 10 11 5
Maine 32 49 49 43 35 7 9 11 4 4 8 9 13 Maryland 146 150 147 122 130 20 11 6 13 12 21 16 6 Massachusetts 89 92 66 77 79 5 13 10 10 4 5 15 10 Michigan 90 125 116 119 128 22 33 19 20 21 24 38 20 Minnesota 87 96 105 77 100 16 17 13 13 10 18 17 14 Mississippi 30 43 34 31 20 7 10 6 9 4 10 11 6 Missouri 109 137 124 122 145 17 14 10 12 18 17 16 10 Montana 14 23 9	4 4 16 16 10 5 22 22 14 10 11 5
Maryland 146 150 147 122 130 20 11 6 13 12 21 16 6 Massachusetts 89 92 66 77 79 5 13 10 10 4 5 15 10 Michigan 90 125 116 119 128 22 33 19 20 21 24 38 20 Minnesota 87 96 105 77 100 16 17 13 13 10 18 17 14 Mississippi 30 43 34 31 20 7 10 6 9 4 10 11 6 Missouri 109 137 124 122 145 17 14 10 12 18 17 16 10 Montana 14 23 9 19 13 6 5 2 9 4 5 4 2 4 2 4 2 4 2 <td>16 16 10 5 22 22 14 10 11 5</td>	16 16 10 5 22 22 14 10 11 5
Massachusetts 89 92 66 77 79 5 13 10 10 4 5 15 10 Michigan 90 125 116 119 128 22 33 19 20 21 24 38 20 Minnesota 87 96 105 77 100 16 17 13 13 10 18 17 14 Mississippi 30 43 34 31 20 7 10 6 9 4 10 11 6 Missouri 109 137 124 122 145 17 14 10 12 18 17 16 10 Montana 14 23 9 19 13 6 5 2 9 4 5 4 2 4 2 4 2 4 2 4 2 4 4 5 4	10 5 22 22 14 10 11 5
Michigan 90 125 116 119 128 22 33 19 20 21 24 38 20 Minnesota 87 96 105 77 100 16 17 13 13 10 18 17 14 Mississippi 30 43 34 31 20 7 10 6 9 4 10 11 6 Missouri 109 137 124 122 145 17 14 10 12 18 17 16 10 Montana 14 23 9 19 13 6 5 2 9 4 6 5 2 Nebraska 32 22 27 20 19 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 4 2 4 4 4 4 4 4 4 4 4 3	22 22 14 10 11 5
Minnesota 87 96 105 77 100 16 17 13 13 10 18 17 14 Mississippi 30 43 34 31 20 7 10 6 9 4 10 11 6 Mississippi 109 137 124 122 145 17 14 10 12 18 17 16 10 Montana 14 23 9 19 13 6 5 2 9 4 6 5 2 Nebraska 32 22 27 20 19 4 2 4 2 4 2 4 Nevada 38 48 35 53 44 5 4 5 4 4 New Hampshire 53 76 49 39 37 4 8 5 4 3 4 9 5 New Jersey 122 109 106 116 110 7 4 4	14 10 11 5
Mississippi 30 43 34 31 20 7 10 6 9 4 10 11 6 Missouri 109 137 124 122 145 17 14 10 12 18 17 16 10 Montana 14 23 9 19 13 6 5 2 9 4 6 5 2 Nebraska 32 22 27 20 19 4 2 4 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 4 2 4 4 2 4	11 5
Missouri 109 137 124 122 145 17 14 10 12 18 17 16 10 Montana 14 23 9 19 13 6 5 2 9 4 6 5 2 Nebraska 32 22 27 20 19 4 2 4 4 2 4 2 4 2 4 2 4 2 4 4 2 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4 5	_
Montana 14 23 9 19 13 6 5 2 9 4 6 5 2 Nebraska 32 22 27 20 19 4 2 4 4 2 4 3 4 9 5 5 4 4 3 4 9 5 5 4 4 3 4 9 5 5 4 4 5 4 8 5 4 4 4 2<	11 10
Nebraska 32 22 27 20 19 4 2 4 4 2 4 2 4 Nevada 38 48 35 53 44 5 4 4 5 4 5 4<	
Nevada 38 48 35 53 44 5 4 4 5 4 5 4 4 New Hampshire 53 76 49 39 37 4 8 5 4 3 4 9 5 New Hampshire 53 76 49 39 37 4 8 5 4 3 4 9 5 New Jersey 122 109 106 116 110 7 4 4 5 4 8 5 4 New Mexico 10 16 18 24 13 0 2 5 2 0 2 5 New York 174 188 167 143 165 15 20 19 17 17 16 22 22 2 North Carolina 162 143 117 182 128 18 22 15 27 15 20 23 15 North Dakota 11 15 15 1	13 5
New Hampshire 53 76 49 39 37 4 8 5 4 3 4 9 5 New Jersey 122 109 106 116 110 7 4 4 5 4 8 5 4 New Jersey 122 109 106 116 110 7 4 4 5 4 8 5 4 New Mexico 10 16 18 24 13 0 2 5 2 0 2 5 New York 174 188 167 143 165 15 20 19 17 17 16 22 22 2 15 27 15 20 23 15 North Dakota 11 15 13 16 2 1 4 2 2 2 1 4	4 2
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New Mexico 10 16 18 24 13 0 2 5 2 2 0 2 5 New York 174 188 167 143 165 15 20 19 17 17 16 22 22 North Carolina 162 143 117 182 128 18 22 15 27 15 20 23 15 North Dakota 11 15 15 13 16 2 1 4 2 2 2 1 4	5 4
New York 174 188 167 143 165 15 20 19 17 17 16 22 22 North Carolina 162 143 117 182 128 18 22 15 27 15 20 23 15 North Dakota 11 15 15 13 16 2 1 4 2 2 2 1 4	2 2
North Carolina 162 143 117 182 128 18 22 15 27 15 20 23 15 North Dakota 11 15 15 13 16 2 1 4 2 2 2 1 4	20 17
North Dakota 11 15 15 13 16 2 1 4 2 2 2 1 4	30 16
	2 2
Ohio 100 113 117 126 128 13 12 20 15 12 13 12 20	17 13
Oklahoma 58 44 38 36 24 11 5 7 5 8 13 5 10	7 8
Oregon 65 82 60 65 62 15 17 11 16 16 15 19 12	17 18
Pennsylvania 52 55 69 63 58 4 9 15 13 8 4 11 15	14 8
Rhode Island 37 36 31 26 42 1 0 3 1 1 1 0 4	1 1
South Carolina 123 136 151 130 141 15 20 12 15 15 17 23 13	16 15
South Dakota 15 20 17 12 23 4 4 1 4 5 0	1 5
Tennessee 107 116 93 109 107 13 17 14 22 9 13 18 16	22 9
Texas 154 176 170 204 184 39 48 51 35 38 44 53 63	38 43
Utah 79 94 58 81 86 5 5 3 8 6 5 5 3	97
Vermont 4 4 3 6 4 0 1 3 3 3 0 1 3	3 4
Virginia 70 83 72 80 84 9 19 10 9 18 9 21 10	11 20
Washington 107 98 109 94 106 28 18 15 19 26 29 18 15	21 27
West Virginia 11 24 12 16 9 2 5 3 3 2 2 5 3 Missancia 400	4 2
Wisconsin 103 103 105 106 82 19 16 22 15 9 20 20 25 Wyoming 8 8 10 8 11 0 3 5 1 3 0 3 5	21 9 1 3
AS 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
	0 0
Guam 4 0 2 4 2 0 0 0 0 0 0 0 0	0 0
Puerto Rico 5 6 3 4 4 4 1 1 1 1 5 1 3	0 0
Puerto Rico 5 6 5 4 4 4 1 1 1 5 1 5 Virgin Islands 2 0 0 0 1 0 0 0 2 0 0	
*AT 16 8 8 10 5 0 2 1 1 2 0 2 1	1 2
*GM 5 8 2 7 3 2 1 0 1 0 2 1 0	1 2 0 0
SM S S Z T O T O Z T O O O Z T O	1 2

*1997 was the first year statistics were compiled for accidents that occurred three or more miles offshore in the Atlantic Ocean and Pacific Ocean and nine or more miles in the Gulf of Mexico.

	Injuries	2559	7	58	ი	52	199	15	20	e	2	421	57	9	15	29	41	25	10	23	96	38	101	19	74	99	103	15	8	72	5
	Total deaths	613 2	1	28	10	7	68	12	2	0			23	4	5	8	18	16	2	6	20	5	16	4	22	10		5	5	16	2
																														2	
	Other deaths	174								0																					
	Drownings	439	10	13	10	Ā	19	10		0	-	42	13	C I	ß	ω	16	11		ω	15	-	16	(*)	19	10	13	L)		6	
	Other	43	2	0	0	-	7	0	0	0	-	0	1	2	0	0	0	0	0	0	0	0	2	0	~	2	1	-	0	-	0
	Sudden medical condition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Skier mishap	259	0	5	0	9	29	8	2	0	0	7	7	0	1	10	2	5	2	1	4	2	19	0	5	17	12	1	0	8	-
	Sinking	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Person struck by vessel	19	0	0	0	2	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	-	2	0	0	2	1	0	0	0	0
	Person struck by propeller	39	0	-	0	-	e	0	0	0	0	5	1	0	1	0	0	0	1	1	-	1	2	0	5	0	2	-	0	0	0
	Grounding	413	-	5	4	10	39	2	9	0	5	61	12	4	2	5	4	2	0	З	13	5	5	12	0	7	13	0	4	15	2
	Flooding/swamping	399	4	14	с	14	24	4	5	0	2	76	10	2	1	7	9	2	3	3	9	8	9	5	11	e	9	0	0	15	-
2019	Fire/explosion (unknown origin)	46	0	0	0	0	10	1	0	0	0	∞	0	0	0	0	0	0	0	0	1	1	С	0	-	-	0	1	0	0	0
	Fire/explosion (non-fuel)	59	0	-	0	4	ი	-	0	0	0	7	2	0	0	-	1	0	0	0	0	0	4	0	2	-	2	0	0	2	0
	Fire/explosion (fuel)	134	0	ю	0	5	2	0	0	0	0	13	8	0	0	7	4	-	0	0	З	5	e	e	2	2	11	-	0	5	0
TYPE &	Falls overboard	299	-	ω	5	-	25	e	с	0	0	40	5	2	2	-	4	4	-	9	8	7	8	0	18		5	7	e	8	-
	Fall in vessel	131	0	0	-	5	ω	0	0	0	-	30	9	0	0	0	٢	2	٢	-	-	7	o	2	-	4	16	0	-	5	0
DEN	Electrocution		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACCIDENT	Ejected from vessel	181	0	5	0	9	9	4	-	0	0	31	5	0	0	3	9	Э	0	1	9	0	10	4	-	e	11	-	-	~	0
	Departed vessel	97	-	2	-	2	2	0	-	0	0	10	5	0	0	1	2	١	1	2	4	1	4	0	ი	-	3	1	0	З	0
	Collision with submerged object	134	0	4	5	0	5	0	0	0	1	26	2	0	0	0	3	0	2	1	14	1	4	0	7	-	4	3	0	5	-
ITS BY	Collision with recreational vessel	1071	-	27	7	33	91	7	16	~	١	189	25	1	3	9	19	6	1	15	18	33	23	5	46	27	28	4	7	40	с С
	Collision with governmental vessel	œ	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OF AC	Collision with commercial vessel	21	0	0	0	7	e	0	0	0	-	e	0	0	0	0	0	0	0	-	3	1	1	0	0	0	1	0	0	0	0
	Collision with floating object	68	-	с	0	0	ω	0	2	0	-	ω	3	1	0	1	1	-	0	0	-	-	2	-	5	0	-	0	0	-	-
ž	Collision with fixed object	493	1	19	7	-	24	9	2	0	0	130	12	0	4	9	12	5	0	2	18	8	17	0	12	∞	18	2	0	10	2
33 -	Carbon monoxide	12	0	0	0	0	С	0	0	٢	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Table	Capsizing	242	2	4	4	с	12	ω	2	0	0	26	3	3	7	7	7	5	-	2	-	2	9	e	2	2	7	2	2	З	-
	Total accidents	4168	14	101	37	96	324	44	40	2	13	679	109	15	21	50	75	40	13	39	105	79	130	35	128	100	145	20	13	128	16
			AK 10		AR	AZ	CA	00	СТ	ЫC	DE	Ŀ	GA	Ŧ	A	D		Z	KS	Υ	LA	MA	MD	ШМ	Ā	NΜ	MO	MS	ΜT	U N	Q

	Injuries	17	21	65	6	28	119	61	7	31	45	14	108	16	69	122	78	33	2	55	52	5	8	0	0	-	-	0	с	0	Э
	Total deaths	2	4	4	2	5	17	13	8	18	8	-	15	5	6	43	7	20	4	27	6	2	3	0	0	0	2	0	2	0	.n
	Other deaths	0	2	2	1	١	5	4	2	3	2	1	4	0	3	15	З	3	0	5	1	0	1	0	0	0	2	0	2	0	N
	Drownings	2	2	2	-	4	12	6	9	15	9	0	-	5	9	28	4	17	4	22	8	7	2	0	0	0	0	0	0	0	-
	Other	0	0	-	1	0	1	0	0	0	0	0	-	0	0	1	4	0	0	1	1	0	1	0	0	0	0	0	0	0	0
	Sudden medical condition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Skier mishap	5	6	N	2	5	6	ω	2	З	7	0	9	-	З	13	15	5	0	-	9	0	З	0	0	0	0	0	0	0	5
2019	Sinking	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Э
	Person struck by vessel	0	0	0	0	0	-	0	0	0	2	0	0	-	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	Э
STATE	Person struck by propeller	0	0	-	0	-	0	0	0	0	٦	0	0	-	1	3	1	2	0	1	1	0	0	0	0	0	0	0	0	0	Э
щ	Grounding	e	ရ	∞	-	5	22	20	-	2	0	7	14	-	15	16	14	10	0	15	З	-	-	0	0	0	0	0	0	-	2
ТҮРЕ	Flooding/swamping	0	-	e	1	2	13	24	e	7	7	8	12	3	8	19	4	∞	-	10	10	-	2	0	0	-	0	0	2	-	5
	Fire/explosion (unknown origin)	0	0	2	0	0	0	2	0	1	0	1	0	0	2	1	1	З	0	2	1	0	0	0	0	0	1	0	0	-	_
PRIMARY ACCIDENT	Fire/explosion (non-fuel)	0	0	-	-	0	2	2	0	0	0	2	0	0	4	6	2	0	0	1	1	0	0	0	0	0	0	0	0	0	Э
sΥ A(Fire/explosion (fuel)	-	-	5	0	١	8	9	1	0	4	-	e	7	5	1	4	2	0	5	3	0	0	0	0	0	0	0	0	0	5
IMAF	Falls overboard	0	4	e	3																										
	Fall in vessel	0	0	5	1	1	10	2	0	0	0	1	3	0	2	0	3	3	0	1	0	0	1	0	0	0	1	0	0	0	Э
LS B	Electrocution		0							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S
DENT	Ejected from vessel	2	-	8	0	2	9	3	1	1	3	0	7	-	3	11	8	2	0	2	2	0	0	0	0	0	0	0	0	0	Э
ACCIDENTS BY	Departed vessel	0	-	с	1	2	6	1	4	1	0	0	4	0	4	3	1	2	0	2	0	0	0	0	0	0	0	0	0	0	Э
R OF A	Collision with submerged object	0	0	5	0	١	5	4	2	2	2	1	8	0	1	10	0	ſ	0	2	4	2	0	0	0	0	0	0	0	0	5
ш	Collision with recreational vessel	2	7	46	2	15	47	20	5	16	11	17	41	7	30	44	13	12	1	26	19	2	0	0	0	-	1	0	0	0	Э
- NUMB	Collision with governmental vessel	0	0	-	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	-	2	0	0	0	0	0	0	0	0	0	Э
	Collision with commercial vessel	0	0	0	0	0	0	0	0	0	-	0	-	1	0	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	Э
Continued	Collision with floating object	0	0	-	0	0	1	7	0	3	2	0	e	1	4	0	0	e	0	7	0	0	-	0	0	0	0	0	-	0	=
33	Collision with fixed object	0	e	12	0	С	14	13	2	7	9	З	26	e	16	20	3	12	0	8	14	2	0	0	0	0	0	0	0	0	Э
Table	Carbon monoxide	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	=
-	Capsizing	-	-	e	0	Э	10	11	0	6	12	0	с	-	5	13	2	9	-	15	9	0	0	0	0	0	1	0	-	0	=
	Total accidents	19	37	110	13	44	165	128	24	62	58	42	141	23	107	184	86	84	4	106	82	6	11	0	0	2	4	0	5	ς Γ	4
		Ш Z	НN	٢N	MN	N<	γ	НО	УQ	OR	PA	R	SC	SD	TN	ТХ	UT	٨	Υ	MA	M	\sim	γY	AS	CNMI	СU	РК	N	AT	Ы	ЪС

Table 34	NUN	/ BEF	R OF I	NJUF	RED \	/ICTI	MS B	Y PR		RY IN	JURY	' & VE	SSE	۲L T	/PE		
Primary Injury	Number of injuries	Airboat	Auxiliary sailboat	Cabin motorboat	Canoe	Houseboat	Inflatable	Kayak	Open motorboat	Personal watercraft	Pontoon	Rowboat	Sailboat (only)	Sailboat (unknown)	Standup paddleboard	Other	Unknown
Amputation	14	0	1	2	0	0	0	0	8	1	2	0	0	0	0	0	0
Broken bone	472	6	2	39	1	1	2	2	207	193	18	0	0	0	0	0	1
Burns	101	1	6	33	0	2	0	0	56	2	0	0	0	0	0	0	1
Carbon monoxide	32	0	1	8	0	18	0	0	2	0	0	0	0	0	0	0	3
Concussion	205	4	4	14	2	0	1	3	114	48	11	2	2	0	0	0	0
Dislocation	41	1	0	1	0	0	0	0	25	10	2	1	0	0	0	0	1
Electric shock	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypothermia	196	0	11	8	26	0	6	35	96	3	0	4	1	2	0	4	0
Internal organ injury	129	1	2	8	1	0	2	12	49	42	11	0	0	0	0	0	1
Laceration	593	7	8	53	4	3	1	10	320	113	66	0	3	0	2	1	2
Scrape/bruise	352	6	8	34	7	1	1	5	159	101	22	5	3	0	0	0	0
Shock	6	0	1	1	0	0	0	1	3	0	0	0	0	0	0	0	0
Spinal cord injury	35	0	1	2	0	0	0	0	23	7	2	0	0	0	0	0	0
Sprain/strain	138	2	1	24	1	1	0	1	59	35	12	0	1	0	1	0	0
Other	8	0	0	1	0	0	0	0	4	2	0	1	0	0	0	0	0
Unknown	234	0	12	20	3	0	2	7	121	57	7	0	0	1	0	0	4
All Injuries	2559	28	61	248	45	26	15	76	1246	614	153	13	10	3	3	5	13

Table 35 • NUMBER OF FATAL VICTIMS BY LIFE JACKET WEAR, CAUSE OF DEATH & VESSEL TYPE 2019

					DEATH	& V	'ES				2019							
Cause of Death	Life jacket worn?	Number of deaths	Airboat	Auxiliary sailboat	Cabin motorboat	Canoe	Houseboat	Inflatable	Kayak	Open motorboat	Personal watercraft	Pontoon	Rowboat	Sailboat (only)	Sailboat (unknown)	Standup paddleboard	Other	Unknown
	Yes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	No	3	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0
Carbon monoxide	Unknown	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	Yes	5	0	0	0	0	0	0	2	1	2	0	0	0	0	0	0	0
	No	12	0	0	2	1	0	0	1	5	0	1	1	0	0	1	0	0
Cardiac arrest	Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Yes	57	0	2	0	5	0	7	18	13	7	1	1	0	0	3	0	0
	No	362	1	6	12	28	0	4	54	182	15	28	14	2	0	7	8	1
Drowning	Unknown	20	0	0	2	1	0	0	1	6	2	3	1	0	0	0	0	4
	Yes	2	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	C
	No	2	0	0	0	0	0	0	0		0	0	0	0	0	0	0	C
Hypothermia	Unknown	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
	Yes	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
	No	1	0	1	0	0	0	0	0		0	0	0	0	0	0	0	<u> </u>
Other	Unknown	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	(
	Yes	35	0	0	3		1	0	0		17	1	0	1	0	0	0	C
_	No	49	0	2	7	0	0	0	1	35	0	4	0	0	0	0	0	(
Trauma	Unknown	8	0	0	0	0	0	0	0		0	0	0	0	0	0	0	C
	Yes	6	0	1	0	1	0	0	1	3	0	0	0	0	-	0	0	<u> </u>
L	No	27	0	2	3	2	0	0	2		1	2	1	1	0	1	0	1
Unknown	Unknown	22	0	0	3	0	0	1	5		1	0	0	0	Ť	0	0	2
All Causes	De etie e Oteti	613	1	14	34	39	3	12	86	288	46	40	18	4	0	12	8	8

Recreational Boating Statistics 2019

REGISTRATION DATA

Explanation of Registration Data Section

The following section contains fives tables and figures that examine boat registration information. Registered vessels are those vessels that are required to be recorded by a state, which includes numbered vessels and other forms of registration. Not all states have the same registration requirements. While some states may only register vessels with a motor, others may register sailboats, canoes, kayaks, and rowboats in addition to those vessels with a motor.

Recreational Vessel Registration by Year, 1985-2019 (Table 36 & Figure 15, Page 69)

This table provides information about recreational vessel registration for each year from 1985-2019. The accompanying figure displays a trend line from 1985-2019.

Recreational Vessel Registration by Length & Means of Propulsion (Table 37, Page 70)

The top section of the table provides tallies for the number of mechanically-propelled vessels, the number of manually-propelled vessels, and a summation of these two categories. The middle section of the table documents mechanically-propelled vessel registration by length category. The bottom section of the table focuses on manually-propelled vessels.

Registration Data by State (Table 38, Page 71)

This table examines recreational vessel registration, deaths, and fatality rates by state for years 2018 and 2019. The fatality rate is calculated by dividing the number of fatalities by the total vessel registration. The Coast Guard then multiplied by a factor of 100,000 to arrive at the number of deaths per 100,000 registered vessels. When examining a state fatality rate, it is important to note that the state fatality rate may include deaths from vessels that were registered in another state. This table also specifies the scope of the state's registration program.

Distribution of 2019 Recreational Vessel Registration by State (Figure 16, Page 72)

This figure provides the percentage that each state contributed to national registration figures. So, for instance, California registered 711,173 vessels. Out of the total national registration of 11,878,542 California contributed 6.0% ((711,173/11,878,542) × 100) of registered vessels. Please note that percentages have been rounded.

VESSELS	RECREATIONAL REGISTERED BY R, 1985-2019
IEA	Registered
Year	Vessels
1985	9,589,483
1986	9,876,19
1987	9,963,690
1988	10,362,613
1989	10,777,370
1990	10,996,253
1991	11,068,440
1992	11,132,386
1993	11,282,736
1994	11,429,58
1995	11,734,710
1996	11,877,938
1997	12,312,982
1998	12,565,930
1999	12,738,27
2000	12,782,143
2001	12,876,346
2002	12,854,054
2003	12,794,616
2004	12,781,476
2005	12,942,414
2006	12,746,126
2007	12,875,568
2008	12,692,892
2009	12,721,54
2010	12,438,926
2011	12,173,93
2012	12,101,930
2013	12,013,490
2014	11,804,002
2015	11,867,049
2016	11,861,81
2017	11,961,568
2018	11,852,969
2019	11,878,542

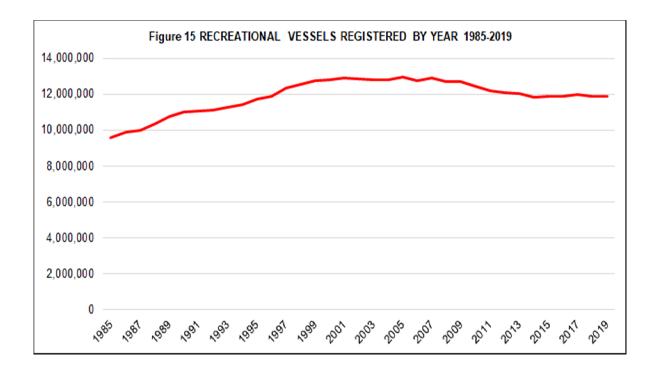
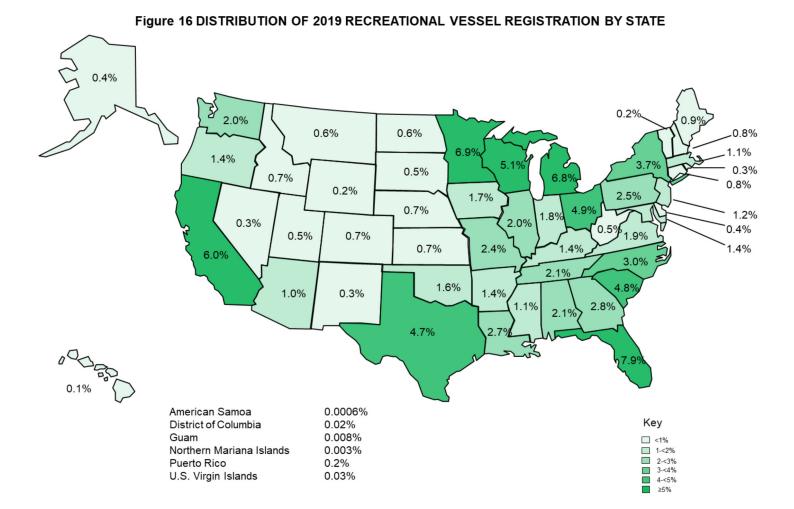


Table 37 • RECREATIONAL VESSEL REGIST MEANS OF PROPULSIO	
MECHANICALLY PROPELLED	11,052,684
Under 16 feet	4,080,719
16 to less than 26 feet	6,386,993
26 to less than 40 feet	501,979
40 to 65 feet	71,867
Over 65 feet	11,126
NOT MECHANICALLY PROPELLED	825,858
Rowboats	69,249
Sailboats	100,284
Paddlecraft	553,773
Other	102,552
TOTAL	11,878,542

	Table 38	• RE	CREATIO	NAL VESS	<u>SEL R</u>	EGISTRA	TION DATA BY STATE 2018-2019			
		2019			2018					
	Registration I	Deaths	Fatality Rate	Registration	Deaths	Fatality Rate	Scope of Current Boat Registration System			
	11,878,542	613	5.2	11,852,969	633					
мК	50,788	11	21.7	48,829	22		All motorboats; non-motorized is voluntary			
AL.	245,636	28		244,619	17	6.9	All motorboats, sailboats and rental boats			
AR	160,932	10		172,112	7		All watercraft			
λZ	124,055	7		123,223	11		All motorized watercraft			
CA	711,173	39		670,102	34	-	All motorboats; sailboats over 8 feet in length			
0	85,001	12		84,083	6		All watercraft powered by motor or sail - sailboards exempt			
CT	91,791	2		90,728	5		All motorboats; sailboats 19.5 feet or more in length			
DC	2,048	0		2,433	0		All watercraft			
DE	52,740	1	1.9	55,047	2		All motorboats; non-motorized is voluntary			
L	935,742	62		925,141	57		All motorboats			
SA	331,481	23		330,853	11		All motorboats; sailboats 12 feet or more in length			
11	12,100	4		12,371	1		All motorboats; sailboats over 8 feet in length			
4	196,965	5		231,346	8		All watercraft with exceptions (a)			
D	88,450	8		86,801	10		All motorboats and sailboats			
<u> </u>	233,788	18		245,621	17		All watercraft, except non-powered vessels on private waters			
N	208,599	16		211,287	8		All motorboats on public waterways			
(S	80,356	2		82,700	2		All motorboats and sailboats			
(Y	166,760	9		165,987	13		All motorboats, except electric motors 1 hp or less			
A	316,439	20		303,966	19		All motorboats; sailboats more than 12 feet in length			
<u>/A</u>	132,106	5		132,440	10		All motorboats			
/ID	169,891	16		170,365	16		All motorboats			
<u>/E</u>	112,396	4		111,681	4		All motorboats			
<u>/I</u>	806,296	22	2.7	795,374	22		All watercraft with exceptions (b)			
<u>/N</u>	813,955	10		819,317	14		All watercraft with exceptions (c)			
<u>/0</u>	289,416	18		289,854	14		All motorboats; sailboats over 12 feet in length			
//S	125,252	5		127,029	11	_	All motorboats and sailboats			
	72,480	<u>5</u> 16		63,063	13 30		All motorboats; sailboats 12 feet or more in length			
	361,970			359,361			All motorboats; sailboats more than 14 feet in length			
ND NE	66,961	2		62,740	2		All motorboats; non-motorized is voluntary All motorboats			
	78,212 96,006	4		88,622	4					
<u>NH</u> NJ		4		95,444	5	_	All motorboats; sailboats 12 feet or more in length			
NM	147,618 32.005	2		149,971	2		All watercraft with exceptions (d) All motorboats and sailboats			
	41,522	<u> </u>		32,505 40,930	5		All motorboats; non-motorized is voluntary			
<u>IY</u> ЭН	440,381 586,159	<u>17</u> 13		<u>444,103</u> 573,050	20 17		All motorboats All watercraft			
	,	8		198,478	7		All watercraft			
<u>DK</u> DR	194,966 165,253	0 18		198,478	17		All motorboats; sailboats 12 feet or more in length			
<u>РА</u>	301,287	8		306,781	14		All motorboats and certain non-powered craft (e)			
- <u>त</u> र।	38,836	0	2.7	39,230			All motorboats and certain non-powered crait (e)			
SC	567,443	15		39,230 551,477	16		All motorboats and rowboats over 12 reet			
SD	57,825	5		58,896	10		All motorboats; all other boats over 12 feet in length			
-N	245,991	9		239,313	22		All motorboats, all other boats over 12 feet in length All motorboats and sailboats			
X	563,820	43		239,313 562,424	38		All motorboats and sailboats All motorboats and sailboats 14 feet or more in length			
<u>^</u> JT	64,949	43		64,208			All motorboats and sailboats			
/A	221,629	20		225,732	9 11		All motorboats			
/A /T	221,629	20	9.0	225,732			All motorboats			
VA	20,333	27	14.1	244,618			All motorboats with exceptions (f); sailboats >16 ft in length			
VI	607,211	9		614,750			All motorboats & sailboats over 12 feet in length			
VV	56,297	2	-	51,239	<u>کا</u>		All motorboats & saliboats over 12 feet in length			
v v VY	25,659	2		26,656	4		All motorboats			
v r .S	25,659	<u> </u>		<u>20,050</u> 81	0		All motorboats All watercraft			
	402	0			0		All motorboats			
NMI GU	911	0	5.5	705 950	0		All motorboats All motorboats			
90 PR	25,352	2		950 24,489	1		All motorboats All motorboats; vessels adapted to hold a motor			
<u>'R</u> '		2			0		• •			
1	3,073	0	0.0	3,054	0	U.U	All watercraft			

(a) IA excludes inflatables under 7 feet in length and canoes/kayaks under 13 feet in length. (b) MI excludes manually propelled boats 16 feet or less in length, and privately-owned non-motorized rafts, canoes, and kayaks. (c) MN excludes non-motorized boats 10 feet or less in length, duckboats during duckhunting season, riceboats during harvest season, and seaplanes. (d) NJ excludes non-motorized boats less than 12 feet in length and canoes, kayaks, racing shells and rowing sculls. (e) PA registers non-powered craft using lakes or access areas owned by the State Fish & Boat Commission. (f) WA excludes motorboats < 16 feet with motors 10 horsepower or less used solely on exclusive state waters.

Registration Data



USCG Boating Accident Report Form DEPARTMENT OF HOMELAND SECURITY U.S. Coast Guard OMB Control Number: 1625-0003 RECREATIONAL BOATING ACCIDENT REPORT Expires: 07/31/2022 INSTRUCTIONS: Use "Report required because" section below to determine if a report is required for your accident. If required, please have each vessel owner or operator involved in the accident submit a report to their state reporting authority. Each boat operator/owner involved in an accident should submit a separate report. For each question below, please provide answers if applicable and if known; otherwise leave blank. **Privacy Act Notice** 46 U.S.C. 6102 and 33 CFR 173 & 174 authorize the collection of information on boating accidents. Authority: Purpose: The Coast Guard uses this information for statistical purposes, chiefly to inform the public, to measure the Program's efforts, and to regulate issues relating to boating safety. Routine Uses: The Coast Guard shares this information within the agency, and if state and federal law permit it, to the public. REPORT SUBMISSION Report required because (select all that apply): To be submitted within: 48 hours (if injury, disappearance or death) At least one person in this accident *died*: If so, how many? 10 days (if boat/property damage only) At least one injured person in this accident *required or was in need of* treatment beyond first aid: If so, how many? To be submitted to: (Local State Reporting Authority) At least one person in this accident *disappeared* and has not yet been recovered: If so, how many? All boat and other property damage (e.g., fishing/hunting gear) caused by this accident totaled (or likely totaled) \$2,000 or more: Phone: You may submit any comments concerning the accuracy of the Approximate value of damage to your boat: burden estimate or any suggestions for reducing the burden to: Commandant (CG-BSX-21), U.S. Coast Guard, Washington, DC Approximate value of damage to your other property: \$ 20593-0001 or Office of Management and Budget, Paperwork Reduction Project (1625-0003), Washington, DC 20503. Questions Your or another *boat* in this accident was (or likely was) a total loss relating to the collection of this data should be sent to the Coast Guard. **Report submitted by** (select all that apply): For State Agency Use Only Boat Operator (required if possible) Boat Owner (*if operator unable, or same as operator*) First Name Last Name Other (describe): Phone: First Name Last Name Phone Primary Cause of Accident ACCIDENT SUMMARY WHEN **ACCIDENT DESCRIPTION**: *Briefly* describe this accident (attach extra pages if necessary) Date: Time: am 🔲 pm 🔲 (select one) (mm/dd/yyyy) WHERE Body of Water Name Location (on water) description DAMAGE TO YOUR BOAT: Briefly summarize any damage to your boat Nearest city/town County: State: **YOUR BOAT - PEOPLE** DAMAGE TO YOUR OTHER PROPERTY: (NOT BOAT) *Briefly* summarize any damage to your other property (*not boat*) # people on board (including operator): # people being towed (e.g., on tubes, skis): # people wearing lifejackets (on board or towed): **OTHER BOATS INVOLVED IN ACCIDENT** # of other boats involved:

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USCG Boating Accident Report Form

	For each qu	ies	tion be	elow,	please	e pro	ovide a	answ	/ers	IF A	PPL	ICA	BLE /	AND IF K	NOW	N, o	therwise	e lea	ve blank	ζ.	
YOUR B								BOAT													
BOAT IDENTIFICATION																					
-	ur Boat Name:										Manufacturer:										
Мо	del Name:										Model Year:										
Re	gistration #:									Documentation #:											
Hu	Il Identification #																				
(H	N)										Re	ente	d:	Yes			No				
SI	SIZE ESTIMATES																				
Le	ngth: ft.		epth fro keel <i>(b</i>							ft	•			in.	Be	am w	vidth at v	/ides	t point:		ft.
нι	JLL MATERIAL		1001 10	0110111	moorp	/0/////															
Ту	pe of Hull Material	(se	lect one	e)																	
	Fiberglass				Wood							R	ubber/	vinyl/canva	as		C	ther	(describe):	
	Aluminum				Steel							PI	lastic								
BC	DAT TYPE																•				
Во	at Type (select one))													Avai	lable	Propul	sion	(select a	ll tha	at apply)
	Cabin motorboat		Inflata	able		Ca	anoe							aft (PWC)		Prop	eller		Air thru	st	
	Open motorboat		House	eboat		Ro	owboat		1				e Runn∘ Doo™)	er™, Jet		Sail			Other (describe):		
	Auxiliary sail		Sail (only)		Ai	r boat						cribe)			Manual					
	Pontoon boat		Kayal	• /					1							Water jet					
EN	IGINE																				
# E	Engines		Engine	type	and h	orse	power	' (sel	ect o	ne)					Fuel	type	e (select	all th	at apply)		
Ма	nufacturer		Out	board		Ste	erndrive	e (I/	0)		Inboa	nboard None				Gasoline			Diesel Electric		
<u> </u>		+.	Total h	orsep	ower:			p	,												
SA	FETY MEASURE							- F -							1						
0	rganizations that hav	ve								on b	oard	you	r boat	within the	past y	ear (includin	g car	riage of s	afety	/
ec	quipment, e.g., lifejac	cke	ts, anch	nor an	d line,	fire	extingu	ishe	rs):												
	US Coast Guard A	uxi	liary:	VSC	Decal	?	Ye	s		١o				I Agency ()					
	US Power Squadro	ons	:	VSC	Decal	?	Ye	s		١o	-			gency (Na	,						
	the local sets are becaude			// F :					-1.		-			Agency (Na							
#L	ife jackets on board		7				ers on I				1			extinguishe		-					
							uishers							of fire extir	-		sed:				
				AC	CID	EN.	L DE.	ΤΑΙ	LS -	- E	XTE	ERI	NAL	CONDI	ΓΙΟΝ	S					
	EATHER																				
0	verall weather was	(se		,			It was		ect or	ne)	Vis	1	-	s (select of	ne)		d was (,		
	Clear		Rain			_		ay				Go Fa	ood				0 mph (r		12 mph (liaht	-)
<u> </u>	Cloudy Foggy		Snov Hazy	-			IN	ight					DOr						0 25 mph		
	Other (describe):		TIQZ	y							1	-							o 55 mph		
							Appro	oxima	ate ai	r ter	npera	ature	e:	٩F					(stormy)		0/
W	ATER																				
Ov	erall water condition	ons	(seleci	t one):	:				Oth	er w	/ater	cor	ndition	s:							
	Up to 6 in. waves ((cal	lm)										Арр	roximate v	vater t	empe	erature:		٩	-	
	Over 6 in., up to 2	ft. ۱	waves ((chop	oy)										Stro	ng cu	rrent?		Yes		No
	Over 2 ft., up to 6 f								Haz	ardo	ous w	/ater	rs? (e.	g., rapid tio	lal flov	v, cui	rrents)		Yes		No
	Over 6 ft. waves (v	/ery	/ rough)										Cc	ngest	ed w	aters?		Yes		No
							Congested waters? Yes No								I						

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For each question below, please provide answers IF APPLICABLE AND IF KNOWN, otherwise leave blank.

ACCIDENT DETAILS - ACTIVITIES AND OPERATIONS ON YOUR BOAT

OPERATOR/PASSENGER ACTIVITIES

		e of accident:		
Activities were (select one)		senger activities (sel	11.07	
Recreational	Fishing		Tubing	Starting engine
Commercial	Hunting		Water Skiing	Making repairs
	White water a	ctivity (e.g., rafting)	Relaxing	Other (list):
BOAT OPERATIONS				
Your boat operations at time of		that apply)		
Cruising (underway under power			Racing	Towing another vessel
Changing direction	At anchor		Rowing/paddling	Launching
Changing speed	Being towed		Docking/undocking	Tied to dock/mooring
Sailing	Other (list)			
ACCIDE	NT DETAILS -		G FACTORS ON	YOUR BOAT
CONTRIBUTING FACTORS	high may have een	tributed to this easid	ant (aslast all that apply	
Indicate factors on your boat w Alcohol use	Improper look		Dam/lock	Starting in gear
			Force of wake/wave	Sharp turn
Drug use	Operator inatt			
Excessive speed	Operator inex		Hazardous waters	Restricted vision (e.g., fog)
Improper anchoring	Language bar		Heavy weather	Mission/inadequate aids to navigation (e.g., buoy, daymarker)
Improper loading	Navigation rul	es violation	Ignition of fuel or vapor	Inadequate on-board navigation lights
Overloading	Failure to ven	t	Hull failure	People on gunwale, bow or transo
Other (describe):				
Other (describe):	ACCIE	DENT DETAILS -	-YOUR BOAT	- · · · ·
MACHINERY/EQUIPMENT F	AILURE			
MACHINERY/EQUIPMENT F Failure of the following machin	AILURE ery/equipment on j	<i>your</i> boat contributed	to this accident (selec	et all that apply)
MACHINERY/EQUIPMENT F Failure of the following machin Engine	AILURE ery/equipment on j Onboard light	<i>your</i> boat contributed	to this accident (select	t all that apply) Sound equipment (e.g., horn, whist
MACHINERY/EQUIPMENT F Failure of the following machin Engine Electrical system	AILURE ery/equipment on j Onboard light Seats	<i>your</i> boat contributed	to this accident (selection Shift Radio	<i>t all that apply)</i> Sound equipment <i>(e.g., horn, whist</i> Auxiliary equipment
MACHINERY/EQUIPMENT F Failure of the following machin Engine Electrical system Fuel system	AILURE ery/equipment on j Onboard light Seats Steering	<i>your</i> boat contributed	to this accident (select Shift Radio Fire extinguisher	t all that apply) Sound equipment (e.g., horn, whist
MACHINERY/EQUIPMENT F Failure of the following machin Engine Electrical system Fuel system Sail/mast	AILURE ery/equipment on y Onboard light Seats Steering Throttle	<i>your</i> boat contributed	to this accident (selection Shift Radio	<i>t all that apply)</i> Sound equipment <i>(e.g., horn, whist</i> Auxiliary equipment
MACHINERY/EQUIPMENT F Failure of the following machin Engine Electrical system Fuel system	AILURE ery/equipment on j Onboard light Seats Steering Throttle GPS)	your boat contributed s	to this accident (select Shift Radio Fire extinguisher Ventilation	<i>et all that apply)</i> Sound equipment <i>(e.g., horn, whis</i> Auxiliary equipment Other (<i>list</i>):
MACHINERY/EQUIPMENT F Failure of the following machin Engine Electrical system Fuel system Sail/mast Onboard navigation aids (e.g.	AILURE ery/equipment on j Onboard light Seats Steering Throttle GPS)	your boat contributed s	to this accident (select Shift Radio Fire extinguisher	<i>et all that apply)</i> Sound equipment <i>(e.g., horn, whist</i> Auxiliary equipment Other (<i>list</i>):
MACHINERY/EQUIPMENT F Failure of the following machin Engine Electrical system Fuel system Sail/mast Onboard navigation aids (e.g.	AILURE ery/equipment on y Onboard light Seats Steering Throttle GPS) ACCIDENT D	vour boat contributed s DETAILS – EVEN	to this accident (select Shift Radio Fire extinguisher Ventilation	<i>et all that apply)</i> Sound equipment <i>(e.g., horn, whist</i> Auxiliary equipment Other (<i>list</i>):
MACHINERY/EQUIPMENT F Failure of the following machin Engine Electrical system Fuel system Sail/mast Onboard navigation aids (e.g.	AILURE ery/equipment on y Onboard light Seats Steering Throttle GPS) ACCIDENT D	pour boat contributed s DETAILS – EVEN accident (select all the	to this accident (select Shift Radio Fire extinguisher Ventilation TS ON YOUR BC	et all that apply) Sound equipment (e.g., horn, whisi Auxiliary equipment Other (<i>list</i>):
MACHINERY/EQUIPMENT F Failure of the following machin Engine Electrical system Fuel system Sail/mast Onboard navigation aids (e.g. ACCIDENT EVENTS Types of events occurring to/o Collision with recreational boa	AILURE ery/equipment on y Onboard light Seats Steering Throttle GPS ACCIDENT D Through the seats	vour boat contributed s DETAILS – EVEN accident (select all the Flooding/swamping	to this accident (select Shift Radio Fire extinguisher Ventilation TS ON YOUR BC	et all that apply) Sound equipment (e.g., horn, whise Auxiliary equipment Other (<i>list</i>): DAT Person fell overboard
MACHINERY/EQUIPMENT F Failure of the following machin Engine Electrical system Fuel system Sail/mast Onboard navigation aids (e.g.) ACCIDENT EVENTS Types of events occurring to/o Collision with recreational boa	AILURE ery/equipment on j Onboard light Seats Steering Throttle GPS) ACCIDENT D h your boat during t (e.g., tug, barge)	your boat contributed s s DETAILS – EVEN accident (select all the Flooding/swamping Fire/explosion – fue	to this accident (select Shift Radio Fire extinguisher Ventilation TS ON YOUR BC	et all that apply) Sound equipment (e.g., horn, whist Auxiliary equipment Other (<i>list</i>): DAT Person fell overboard Person fell on/within boat
MACHINERY/EQUIPMENT F Failure of the following machin Engine Electrical system Fuel system Sail/mast Onboard navigation aids (e.g. ACCIDENT EVENTS Types of events occurring to/o Collision with recreational boa Collision with fixed object (e.g.)	AILURE ery/equipment on y Onboard light Seats Steering Throttle GPS ACCIDENT D h your boat during t (e.g., tug, barge) , dock, bridge)	your boat contributed s s DETAILS – EVEN accident (select all the Flooding/swamping Fire/explosion – fue Fire/explosion – no	to this accident (select Shift Radio Fire extinguisher Ventilation TS ON YOUR BC	et all that apply) Sound equipment (e.g., horn, whist Auxiliary equipment Other (<i>list</i>): DAT Person fell overboard Person fell on/within boat Sudden medical condition
MACHINERY/EQUIPMENT F Failure of the following machin Engine Electrical system Fuel system Sail/mast Onboard navigation aids (e.g.) ACCIDENT EVENTS Types of events occurring to/or Collision with recreational boa Collision with fixed object (e.g.) Collision with submerged objecable)	AILURE ery/equipment on y Onboard light Seats Steering Throttle GPS ACCIDENT D ACCIDENT D t t (e.g., tug, barge) c, dock, bridge) ct (e.g., stump,	your boat contributed s s DETAILS – EVEN accident (select all the Flooding/swamping Fire/explosion – fue	to this accident (select Shift Radio Fire extinguisher Ventilation TS ON YOUR BC	et all that apply) Sound equipment (e.g., horn, whist Auxiliary equipment Other (<i>list</i>): DAT Person fell overboard Person fell on/within boat
MACHINERY/EQUIPMENT F Failure of the following machin Engine Electrical system Fuel system Sail/mast Onboard navigation aids (e.g. ACCIDENT EVENTS Types of events occurring to/or Collision with recreational boar Collision with fixed object (e.g. Collision with submerged object	AILURE ery/equipment on y Onboard light Seats Steering Throttle GPS ACCIDENT D ACCIDENT D t t (e.g., tug, barge) c, dock, bridge) ct (e.g., stump,	your boat contributed s s DETAILS – EVEN accident (select all the Flooding/swamping Fire/explosion – fue Fire/explosion – no	to this accident (select Shift Radio Fire extinguisher Ventilation TS ON YOUR BC	et all that apply) Sound equipment (e.g., horn, whist Auxiliary equipment Other (<i>list</i>): DAT Person fell overboard Person fell on/within boat Sudden medical condition
MACHINERY/EQUIPMENT F Failure of the following machin Engine Electrical system Fuel system Sail/mast Onboard navigation aids (e.g.) ACCIDENT EVENTS Types of events occurring to/or Collision with recreational boa Collision with fixed object (e.g.) Collision with submerged obje cable)	AILURE ery/equipment on y Onboard light Seats Steering Throttle GPS ACCIDENT D ACCIDENT D t t (e.g., tug, barge) c, dock, bridge) ct (e.g., stump,	your boat contributed s s DETAILS – EVEN accident (select all the Flooding/swamping Fire/explosion – fue Fire/explosion – no Carbon monoxide e Mishap of skier, tub	to this accident (select Shift Radio Fire extinguisher Ventilation TS ON YOUR BC at apply)	et all that apply) Sound equipment (e.g., horn, whist Auxiliary equipment Other (list): DAT Person fell overboard Person fell on/within boat Sudden medical condition Person struck by boat Person struck by propeller or propulsio
MACHINERY/EQUIPMENT F Failure of the following machin Engine Electrical system Fuel system Sail/mast Onboard navigation aids (e.g. ACCIDENT EVENTS Types of events occurring to/o Collision with recreational boa Collision with fixed object (e.g Collision with fixed object (e.g Collision with fixed object (e.g) Collision with floating object (e.g)	AILURE ery/equipment on y Onboard light Seats Steering Throttle GPS ACCIDENT D ACCIDENT D t t (e.g., tug, barge) c, dock, bridge) ct (e.g., stump,	your boat contributed s s DETAILS – EVEN accident (select all that Flooding/swamping Fire/explosion – fue Fire/explosion – no Carbon monoxide e Mishap of skier, tub boarder, etc. Person left boat vol	to this accident (select Shift Radio Fire extinguisher Ventilation TS ON YOUR BC at apply)	all that apply) Sound equipment (e.g., horn, whist Auxiliary equipment Other (list): DAT Person fell overboard Person fell on/within boat Sudden medical condition Person struck by boat Person struck by propeller or propulsio unit Person electrocuted

For each question below,	please provide answers	IF APPLICABLE AND IF KNOW	N, otherwise leave blank.
· • • • • • • • • • • • • • • • • • • •			

ACCIDENT DETAILS -YOUR BOAT-INJURED PEOPLE RECEIVING OR IN NEED OF TREATMENT BEYOND FIRST AID

Report only injured people on, struck by, or being towed by your boat, receiving or in need of treatment beyond first aid. Do not report injured people on, struck by, or being towed by another boat or no boat (e.g., swimmers, people on a dock). If more than one injured person to report, attach additional copies of this page. If none, SKIP INJURED PEOPLE section.

IN	INJURED PERSON															
Fir	st Name			MI			Last	Name								
Street																
Cit	у			State	е				Zip							
Ph	one			Date (mm/		Birth /yyy)			Age							
IN	JURY DETAILS															
Inj	ury caused when person (select all tha	t appl	ly)				Nature of most serious injury (select one)									
	Struck the (e.g., boat, water):							Scrape/bruise		Dis	location					
	Was struck by a (e.g., boat, propeller):							Cut		Inte	ernal organ i	njur	/			
	Was exposed to carbon monoxide poise	oning						Sprain/strain		Am	putation					
	Received an electric shock							Concussion/brain	n injury	Bu	rn					
	Other (describe):							Spinal cord injury	y	Oth	ner <i>(describe</i>):				
Pe	son was wearing lifejacket?		,	Yes		No		Broken/fractured	bone							
Pe	son received treatment beyond first a	id?	,	Yes		No	Bo	dy part of <i>most ser</i>	d, trunk, leg):							
Pei	son was admitted to a hospital?			Yes		No										
	ACCIDENT DE	TAIL	_S -	YOU	IR	BOA	\T -	DEATHS/DIS	SAPPEARA	NCE	S					
lf r	nly report deaths/disappearances of peop nore than one death/disappearance to re none, SKIP DEATHS/DISAPPEARANCE	port,	attac	-		-										
PE	RSON WHO DIED/DISAPPEARED															
Fir	st Name			MI			Last	Name								
Sti	reet			•												
Cit	у			State	е				Zip							
Ph	one			Date (mm/		Birth /yyy)		Age								
DE	TAILS OF DEATH/DISAPPEARAN	CE														
Inj	ury caused when person (select all tha	t appl	ly)				Nat	ure of death/disa	ppearance (sele	ect on	e)					
	Struck the (e.g., boat, water):							Death - by drown	ing							
	Was struck by a (e.g., boat, propeller):							Death – other likely cause (describe)								
	Was exposed to carbon monoxide poise	oning														
	Received an electric shock							Disappeared and	not yet recovere	d						
	Other (describe):							Person was wear	ring lifejacket?		Yes		No			
											1	L				

CG-3865 (9/18)

For each question below, please provide	answers	IF APPI	LICABLE AND IF	KNOWN, otherwise	leave	blank.						
ACCIDENT DI	ETAILS	- YOU	IR BOAT OPE	RATOR								
OPERATOR INSTRUCTION	OPERATOR SAFETY MEASURES											
Boating safety instruction completed (select all that apply)			On board, prior to accident, was operator wearing:									
None				?	Yes	No						
State course		Ar	n engine cut-off swi	itch (Lanyard or wireles device) if equipped		Yes	No					
USCG Auxiliary course		On boa	ard, prior to accide	nt, was operator using:								
US Power Squadrons course				Alcohol	?	Yes	No					
Internet (name of sponsoring organization)				Drugs	?	Yes	No					
Other (describe)		Operate	or arrested for Boat	ting Under the Influence	e?	Yes	No					
		V	/eather reports con	sulted prior to accident	?	Yes	No					
OPERATOR EXPERIENCE							·					
Experience operating this type of boat (select one)												
0 to 10 hours Over 10, up to 100 hours	3		Over 100, up to 50	0 hours	Ove	r 500 ho	urs					
ACCIDENT	DETAIL	S – 01	THER KEY PE	OPLE	1							
Only report other key people not already documented a If more than two other key people to report, attach addi				or/owner of <i>your</i> boat.								
NAME/ADDRESS												
This other key person was a(n) (select all that apply)												
Other boat operator	Owner of	<i>other</i> da	maged property	Passenger on you	<i>ır</i> boat	M	/itness					
First Name	MI	Last Name										
Street												
City	State		Zip	Phone								
<i>Other</i> boat name <i>(if any)</i>		Other boat registration # (if any)										
NAME/ADDRESS												
This other key person was a(n) (select all that apply)												
Other boat operator	Owner of	<i>other</i> da	maged property	Passenger on you	<i>ır</i> boat	<u></u> ₩	/itness					
First Name	MI		Last Name									
Street												
City State Zip Phone												
<i>Other</i> boat name <i>(if any)</i>	1		Other boat registr	ration # <i>(if any)</i>								
			1									

	For each question bel	ow, please provid	de answers I	F AP	PLICABLE	E AN	ND IF KNOWN, ot	herwise leave blank.	
		Y	YOUR BO	AT C	PERAT	OR			
NA	NAME/ADDRESS								
Fire	st Name		MI	La	ast Name				
Str	Street								
Cit	City State Zip								
AG	AGE/GENDER/PHONE								
	e of Birth n/dd/yyyy)								
			YOUR B	ΟΑΤ		R			
lf s	ame as <i>your</i> boat operator s	SKIP rest of YOU	R BOAT OW	/NEF	R section.				
NA	ME/ADDRESS/PHONE								
Fire	st Name		MI	La	ast Name				
Str	eet			1					
Cit	1		State	Zi	р			Phone	
		PERSC	N SUBMI	TTIN	NG THIS	RE	PORT		
lf s	ame as <i>your</i> boat operator (OR owner, SKIP	rest of PERS	ON S	SUBMITTI	NG	THIS REPORT se	ection.	
NA	ME/ADDRESS/PHONE/RC	ILE							
Fire	st Name		MI	La	ast Name				
Str	eet								
Cit	1		State	Zi	р			Phone	
۱w	vas a(n) (select one)								
	Other person on board this bo	bat							
	Accident witness not on board	d <i>this</i> boat							
	Other (describe):								
	SI	GNATURE O	F PERSON	I SU	BMITTI	١G	THIS REPOR	г	
Yo	ur signature							Date (mm/dd/yyyy)	
	n Agency may not conduct isplays a currently valid OM			ot req	uired to re	spo	nd to an informati	on collection, unless it	
C E	The Coast Guard estimates that the average burden for this report form is 30 minutes. You may submit any comments concerning the accuracy of this burden estimate or any suggestions for reducing the burden to: Commandant (CG-BSX-21), U.S. Coast Guard, Washington, DC 20593-0001 or Office of Management and Budget, Paperwork Reduction Project (1625-0003), Washington, DC 20503.								

Glossary

Airboat - A vessel that is typically flat-bottomed and propelled by an aircraft-type propeller powered by an engine.

At Anchor - Held in place in the water by an anchor; includes "moored" to a buoy or anchored vessel and "dragging anchor".

Auxiliary Sail - A vessel with sail as its primary method of propulsion and mechanical propulsion as its secondary method.

Cabin Motorboat - A vessel propelled by propulsion machinery and providing enclosed spaces inside its structure.

Canoe - A small narrow boat, propelled by paddles. Canoes usually are pointed at both bow and stern and are normally open on top, but can be covered.

Capsizing - Overturning of a vessel.

Carbon Monoxide Poisoning - Death or injury resulting from an odorless, colorless gas generated from auxiliary boat equipment (stoves, heaters, refrigerators, generators, hot water heaters, etc.), another boat's exhaust, or the exhaust of the vessel on which persons were either aboard or in close proximity.

Collision with Fixed Object - The striking of any fixed object, above or below the surface of the water.

Collision with Floating Object - Collision with any waterborne object above or below the surface that is free to move with the tide, current, or wind, except another vessel.

Collision with Commercial/Governmental/Recreational Vessel - Any striking together of two or more vessels, regardless of operation at the time of the accident, is a collision.

Collision with Submerged Object - A boat's collision with any waterborne or fixed object that is below the surface of the water.

Congested Waters - Where the body of water is either too small or narrow to safely accommodate the number of boats on it.

Cruising - Proceeding normally, unrestricted, with an absence of drastic rudder or engine changes.

Departed Vessel - An accident where a person voluntarily disembarks a vessel by his/her own will (i.e. by diving off, jumping in), as opposed to a case where the person is forcefully ejected by a change in the vessel speed and/or direction.

Documented Vessel - A vessel of five or more net tons owned by a citizen of the United States and used exclusively for pleasure with a valid marine document issued by the Coast Guard. Documented vessels are not numbered.

Drifting - Underway, but proceeding over the bottom without use of engines, oars or sails; being carried along only by the tide, current, or wind.

Electrocution - Death or injury resulting from an electrical current that comes in contact with water causing electrocution of the victim.

Excessive Speed - Speed above that which a reasonable and prudent person would have operated under the conditions that existed. It is not necessarily a speed in excess of a posted limit.

Failure to Vent - Prior to starting the engine, failure to turn on the powered ventilation system that

brings in "fresh air" and expels gasoline vapors from the engine compartment.

Fall in Vessel - Any operator or passenger who slips, trips, or falls on board or within the vessel.

Falls Overboard - Any operator or passenger who falls off of the vessel.

Fiberglass hull - Hulls of fiber-reinforced plastic. The laminate consists of two basic components, the reinforcing material (glass filaments) and the plastic or resin in which it is embedded.

Fire/Explosion (fuel) - Accidental combustion of vessel fuel, liquids, including their vapors, or other substances such as wood.

Fire/Explosion (other) - Accidental burning or explosion of any material onboard except vessel fuels or their vapors.

Flooding/Swamping - Filling with water, regardless of method of ingress, but retaining sufficient buoyancy to remain on the surface.

Force of Wave/Wake - The track in the water of a moving boat; commonly used for the disturbance of the water (waves) resulting from the passage of the boat's hull.

Fueling - Any stage of the fueling operation; primarily concerned with introduction of explosive or combustible vapors or liquids on board.

Grounding - Running aground of a vessel, striking or pounding on rocks, reefs, or shoals; stranding.

Hazardous Waters - Rapid tidal flows (the vertical movement of water) and/or currents (the horizontal flow of water) resulting in hazardous conditions in which to operate a boat.

Houseboat - A motorized vessel that is usually non-planing and designed primarily for multi-purpose accommodation spaces with low freeboard and little or no foredeck or cockpit.

Hull Failure - Defect or failure of the structural body of a vessel (i.e., hull material, design, or construction) not including superstructure, masts, or rigging.

Ignition of Spilled Fuel or Vapor - Accidental combustion of vessel fuel, liquids, and/or their vapors.

Improper Anchoring - Where a boat is either in the process of being anchored incorrectly or incorrectly held in place in the water by an anchor.

Improper Loading - Loading, including weight shifting, of the vessel causing instability, limited maneuverability, or dangerously reduced freeboard.

Improper Lookout - No proper watch; the failure of the operator to perceive danger because no one was serving as lookout, or the person so serving failed in that regard. Every vessel shall at all times maintain a proper look-out by sight and hearing as well as by all available means appropriate in the prevailing circumstances and conditions so as to make a full appraisal of the situation and of the risk of collision.

Inboard– An engine mounted inside the confines of a vessel which powers a drive shaft that turns a water jet impeller or that runs through the bottom of the hull and is attached to a propeller at the other end.

Inflatable - A vessel that uses air-filled flexible fabric for buoyancy.

Kayak - A small boat with a cockpit that is propelled by a double-bladed paddle by a sitting paddler.

Inadequate On-board Navigation Lights - Insufficient and/or improper lights shown by a boat that indicate course, position, and occupation, such as fishing or towing.

Machinery Failure - Defect and/or failure in the machinery or material, design or construction, or components installed by the manufacturer involved in the mechanical propulsion of the boat (e.g., engine, transmission, fuel system, electric system, and steering system).

Missing or Inadequate Navigation Aids - The absence of or ineffective presence of navigation aids.

Motorboat - Any vessel equipped with propulsion machinery.

Navigation Rules Violation - Violation of the statutory and regulatory rules governing the navigation of vessels.

Numbered vesse - An undocumented vessel numbered by a state with an approved numbering system under Chapter 123 of title 46, U.S.C.

Open Motorboat - A vessel equipped with propulsion machinery and having an open load carrying area that does not have a continuous deck to protect it from the entry of water.

Operator Inattention - Failure on the part of the operator to pay attention to the vessel, its occupants, or the environment in which the vessel is operating.

Operator Inexperience - Lack of practical experience or knowledge in operating a vessel or, more particularly, the vessel involved in the accident.

Outboard - An engine with propeller or water jet integrally attached, which is usually mounted at the stern of a vessel.

Overloading - Excessive loading of the vessel causing instability, limited maneuverability, dangerously reduced freeboard, etc.

Paddlecraft - A vessel powered only by its occupants, using a single or double- bladed paddle as a lever without the aid of a fulcrum provided by oarlocks, thole pins, crutches, or similar arrangements.

People on Gunwale, Bow or Transom - Standing/Sitting on the upper edge of the side of a boat, usually on a small projection above the deck; and/or standing/sitting on the most forward part of the boat; and/or standing/sitting on the back of the boat.

Person Struck by Vessel - A person is struck by a boat.

Person Struck by Propeller - A person is struck by the propeller, propulsion unit, or steering machinery.

Personal Watercraft - A vessel propelled by a water-jet pump or other machinery as its primary source of motive power and designed to be operated by a person sitting, standing, or kneeling on the vessel, rather than sitting or standing within the vessel's hull.

Pod drive- An engine mounted in front of the transom of a vessel and attached through the bottom of the hull to a steerable propulsion unit.

Pontoon Boat - A vessel with a broad, flat deck that is affixed on top of closed cylinders which are used for buoyancy, the basic design of which is usually implemented with two rows of floats as a catamaran or with three rows of floats as a trimaran.

Restricted Vision - A vessel operator's vision is said to be restricted when it is limited by a vessel's bow high trim, or by glare, sunlight, bright lights, a dirty windshield, spray, a canopy top, etc.

Rowboat - An open vessel manually propelled by oars.

Sail (only) - A vessel propelled only by sails.

Sharp Turn - An immediate or abrupt change in the boat's course of direction.

Sinking - Losing enough buoyancy to settle below the surface of the water.

Skier Mishap - Skier mishap is defined by persons (1) falling off their water-skis, (2) striking a fixed or submerged object, or by (3) becoming entangled or struck by the tow line. Also includes mishaps involving inner-tubes and other devices on which a person can be towed behind a boat.

Standup Paddelboard - A vessel, typically 7' - 15' in length with enough width and flotation to stay afloat without momentum while boarded, that is propelled by a standing operator with the use of a single or double-bladed paddle.

Starting in Gear - The boat's engine is started with the transmission in forward or reverse.

Steel hull - Hulls of sheet steel or steel alloy, not those with steel ribs and wood, canvas, or plastic hull coverings.

Sterndrive - An engine, powering a propeller through a series of shafts and gears, mounted in front of the transom of a vessel and attached through the transom to a drive unit that is similar to the lower unit of an outboard; and may also be known as an inboard-outdrive or an inboard-outboard.

Sudden Medical Condition - An incident where a person on a vessel experiences an unexpected medical condition.

Towing - Engaged in towing any vessel or object, other than a person.

Weather - As a contributing factor of an accident, "Weather" is supposed to signify a stormy or windy condition, usually connoting rough or high seas and dangerous operating conditions.

Wood Hull - Hulls of plywood, molded plywood, wood planking, or any other wood fiber in its natural consistency, including those of wooden construction that have been "sheathed" with fiberglass or sheet metal.

Glossary of State Codes

AL	Alabama	NJ	New Jersey
AK	Alaska	NM	New Mexico
AZ	Arizona	NY	New York
AR	Arkansas	NC	North Carolina
CA	California	ND	North Dakota
CO	Colorado	ОН	Ohio
СТ	Connecticut	OK	Oklahoma
DE	Delaware	OR	Oregon
DC	District of Columbia	PA	Pennsylvania
FL	Florida	RI	Rhode Island
GA	Georgia	SC	South Carolina
HI	Hawaii	SD	South Dakota
ID	Idaho	TN	Tennessee
IL	Illinois	ТΧ	Texas
IN	Indiana	UT	Utah
IA	lowa	VT	Vermont
KS	Kansas	VA	Virginia
KY	Kentucky	WA	Washington
LA	Louisiana	WV	West Virginia
ME	Maine	WI	Wisconsin
MD	Maryland	WY	Wyoming
MA	Massachusetts	GU	Guam
MI	Michigan	PR	Puerto Rico
MN	Minnesota	VI	Virgin Islands
MS	Mississippi	AS	American Samoa
MO	Missouri	CNMI	Northern Mariana Islands
MT	Montana	AT	Atlantic Ocean
NE	Nebraska	GM	Gulf of Mexico
NV	Nevada	PC	Pacific Ocean
NH	New Hampshire		