

2018

Boating Accident Statistical Report



Florida Fish and Wildlife Conservation Commission

Division of Law Enforcement

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2018 Boating Officer of the Year



Officer Juan Blanco

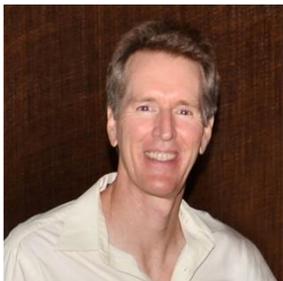
Officer Juan Blanco began doing volunteer work for the Florida Fish and Wildlife Conservation Commission (FWC) in 2010 and fell in love with the agency and mission. His love for the outdoors led him to study and receive a diploma in 2011 in wildlife and forestry conservation.

After graduating FWC's Academy Class 28, he returned to Miami-Dade County as an officer. Juan constantly refers to his job as "the career that I dreamed of". Juan has taken a leadership role in Boating Under the Influence (BUI) and Driving Under the Influence (DUI) enforcement within his assigned patrol area. His passion for public safety through education and enforcement of impaired operators led him to become a Breath Test Operator and attend the Standardized Field Sobriety Task Proficiency training and Seated Battery Proficiency training. Juan's services and expertise are routinely sought after by his fellow officers. Juan participated in multiple BUI saturation details in Miami-Dade County this year and he has personally made over 25 arrests for BUI. He also issued 124 boating citations and numerous resource and boating safety warnings. Even more impressive, is he assisted with multiple BUI investigations in which he mentored many officers in BUI procedures and has made 50 BUI arrests, collectively with his squad.

Juan has not only excelled in boating safety and BUI enforcement but also in resource protection. Juan has participated in commercial fisheries details and has taken a proactive approach in learning both commercial and recreational fishery regulations in his area. He worked with The National Park Service on multiple commercial fisheries inspections and enforcement.

Juan's work ethic has influenced his peers to understand the importance of public service and public relations. He is a strong believer in education and has led and participated in over a dozen "Career Days" at local schools. He is constantly called upon by fellow officers to assist in public outreach events due to his passion to educate the public and reach the next generation. Juan also takes advantage of every encounter with the public as an opportunity to educate, recruit and simply have a positive interaction.

2018 Boating Educator of the Year



Steve Marshall

Steve Marshall has worked for FWC/Game and Freshwater Fish Commission for over 32 years. He has been working on FWC's boating and fishing camps since 2006 and began working with FWC's Florida Youth Conservation Center Network (FYCCN) since its inception in 2010.

Steve is currently a Partnership Coordinator for FYCCN and he works hard to develop and retain partnerships with organizations that provide outdoor experiences for youth in Florida and to make sure the kids experience the outdoors. Steve strives to make sure kids have a wonderful outdoor experience and learn how to participate in boating and fishing.

These camps were originally only fishing camps. Steve realized that many kids could someday use boats when they were fishing, so it made sense to incorporate boating safety into the camps. Several years ago, Steve began including the boating safety course into the camp curriculum. Kids (ages 9 to 15) get out in canoes, kayaks, or Jon boats powered by small electric motors. Youth campers can take a boating safety course at the end of the camp. The most important part is to experience boating in a safe atmosphere (on a small body of water with adult supervision) while learning about safe boating. For many of these kids, this was their first experience with boating and boating safety. The combination of practical boating experience, combined with the safety knowledge, is something that makes these camps different from many others.

Steve has also worked with the Florida Fishing Academy (FFA) in Palm Beach County in supporting their after-school youth programs. The FFA have used the boating instruction plan from FWC's Fishing and Boating Camp as a platform to teach more than a thousand kids in 2017.

Steve is involved with the Recreational Boating and Fishing Foundation (RBFF). He has worked to make sure the RBFF Hispanic outreach was established in Miami-Dade County in the form of the Vamos A Pescar (Take Me Fishing) event. Currently, Steve is working with Palm Beach County on a similar program that expands youth participation in boating and fishing. Overall, Steve has put a great deal of time and effort into ensuring that thousands of kids over his career have been introduced to boating and boating safety instruction. For many of these kids, this is the perfect time for them develop safe boating habits that will serve them well for the rest of their lives.

INTRODUCTION

The Florida Fish and Wildlife Conservation Commission (FWC), powered by science-based leadership, is committed to creating a sustainable and healthy future for Florida's fish, wildlife, water and habitat resources. The FWC serves Floridians and visitors alike in a variety of ways, most of which revolve around our mission of managing fish and wildlife resources for their long-term well-being and the benefit of people. The Division of Law Enforcement (DLE) is perhaps the most visible tool within the FWC's "tool belt" used to meet its goal of providing healthy resources for safe, satisfied customers.

THE DIVISION OF LAW ENFORCEMENT

Roles and Mission

The FWC is the only state agency in Florida tasked with the management of the state's fish and wildlife resources. As a primary responsibility, the FWC's Division of Law Enforcement focuses on enforcing regulations aimed at protecting and sustaining these resources both for their long-term well-being and the benefit of Florida's residents and visitors, all the while blending in its unique and specialized public safety role. The Division's mission is clear... "Protecting Florida's natural resources and people through proactive and responsive law enforcement services."

Responsibilities

The FWC Division of Law Enforcement provides protection to those who enjoy Florida's natural resources, while also enforcing resource protection and boating safety laws. Officers patrol rural, wilderness, inshore and offshore areas, and where other law enforcement agencies do not routinely patrol. FWC officers have the authority to enforce all the laws of the state and are cross-deputized to enforce federal fisheries and wildlife laws.

In the course of carrying out their broad responsibilities, FWC officers seek every opportunity to educate and introduce Floridians and visitors to the wonders of Florida's fish, wildlife, and natural resources, as well as safe boat operation and safety equipment requirements.

The Division also provides general law enforcement services as part of Florida's statewide emergency response network. Because of their unique jurisdiction and specialized training and equipment, FWC is also charged with protecting the state's waterways and critical infrastructure during times of heightened security threat levels. As seasoned first responders, FWC officers are trained to move fast and efficiently.

Moving forward into the future, FWC will continue to pursue and apply advances in technology to improve response to both conservation and general law enforcement incidents. When duty calls, FWC will always be among the first to respond, providing aid as needed. Until then, FWC will continue to lead the way in natural resource protection, proactive boating safety law enforcement and education are what we do best.

Uniquely prepared

On the water, in the woods and in the air, FWC law enforcement officers are uniquely situated and equipped to identify and respond to illegal activity and promote public safety, particularly in the maritime and wilderness areas.

Core Missions

The FWC protects Florida's people and natural resources. The Division of Law Enforcement is an integral part of the agency and is vital in fulfilling the agency's responsibilities. These core missions reflect the unique capabilities, training and equipment our personnel use to achieve those responsibilities.

Resource Protection and

Access: State and federal fisheries and wildlife law enforcement. Threatened and endangered species protection. Captive and nonnative wildlife management. Habitat protection. Investigations. Education and outreach programs developing the next generation that cares.

Environmental Protection:

State and federal environmental law enforcement. Cultural and natural resources protection and preservation. State lands and water quality protection. Investigations. Education and outreach programs developing the next generation that cares.

Boating and Waterways:

Boating rules and regulation enforcement. Boating safety campaigns and education. Access to public waters. Waterway management and accurate signage. Boating accident investigations. Derelict vessel prevention and investigation. Vessel theft and title fraud investigation.

Public Safety:

Provide a safe experience for residents and visitors engaged in outdoor activities. Interagency support and coordination. Specialized response units. Disaster response. Search and rescue. Intelligence and security. General and specialized law enforcement services. Critical incident investigations.

Intervention equals prevention on the water

FWC officers help to ensure Floridians and visitors are safe when they are on the water. The FWC accomplishes this through proactive law enforcement by initiating boating safety, fisheries, and hunting inspections and identifying and minimizing potential navigation or environmental hazards in the waterways.

FWC's Boating and Waterways Section supports officer efforts by coordinating statewide boating safety efforts. Some examples of support include education campaigns, ensuring waterway markers are accurate and maintained, permitting and marking speed-regulated areas, coordinating initiatives aimed at removing derelict vessels and improving public boating access.

With close to a million vessels, Florida leads the nation in the number of registered vessels. As a negative consequence of high vessel numbers and our mild climate, Florida also leads the nation in the number of boating fatalities in the nation annually. The vast size of our inland, coastal and offshore patrol areas combined with a significant population of avid and diverse boaters, presents a unique and daunting challenge for FWC and our local and federal maritime enforcement partners.

Boating education is critical

The 2018 Boating Accidents Statistical Report indicates there were 628 reportable boating accidents and 59 boating related fatalities in the calendar year. This total includes four missing persons who at the end of 2018 have not been located or accounted for and their circumstances suggest that death or serious injury has occurred. Many of the deaths were due to victims falling overboard and drowning. A large number of the deaths could have been prevented if the victims had worn life jackets. FWC continues efforts to reduce the number of boating-related fatalities through education about the importance of wearing life jackets while boating.

Florida's current boating safety education law only applies to boaters born on or after January 1, 1988 operating a motorized vessel of 10 horsepower or greater. The face-to-face contacts by FWC officers and our partner agencies are a critical part of our outreach efforts and education to the boating public. These statistics show us that the boat operator most likely to be involved in a boating accident is a middle-age or older male who has boating experience yet has never learned the most important safety considerations by having taken a boating safety course. When officers observe boating violations or perform resource enforcement activities, they conduct boating safety inspections aimed at both identifying and preventing violations or accidents. FWC officers make boating safer and ultimately save lives.

Safe boating is a choice

Florida is a leader in promoting boating accident prevention. The FWC, in association with the National Safe Boating Council, Bombardier Recreational Products Inc., West Marine, and the USCG has launched a statewide boating safety campaign as part of a national initiative. The "Wear It Florida" campaign encourages boaters to wear life jackets anytime they are on the water and educates boaters about the ease and convenience of inflatable life jackets. The campaign is designed to reach the public through a variety of methods including media events, exhibits, personal contacts, social media, radio and televised public service announcements.

--- Division of Law Enforcement Values ---

Integrity

We value candor, honesty and the highest standards of ethical behavior and are committed to upholding our positions of public trust.

Professionalism

We value the skillful performance which demonstrates a clear sense of commitment and direction in an environment that encourages teamwork and innovation.

Dedication

We value the motivation and dedication with which our members serve the visitors and residents of Florida.

Adaptability

We value our unique capability to adapt and respond appropriately to diverse circumstances in all environments.

ABOUT THIS REPORT

The 2018 Boating Accidents Statistical Report is compiled by the Boating and Waterways Section of the FWC's Division of Law Enforcement. Most of the data contained in this report is gathered from boating accident investigative reports submitted by FWC officers and our marine law enforcement partners.

At the end of each calendar year, boating accident data is compiled and assembled into Florida's annual report. The FWC's Boating and Waterways Section analyzes this information and uses it to formulate proactive plans aimed at reducing the number of boating accidents and their related injuries, fatalities and property damage. This information is also reported to the USCG's Boating Safety Division in Washington, D.C., to be included in the national database consisting of data from all U.S. states and territories.

The statistics reflect data from "reportable boating accidents" that occurred in Florida. Boating accidents must meet at least one of the five criteria below to be classified as reportable:

- A person dies.
- A person disappears under circumstances that indicate possible death or injury.
- A person receives an injury requiring medical treatment beyond immediate first aid.
- There is at least \$2,000 aggregate property damage to the vessel(s) or other property.
- There is a total loss of a vessel.

The number of vessels registered in Florida increased slightly in 2018. With 950,740 registered vessels, Florida leads the nation in registered vessels. Additionally, it is estimated that up to one million non-registered vessels actively use Florida's waters, and this segment of the boating population appears to still be growing. Our waterways show the strains of congestion as each year brings more residents and visitors together to utilize our abundant water resources and enjoy Florida's boating lifestyle.



Officer Lane Kinney and Investigator John Brown rescuing a boater that had capsized his vessel after losing control of it on Holmes Creek. Officers conducted a Boating Under the Influence (BUI) investigation after noting the operator exhibited signs of intoxication. The officer's investigation resulted in the operator being arrested for BUI.

2018 SUMMARY

BOATING ACCIDENT REVIEW

- Florida leads the nation with a total number of **950,740** registered vessels in 2018.
- There were a total of **628** reportable boating accidents in 2018.

REPORTABLE BOATING ACCIDENT

- Collision with vessel was the leading type of accident with a total of **178 (28%)**.
- Towed watersport activities were involved in **8 accidents**, resulting in **8 injuries**.
- Paddlecraft (canoes, kayaks, rowboats, paddleboards) were involved in **13 accidents** resulting in **nine fatalities** and **eight injuries**.
- **July** was the month with the highest number of accidents (**90**).
- **Monroe County** reported the highest number of accidents and injuries (82 total accidents with five fatalities and 29 injuries).

REPORTABLE BOATING FATALITIES

- **56 fatal accidents** for 2018 resulting in **59 fatalities**.
- **32%** of the fatal accidents were **falls overboard** (18 accidents). Boaters falling overboard remains the leading type of boating fatality.
- **The leading cause of death** in fatal boating accidents was **drowning** with **29 fatalities (49%)**.
- **October** was the deadliest month in 2018 with **8 fatalities**.
- Alcohol or drug-use is reported to have played a role in **19%** boating fatalities.
- **86% (51)** of the victims of fatal boating accidents were **males**.
- **82% (51)** of the 62 operators involved in fatal accidents were **age 36 or older**.
- **82% (51)** of all vessels involved in fatal accidents in 2018 were **21 feet in length or less**.

REPORTABLE BOATING INJURIES

- There were **628 accidents** resulting in **307 injuries**. The rate of injury was **32 injuries** per 100,000 registered vessels.

REPORTABLE PERSONAL WATERCRAFT ACCIDENTS

- Personal watercraft (PWC) accounted for 14% of all registered vessels in Florida.
- PWC were involved in 19% (120) of reportable boating accidents.
- **Rented PWC** represented **45% (78)** of PWC involved in accidents.
- **54% (65)** of PWC accidents involved a **collision with another vessel**.
- **51%** of PWC accidents occurred in Miami-Dade (20), Monroe (16), Pinellas (13), and Okaloosa (12) counties.
- **7 fatalities** resulted from the 120 PWC accidents.
- **87 people** were injured in PWC accidents.

BOATING EDUCATION STATISTICS

- FWC issued **48,771** Boating Safety Education ID Cards in 2018.
- **64%** of the cards were issued to persons born on or after January 1, 1988.
- Of the 48,771 cards issued, 35,440 were to males, 13,281 were to females. 50 did not provide their gender. An additional 973 cards were printed for lost, damaged and information changes.
- **77%** of the **operators** involved in fatal accidents had **no formal boater education**.

Boating accident statistics for 2018 were compiled on April 3, 2019. Reports received after that date were not included in the following data. In 2018, there were four missing persons reported. There has not been any updated information as to their status as of the date of this report compilation. The four missing persons have been included in the fatality data.

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Boating Accident Review



04/09/2018



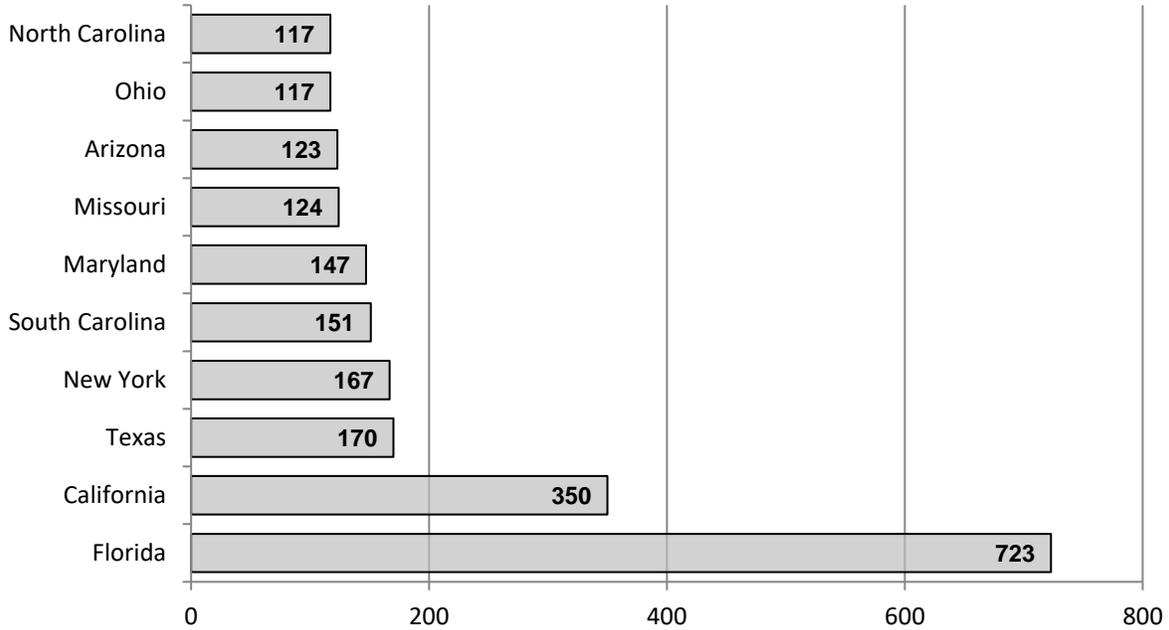
Boating Accident Review photo detail

Cover Photo: (Courtesy of FWC)

On April 8th, an accident occurred on the St. John's River at approximately 7:30 pm. A 33-foot center console vessel with 13 people on board travelling toward Ed Stone State Park. The vessel operator fell asleep at the helm while the vessel was traveling at approximately 30 to 40 mph. The operator reported being shaken awake by an occupant but did not have enough time to correct the vessel direction or speed. The vessel left the river impacting trees and stopped roughly 70 feet from the river bank. Three of the vessel occupants received minor injuries consisting of lacerations and contusions.

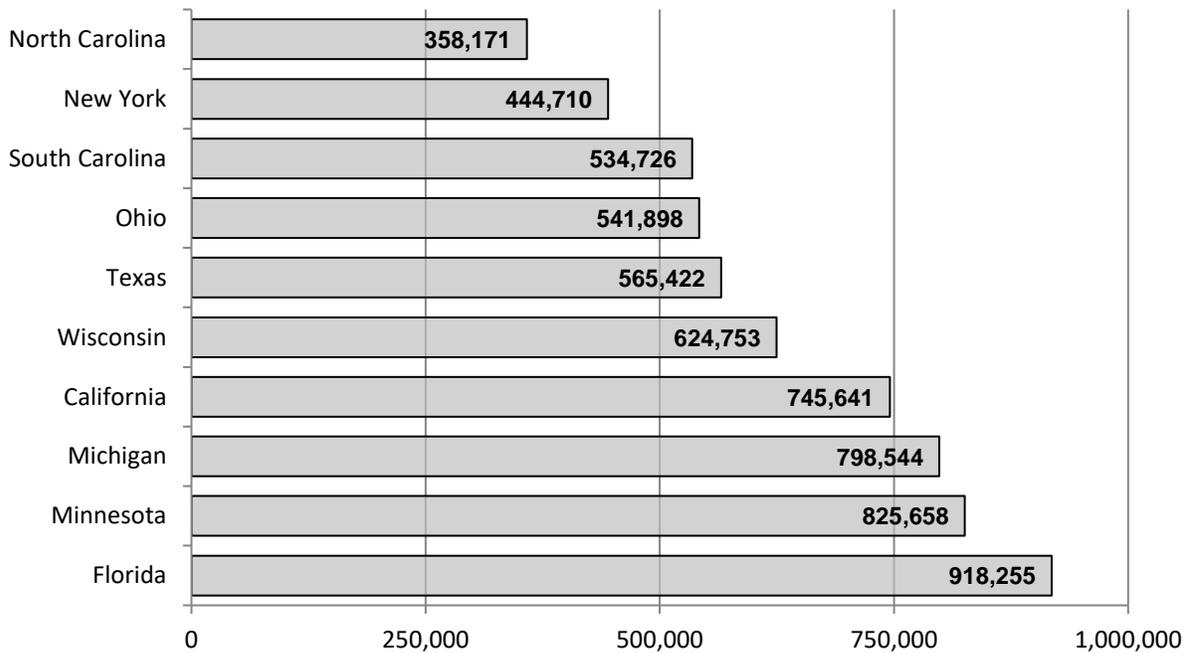
2018 BOATING ACCIDENT REVIEW

NUMBER OF ACCIDENTS - TOP TEN STATES 2017 (RECREATIONAL)



*Based on \$2,000 damage threshold
Source: U.S. Coast Guard Boating Safety Division

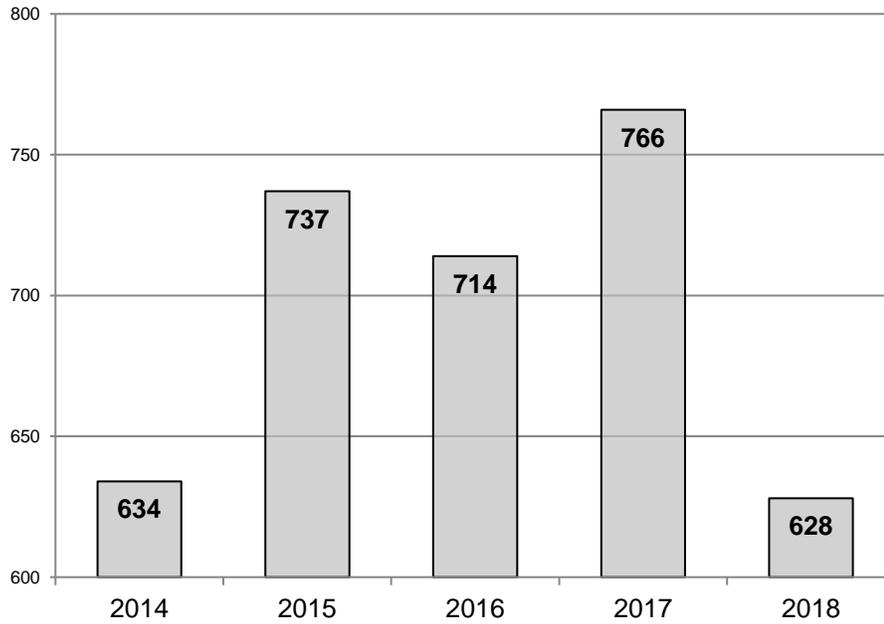
REGISTERED VESSELS - TOP TEN STATES 2017 (RECREATIONAL)



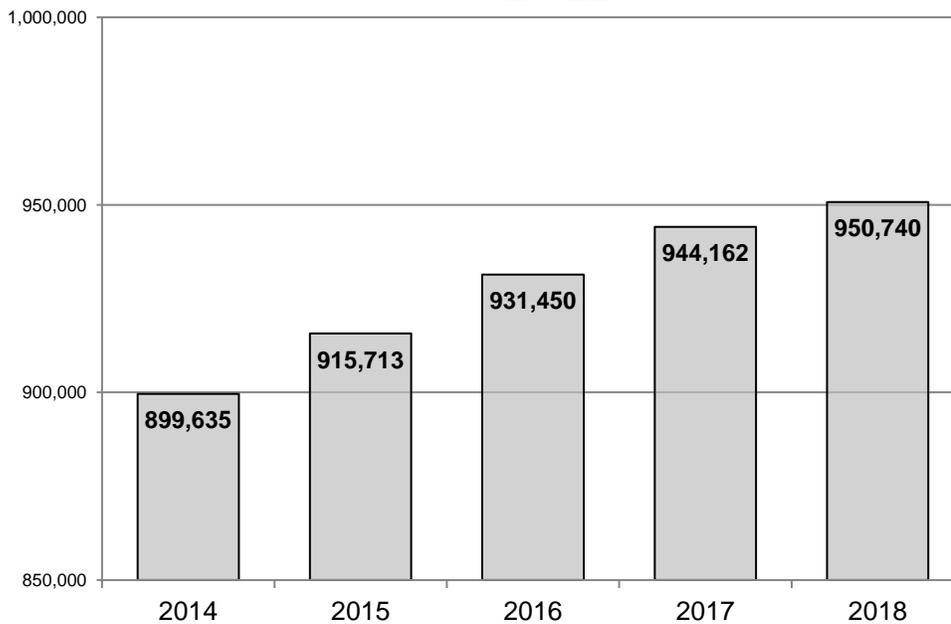
*Totals represent number of recreationally registered vessels in 2017
Source: U.S. Coast Guard Boating Safety Division

2018 BOATING ACCIDENT REVIEW

2014 - 2018 FLORIDA REPORTABLE ACCIDENTS



2014-2018 FLORIDA TOTAL REGISTERED VESSELS



*Totals represent all currently registered vessels for that year
Source: Florida Department of Highway Safety and Motor Vehicles (DHSMV)

Reportable Boating Accidents



Reportable Boating Accidents photo detail

Cover Photo: (Courtesy of FWC)

Around sunset on March 29, a 14-foot vessel was headed East on the Caloosahatchee River. The 59-year-old operator did not see two pilings that were used to hold up a slow speed/25 mph sign just east of the Edison bridge. The vessel wedged in between the pilings, crushing the sides of the vessel inward. At impact, the operator and occupant were thrown to the vessel floor. Alcohol was a contributing factor in this accident.

2018 REPORTABLE BOATING ACCIDENTS

2018 VESSEL REGISTRATION AND ACCIDENTS BY COUNTY								
County	Recreational Vessels	Total Vessels	Reportable Accidents	Fatalities	Injuries	Property Damage	Rank	Accident Rate*
Alachua	11,170	11,430	1	1		\$0	52	1:11,430
Baker	2,694	2,706						
Bay	17,002	17,813	16	1	11	\$113,700	12	1:1,113
Bradford	2,360	2,376	1			\$2,500	53	1:2,376
Brevard	32,734	33,971	15		4	\$164,700	14	1:1,029
Broward	44,018	45,418	26	2	7	\$549,700	7	1:1,747
Calhoun	1,643	1,668	1			\$3,741	51	1:1,668
Charlotte	22,311	22,947	4		4	\$11,000	33	1:5,737
Citrus	16,009	16,679	9			\$70,200	21	1:1,853
Clay	12,661	12,860	6	1	5	\$14,600	24	1:2,143
Collier	21,653	22,664	24		17	\$92,500	9	1:944
Columbia	4,489	4,534						
Desoto	2,201	2,292	3		4	\$7,200	35	1:764
Dixie	2,285	2,546	1			\$2,500	47	1:2,546
Duval	25,546	26,216	11		5	\$116,600	17	1:2,383
Escambia	15,391	15,747	11	5	6	\$61,855	18	1:1,050
Flagler	5,835	5,927	1	1		\$0	48	1:5,927
Franklin	2,421	3,143	5	1	1	\$152,000	25	1:629
Gadsden	2,340	2,369						
Gilchrist	1,770	1,794						
Glades	1,264	1,301	5		3	\$285,600	26	1:260
Gulf	2,786	3,079	1		1	\$500	49	1:3,079
Hamilton	886	893	1		2	\$2,000		1:893
Hardee	1,616	1,635						
Hendry	2,990	3,113						
Hernando	9,860	10,070	3		1	\$20,500	34	1:3,357
Highlands	8,991	9,091	1		1	\$0	45	1:9,091
Hillsborough	40,134	40,979	32	12	20	\$399,200	5	1:1,280
Holmes	2,082	2,104						
Indian River	10,842	11,267	10		6	\$50,500	19	1:1,127
Jackson	4,465	4,494						
Jefferson	1,349	1,362						
Lafayette	896	903	1	1		\$0	46	1:903
Lake	20,969	21,263	7	1	7	\$37,600	23	1:3,038
Lee	46,690	48,129	32	1	9	\$457,513	6	1:1,504
Leon	12,152	12,293	2	1	2	\$0	39	1:6,146
Levy	4,179	4,561	1			\$3,000	43	1:4,561

*Accident Rate = # of Registered Vessels / # of Accidents Those Counties in bold print represent the top ten counties. Fields that equaled zero intentionally left blank.

2018 REPORTABLE BOATING ACCIDENTS

2018 VESSEL REGISTRATION AND ACCIDENTS BY COUNTY

County	Recreational Vessels	Total Vessels	Reportable Accidents	Fatalities	Injuries	Property Damage	Rank	Accident Rate*
Liberty	1,136	1,155	1			\$22,300	44	1:1,155
Madison	1,178	1,183	2		2	\$21,000	40	1:592
Manatee	20,091	20,931	8		9	\$46,600	22	1:2,616
Marion	19,080	19,338	1		1	\$6,500	42	1:19,338
Martin	17,579	18,376	20	2	7	\$507,275	11	1:919
Miami-Dade	65,142	67,825	71	5	29	\$660,450	2	1:955
Monroe	26,166	29,037	82	5	29	\$513,626	1	1:354
Nassau	6,398	6,554	2			\$22,000	41	1:3,277
Okaloosa	18,239	18,924	16		7	\$68,000	13	1:1,183
Okeechobee	4,816	4,971	2			\$52,000	38	1:2,486
Orange	28,124	28,579	5	2	1	\$16,166	29	1:5,716
Osceola	7,965	8,104	4	1	1	\$12,800	30	1:2,026
Palm Beach	35,191	36,351	36	1	20	\$1,046,407	4	1:1,010
Pasco	24,792	25,336	5	1	3	\$17,500	28	1:5,067
Pinellas	49,377	51,002	40	1	16	\$235,250	3	1:1,275
Polk	28,648	29,159	14	3	11	\$33,500	15	1:2,083
Putnam	7,454	7,737	5		4	\$7,200	27	1:1,547
Santa Rosa	14,891	15,164	4		6	\$17,450	31	1:3,791
Sarasota	22,511	23,088	24	5	9	\$1,540,700	8	1:962
Seminole	17,810	18,086	2			\$27,500	37	1:9,043
St. Johns	14,878	15,385	12		8	\$68,200	16	1:1,282
St. Lucie	12,484	13,028	10		4	\$277,500	20	1:1,303
Sumter	4,683	4,745	1		1	\$4,200	54	1:4,745
Suwannee	2,880	2,912	1			\$4,500	55	1:2,912
Taylor	3,634	3,785	4		2	\$17,500	32	1:946
Union	972	982						
Volusia	27,536	28,432	21	4	16	\$131,180	10	1:1,354
Wakulla	4,940	5,245		1				
Walton	5,932	6,093	3		4	25,150	36	1:2,031
Washington	2,463	2,477	1		1	\$50	56	1:2,477
DHSMV	3,628	5,119						
TOTAL	919,302	950,740	628	59	307	\$8,001,713		1:1,514

*Accident Rate = # of Registered Vessels
of Accidents

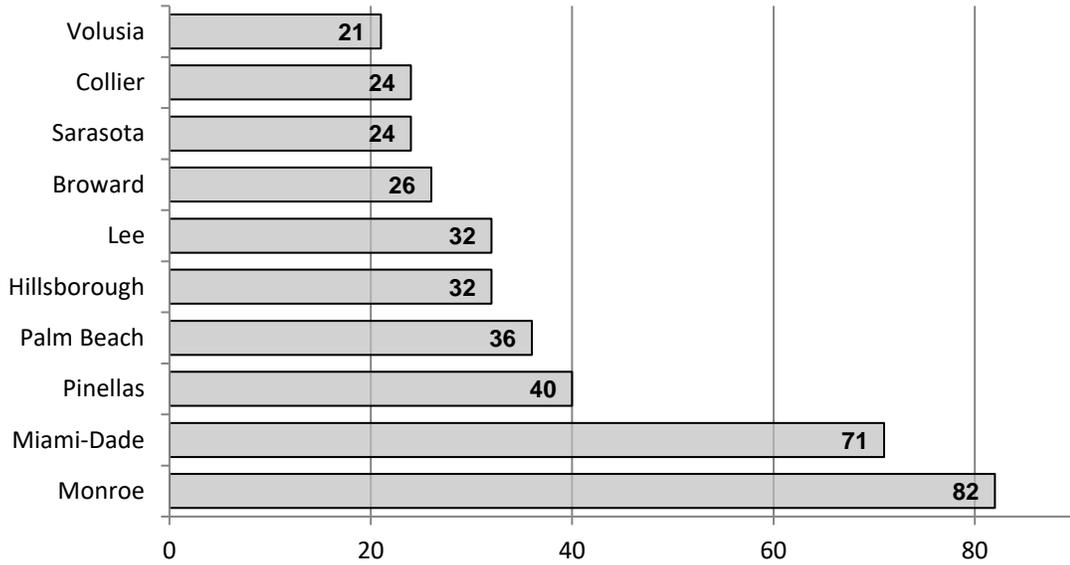
Those counties in bold print represent the top ten counties

DHSMV numbers represent registrations issued at main office instead of at the county level

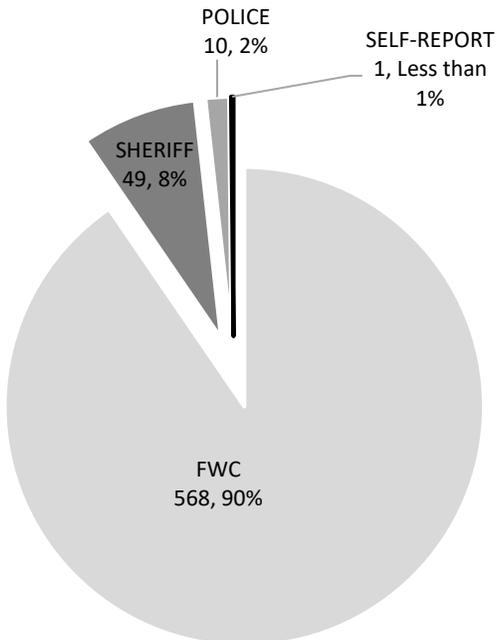
Fields that equaled zero intentionally left blank.

2018 REPORTABLE BOATING ACCIDENTS

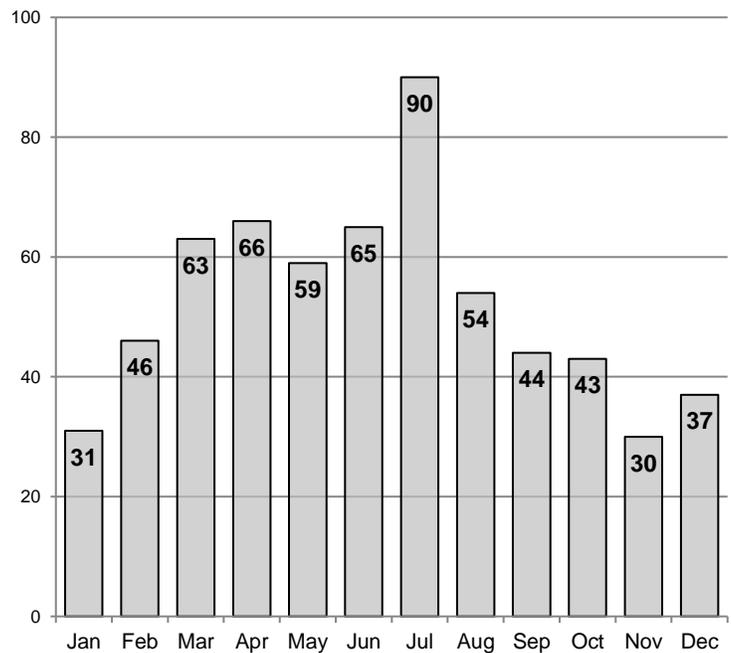
TOP TEN COUNTIES



INVESTIGATING AGENCY



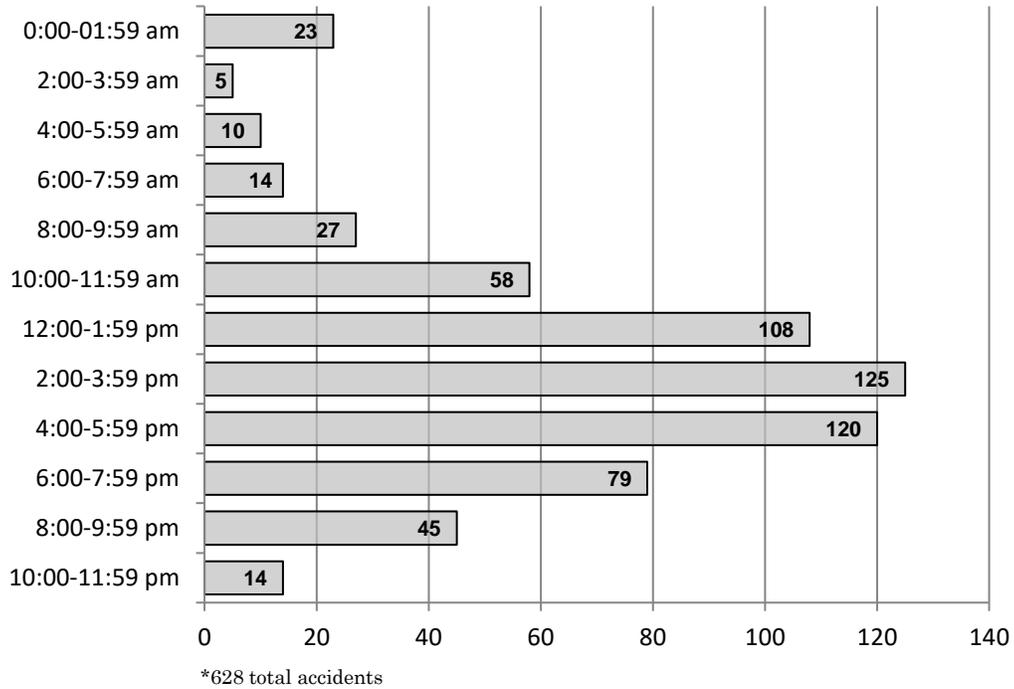
ACCIDENTS BY MONTH



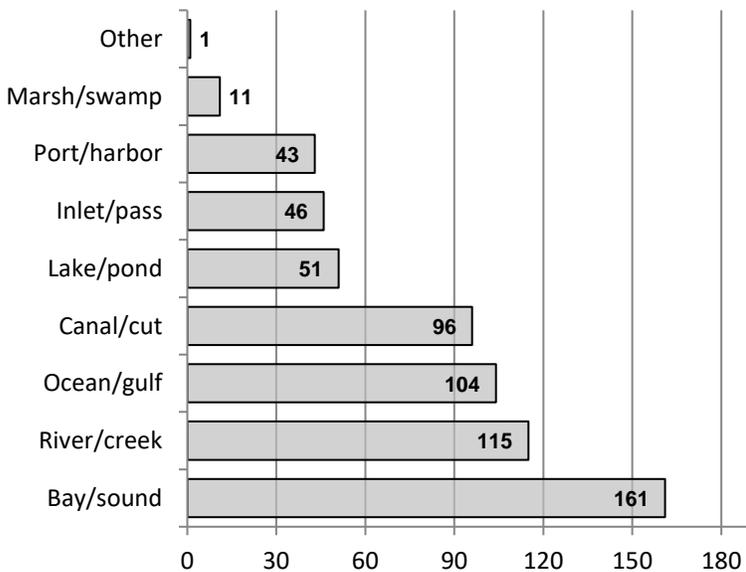
*628 total accidents

2018 REPORTABLE BOATING ACCIDENTS

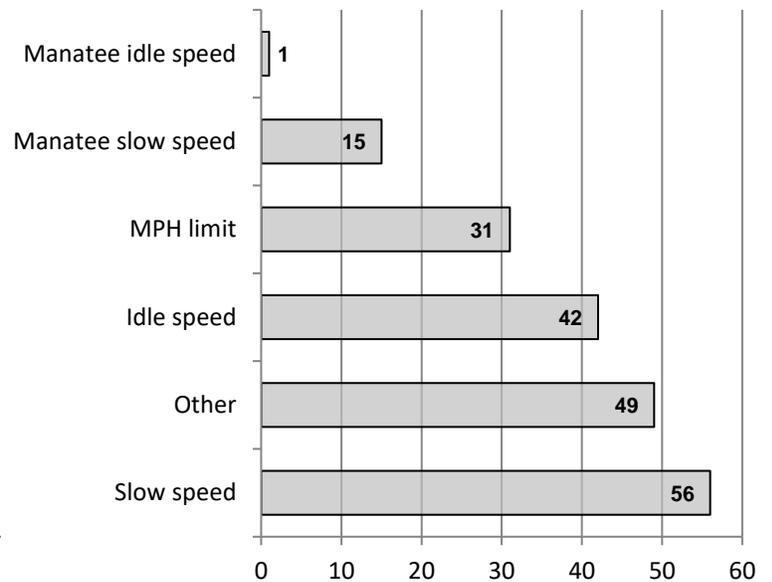
TIME OF DAY



ACCIDENT SITE LOCATION



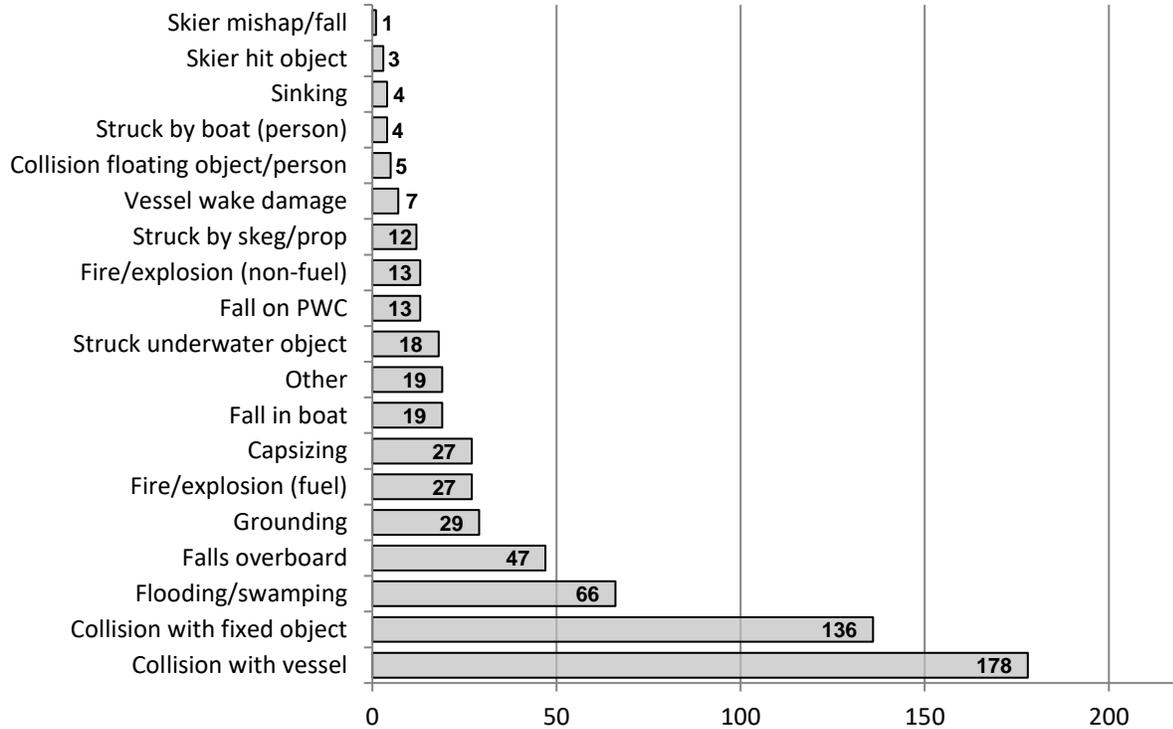
RESTRICTED AREA ACCIDENTS



*194 total accidents in restricted areas
 "Other" may include areas where the regulation or local ordinance was not specified.

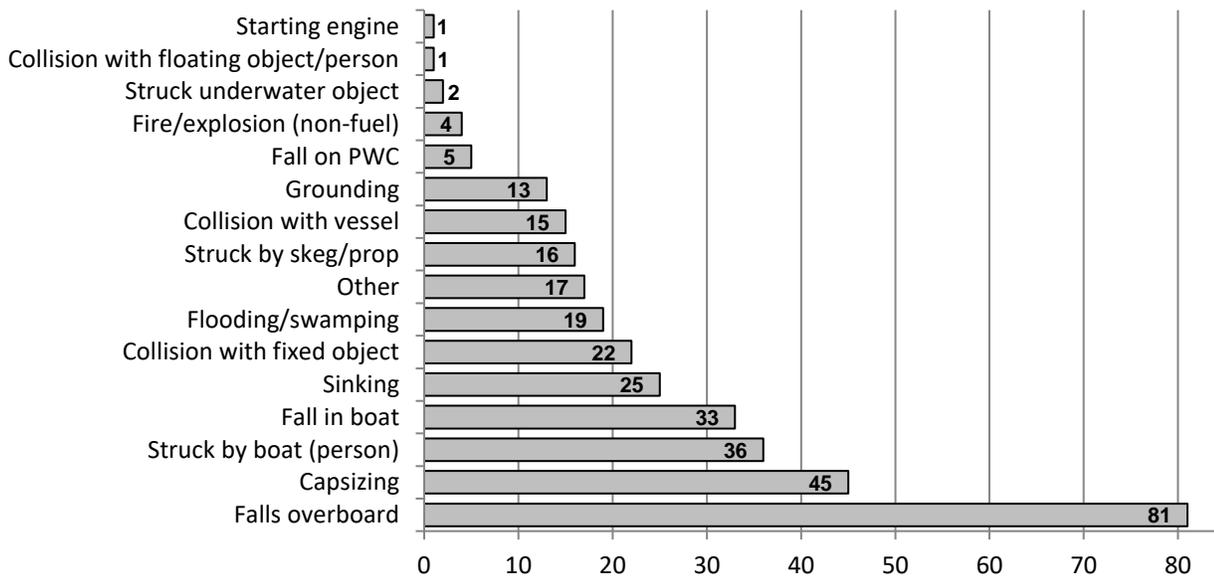
2018 REPORTABLE BOATING ACCIDENTS

PRIMARY TYPE OF ACCIDENT



*628 accidents involving 896 vessels
(Based on first harmful event as determined by the state reviewing authority)

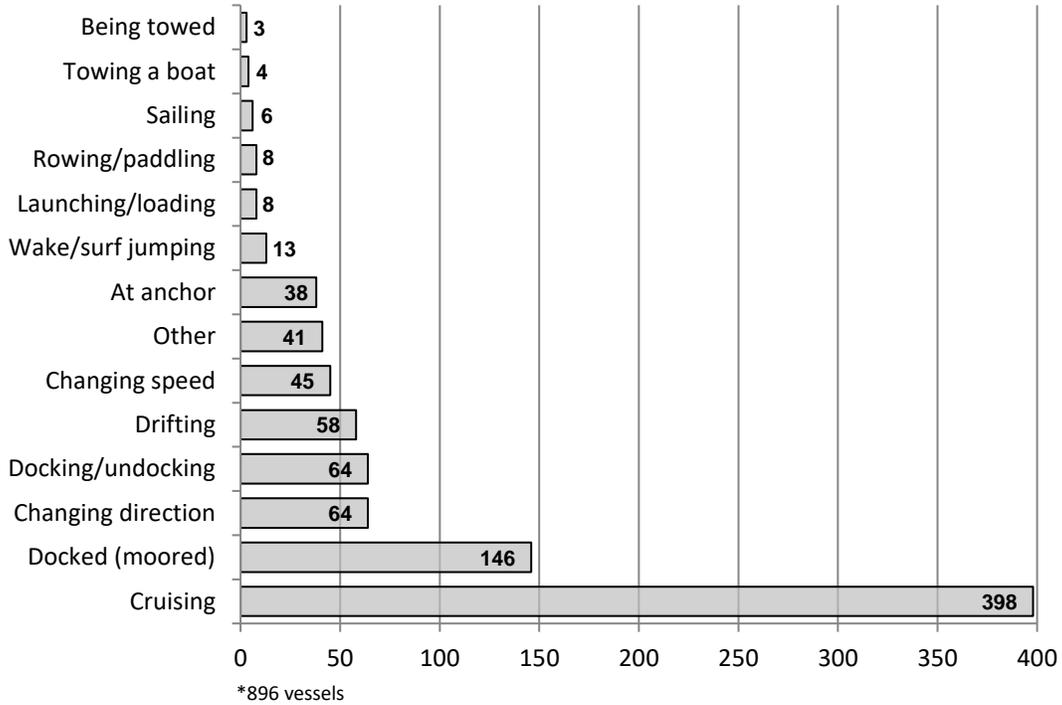
SECONDARY TYPE OF ACCIDENT



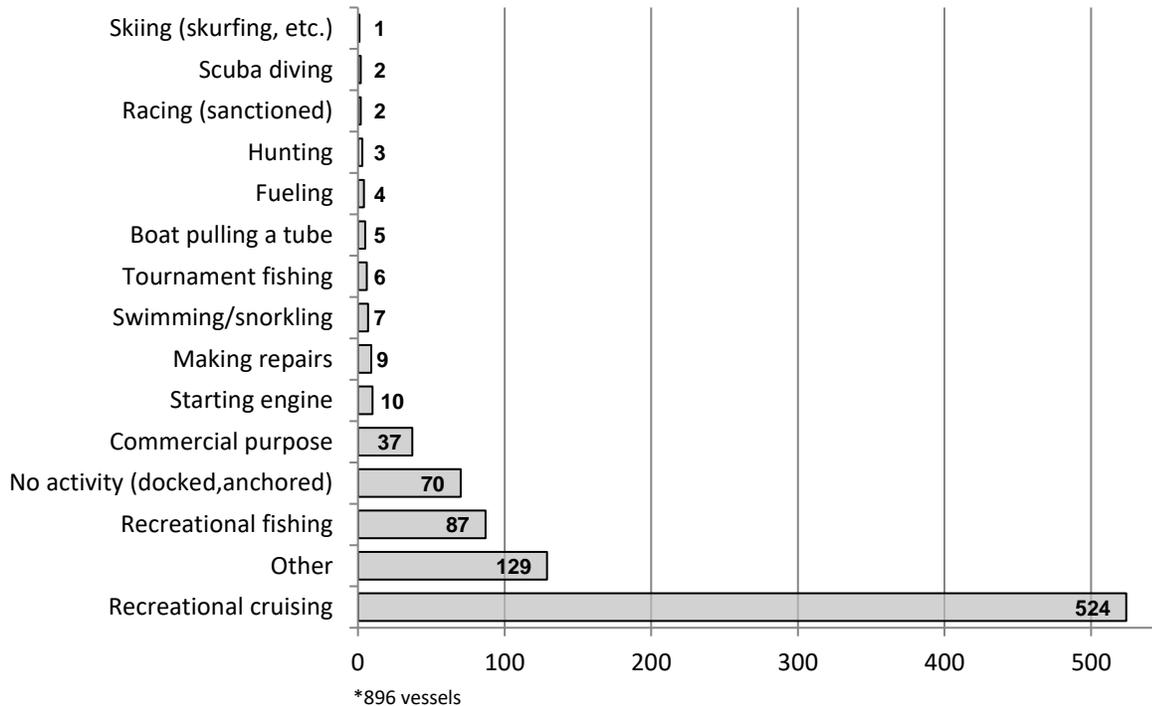
*293 of the 628 accidents did not have a secondary type of accident

2018 REPORTABLE BOATING ACCIDENTS

OPERATION AT TIME OF ACCIDENT

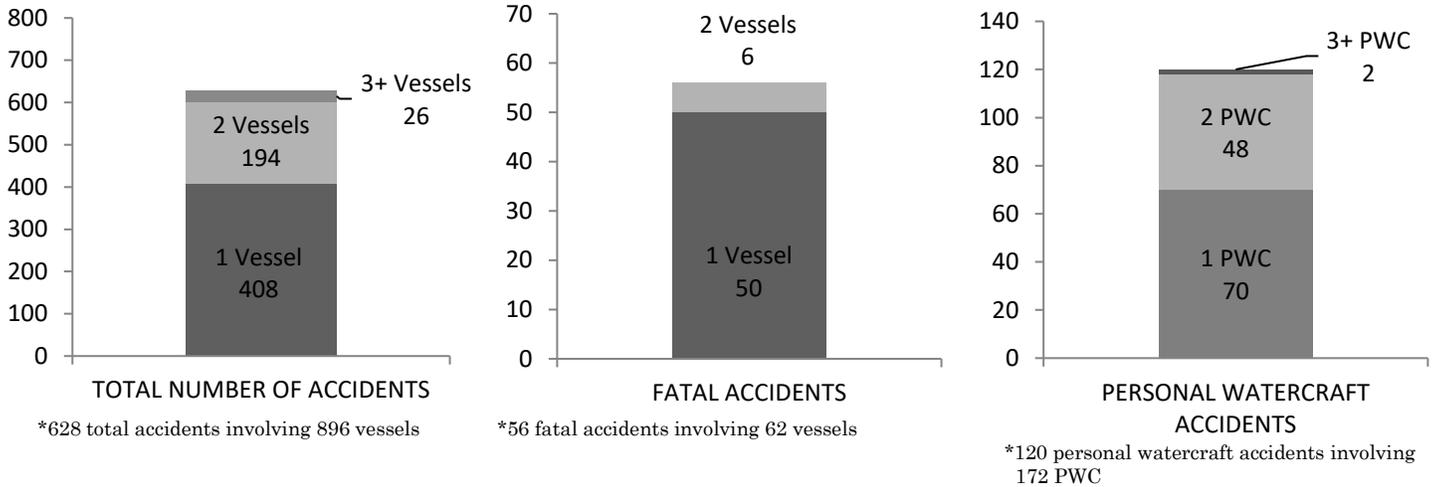


ACTIVITY AT TIME OF ACCIDENT

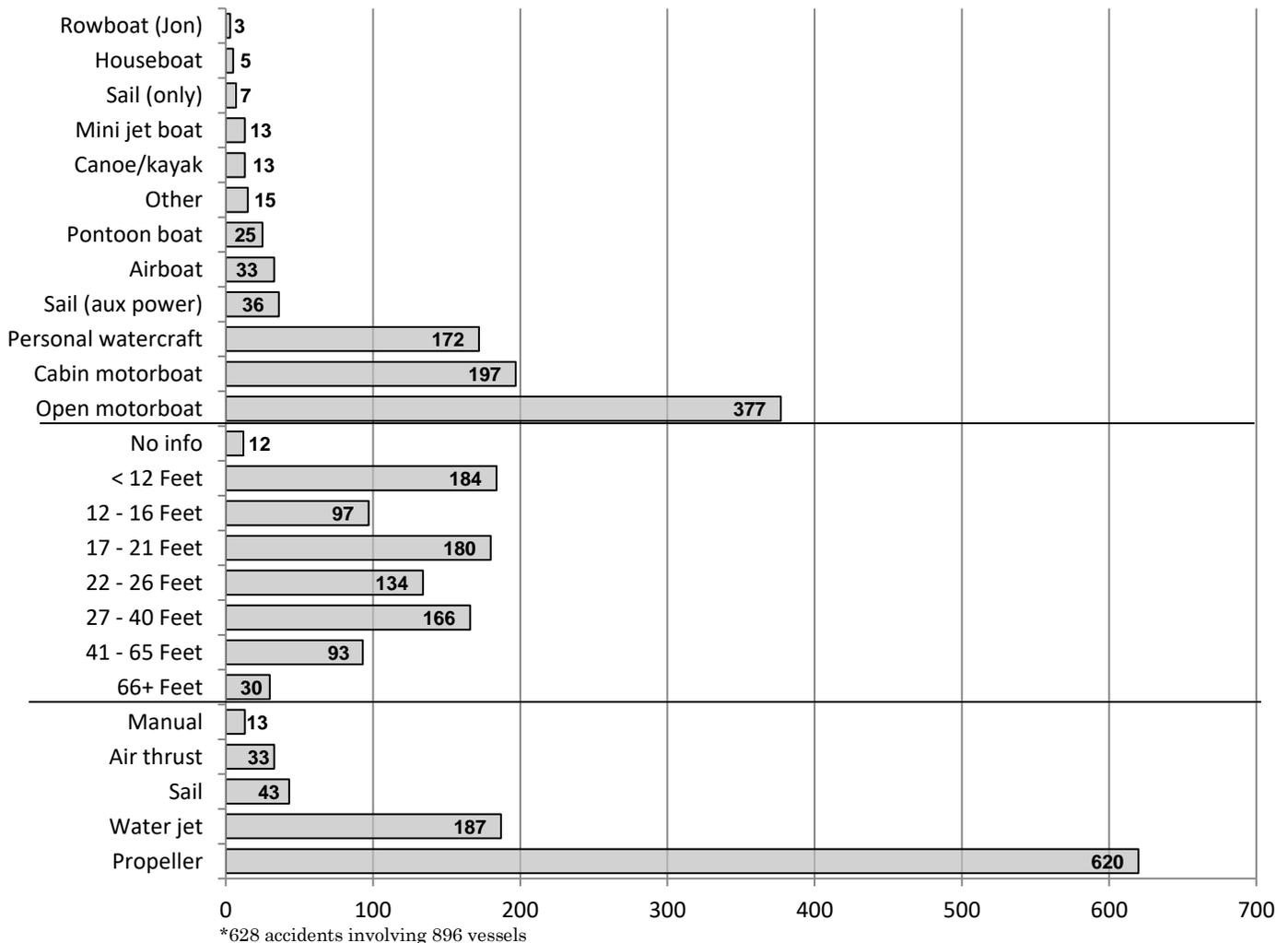


2018 REPORTABLE BOATING ACCIDENTS

VESSEL COUNT IN REPORTABLE ACCIDENTS

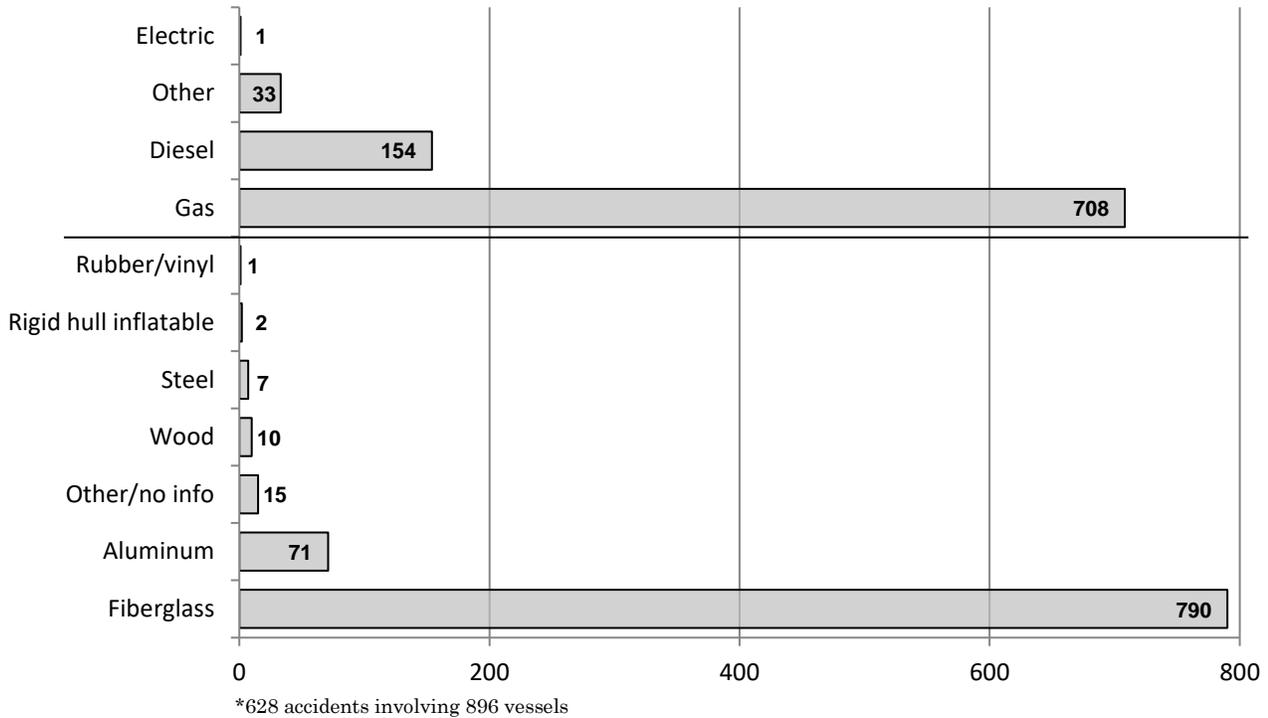


VESSEL TYPE, LENGTH & PROPULSION

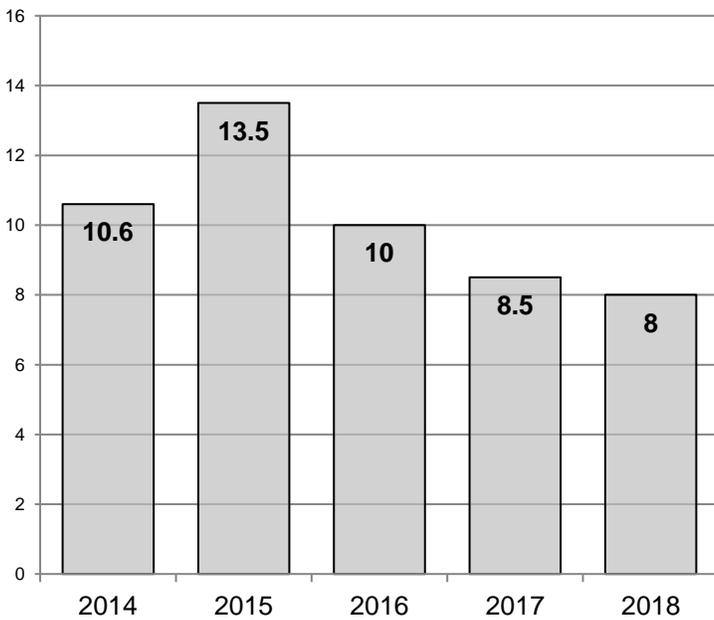


2018 REPORTABLE BOATING ACCIDENTS

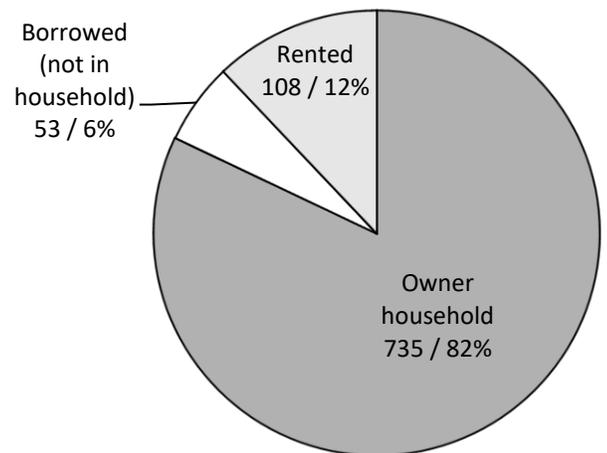
VESSEL FUEL & HULL TYPE



VESSEL & PROPERTY DAMAGE FIGURES (IN MILLIONS)

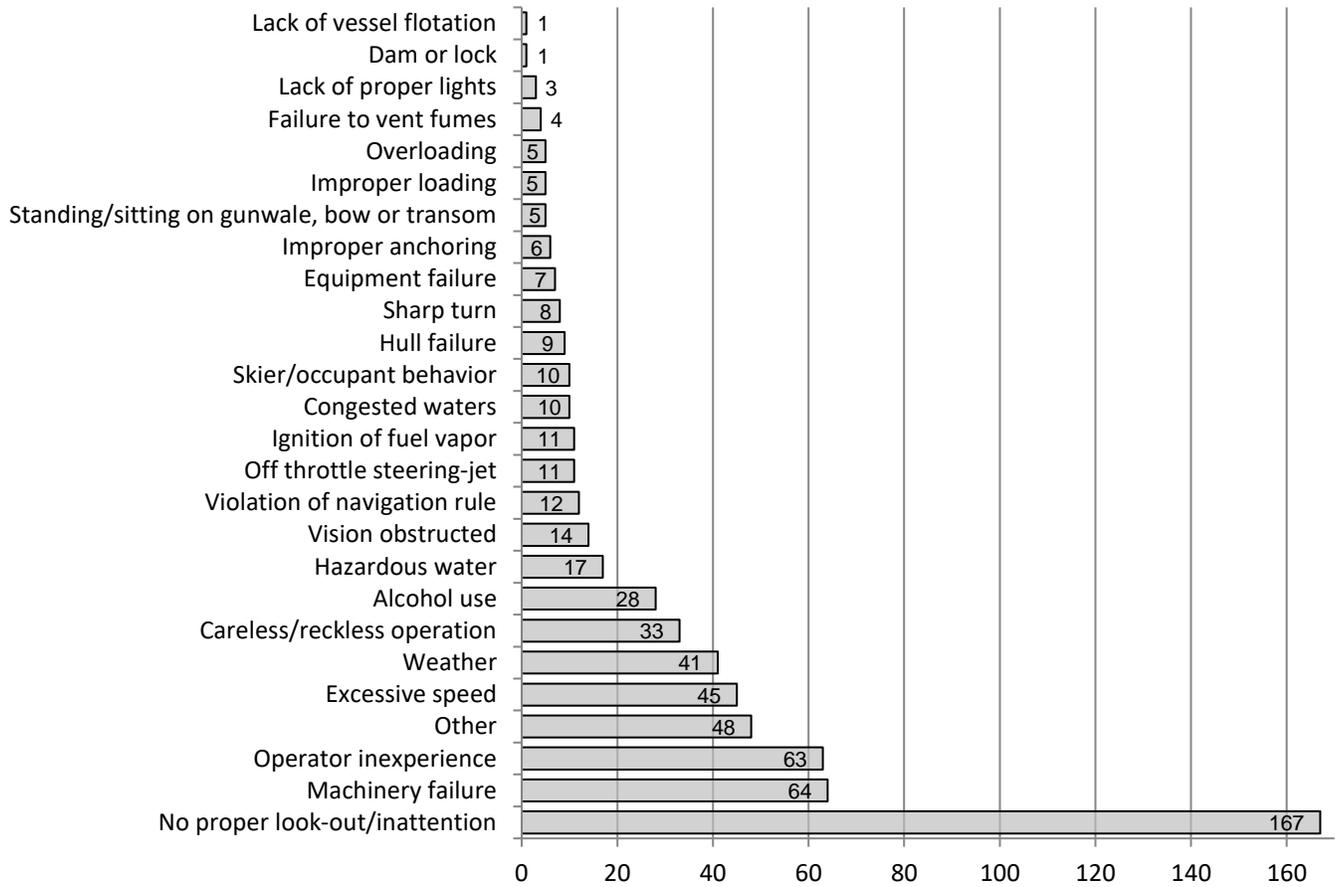


VESSEL OWNERSHIP

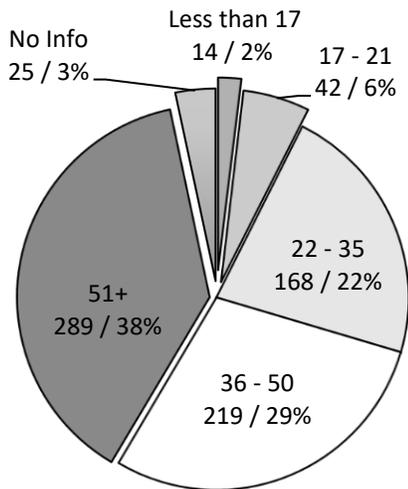


2018 REPORTABLE BOATING ACCIDENTS

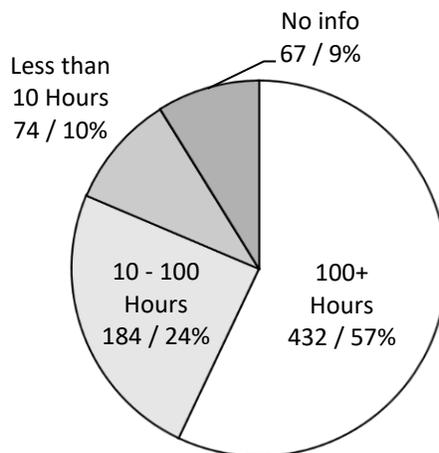
PRIMARY CAUSE ASSESSED BY REVIEWING AUTHORITY



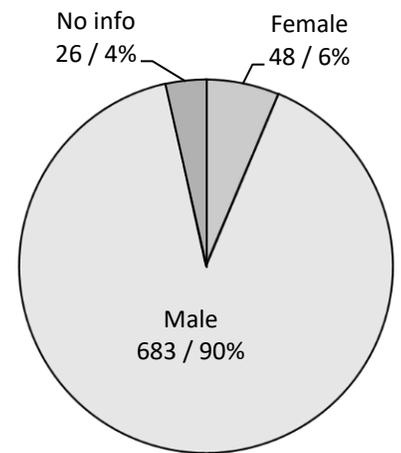
OPERATOR AGE



OPERATOR EXPERIENCE (HOURS)



OPERATOR GENDER

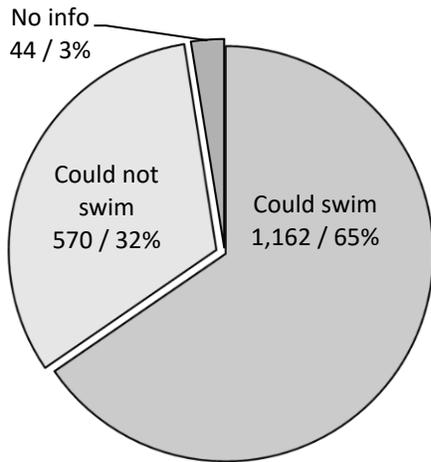


*628 accidents involving 757 operators

Vessels may have been docked, anchored, or involved in a hit and run accident which would result in no operator information. Also, some information may not be provided by operators.

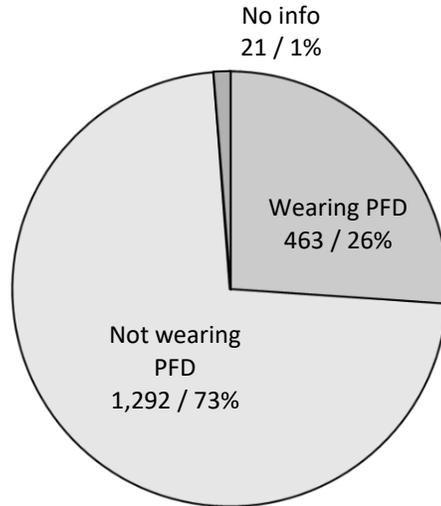
2018 REPORTABLE BOATING ACCIDENTS

OPERATOR/OCCUPANT SWIMMING ABILITY

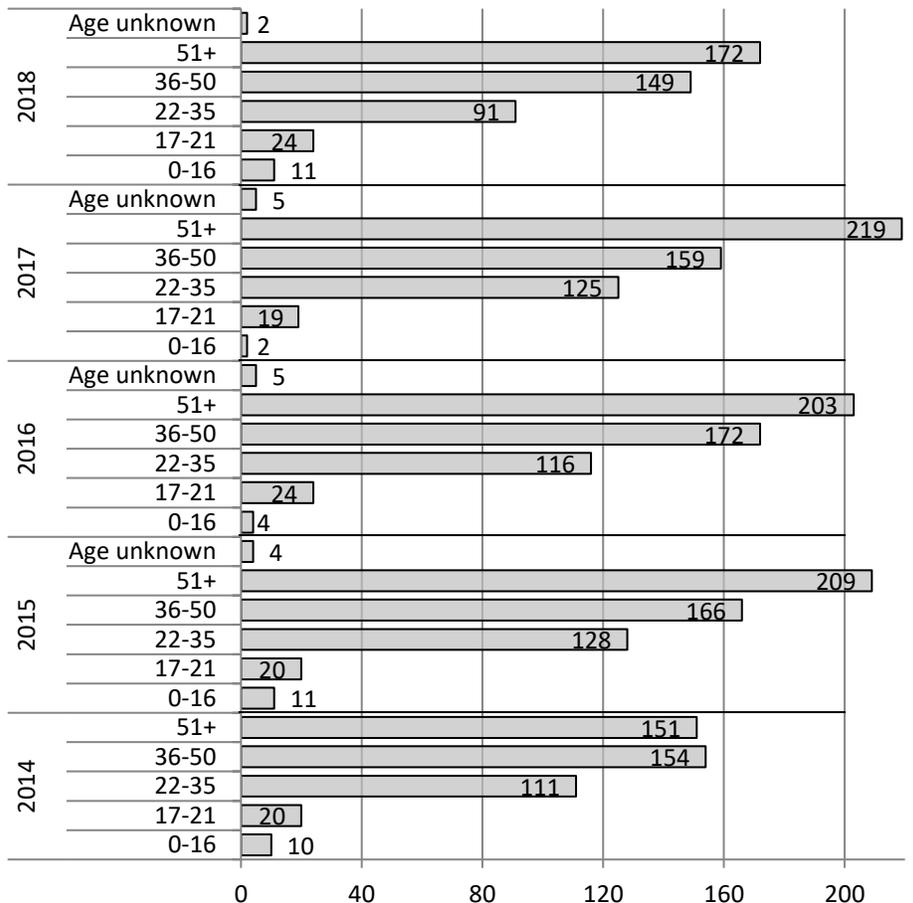


*1,776 total occupants and operators

OPERATOR/OCCUPANT PFD USE

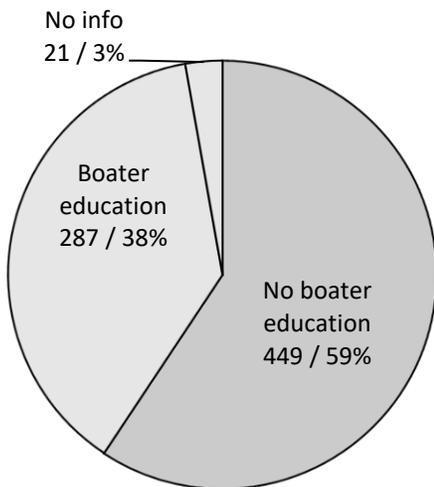


OPERATOR BY AGE WITH NO BOATER EDUCATION



*Two operators did not provide date of birth (DOB)

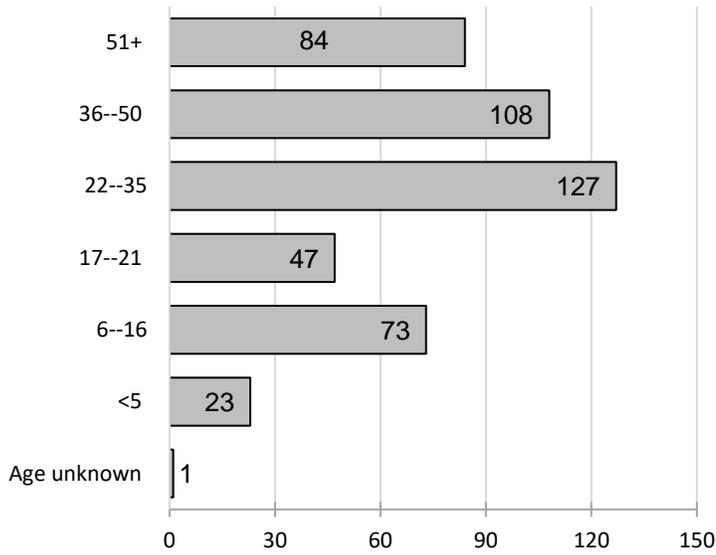
BOAT OPERATOR EDUCATION



*757 operators, 21 were unknown due to hit and run accidents

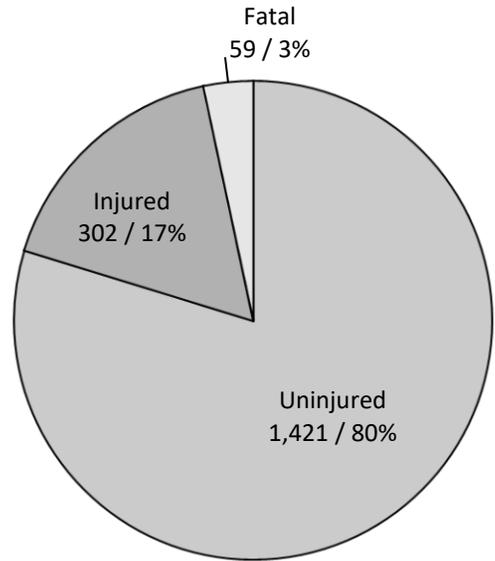
2018 REPORTABLE BOATING ACCIDENTS

PFD WEAR BY AGE



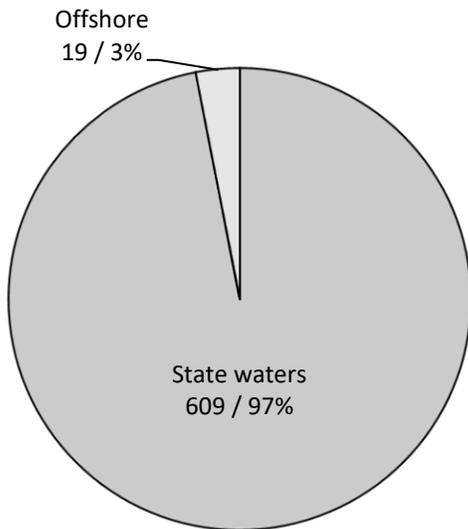
*463 of 1,776 operators/occupants were wearing a PFD at time of the accident. One person did not provide an age

VICTIM STATISTICS



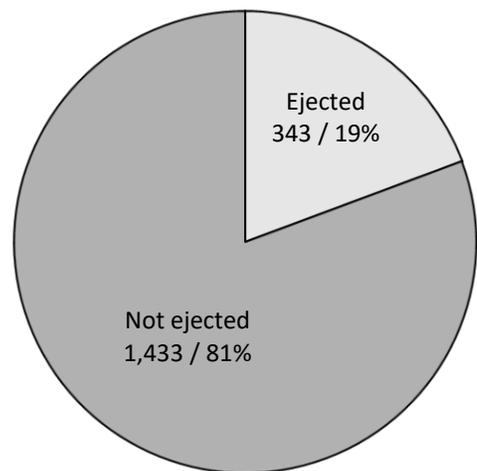
*1,782 persons involved in vessel accidents
1,776 operators/occupants and 6 swimmers

STATE WATERS VS. OFFSHORE WATERS (ACCIDENTS)



*Offshore is defined as the edge of the Gulfstream or three miles from shore, whichever is greater, in the Atlantic and more than nine miles out in the Gulf of Mexico

VICTIM STATISTICS (EJECTED)



*1,776 total operators and occupants

Boating Fatalities



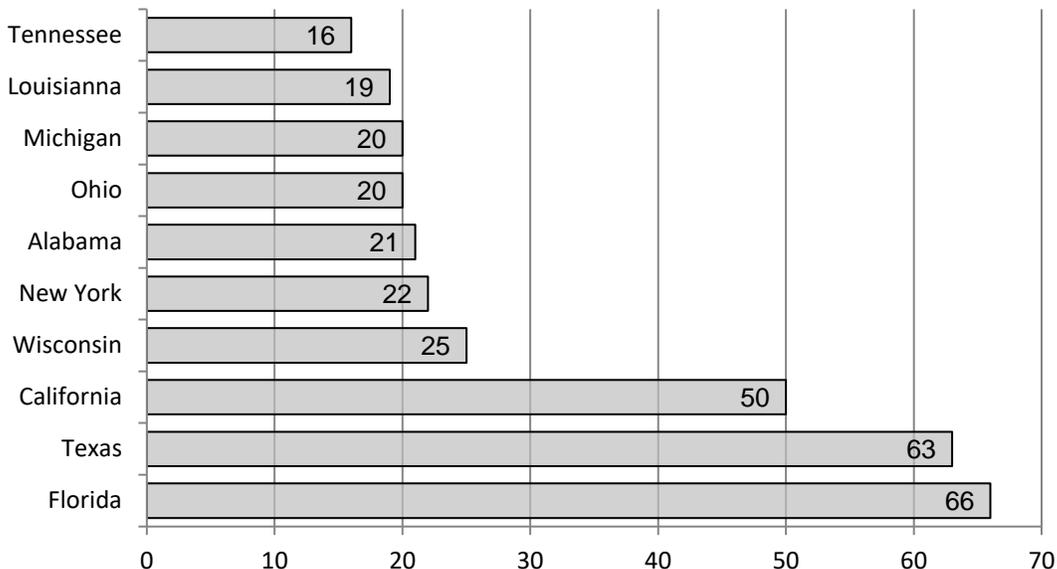
Boating Fatalities photo detail

Cover Photos: (Courtesy of FWC)

On April 13, at approximately 4:20 pm, a 24-foot vessel was on plane traveling on the Little Saint Marks River in Franklin County. The 71-year-old operator became distracted while showing the occupant a place to put a drinking cup on the vessel console. The operator looked up and noticed the vessel was heading toward the shoreline. There was not enough time to correct the direction or speed of the vessel. The vessel impacted the tree line along the edge of the river, ejecting the operator and occupant. The vessel rebounded from the impact and continued back out into the river unmanned. The vessel began turning in circles and clipped some additional trees then ran aground on the western bank of the river. The operator succumbed to injuries sustained from being ejected and impacting a tree along the river bank. The occupant was treated at the hospital and later released.

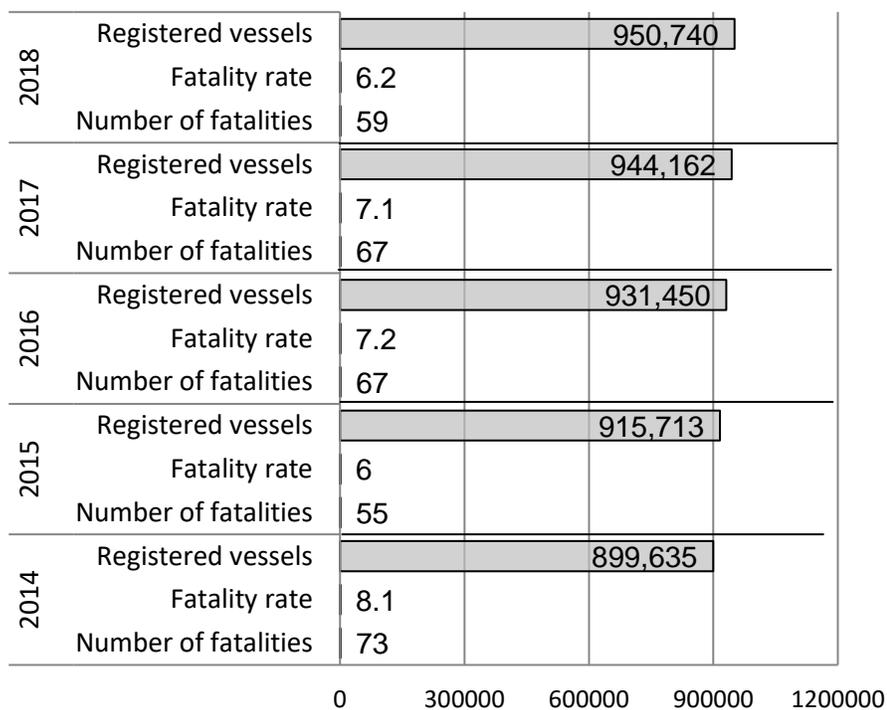
2018 FATALITY DATA

2017 FATALITIES - TOP TEN STATES

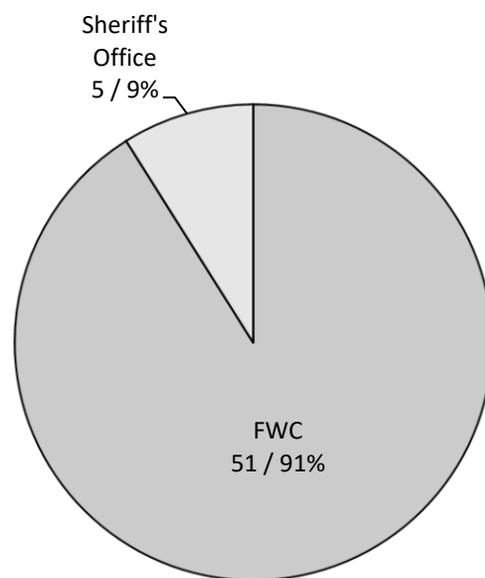


*2018 statistics for top 10 states were not available at time of printing
 Source: U.S. Coast Guard Boating Safety Division (recreational fatalities)

FLORIDA TOTAL FATALITIES RECORDED



INVESTIGATING AGENCY

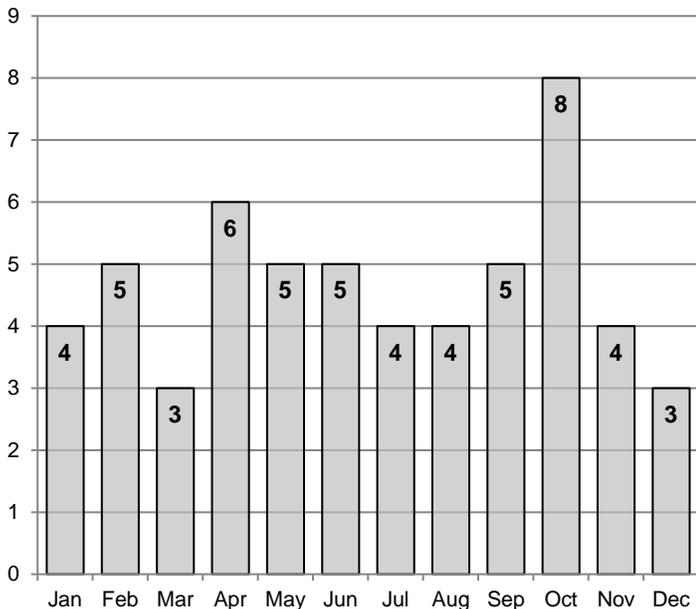


*56 fatal accidents

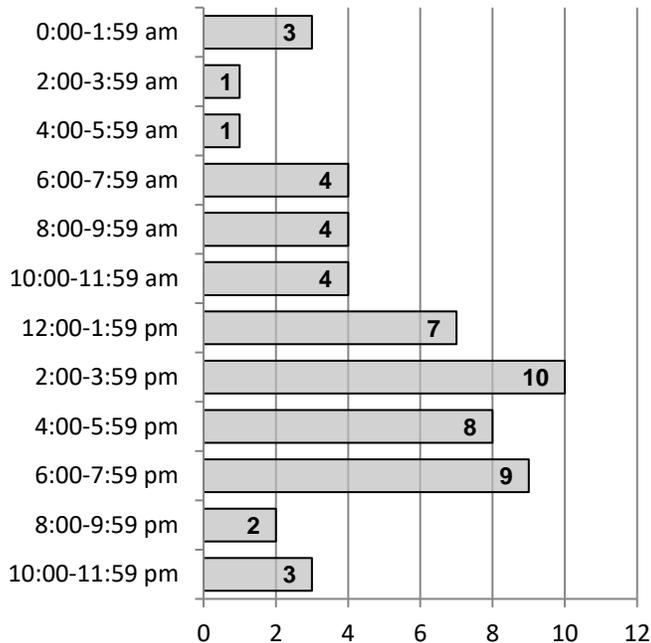
*Fatality Rate – Number of fatalities per 100,000 registered vessels

2018 FATALITY DATA

ACCIDENTS BY MONTH



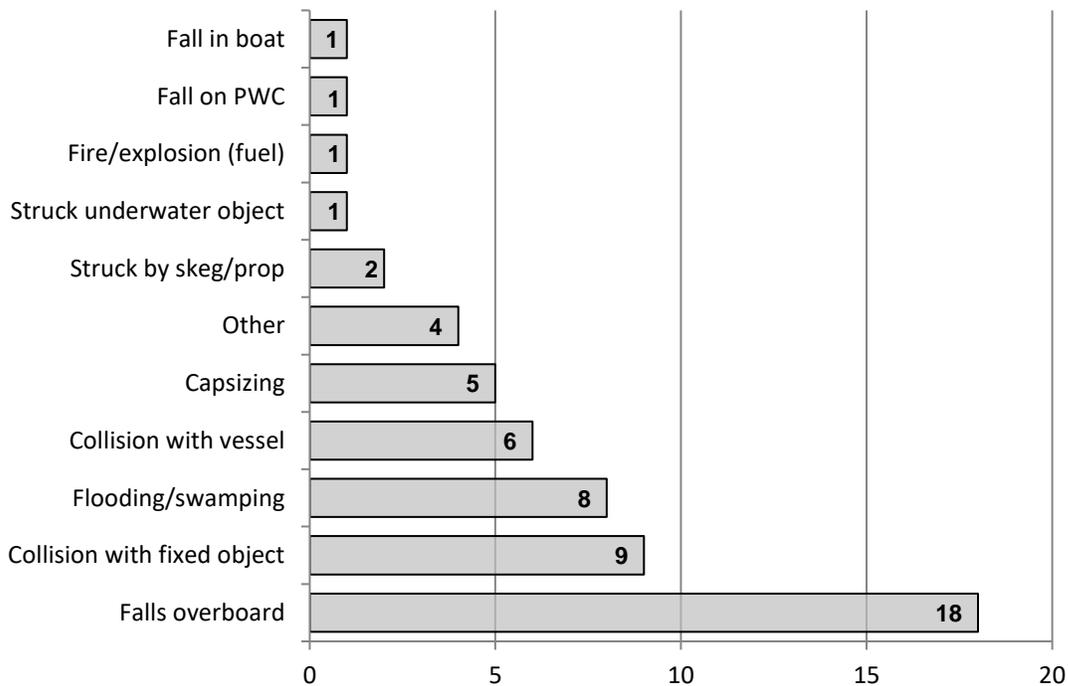
TIME OF DAY



*56 fatal accidents involving 59 fatalities

Fatality data includes four missing persons where their disappearance is associated with a boating accident

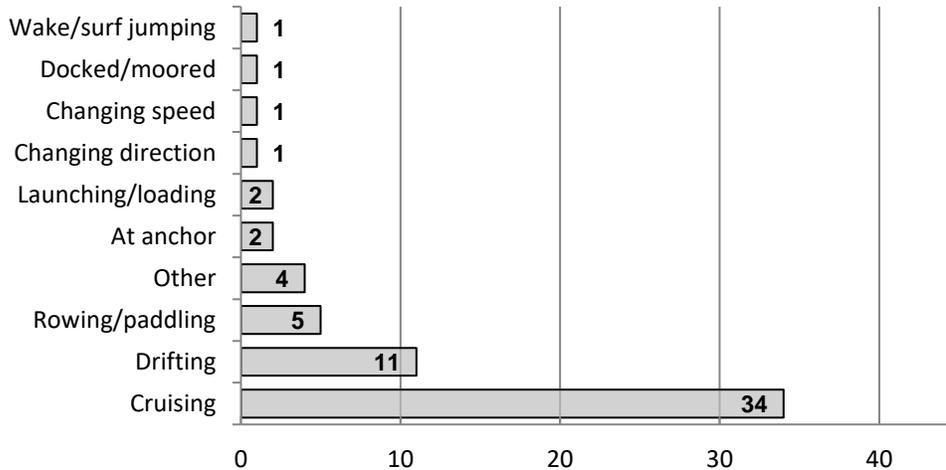
ACCIDENT TYPES



*56 fatal accidents involving 59 fatalities (Based on first harmful event)

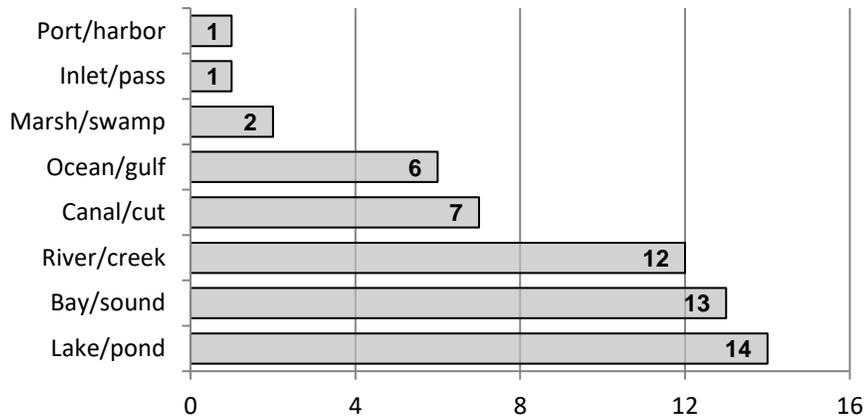
2018 FATALITY DATA

OPERATION AT TIME OF ACCIDENT

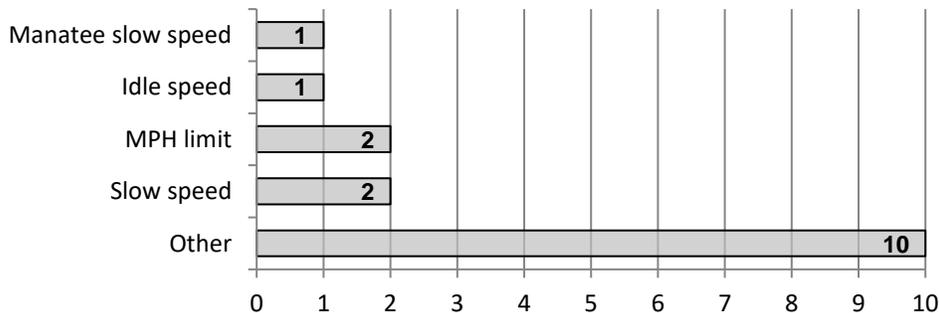


*62 vessels involved in 56 fatal accidents with 59 victims

ACCIDENT SITE LOCATION



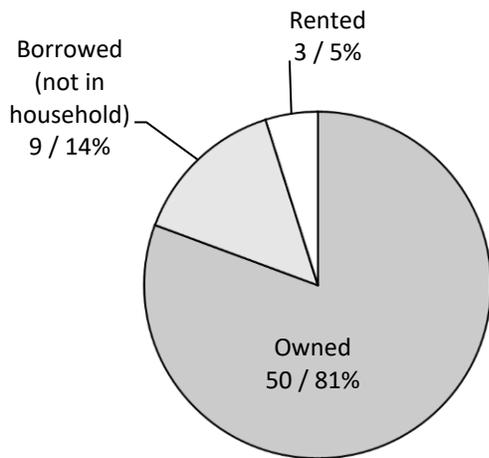
RESTRICTED AREA ACCIDENTS



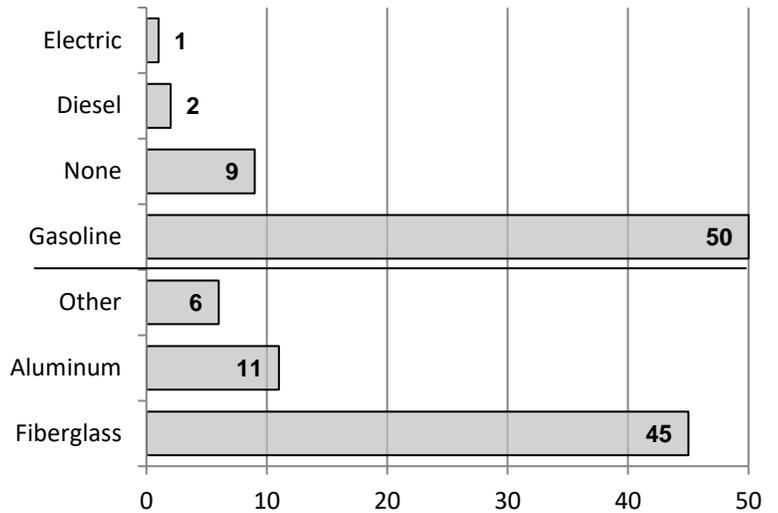
*16 of 56 fatal accidents occurred in restricted areas. "Other" may include areas where the regulation or local ordinance was not specified.

2018 FATALITY DATA

VESSEL OWNERSHIP

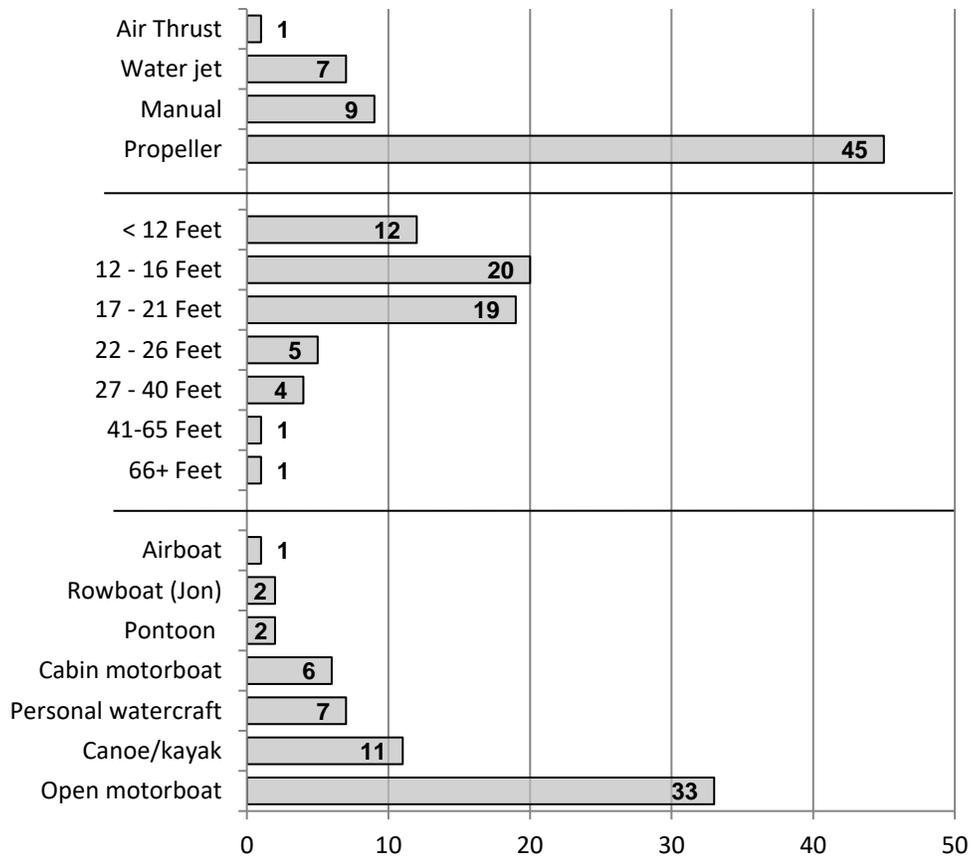


VESSEL FUEL & HULL TYPE



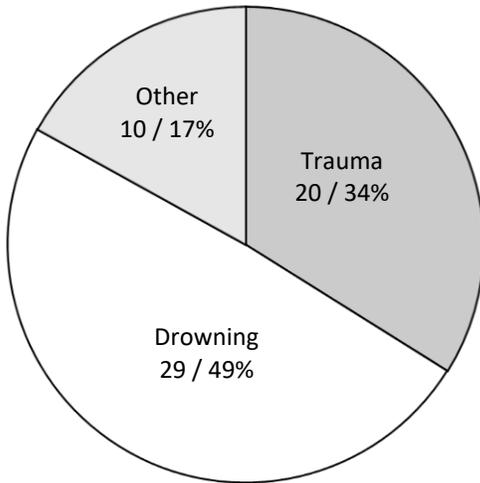
*59 total fatalities involving 62 vessels

VESSEL PROPULSION, LENGTH & TYPE



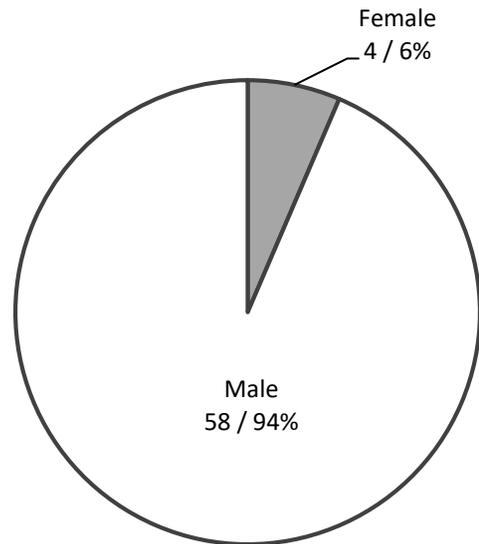
2018 FATALITY DATA

PRIMARY CAUSE OF DEATH



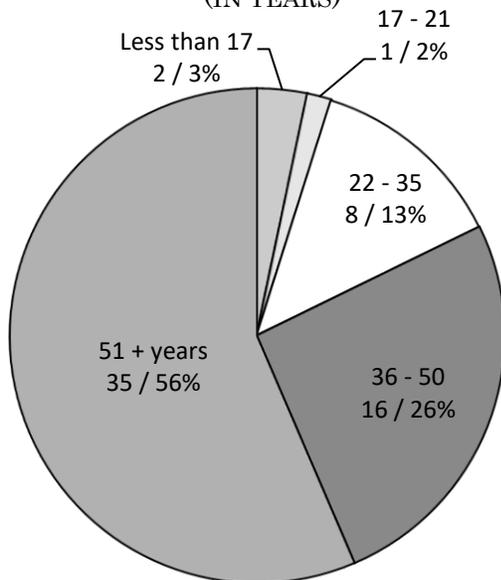
*59 fatalities, "Other" category includes four missing where cause of death is unknown

OPERATOR GENDER

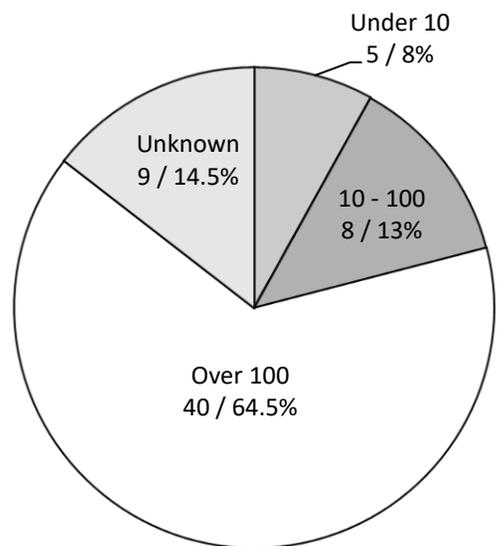


*62 operators

OPERATOR AGE (IN YEARS)



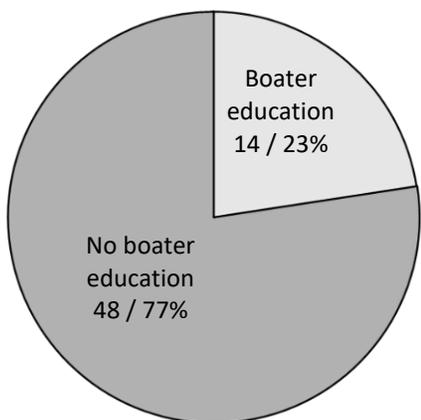
OPERATOR EXPERIENCE (IN HOURS)



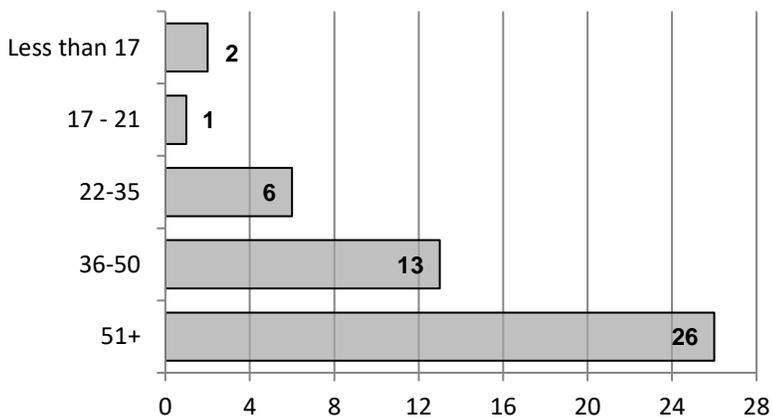
2018 FATALITY DATA

On July 28th at approximately 9:00 PM, two vessels were on the Indian River in a head on situation. V1, an 18-foot open motorboat, and V2, a 20-foot open motorboat, both turned to the east side of the river. V1 struck the port bow of V2 and ramped on to V2 striking both occupants. The 51-year-old male operator of V2 was ejected and died because of injuries at the hospital. The 53-year-old female occupant received lacerations and contusions from being struck by V1. A female occupant on V1 jumped overboard with a child before impact, she received contusions and sprains from impact with the water, the child and operator of V1 were uninjured.

OPERATOR EDUCATION

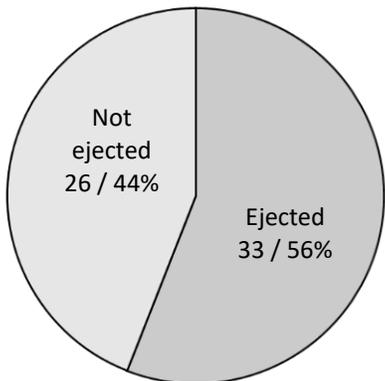


OPERATORS BY AGE WITHOUT FORMAL BOATER EDUCATION

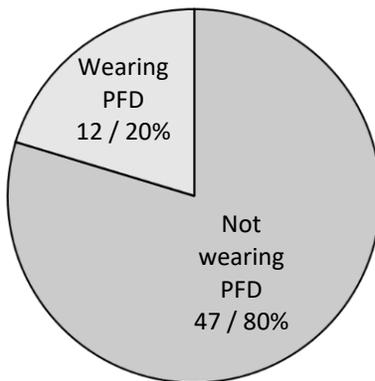


*48 operators did not have any formal boater education

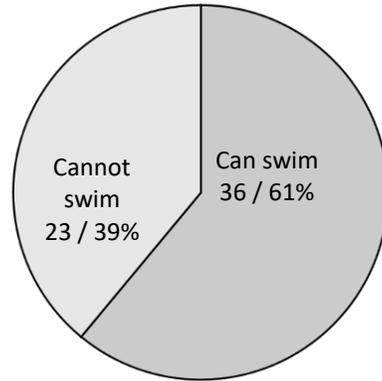
VICTIM STATISTICS (EJECTED)



VICTIM STATISTICS (WEARING PFD)



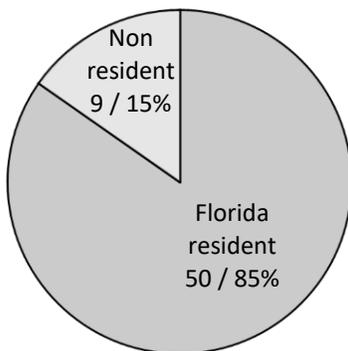
VICTIM STATISTICS (SWIMMING ABILITY)



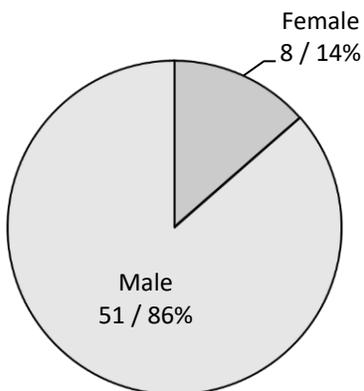
*56 fatal accidents involving 59 victims

2018 FATALITY DATA

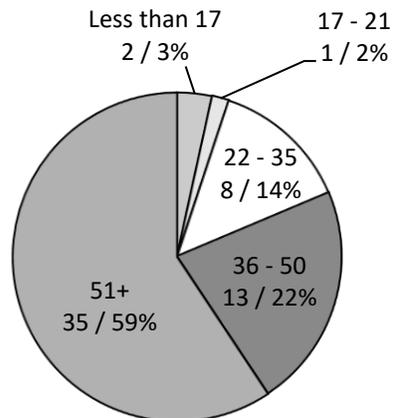
VICTIM RESIDENCY



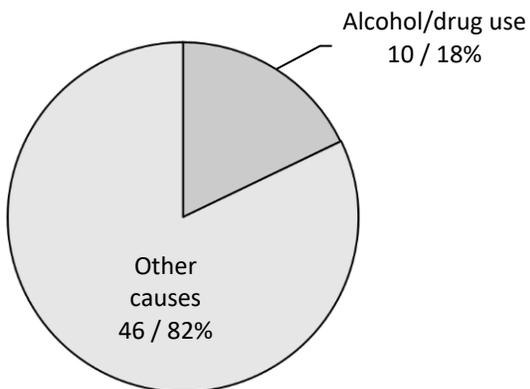
VICTIM GENDER



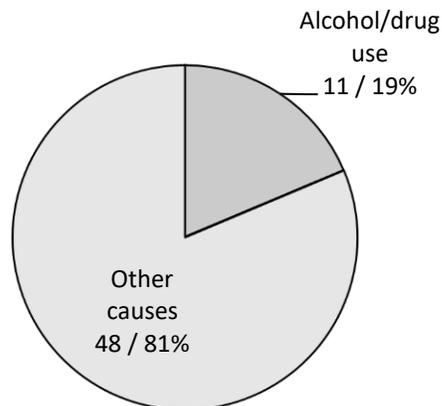
VICTIM AGE



ALCOHOL/DRUG RELATED ACCIDENTS



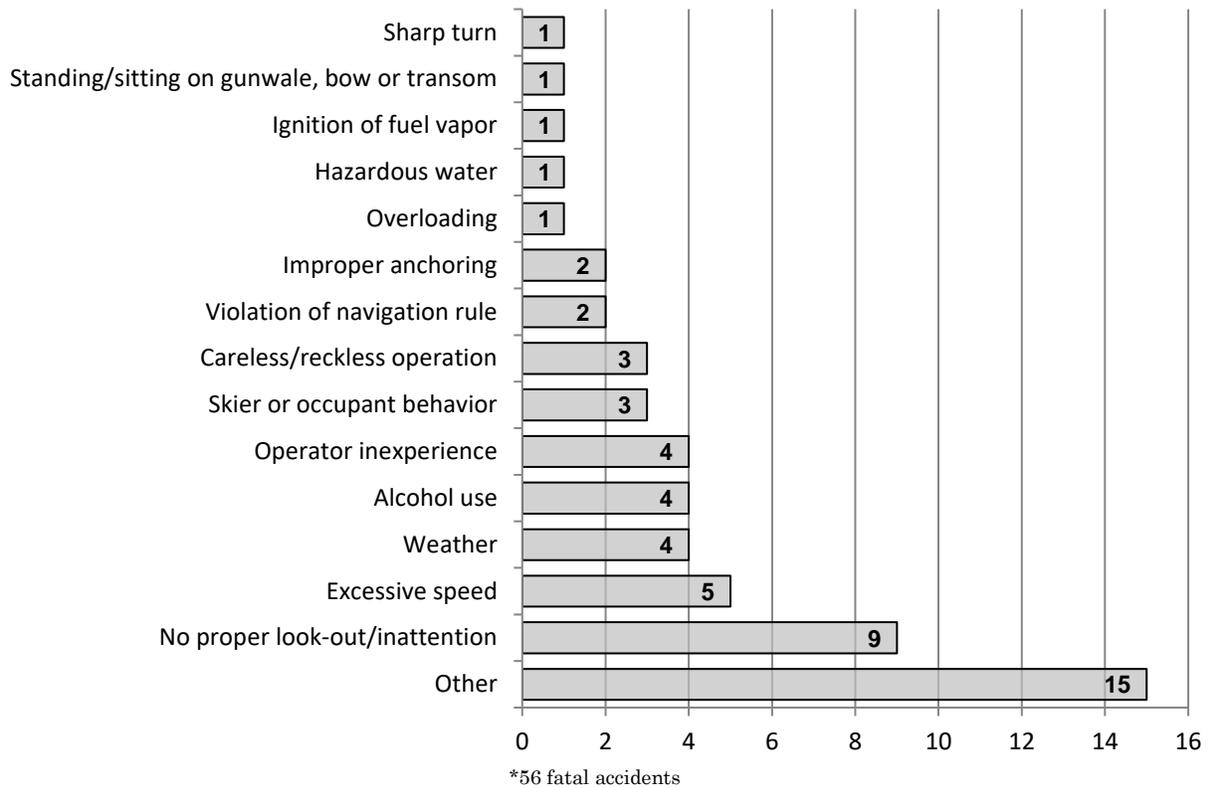
ALCOHOL/DRUG RELATED VICTIMS



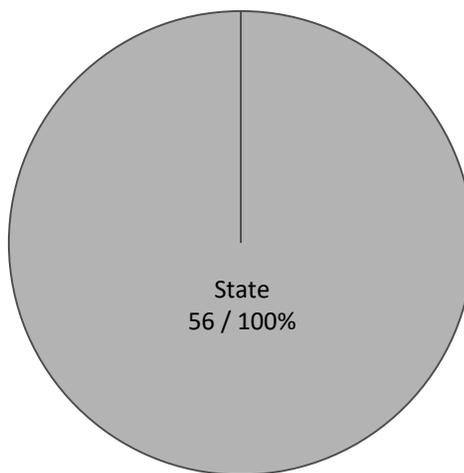
*56 accidents involving 59 fatalities
(Alcohol/drug related refers to any accidents in which alcohol or drug use may have been a contributing factor, whether legally impaired or not)

2018 FATALITY DATA

PRIMARY CAUSE OF ACCIDENT BY REVIEWING AUTHORITY



STATE WATERS VS. OFFSHORE WATERS



*Offshore defined as the edge of the Gulf Stream or three miles from shore, whichever is greater, in the Atlantic and more than nine miles out in the Gulf

Boating Injuries



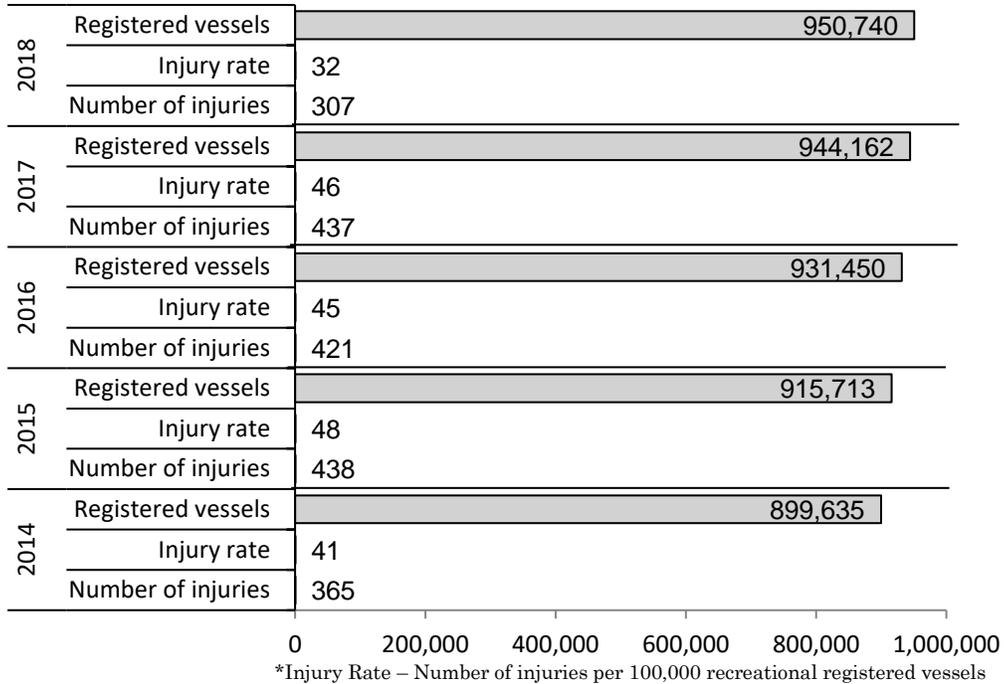
Boating Injuries photo detail

Cover Photo: (Courtesy of FWC)

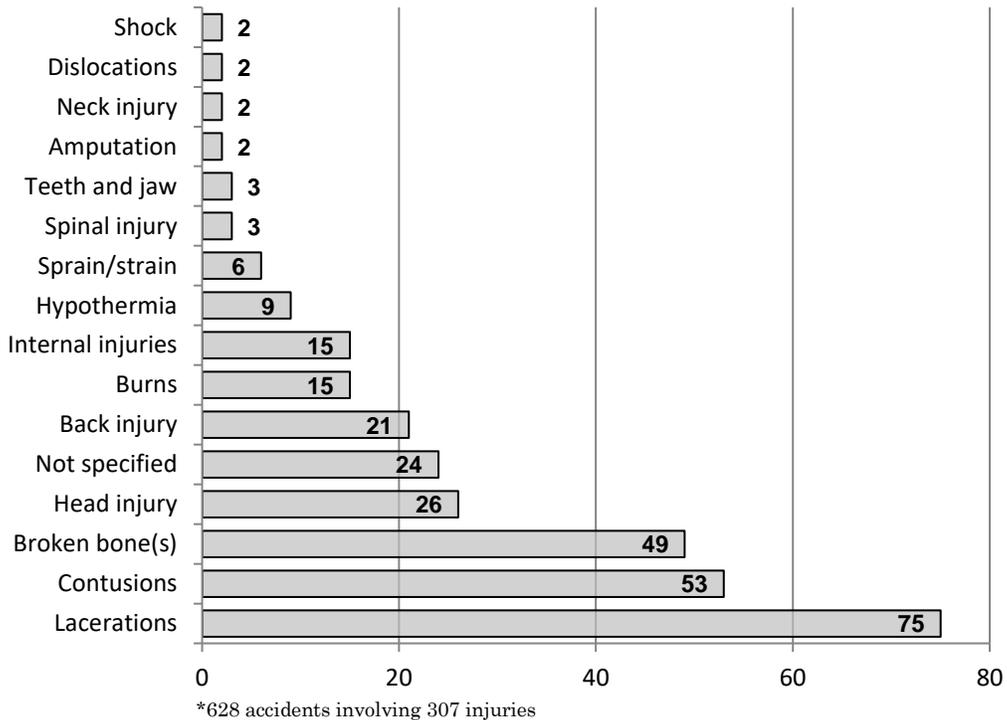
On September 9, Vessel #1 (top picture) was drifting, in neutral at dusk on Lake Minneola. Vessel #2 (bottom picture) was traveling west on plane from the east side of the lake. The occupants of vessel #1 were eating dinner when they noticed the sound of a boat motor drawing close to them. The operator of Vessel #1, observed Vessel #2 approaching them at a high rate of speed and operating with no navigation lights. Vessel #2 collided with vessel #1, its bow penetrating the hull of Vessel #1 just above the water line. The impact caused the occupants on Vessel #2 to fall in their boat and were knocked unconscious and sustain injuries. Operator of vessel #2 admitted to drinking alcoholic beverages earlier in the day, but field sobriety tasks did not indicate legal impairment.

2018 INJURY DATA

TOTAL INJURIES RECORDED 2014-2018

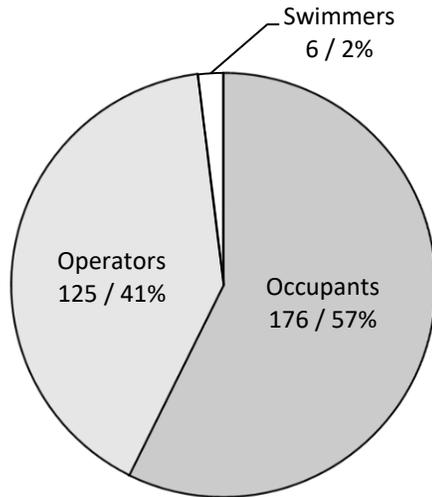


TYPES OF INJURY



2018 INJURY DATA

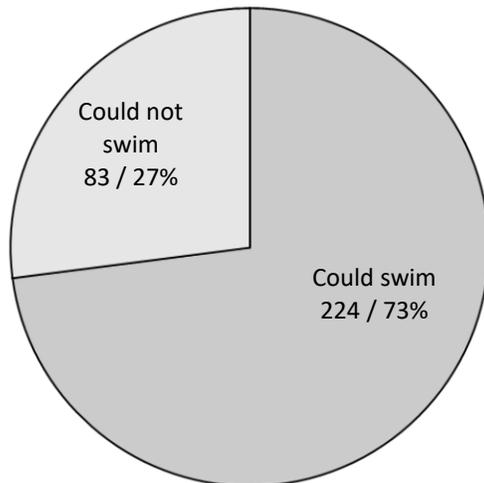
VICTIM STATISTICS (INJURED)



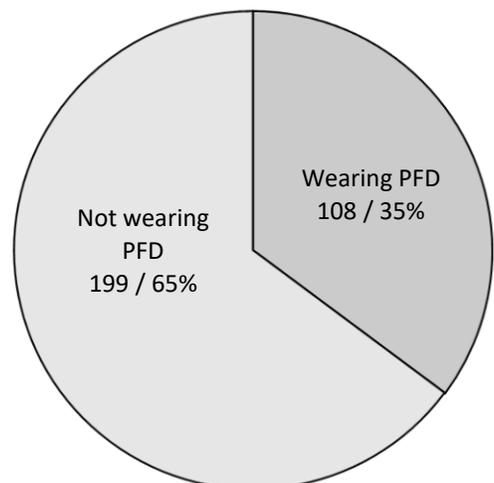
*628 accidents involving 307 injured

On Sunday, May 13, 2018, at approximately 8:30 pm a 30-foot open motorboat was nearing the entrance to St. Andrew Bay when it struck the jetty. All persons onboard were thrown around inside the boat resulting in multiple injuries. The 27-year-old operator was able to back the boat off the jetty however due to the damage to the hull it quickly took on water and capsized in the channel. Multiple agencies had responded to the accident and everyone was recovered from the water and taken to the hospital for treatment of their injuries. Alcohol was a contributing factor in this accident.

VICTIM STATISTICS (SWIMMING ABILITY)



VICTIM STATISTICS (PFD USE)



Personal Watercraft Accidents



Personal Watercraft Accidents photo detail

Cover Photos: (Courtesy of FWC)

On May 12, at approximately 2:30 pm, two personal watercraft (PWC) were operating in Biscayne Bay. The PWC were jumping the wakes of other vessels in the area. PWC #1 jumped the wake of a vessel and subsequently landed on PWC #2. The operator of PWC #2 was ejected by the impact. The operator of PWC #1 assisted him back onto his PWC and notified emergency services. Both operators were examined by Fire-Rescue for minor injuries. Both declined transport to a medical facility as they felt their injuries were not serious.

2018 PERSONAL WATERCRAFT DATA

2018 PERSONAL WATERCRAFT REGISTRATION AND ACCIDENTS BY COUNTY									
County	Pleasure	Rental	Total	PWC Accidents	PWC Fatalities	PWC Injuries	Property Damage	Rank	Accident Rate*
Alachua	804		804						
Baker	236		236						
Bay	2,042	279	2,321	6		4	\$12,200	6	1:387
Bradford	262	1	263						
Brevard	3,641	17	3,658	2		2	\$8,000	14	1:1,829
Broward	9,357	42	9,399	3		0	\$11,400	11	1:3,133
Calhoun	55		55						
Charlotte	1,824	34	1,858						
Citrus	1,028		1,028						
Clay	1,743	14	1,757	2		2	\$0	20	1:879
Collier	3,245	315	3,560	4		4	\$600	10	1:890
Columbia	283		283						
Desoto	159	1	160						
Dixie	61		61						
Duval	4,192	13	4,205	3		4	\$5,500	12	1:1,402
Escambia	1,908	28	1,936	2		1	\$2,750	18	1:968
Flagler	819		819						
Franklin	162		162						
Gadsden	73		73						
Gilchrist	127		127						
Glades	31		31						
Gulf	131	7	138						
Hamilton	36		36						
Hardee	102	1	103						
Hendry	216	1	217						
Hernando	1,234		1,234						
Highlands	1,147	1	1,148						
Hillsborough	6,561	28	6,589	7	3	5	\$22,650	5	1:941
Holmes	61	1	62						
Indian River	887	3	890	1		1	\$0	23	1:890
Jackson	240	1	241						
Jefferson	43		43						
Lafayette	46		46						
Lake	2,515	7	2,522	2		2	\$9,600	13	1:1,261
Lee	4,880	185	5,065						
Leon	708	4	712	1		1	\$0	23	1:712
Levy	211		211						

*Accident Rate = $\frac{\# \text{ of Registered Vessels}}{\# \text{ of Accidents}}$

Those Counties in bold print represent the top ten counties for PWC accidents.
Fields that equaled zero intentionally left blank.

2018 PERSONAL WATERCRAFT DATA

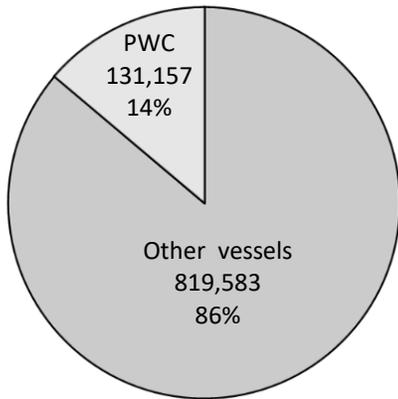
2018 PERSONAL WATERCRAFT REGISTRATION AND ACCIDENTS BY COUNTY									
County	Pleasure	Rental	Total	PWC Accidents	PWC Fatalities	PWC Injuries	Property Damage	Rank	Accident Rate*
Liberty	28		28						
Madison	40		40						
Manatee	2,772	66	2,838	1		2	\$0	22	1:2,838
Marion	2,016	7	2,023						
Martin	1,704	44	1,748	2		2	\$3,200	17	1:874
Miami-Dade	15,519	290	15,809	20	2	14	\$48,800	1	1:790
Monroe	1,982	376	2,358	16	1	12	\$34,400	2	1:147
Nassau	685	8	693						
Okealoosa	3,298	370	3,668	12		6	\$47,900	4	306
Okeechobee	215		215						
Orange	7,424	42	7,466	1	1		\$5,500	21	1:7,466
Osceola	2,142	15	2,157	2		1	\$4,800	16	1:1,079
Palm Beach	6,192	25	6,217	6		3	\$12,000	7	1:1,036
Pasco	4,018	10	4,028						
Pinellas	8,945	313	9,258	13		8	\$27,900	3	1:712
Polk	3,323	5	3,328						
Putnam	483	1	484	2		2	\$2,700	19	1:242
Santa Rosa	2,159	83	2,242	2		1	\$4,950	15	1:1,121
Sarasota	2,305	120	2,425	4		4	\$12,100	9	1:606
Seminole	3,494	5	3,499						
St. Johns	1,874	5	1,879	2		2	\$0	20	1:940
St. Lucie	1,444	3	1,447						
Sumter	289	1	290						
Suwannee	200		200						
Taylor	76		76						
Union	63		63						
Volusia	2,865	44	2,909	4		4	\$17,680	8	1:727
Wakulla	163		163						
Walton	700	15	715						
Washington	137	1	138						
DHSMV	694	6	700						
TOTAL	128,319	2,838	131,157	120	7	87	\$294,630		1:1,093

*Accident Rate = $\frac{\text{\# of Registered Vessels}}{\text{\# of Accidents}}$

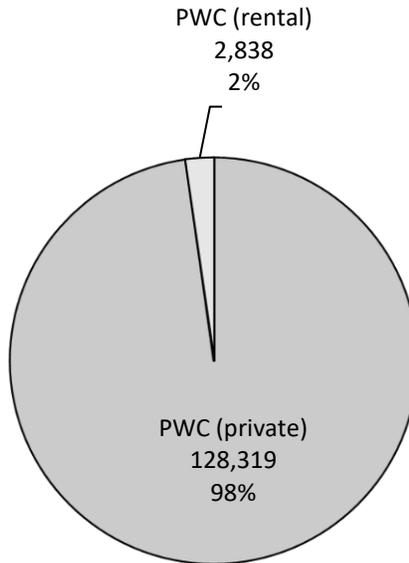
Those Counties in bold print represent the top ten counties for PWC boating accidents in 2018
 DHSMV numbers represent registrations issued at the main office instead of at county level
 Fields that equaled zero intentionally left blank.

2018 PERSONAL WATERCRAFT DATA

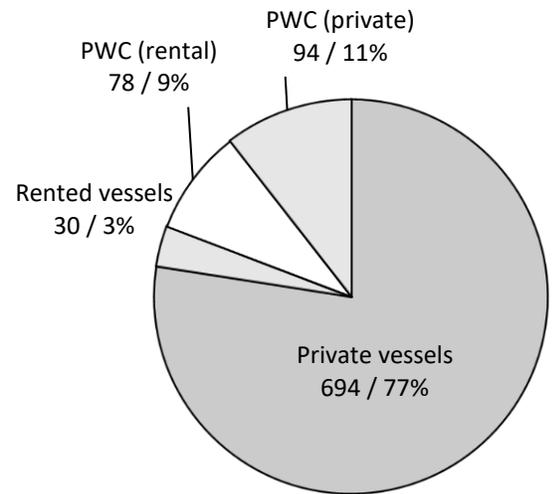
TOTAL REGISTERED PWC



PWC OWNERSHIP BY REGISTRATION

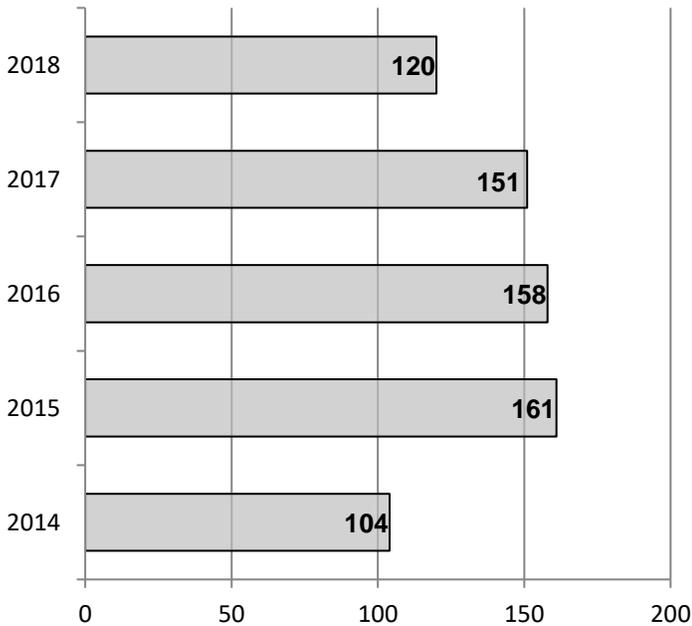


COMPARISON OF PWC TO VESSELS INVOLVED IN ACCIDENTS

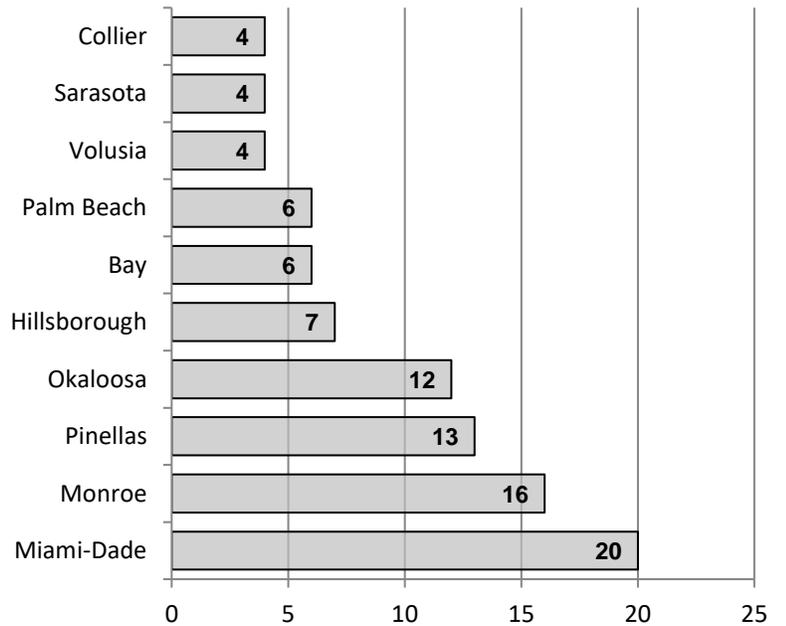


*896 vessels involved in accidents

ACCIDENTS 2014-2018

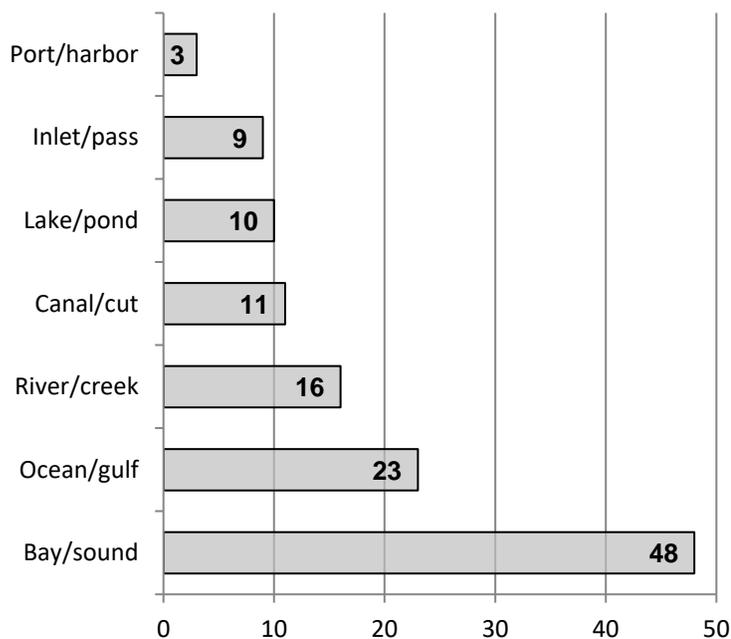


TOP TEN COUNTIES

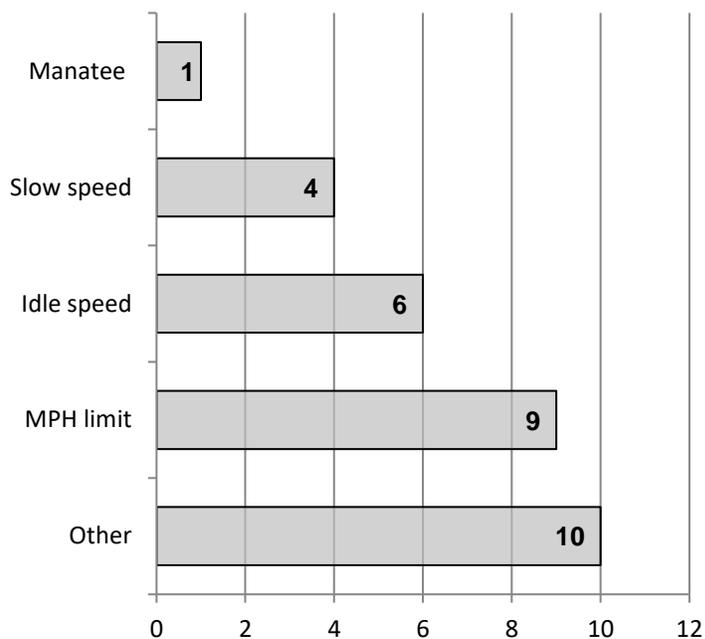


2018 PERSONAL WATERCRAFT DATA

ACCIDENT SITE LOCATION

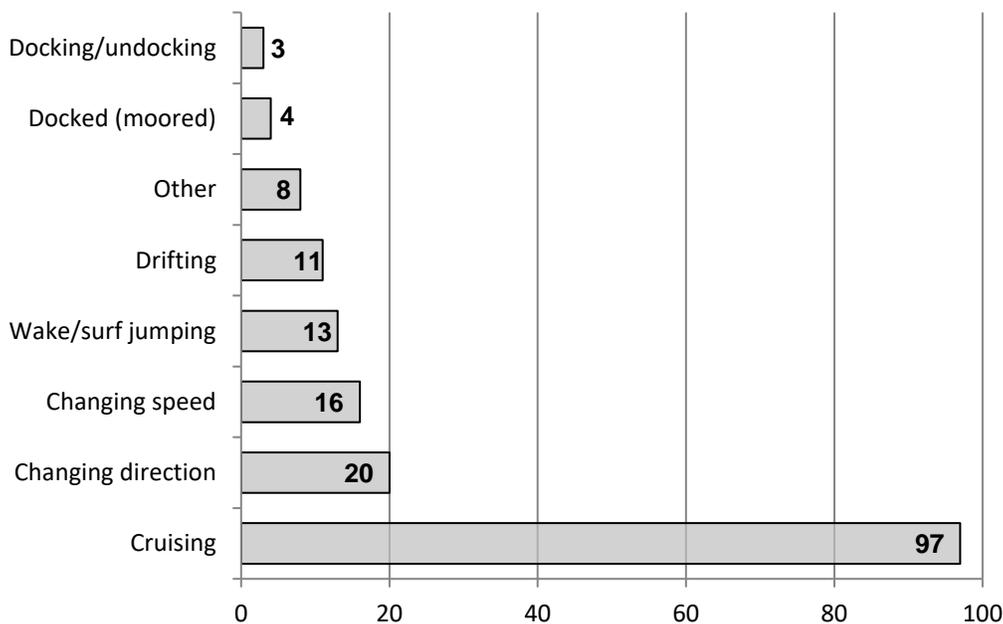


RESTRICTED AREA ACCIDENTS



*30 PWC accidents occurred within a restricted area

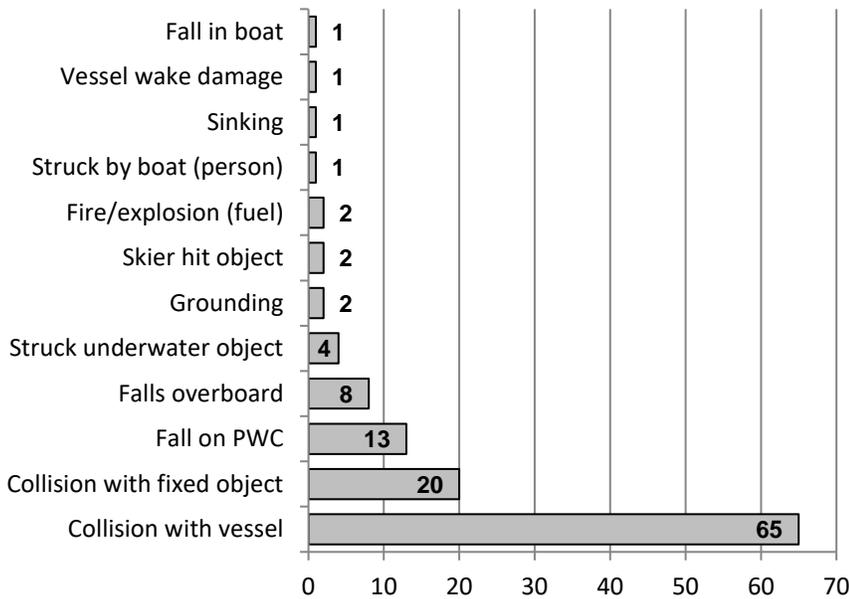
OPERATION AT TIME OF ACCIDENT



*172 PWC involved in 120 accidents

2018 PERSONAL WATERCRAFT DATA

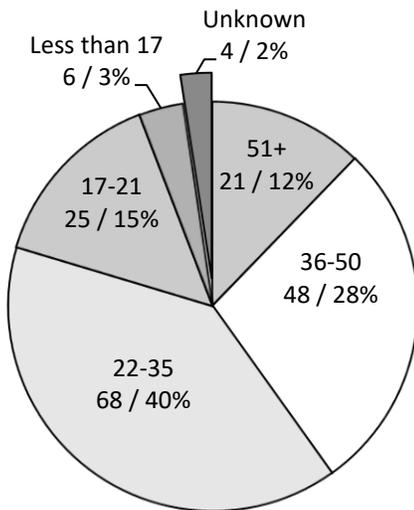
PRIMARY TYPE OF ACCIDENT



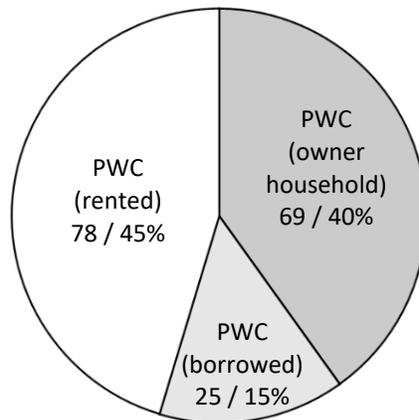
*120 PWC accidents
(Based on first harmful event as determined by the state reviewing authority)

On October 13th, at approximately 3:45 PM in Marathon a single PWC accident occurred. The 30-year-old male operator was traveling at a high rate of speed when he hit a boat wake and the PWC ramped off the wake. Upon landing, he hit his head on the handlebars, causing injuries to his head and neck before falling overboard. He was retrieved from the water unresponsive. CPR was performed, and he was transported to the hospital, he later succumbed to his injuries.

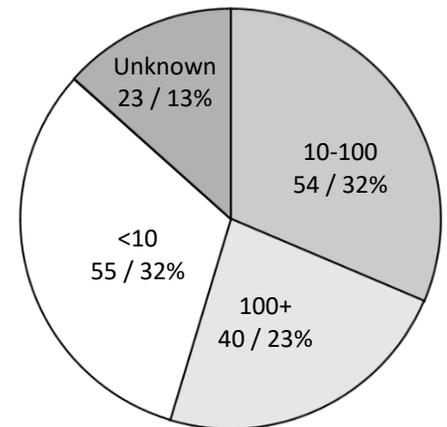
OPERATOR AGE



OWNERSHIP



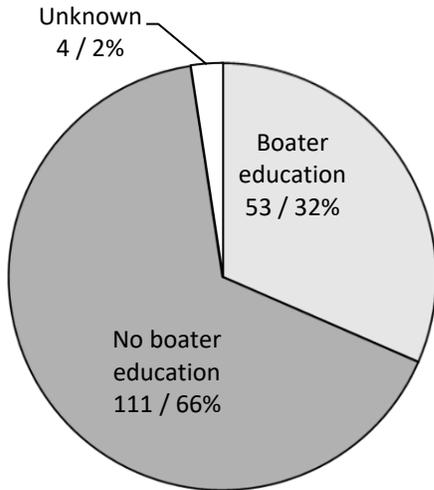
OPERATOR EXPERIENCE (HOURS)



*120 PWC accidents involving 172 PWC and 168 operators
Operator information for four PWC are unknown due to hit and run accidents or no operators at time of accident

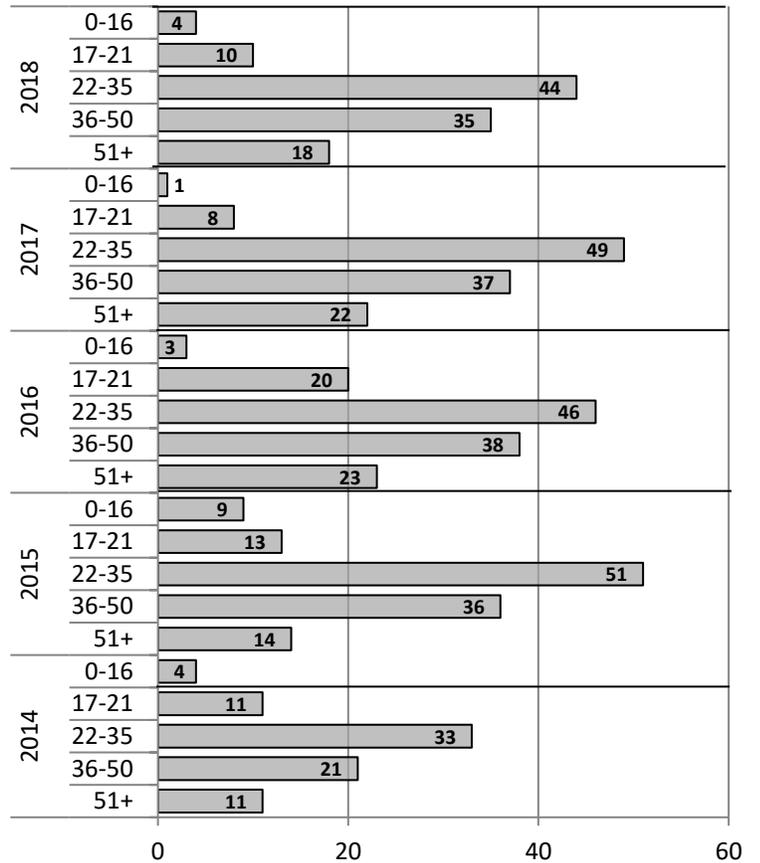
2018 PERSONAL WATERCRAFT DATA

OPERATOR EDUCATION

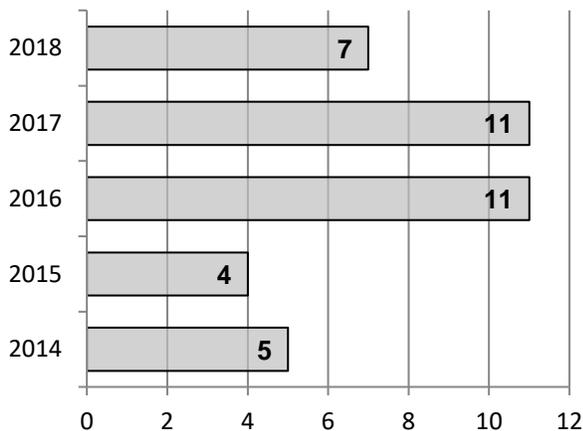


*120 accidents involving 168 operators

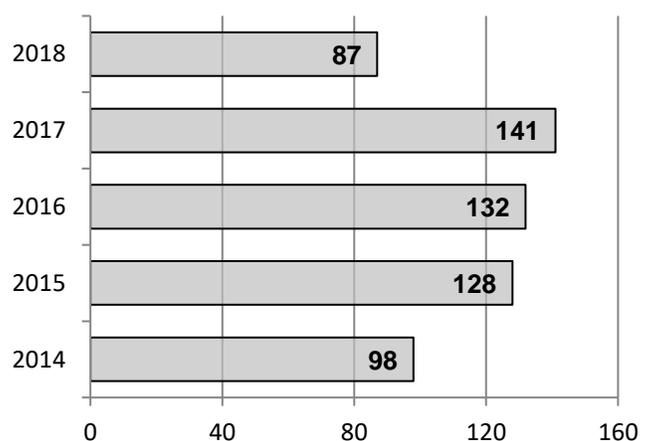
OPERATORS BY AGE WITHOUT BOATER EDUCATION



FATALITIES 2014-2018

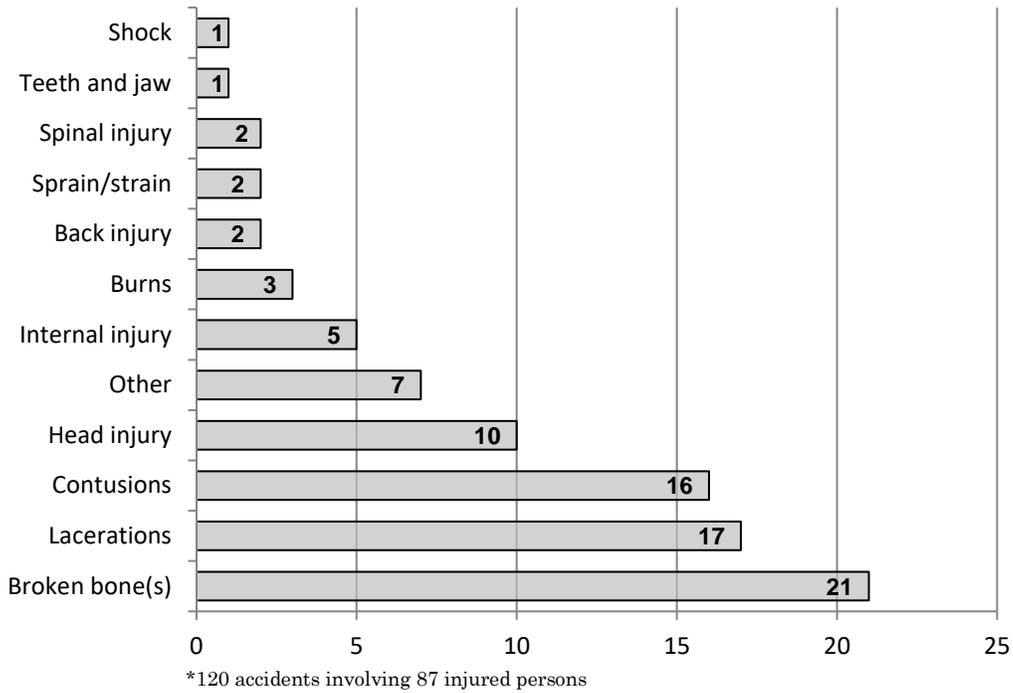


INJURIES 2014-2018

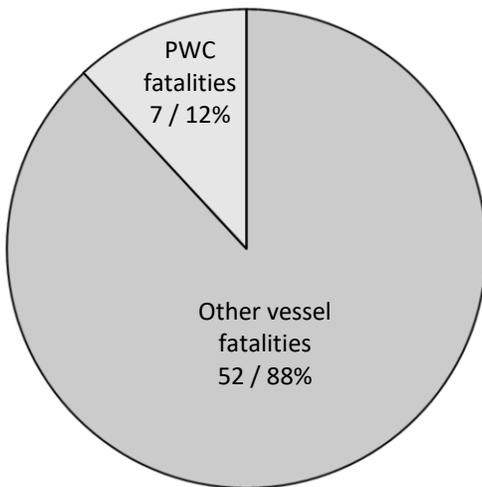


2018 PERSONAL WATERCRAFT DATA

PRIMARY INJURY TYPES

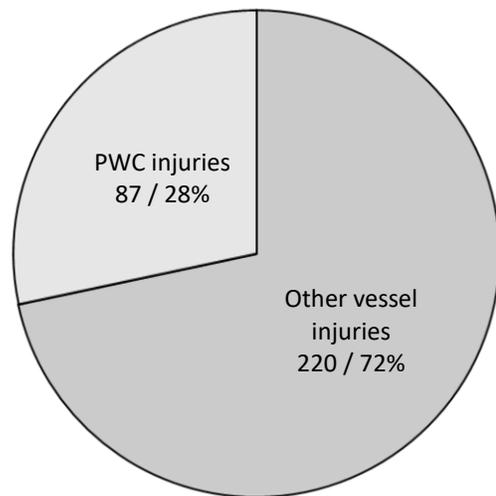


COMPARISONS OF PWC FATALITIES



*59 Fatalities

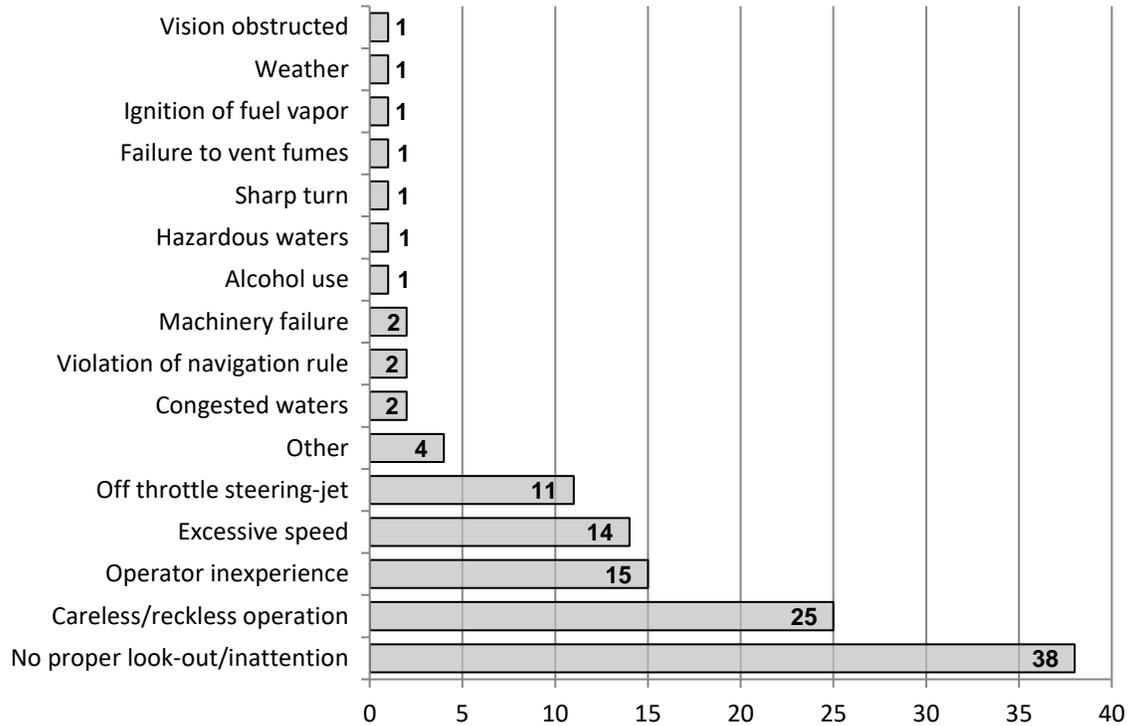
COMPARISONS OF PWC INJURIES



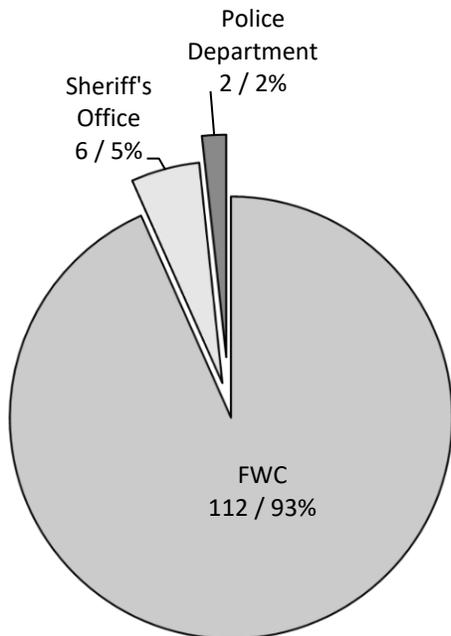
*307 injuries

2018 PERSONAL WATERCRAFT DATA

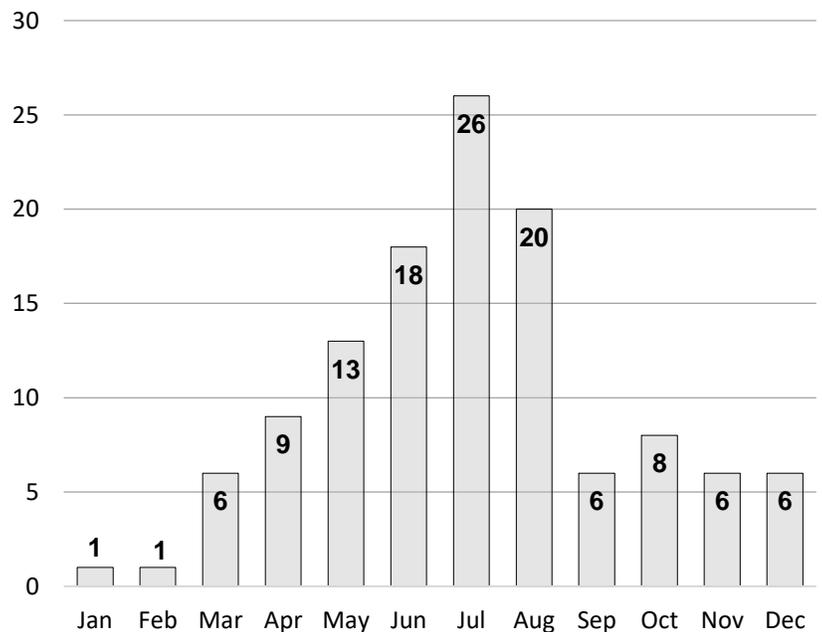
PRIMARY CAUSE ASSESSED BY REVIEWING AUTHORITY



INVESTIGATING AGENCY



ACCIDENTS BY MONTH

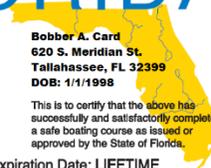


*120 PWC accidents

Boating Education Statistics



FLORIDA
The Sunshine State



Bobber A. Card
620 S. Meridian St.
Tallahassee, FL 32399
DOB: 1/1/1998

This is to certify that the above has successfully and satisfactorily completed a safe boating course as issued or approved by the State of Florida.

Expiration Date: LIFETIME

Boating Safety Education I.D. Card #:



Boating Education Statistics photo detail

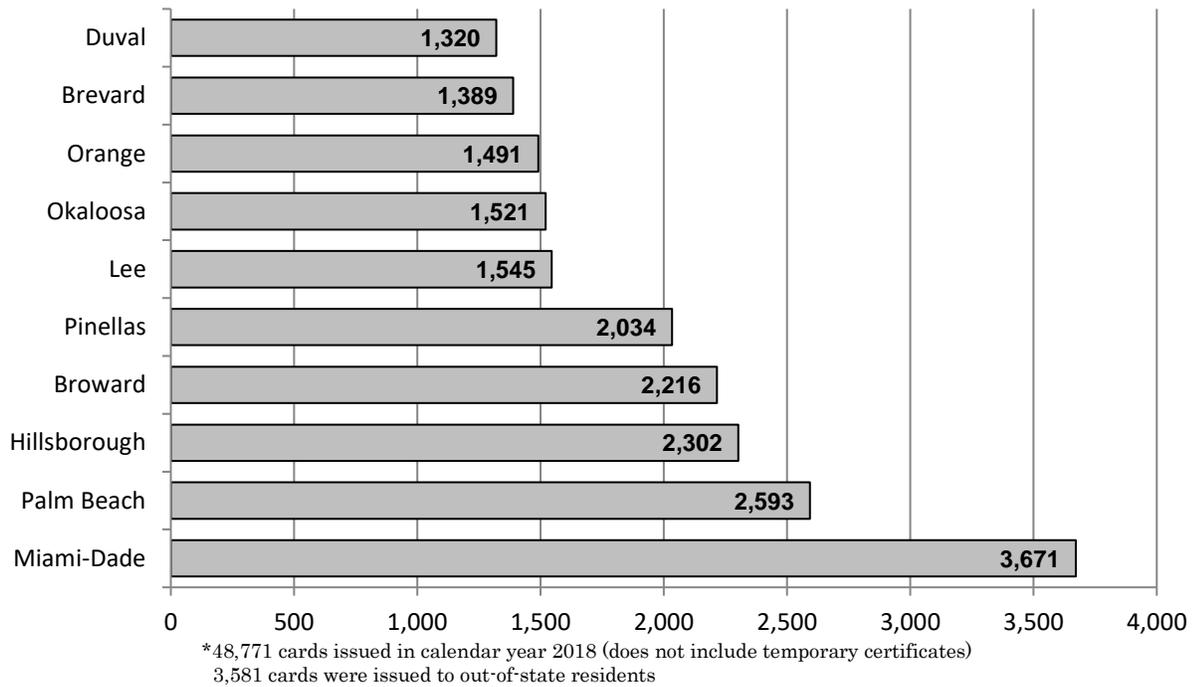
Cover Photos: (Courtesy of FWC)

Officer Specialists Bryce Phillippi and Damon Pulaski recently taught boater safety to the Pasco County Sheriff's Office Junior Explorer program. The children enjoyed learning about safe boating and will hopefully obtain boater education cards.

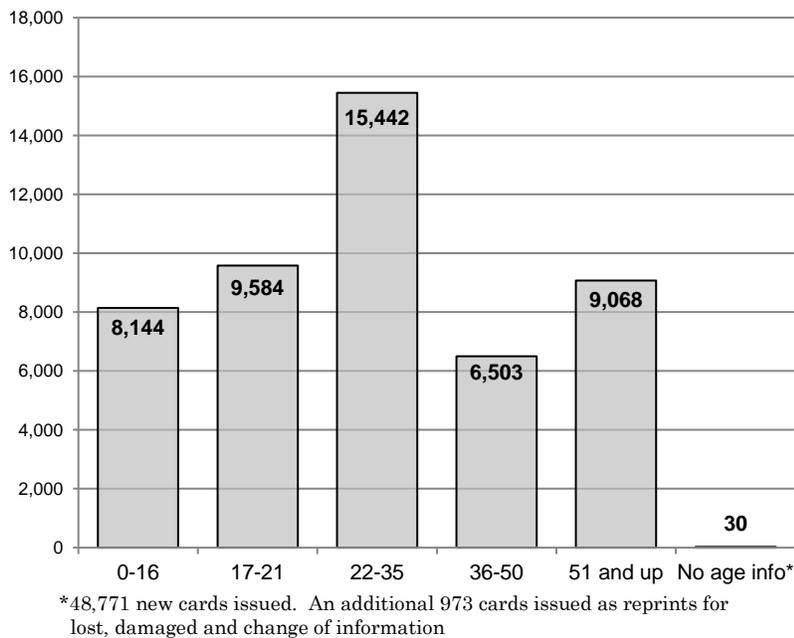
Brian Rehwinkel and Ivey Dockery of FWC's Boating Safety Unit gave a presentation at a Boating Safety Instructor Workshop. The Boating Safety Unit provides training around the state to boating safety instructors from multiple organizations such as U.S. Coast Guard Auxiliary and America's Boat Club (formerly U.S. Power Squadron).

2018 BOATING EDUCATION

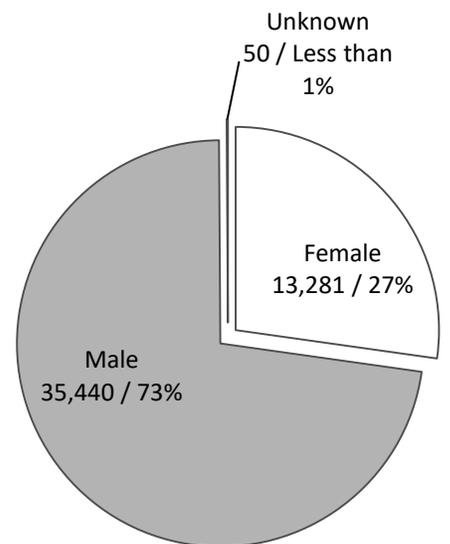
TOP TEN COUNTIES-BOATING SAFETY EDUCATION IDENTIFICATION (I.D.) CARDS ISSUED



BOATING SAFETY EDUCATION I.D. CARD DISTRIBUTION BY AGE

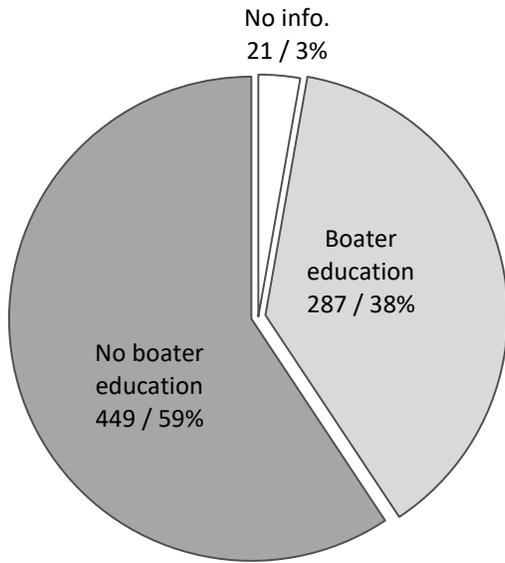


I.D. CARD DISTRIBUTION BY GENDER

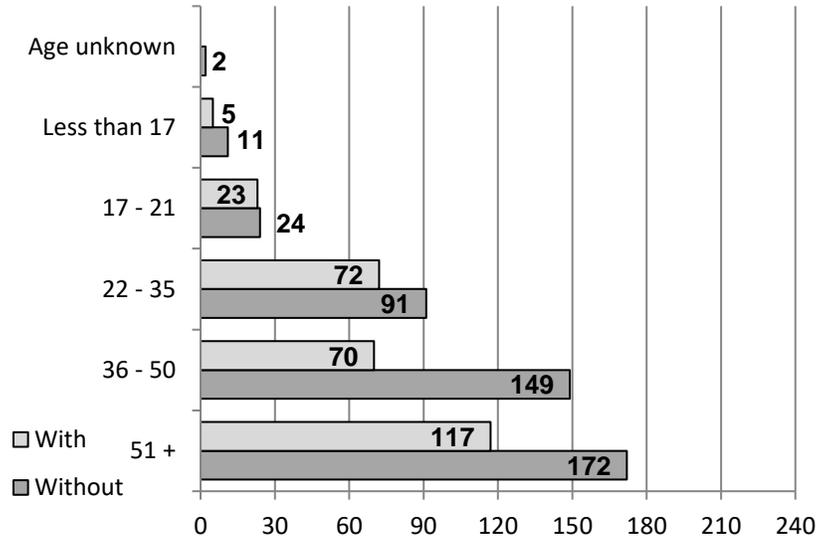


2018 BOATING EDUCATION

OPERATORS INVOLVED IN ACCIDENTS-EDUCATION/AGE

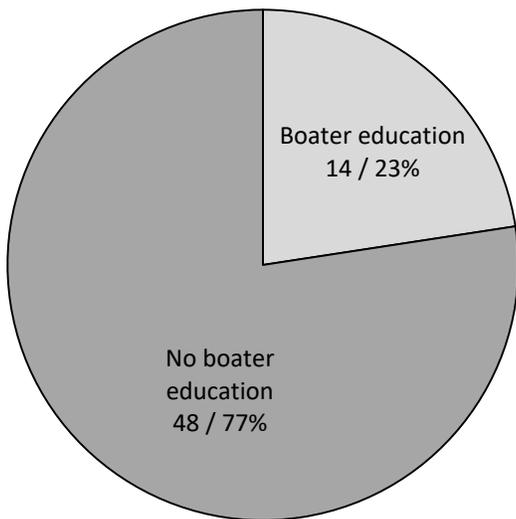


*757 operators

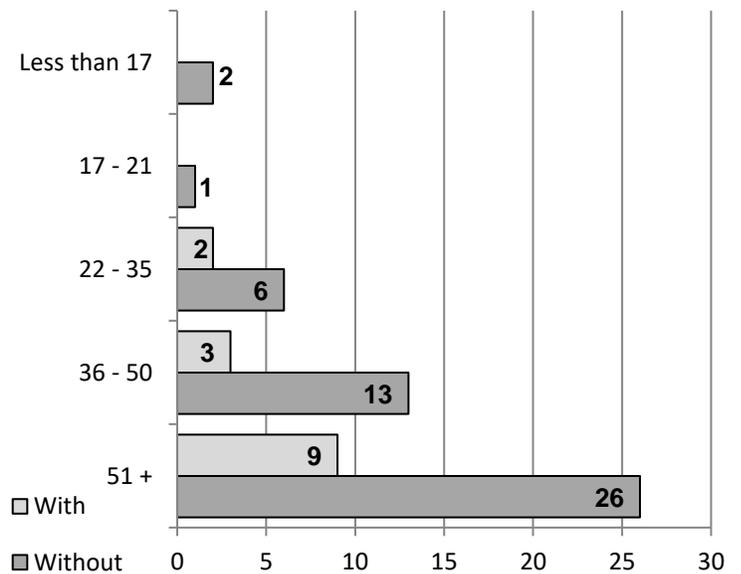


*757 operators, two did not provide date of birth
21 additional were unknown due to hit and run accidents or information was not entered, they are not included in this table

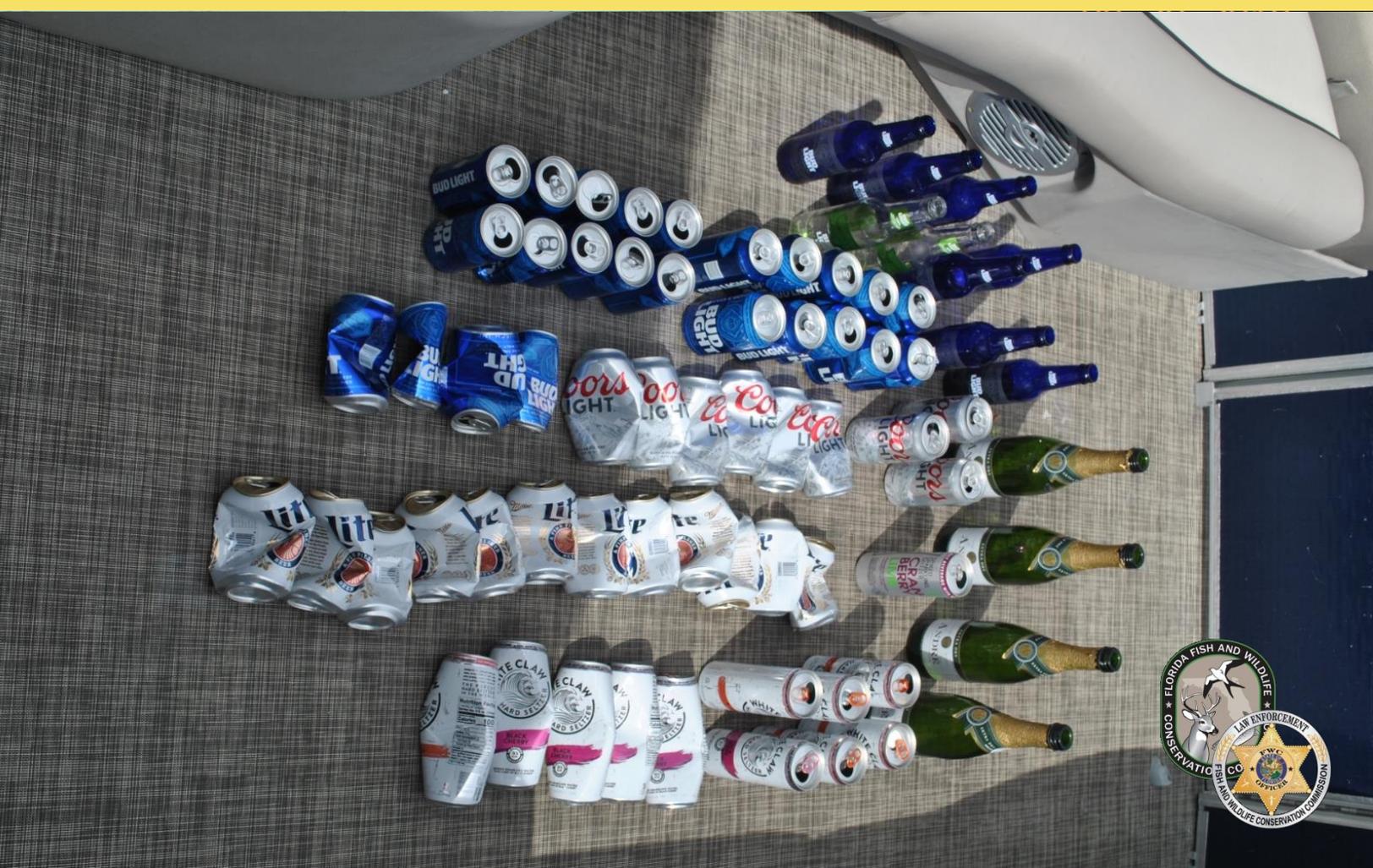
OPERATORS INVOLVED IN FATAL ACCIDENTS-EDUCATION/AGE



*62 operators



Violation Summary



Violation Summary photo detail

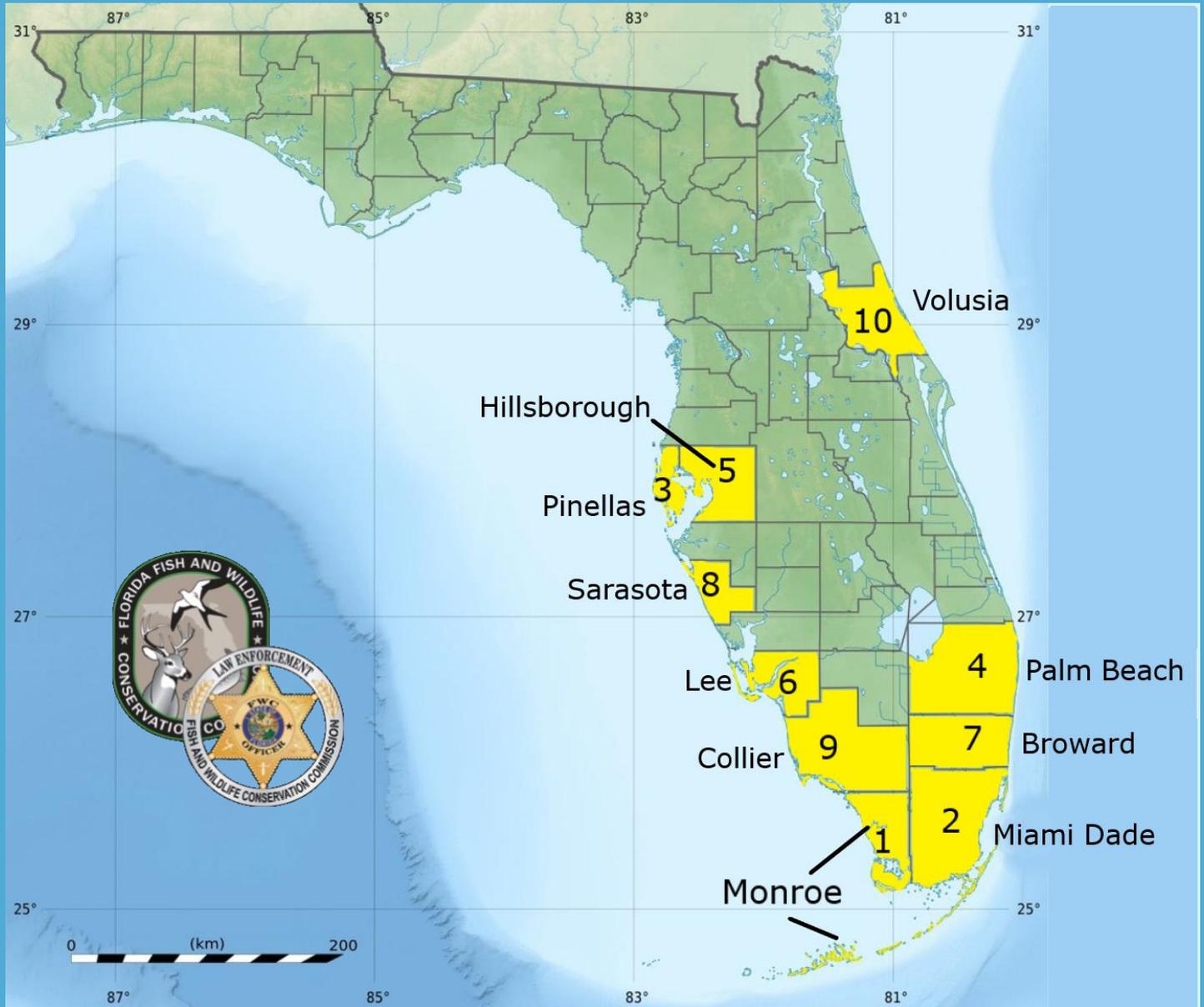
Cover Photos: (Courtesy of FWC)

Photos of alcoholic beverages found onboard vessels involved in boating accidents.

VIOLATION SUMMARY

2018 UNIFORM BOATING CITATION SUMMARY				
CITATION	2018		2017	
	FWC	Other	FWC	Other
Aids to Navigation and Regulatory Markers Uniform waterway markers for safety and navigation Mooring to or damaging markers or buoys	33	4	5	1
Alcohol and Drugs Operation of a vessel under the influence of alcohol Operation of a vessel while impaired	536	29	374	14
Boating Restricted Areas Manatee protection rules Public safety rules Local ordinances	2,139	3,060	1,858	2,129
Boating Safety Education Boating safety education I.D. cards	555	883	550	553
Livery Operations Rental without proper safety equipment Rental without boater education Rental to persons under 18 years of age	136	27	68	38
Negligent Operation of a Vessel Reckless operation of a vessel Careless operation of a vessel Navigation rule violation resulting in an accident Navigation rule violation not resulting in an accident Failure to report an accident	445	128	431	132
Personal Watercraft Personal watercraft regulations	354	128	351	81
Skiing and Diving Skiing, aquaplaning and parasailing violations Dive flag violations	373	49	354	32
Registration and Numbering Operation of unregistered/unnumbered vessels Application, certificate, number or decal violation Special manufacturer and dealer numbers Violation relating to vessel titling Violation relating to Hull Identification Numbers	2,278	1,113	2,007	593
Safety Equipment and Regulations Equipment and lighting requirements	3,920	761	3,293	563
SUB TOTAL	10,769	6,232	9,291	4,136
TOTAL VIOLATIONS RECORDED	17,001		13,427	

2018 Top Ten Counties For Boating Accidents

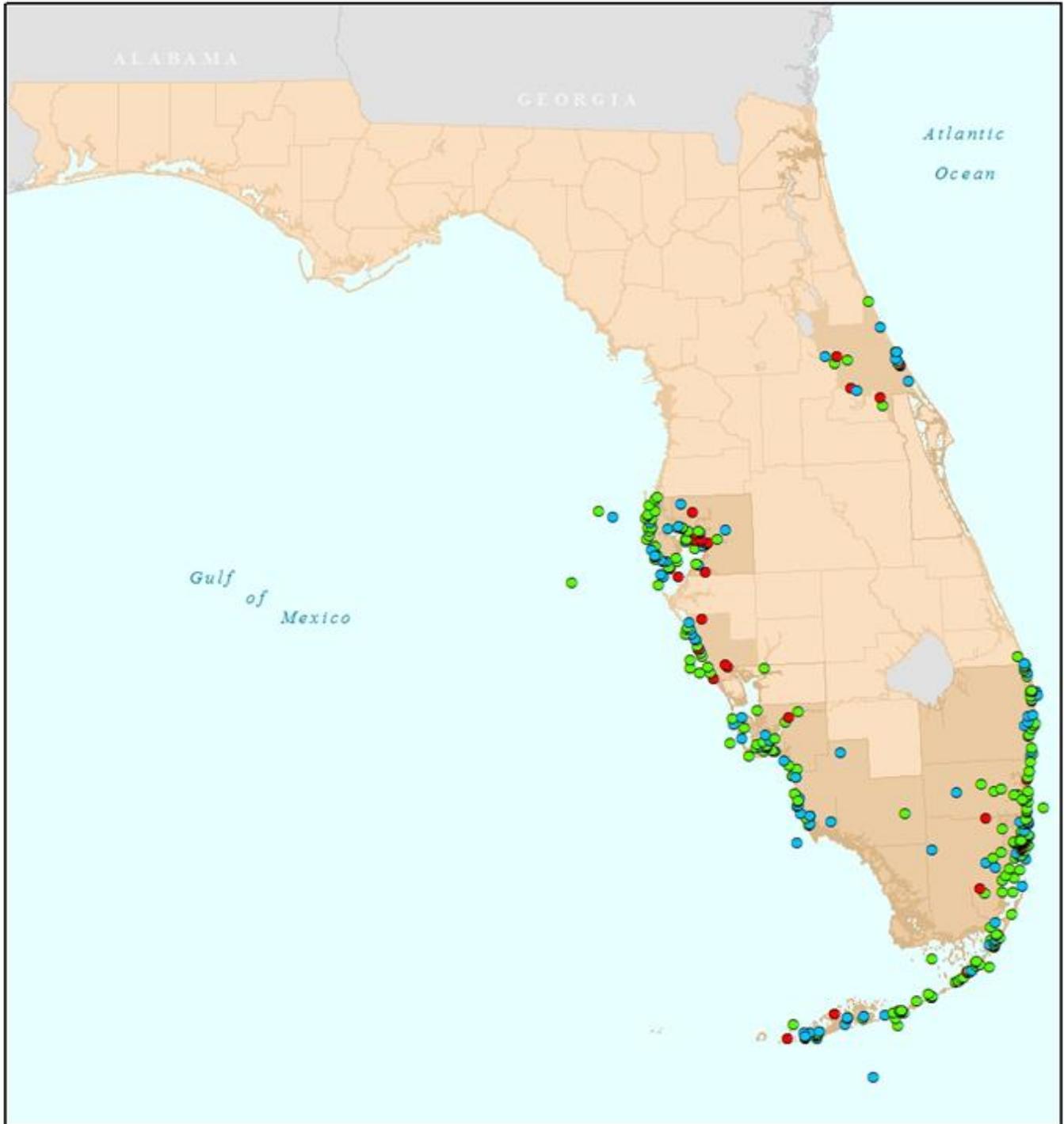


A thorough review of the annual boating accident statistics has revealed that 62% of the reportable boating accidents during the 2018 calendar year occurred in 10 Florida counties.

The information on the following pages represents a breakdown of the accident data from each of these top 10 counties. The graphs show the type of vessels involved, the length, the primary cause of each accident and the primary type of accident for each county. There is also a map of each county with points designating the accident locations.

The information found in this section will provide a basis for future boating safety awareness efforts implemented by the FWC Division of Law Enforcement, Boating and Waterways Section.

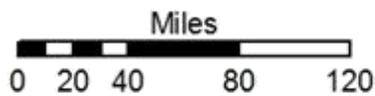
BOATING ACCIDENT STATISTICAL REPORT



Florida Top 10 Counties of Boating Accidents during 2018

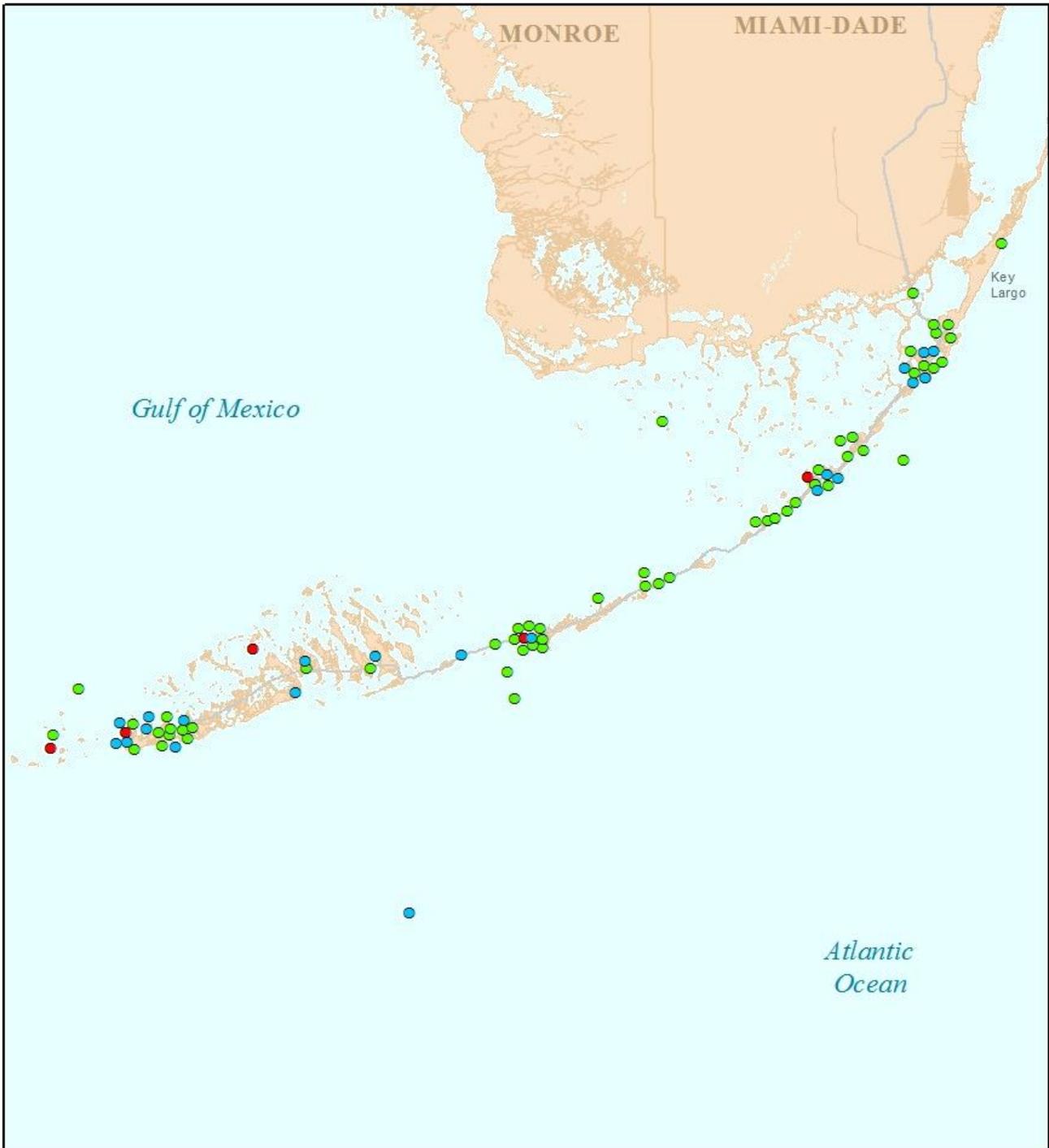
Legend

- Fatal Accident (35)
- Accident with Injury (124)
- Accident without Injury (230)



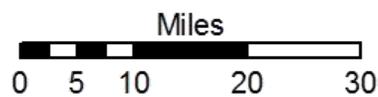
Map document
created by
FWC LE GIS





Known Locations of Accidents in Monroe County during 2018

- Legend**
- Fatal Accident (5)
 - Accident with Injury (21)
 - Accident without Injury (56)

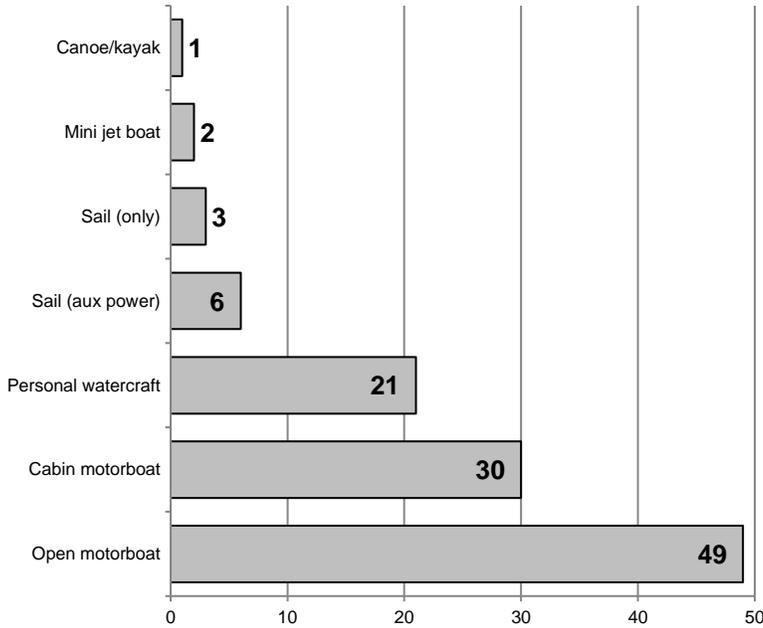


Map document
created by
FWC DLE GIS

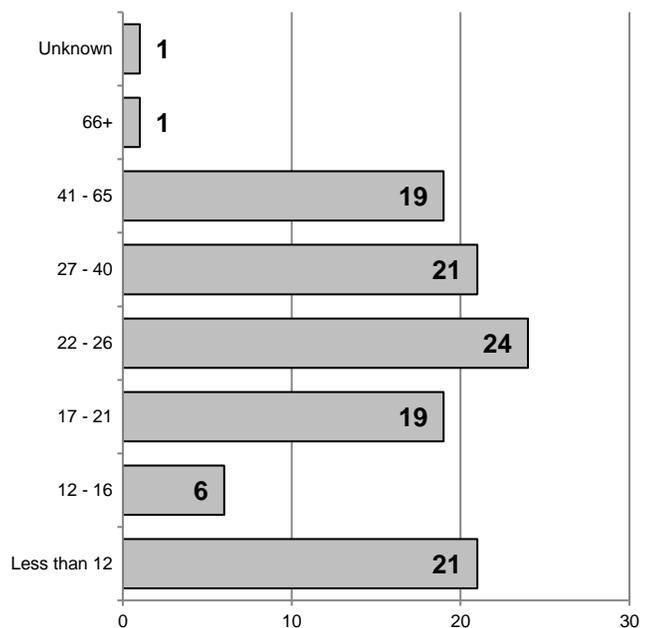


1. MONROE COUNTY

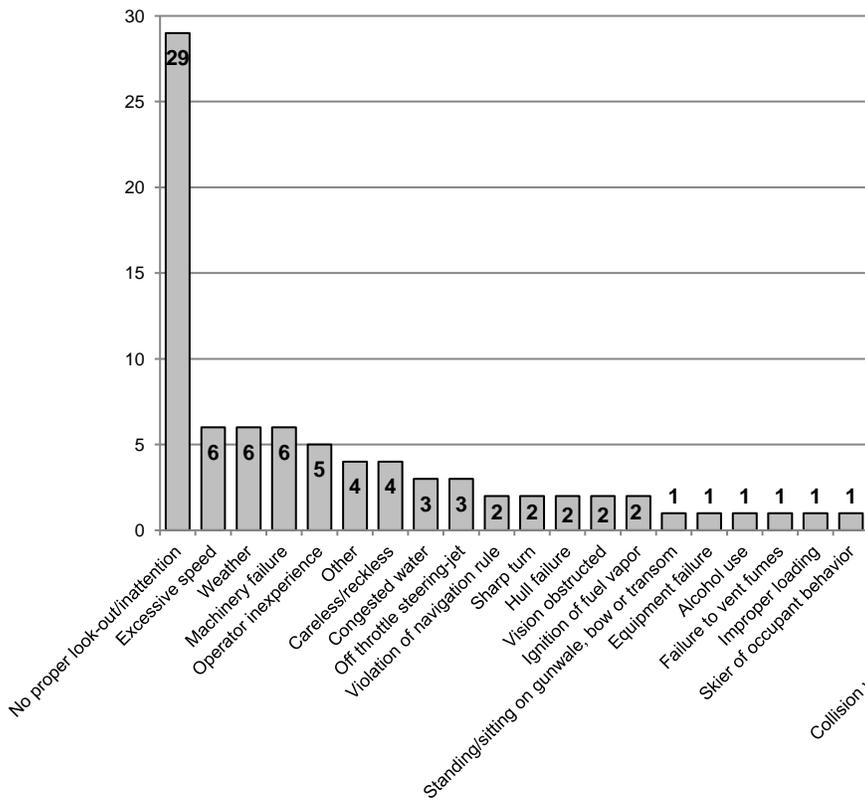
TYPE OF VESSEL



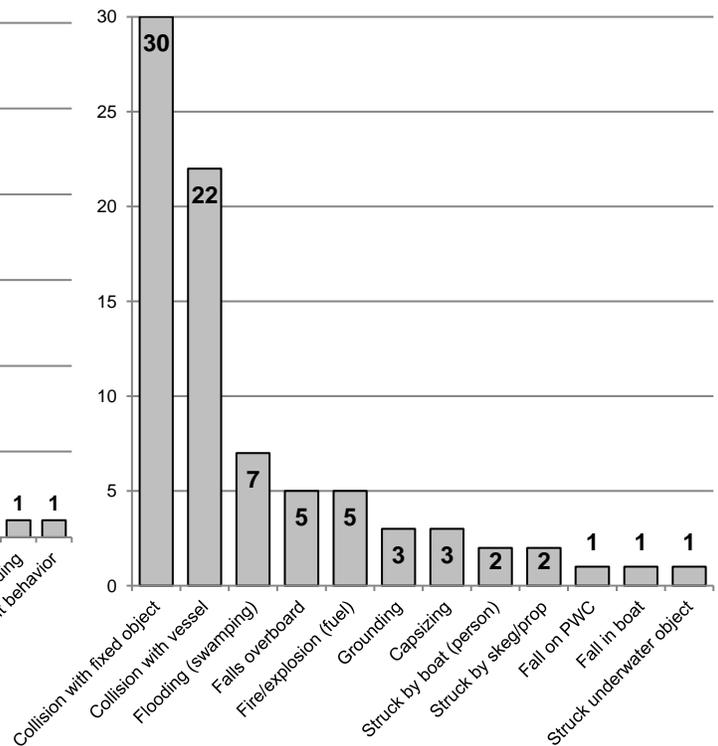
VESSEL LENGTH (IN FEET)

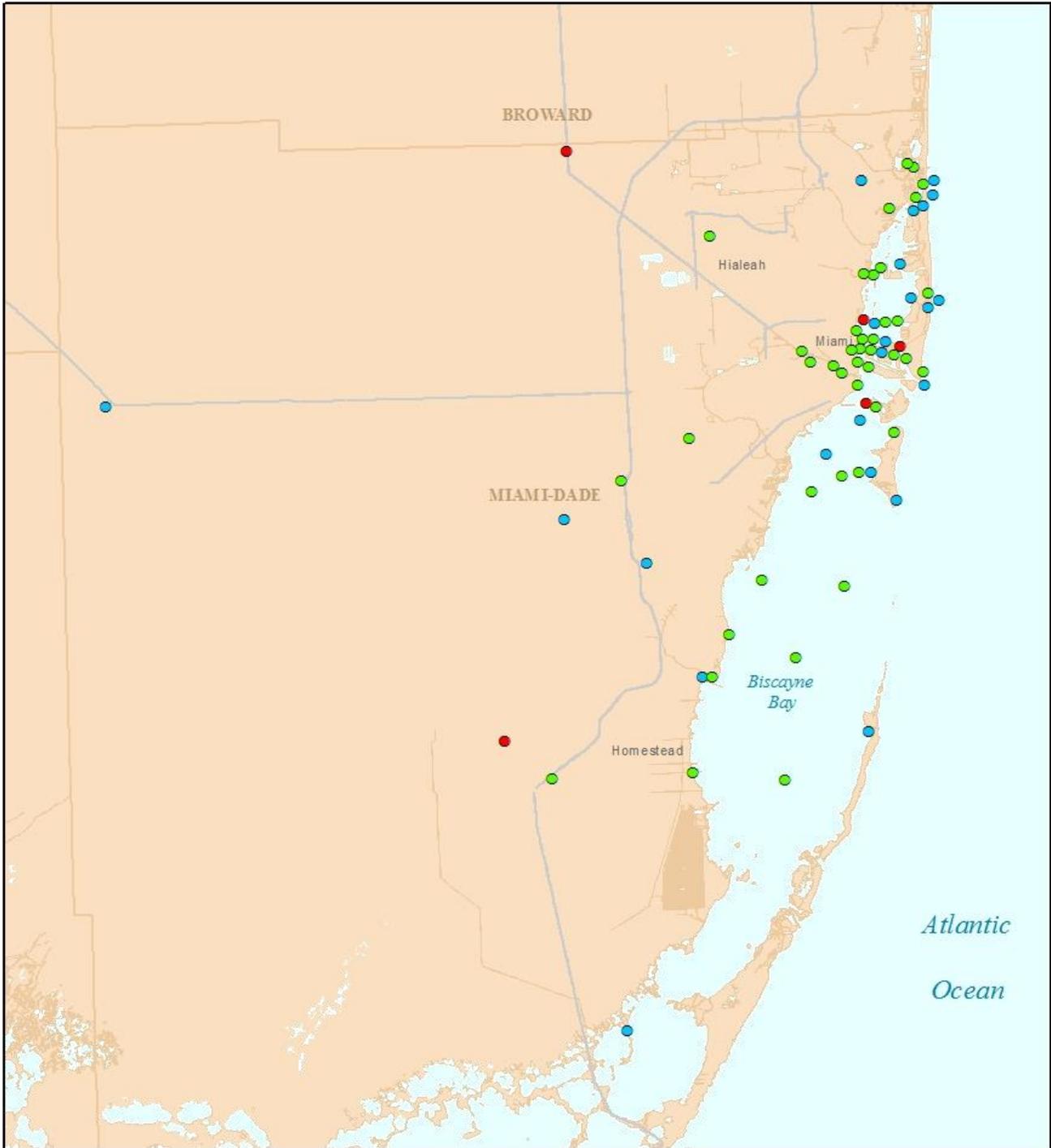


PRIMARY CAUSE OF ACCIDENT



PRIMARY TYPE OF ACCIDENT





Known Locations of Accidents in Miami-Dade County during 2018

Legend

- Fatal Accident (5)
- Accident with Injury (23)
- Accident without Injury (43)

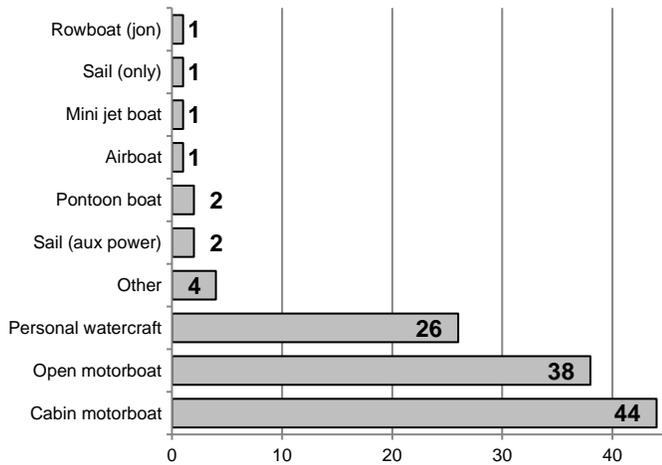


Map document
created by
FWC DLE GIS

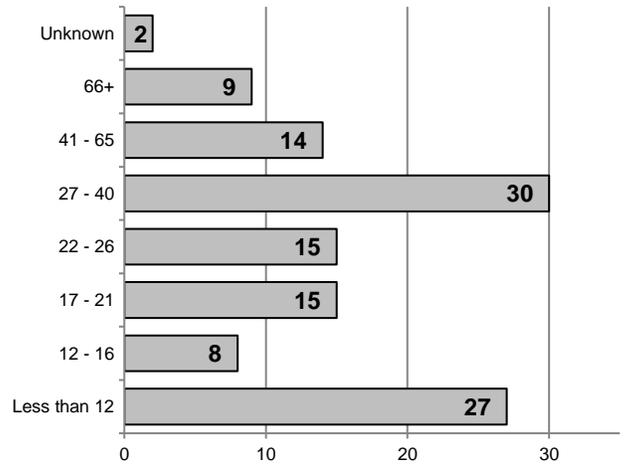


2. MIAMI-DADE COUNTY

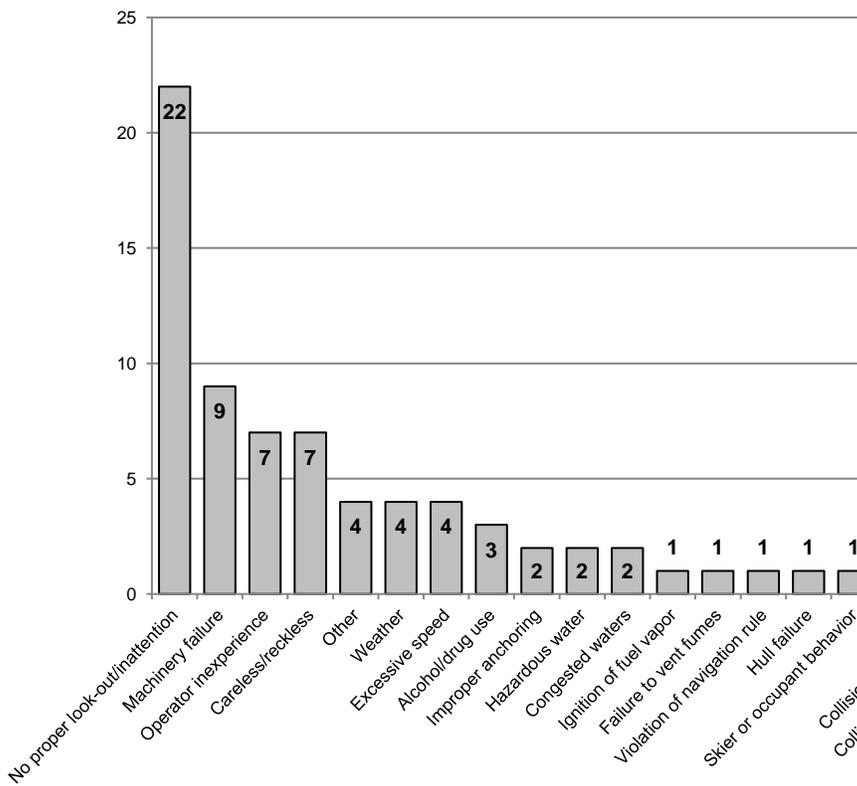
TYPE OF VESSEL



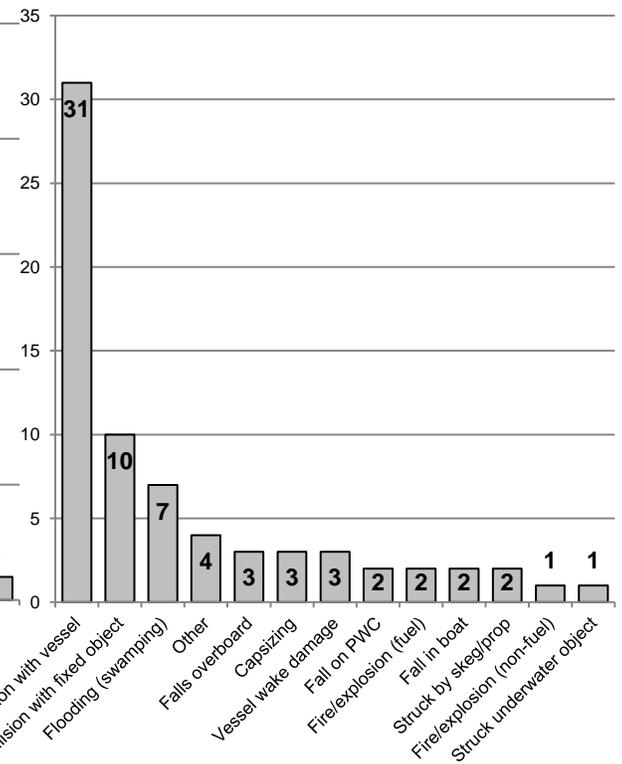
VESSEL LENGTH (IN FEET)



PRIMARY CAUSE OF ACCIDENT



PRIMARY TYPE OF ACCIDENT





Known Locations of Accidents in Pinellas County during 2018

Legend

- Fatal Accident (1)
- Accident with Injury (14)
- Accident without Injury (25)

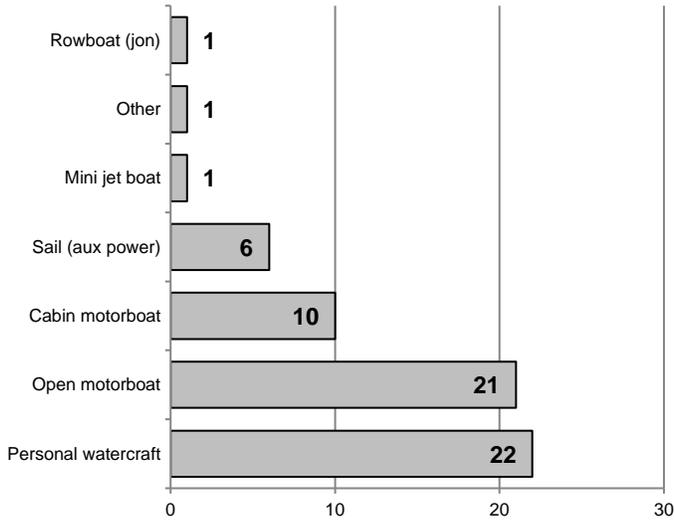


Map document
created by
FWC DLE GIS

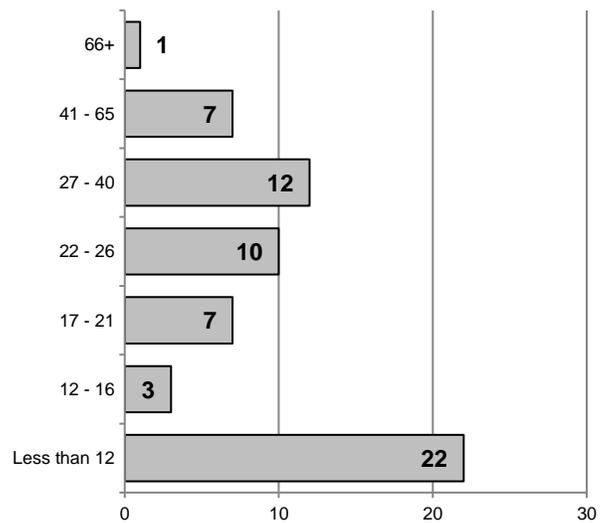


3. PINELLAS COUNTY

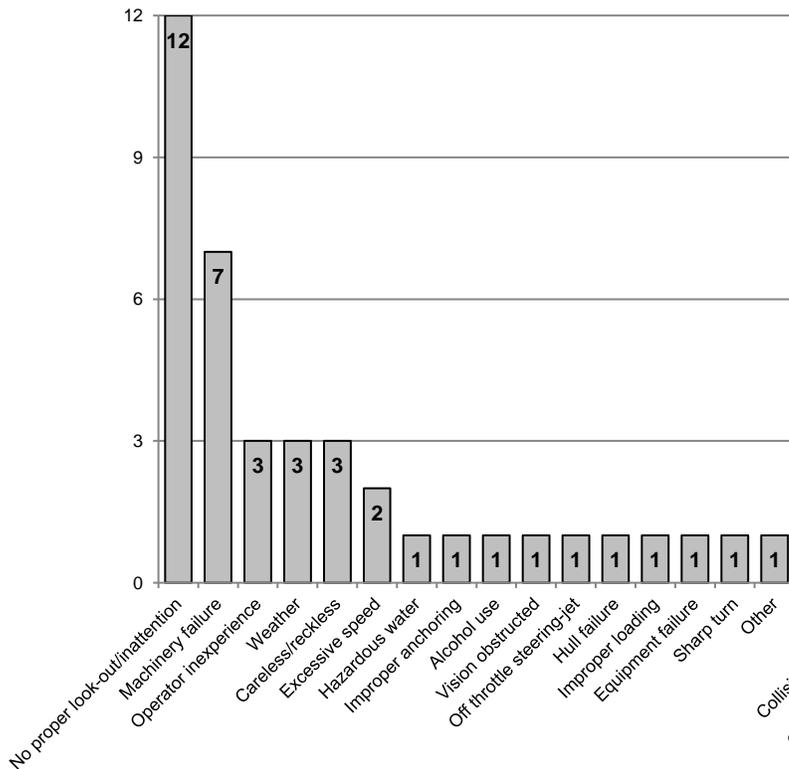
TYPE OF VESSEL



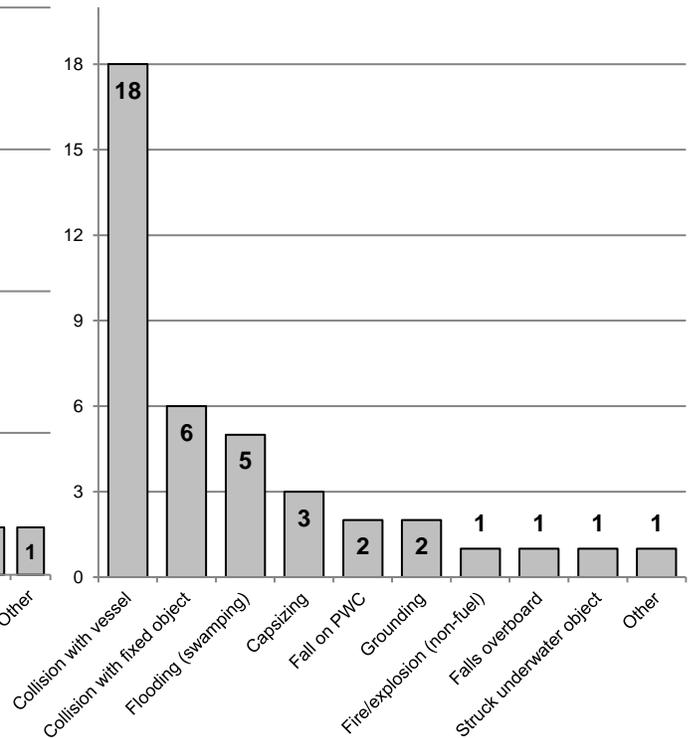
VESSEL LENGTH (IN FEET)

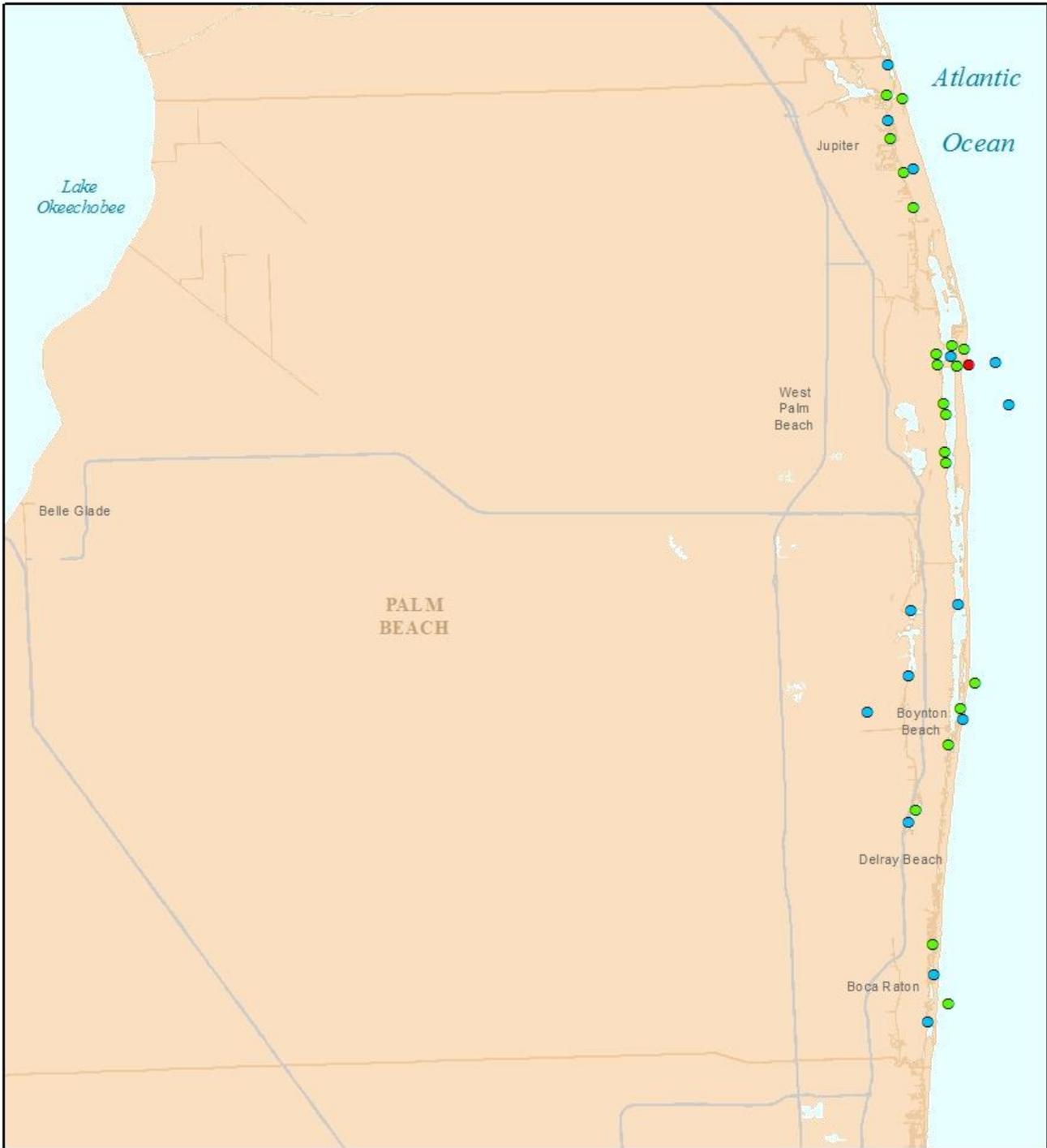


PRIMARY CAUSE OF ACCIDENT



PRIMARY TYPE OF ACCIDENT





Known Locations of Accidents in Palm Beach County during 2018

Legend

- Fatal Accident (1)
- Accident with Injury (14)
- Accident without Injury (21)

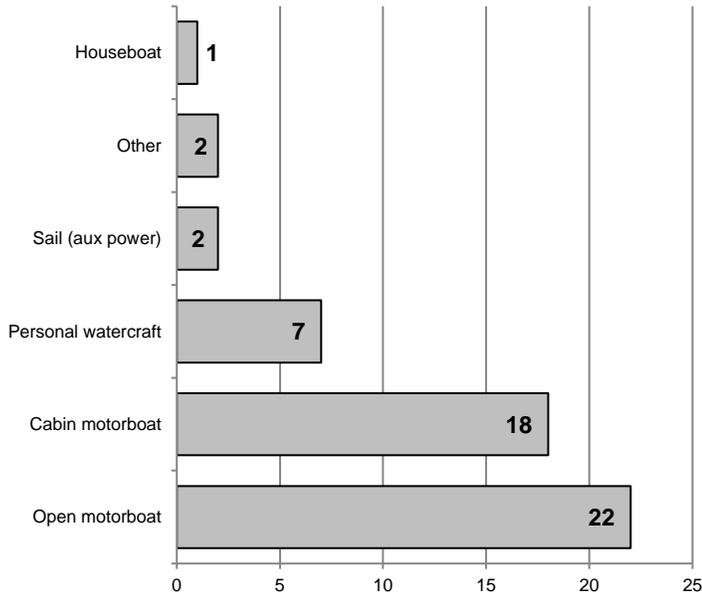


Map document
created by
FWC DLE GIS

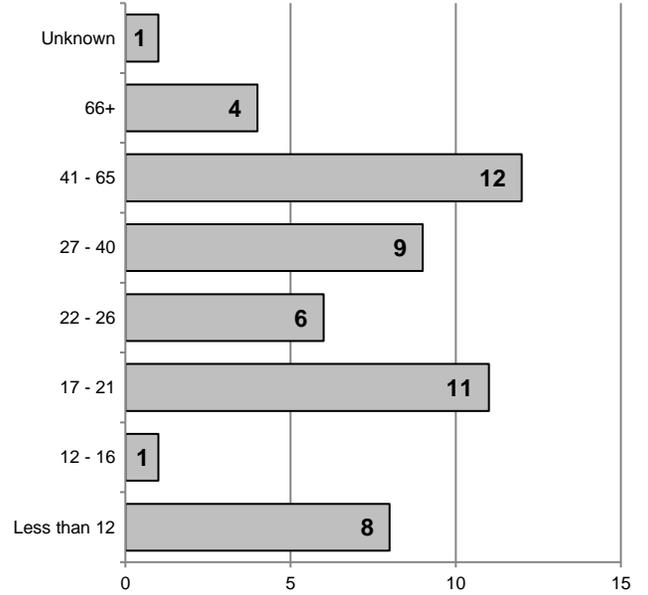


4. PALM BEACH COUNTY

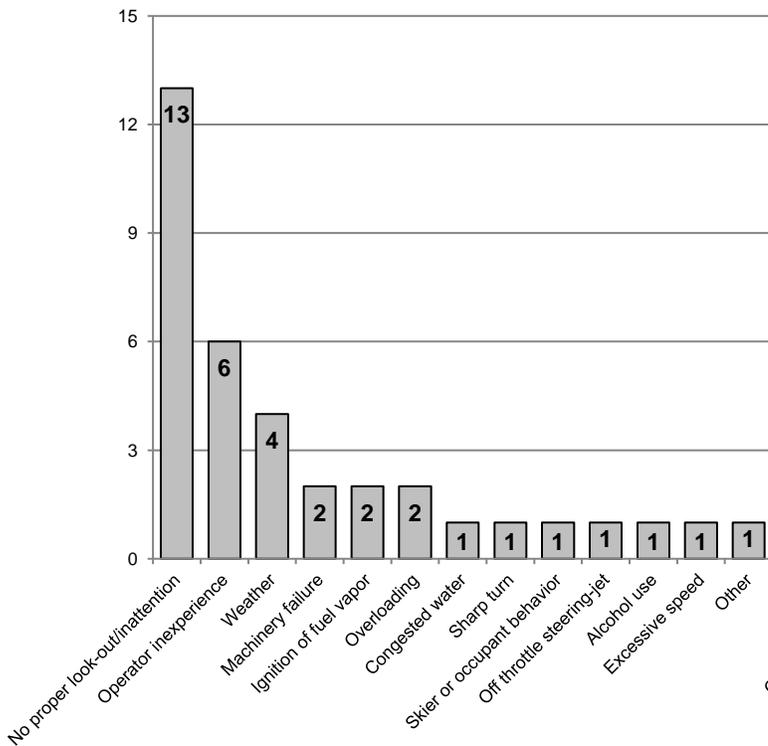
TYPE OF VESSEL



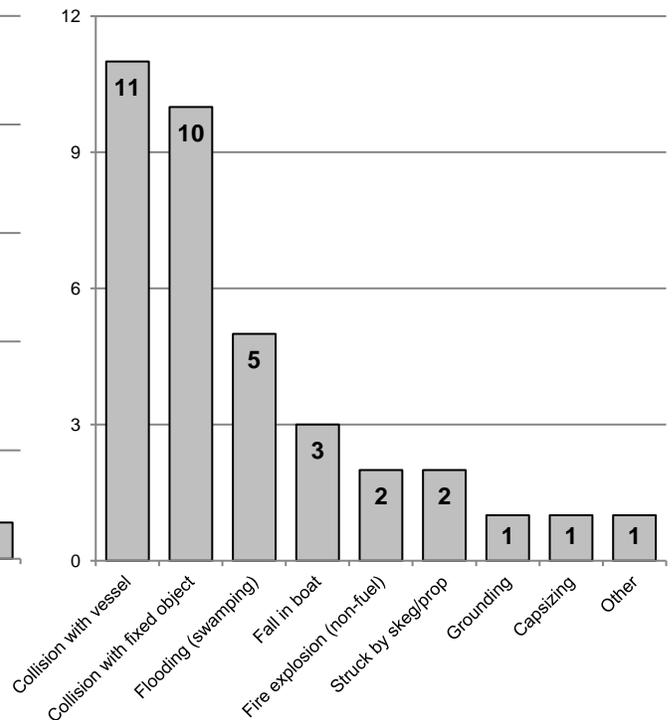
VESSEL LENGTH (IN FEET)

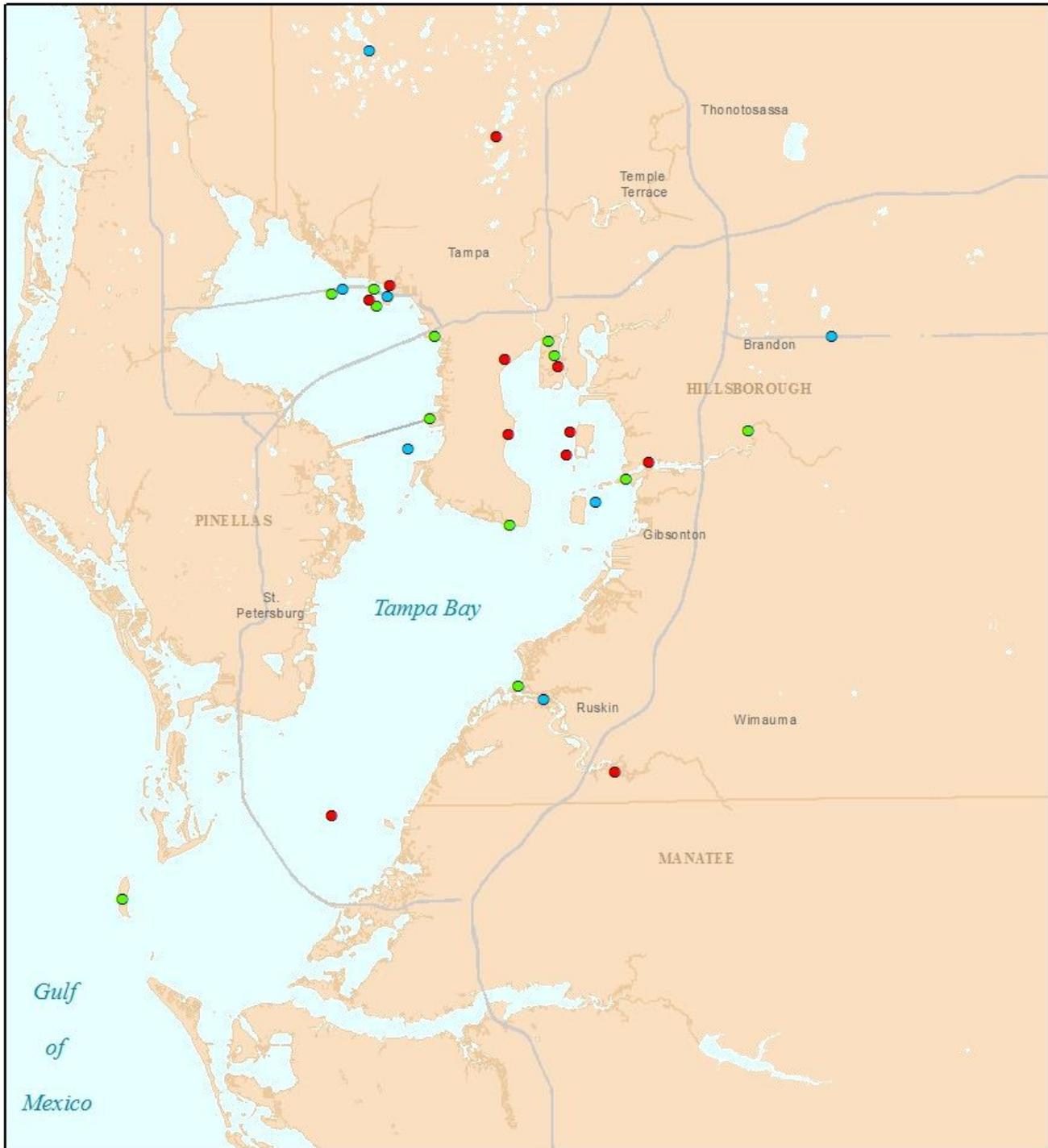


PRIMARY CAUSE OF ACCIDENT



PRIMARY TYPE OF ACCIDENT





Known Locations of Accidents in Hillsborough County during 2018

Legend

- Fatal Accident (11)
- Accident with Injury (7)
- Accident without Injury (14)

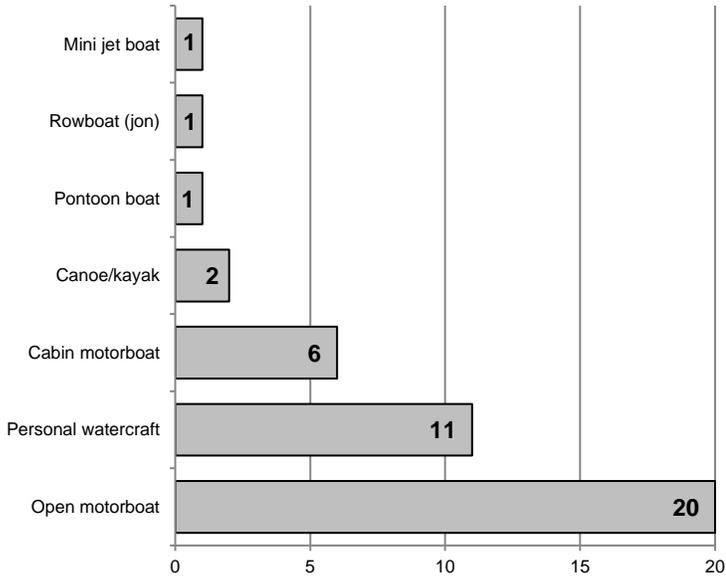


Map document
created by
FWC DLE GIS

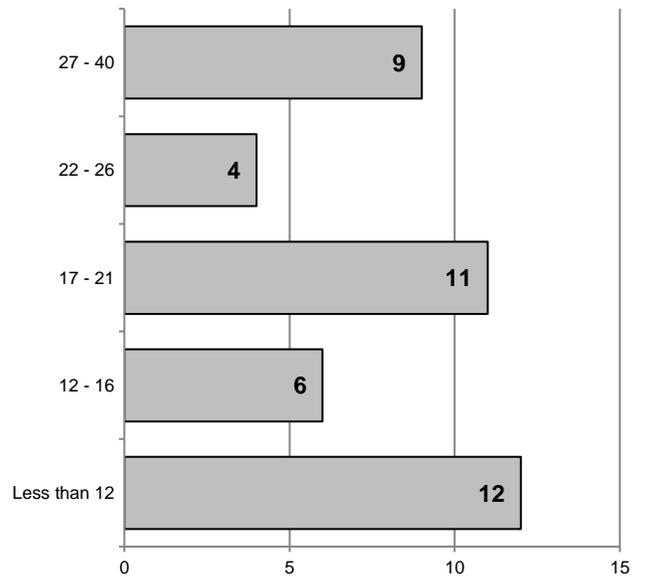


5. HILLSBOROUGH COUNTY

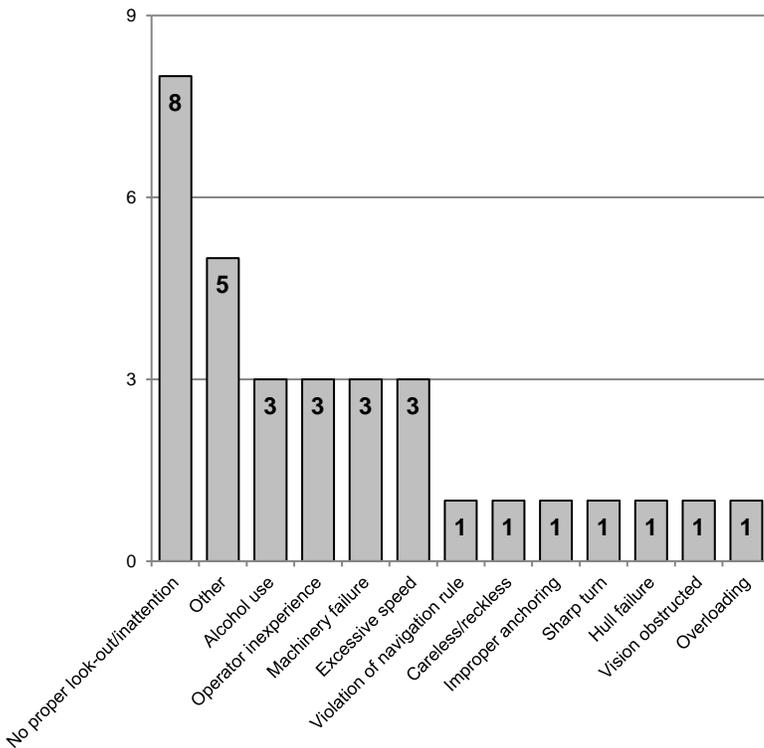
TYPE OF VESSEL



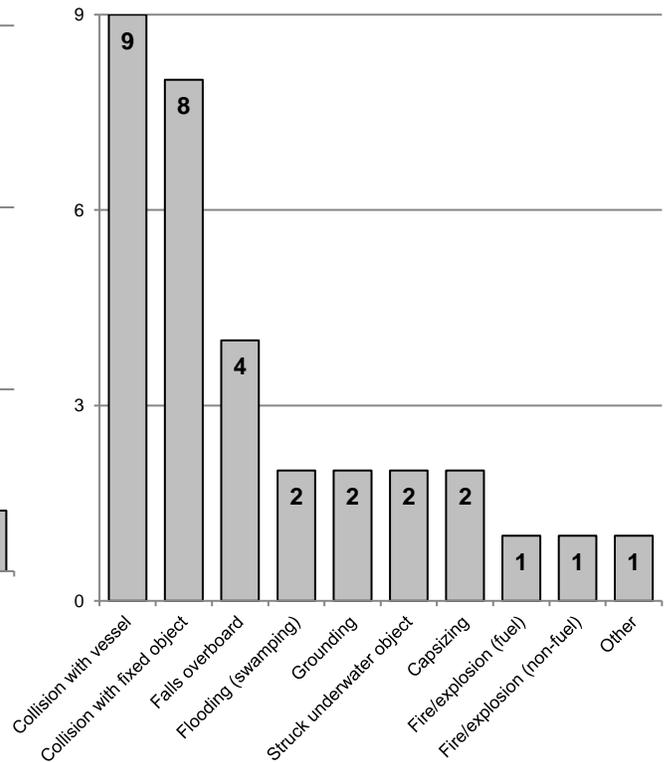
VESSEL LENGTH (IN FEET)



PRIMARY CAUSE OF ACCIDENT



PRIMARY TYPE OF ACCIDENT

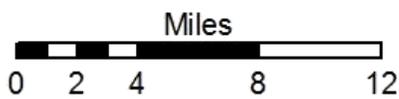




Known Locations of Accidents in Lee County during 2018

Legend

- Fatal Accident (1)
- Accident with Injury (8)
- Accident without Injury (23)

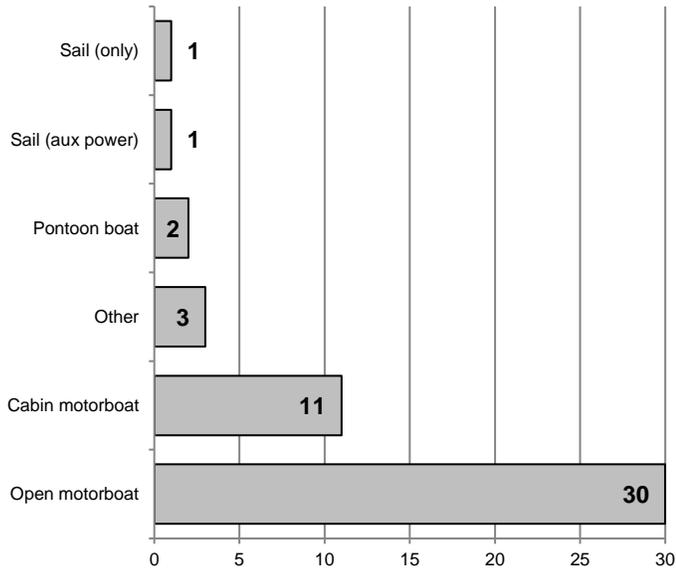


Map document
created by
FWC DLE GIS

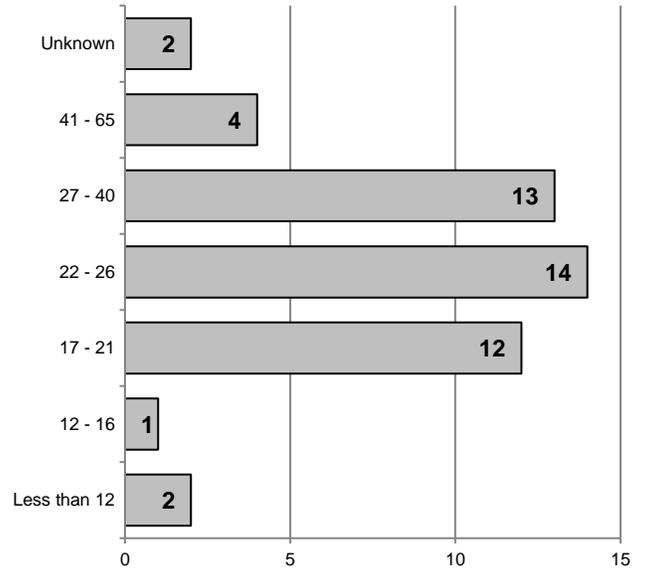


6. LEE COUNTY

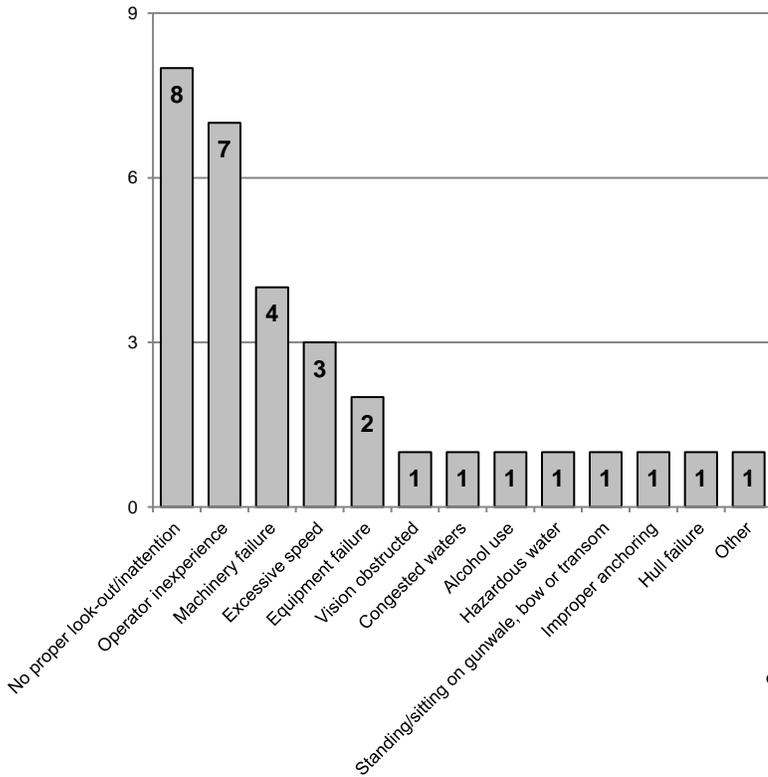
TYPE OF VESSEL



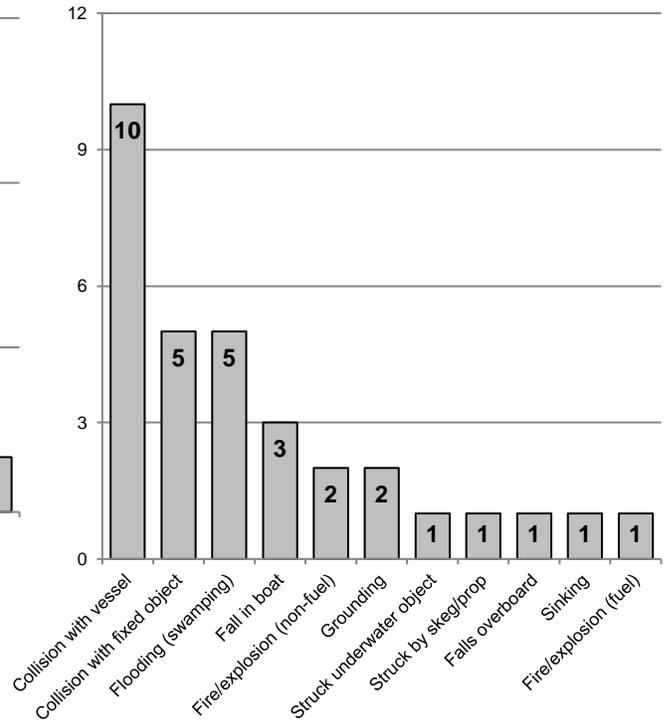
VESSEL LENGTH (IN FEET)



PRIMARY CAUSE OF ACCIDENT



PRIMARY TYPE OF ACCIDENT

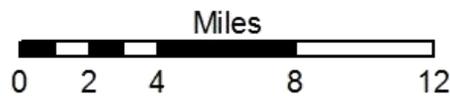




Known Locations of Accidents in Broward County during 2018

Legend

- Fatal Accident (2)
- Accident with Injury (6)
- Accident without Injury (18)

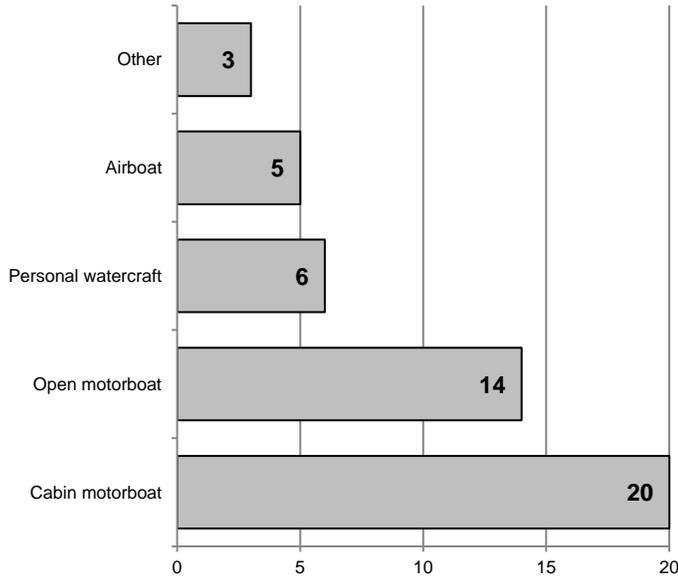


Map document
created by
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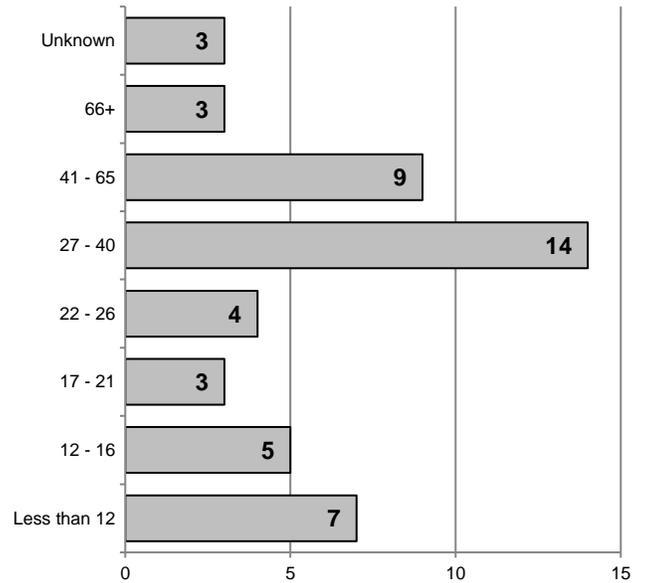


7. BROWARD COUNTY

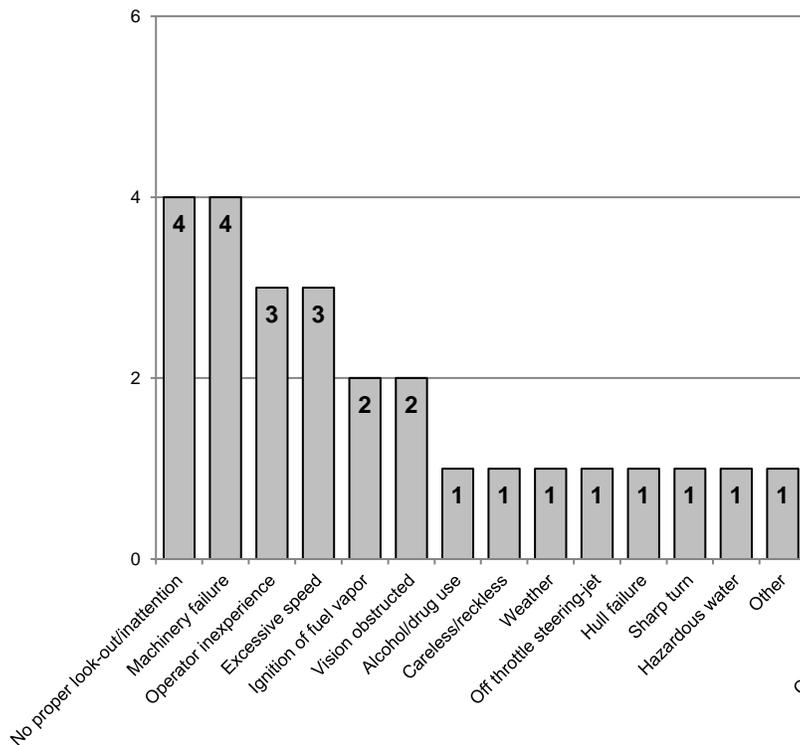
TYPE OF VESSEL



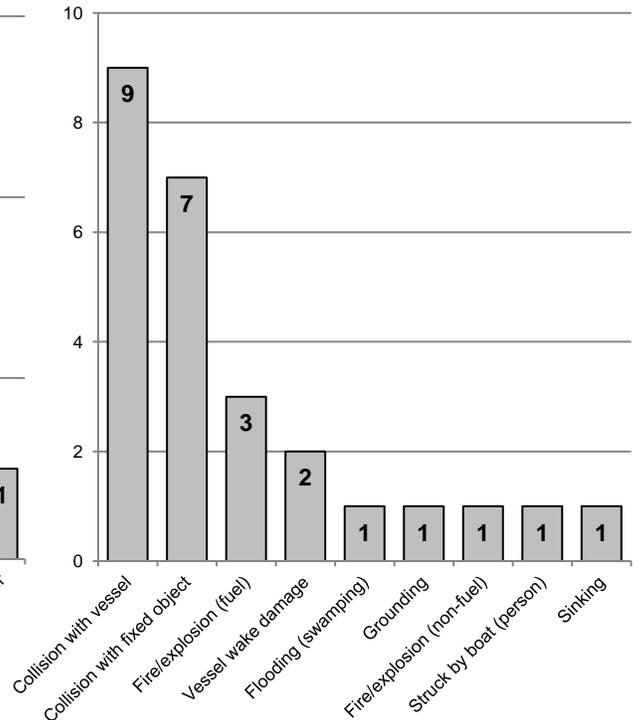
VESSEL LENGTH (IN FEET)



PRIMARY CAUSE OF ACCIDENT



PRIMARY TYPE OF ACCIDENT

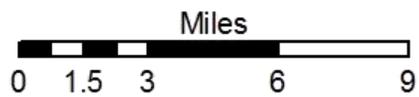




Known Locations of Accidents in Sarasota County during 2018

Legend

- Fatal Accident (5)
- Accident with Injury (7)
- Accident without Injury (12)

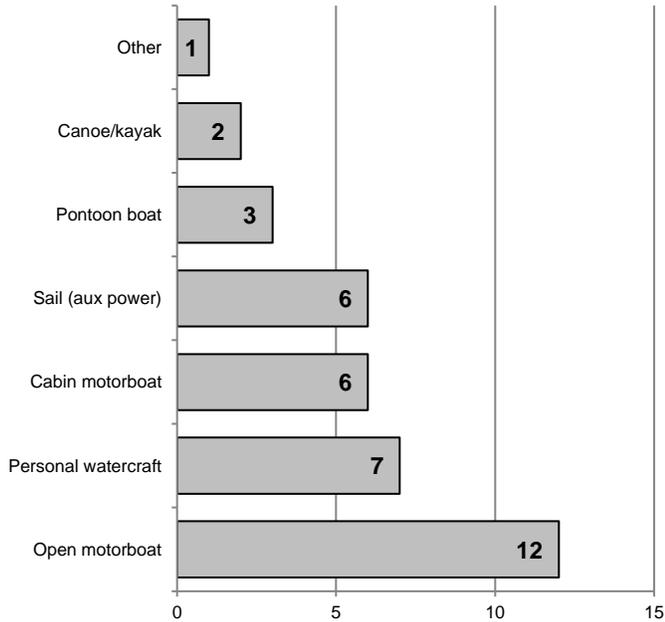


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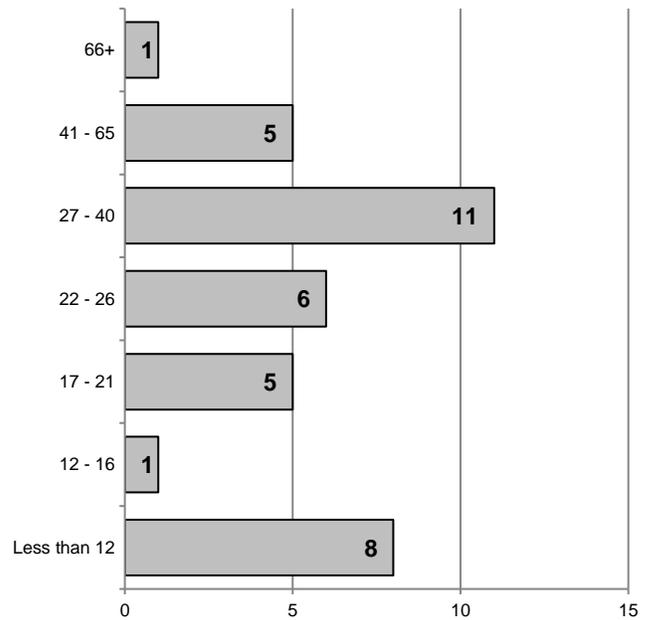


8. SARASOTA COUNTY

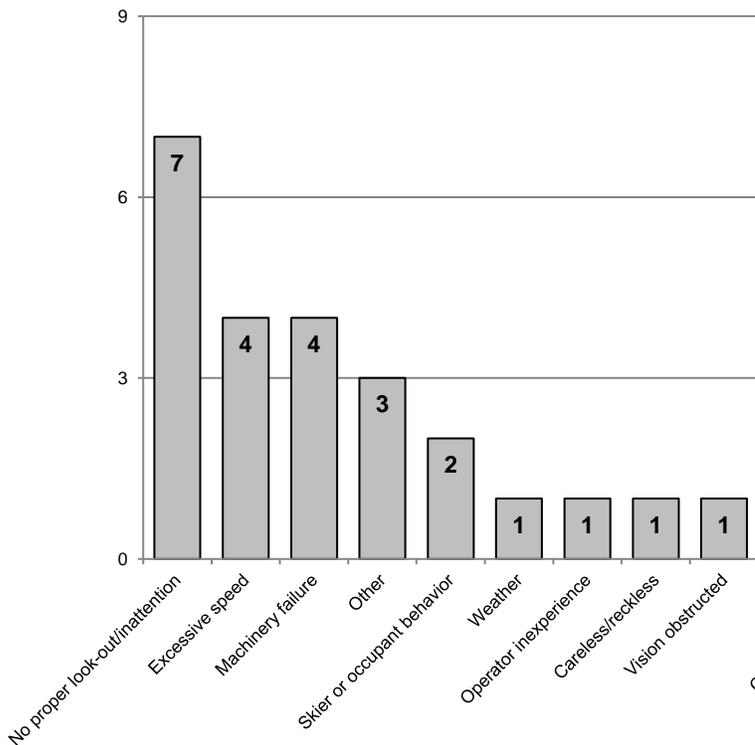
TYPE OF VESSEL



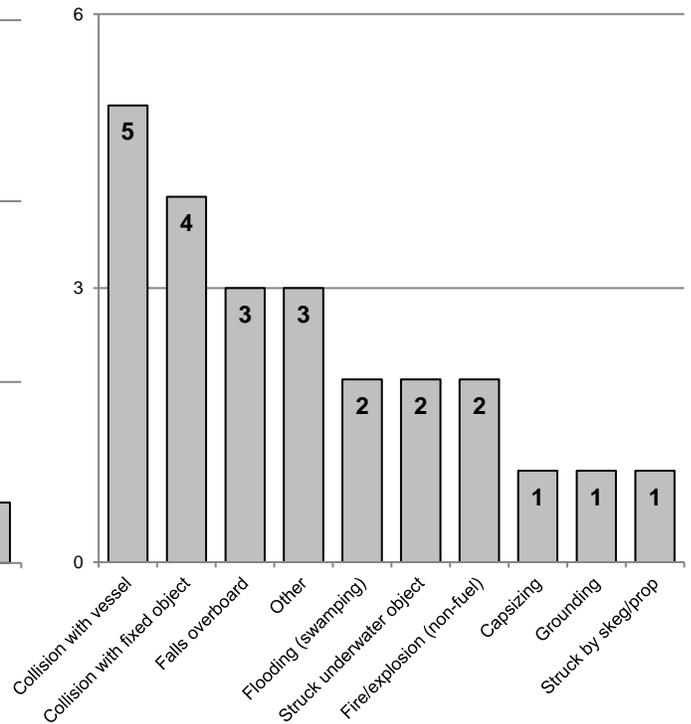
VESSEL LENGTH (IN FEET)

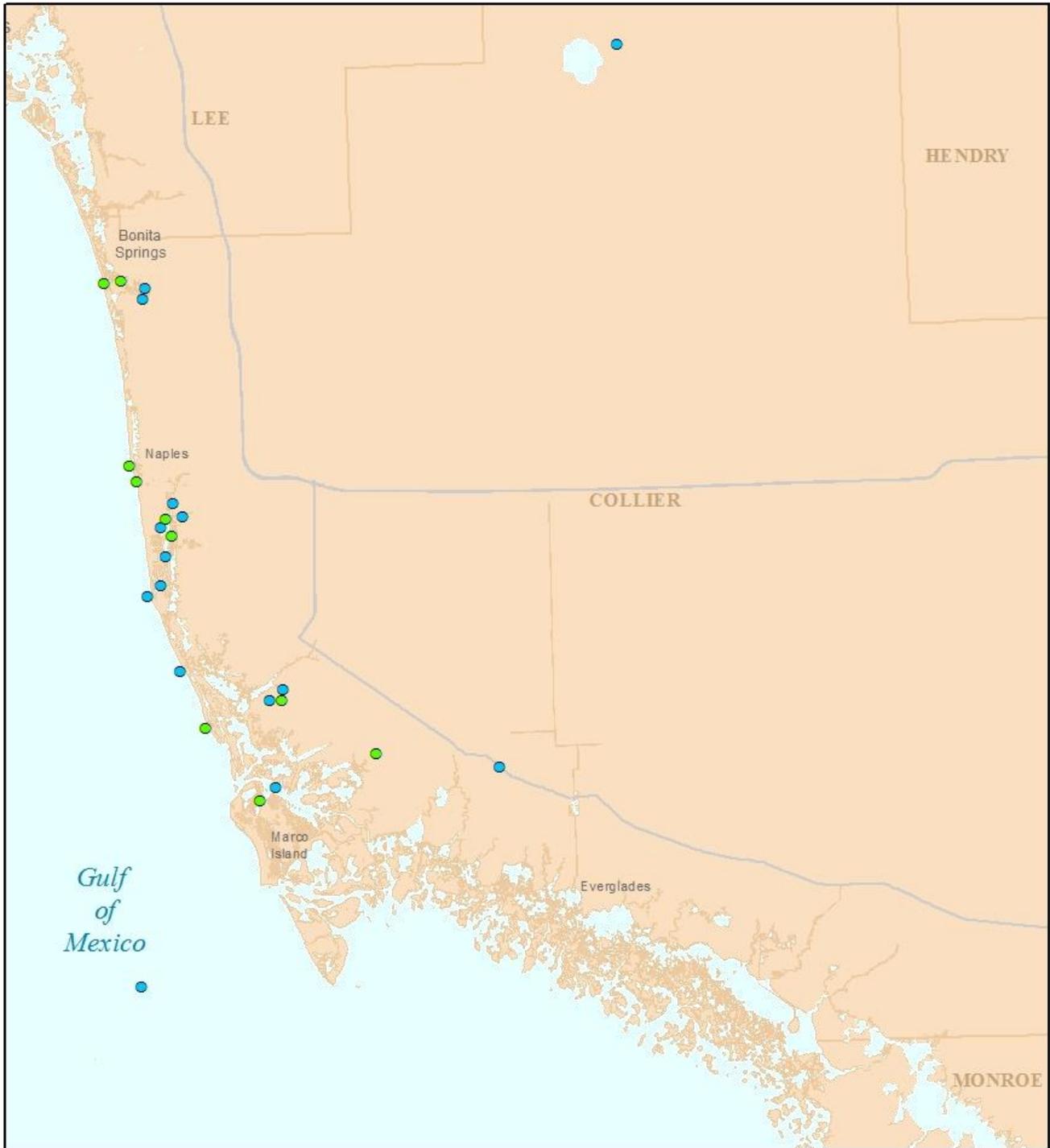


PRIMARY CAUSE OF ACCIDENT



PRIMARY TYPE OF ACCIDENT

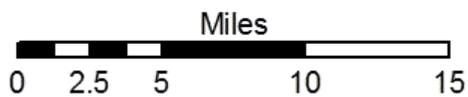




Known Locations of Accidents in Collier County during 2018

Legend

- Fatal Accident (0)
- Accident with Injury (15)
- Accident without Injury (9)

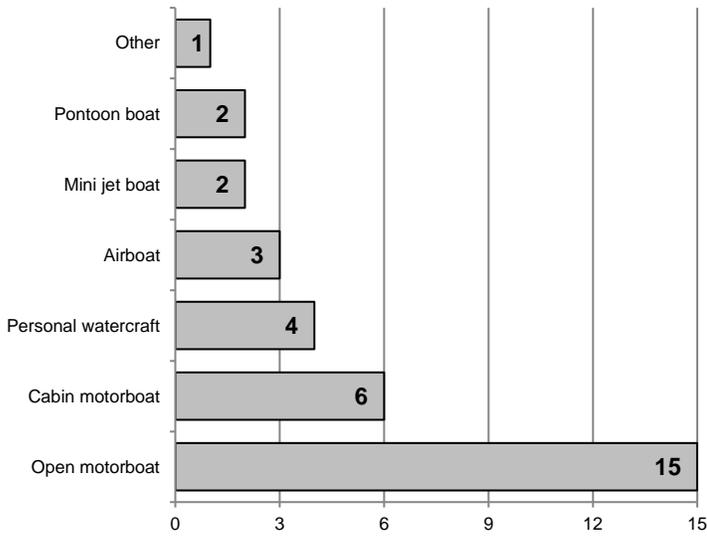


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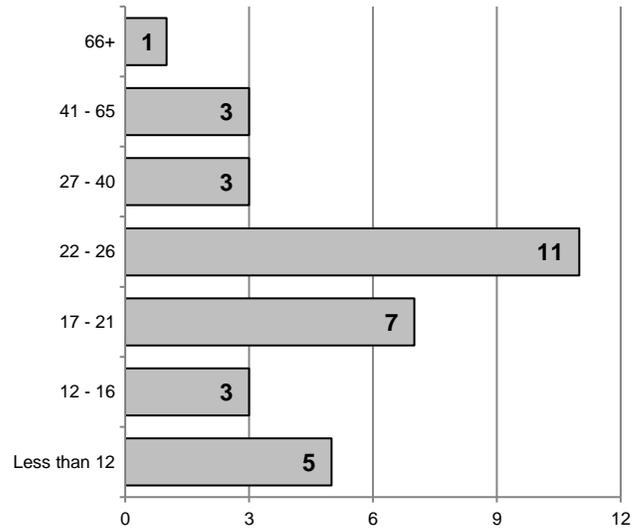


9. COLLIER COUNTY

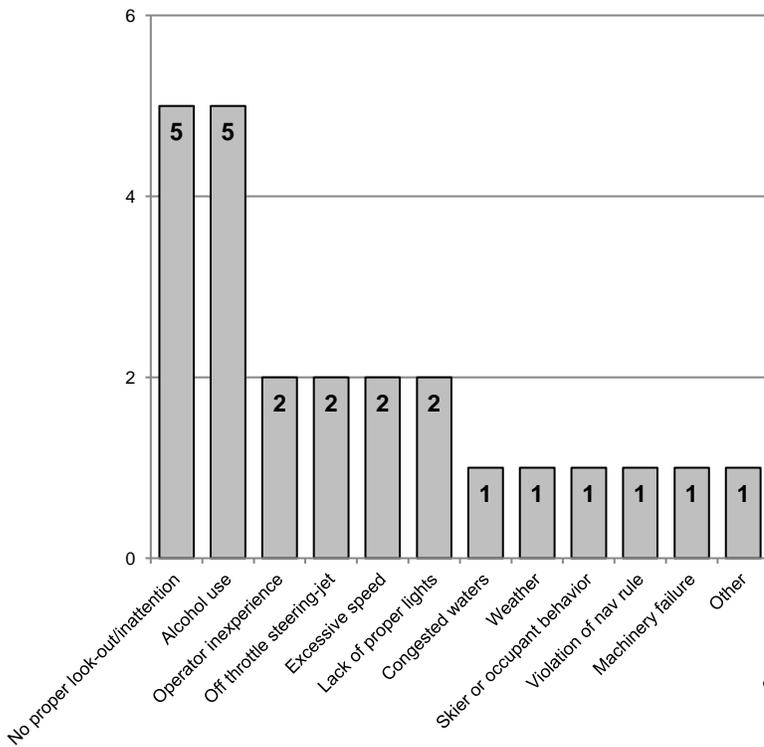
TYPE OF VESSEL



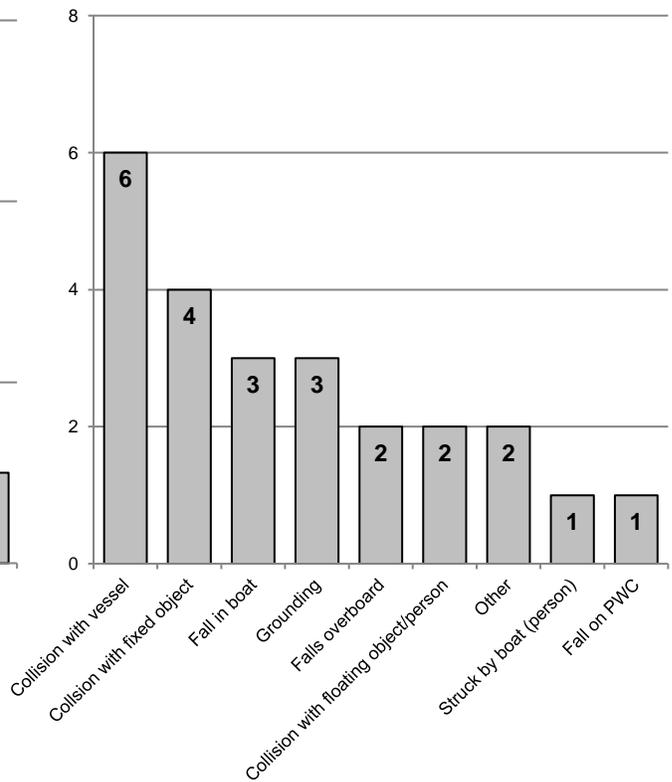
VESSEL LENGTH (IN FEET)

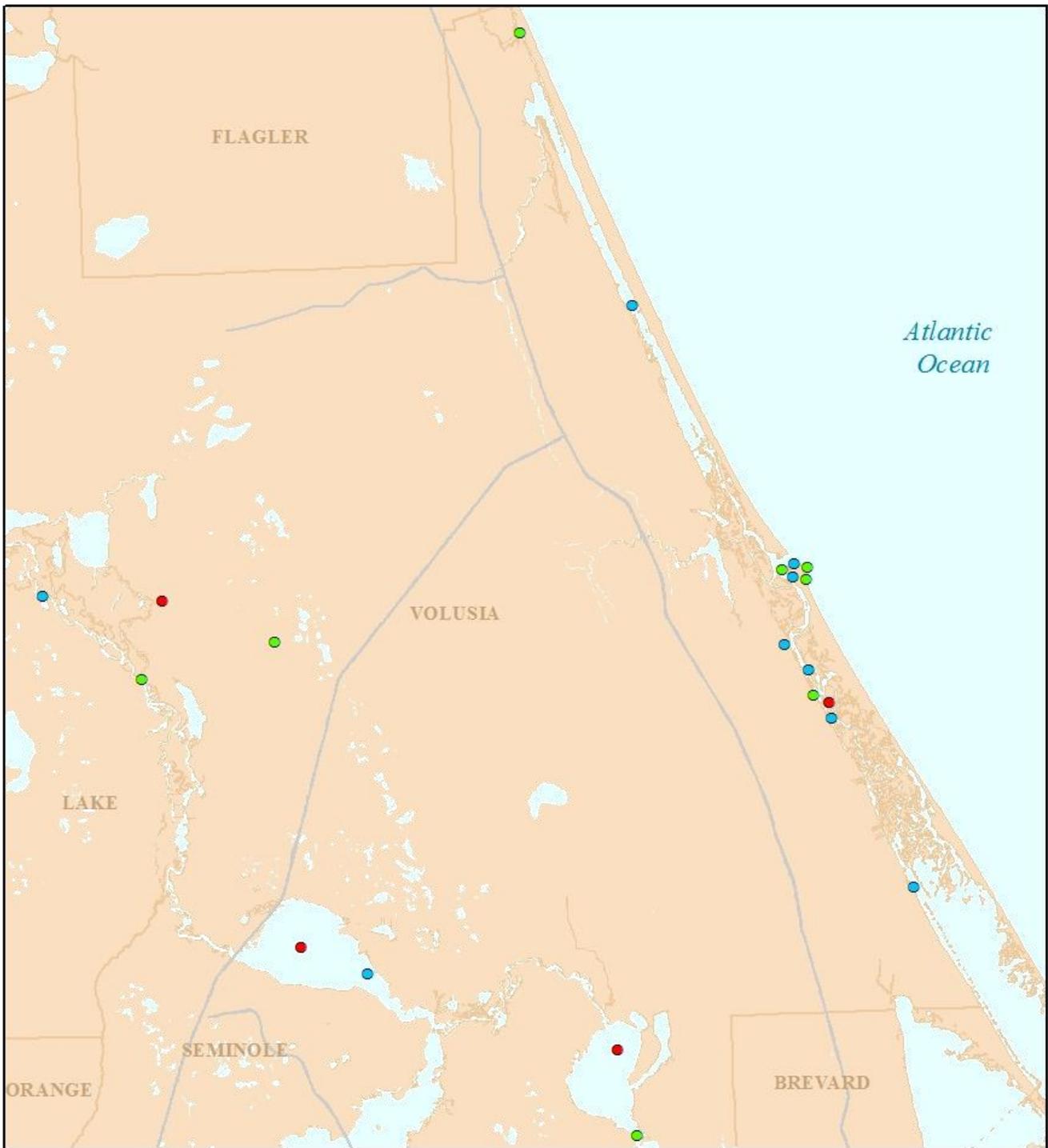


PRIMARY CAUSE OF ACCIDENT



PRIMARY TYPE OF ACCIDENT

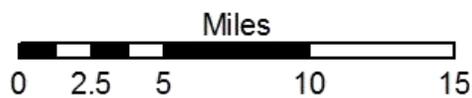




Known Locations of Accidents in Volusia County during 2018

Legend

- Fatal Accident (4)
- Accident with Injury (9)
- Accident without Injury (8)

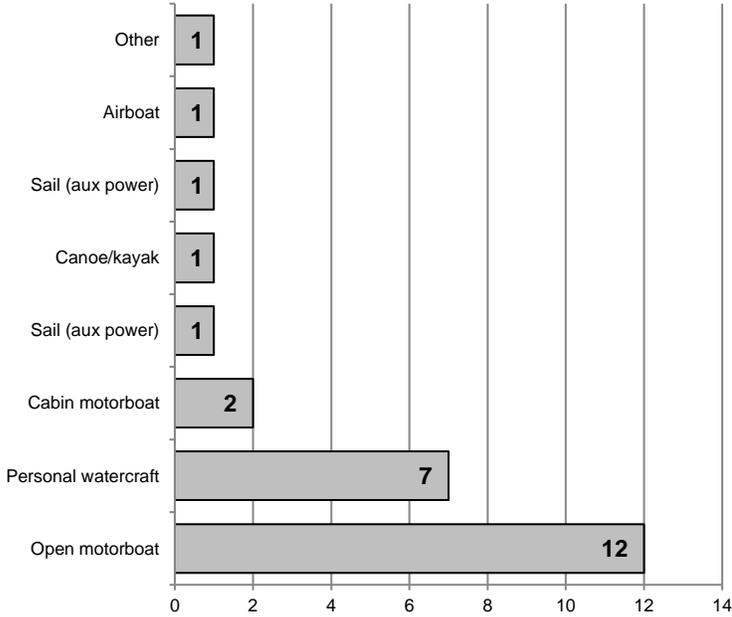


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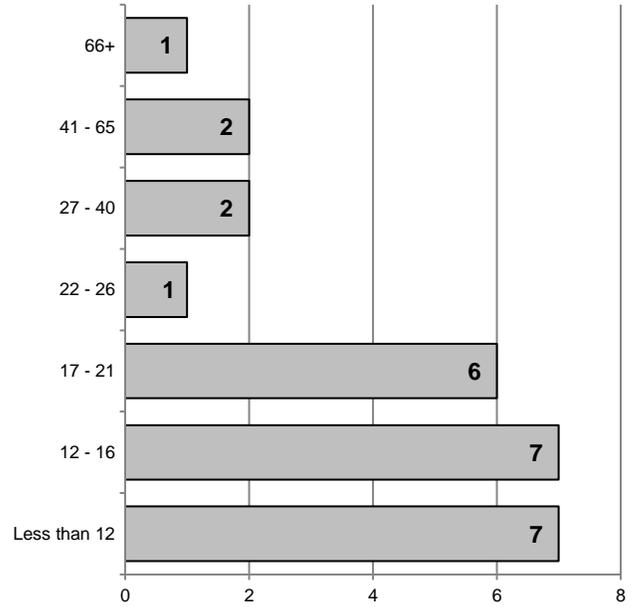


10. VOLUSIA COUNTY

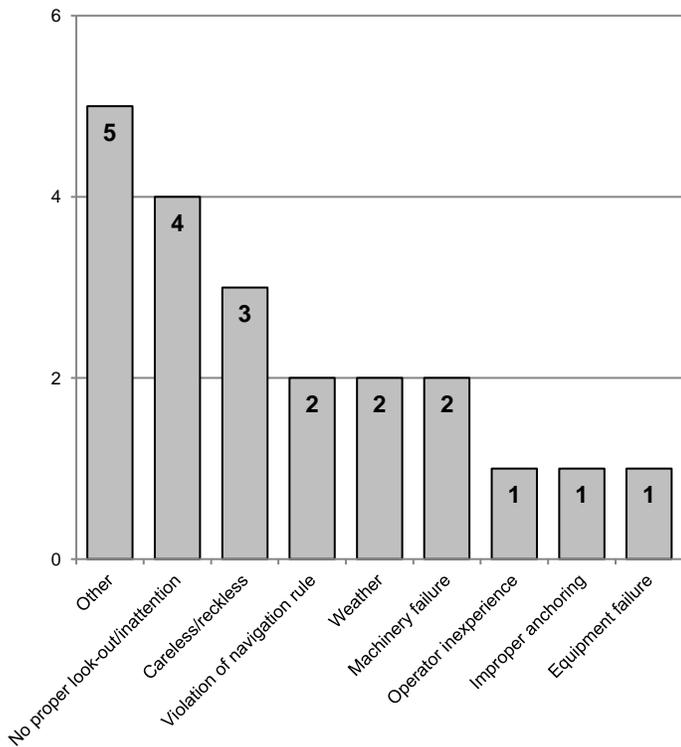
TYPE OF VESSEL



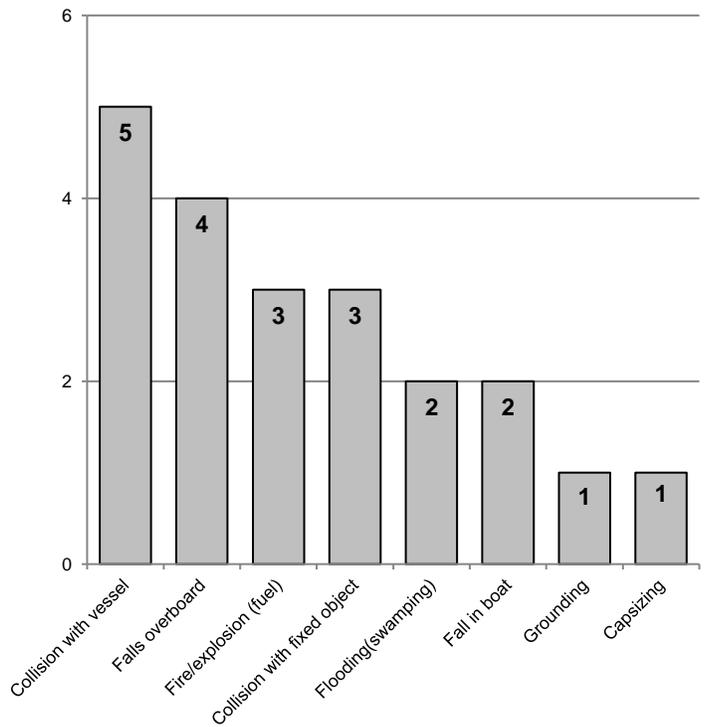
VESSEL LENGTH (IN FEET)



PRIMARY CAUSE OF ACCIDENT



PRIMARY TYPE OF ACCIDENT



Trend Analysis



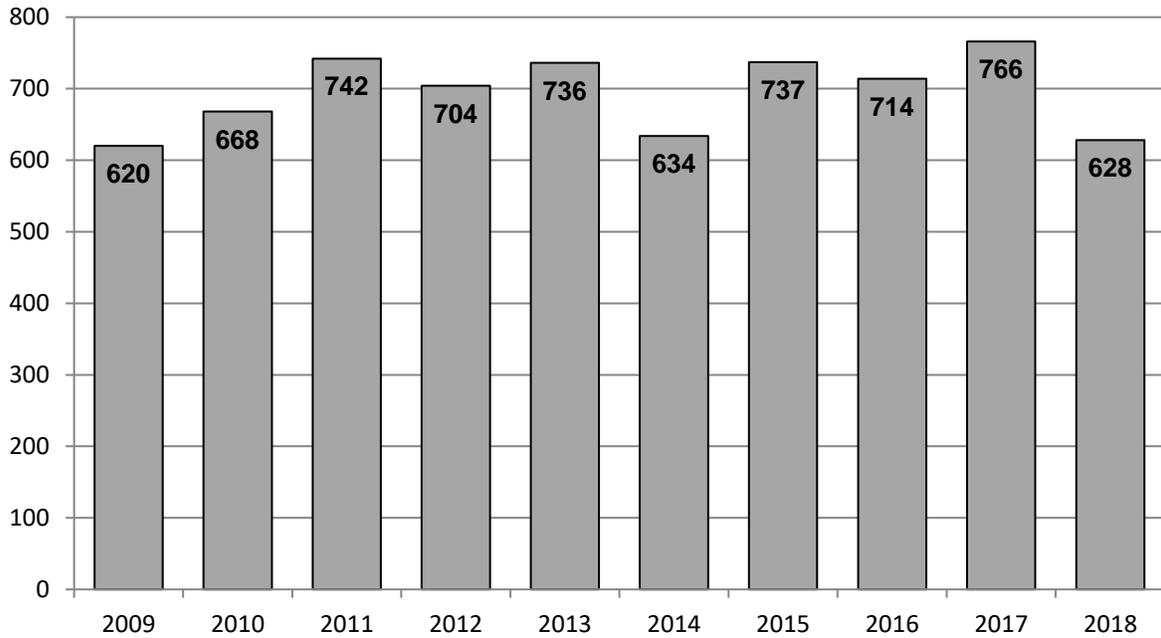
Trend Analysis photo detail

Cover Photos: (Courtesy of FWC)

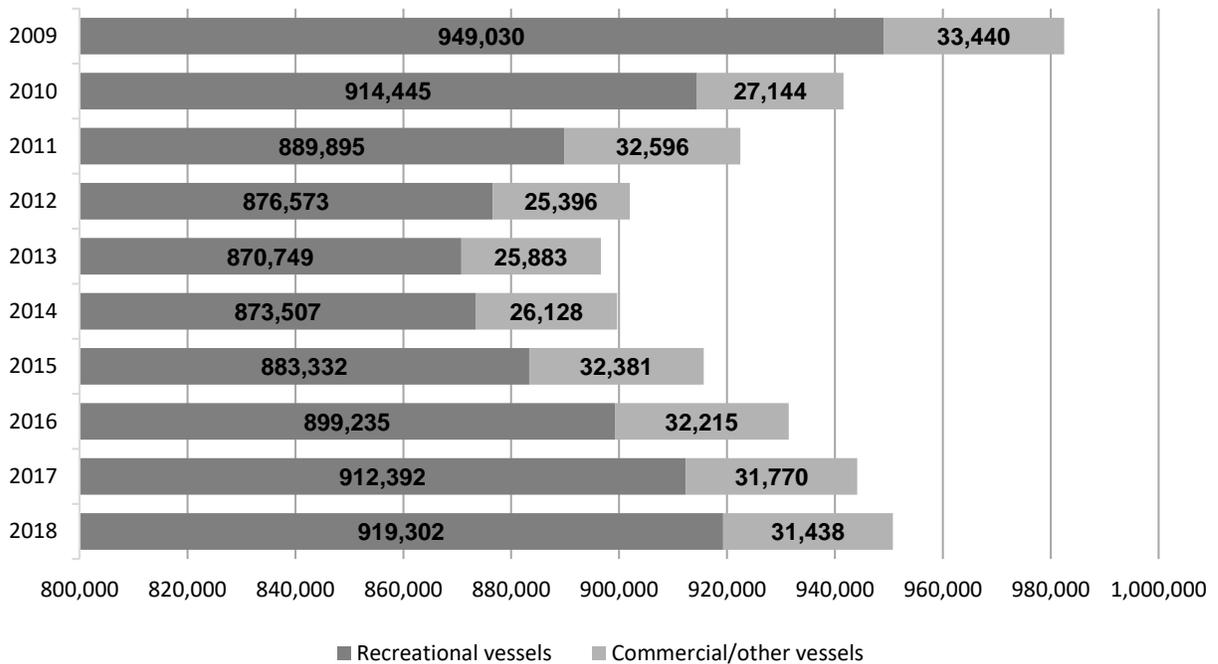
Photos of boating accidents in Collier and Monroe Counties.

2018 TREND ANALYSIS

REPORTABLE ACCIDENTS 2009-2018

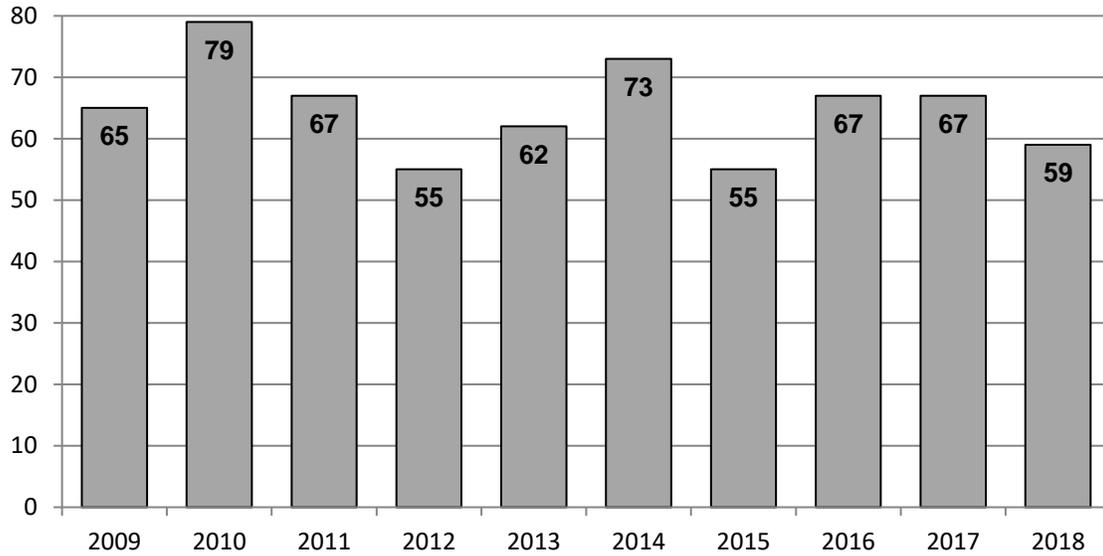


VESSEL REGISTRATION 2009-2018



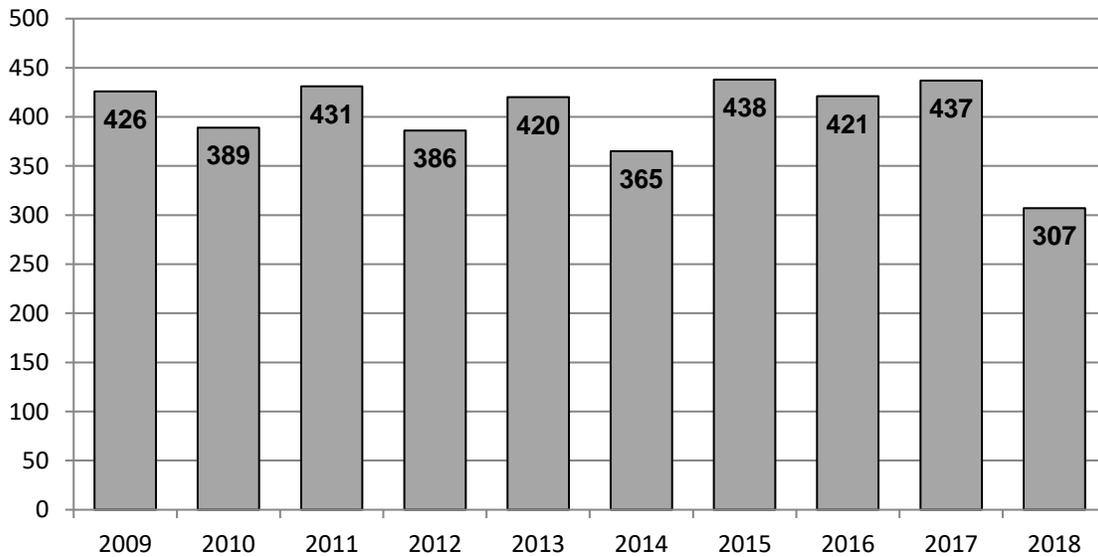
2018 TREND ANALYSIS

FATALITIES 2009-2018



*Average number of fatalities per year: 65

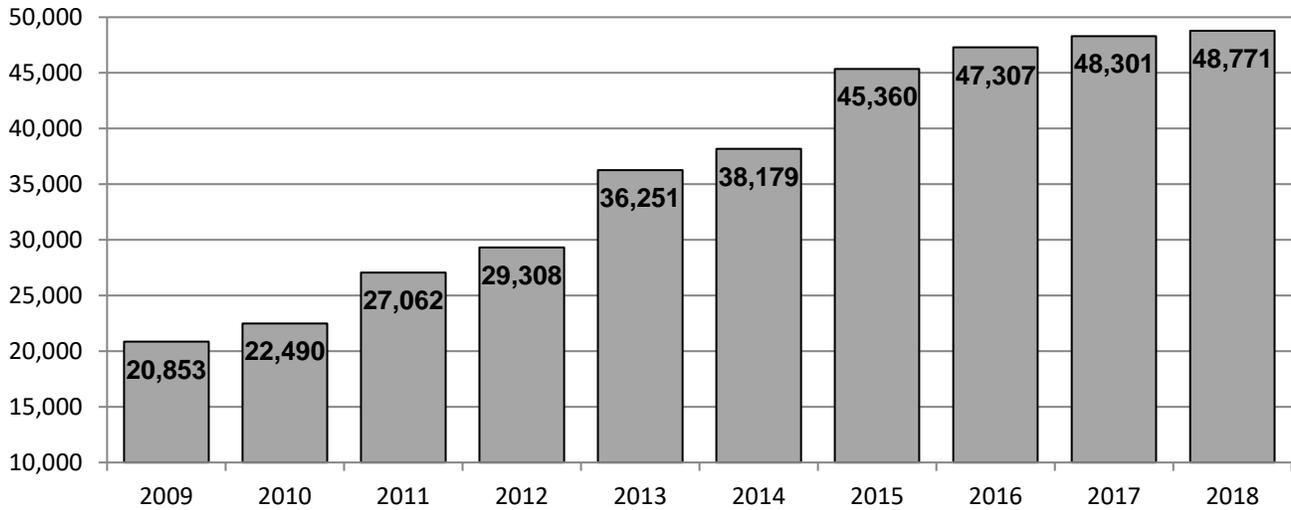
INJURIES 2009-2018



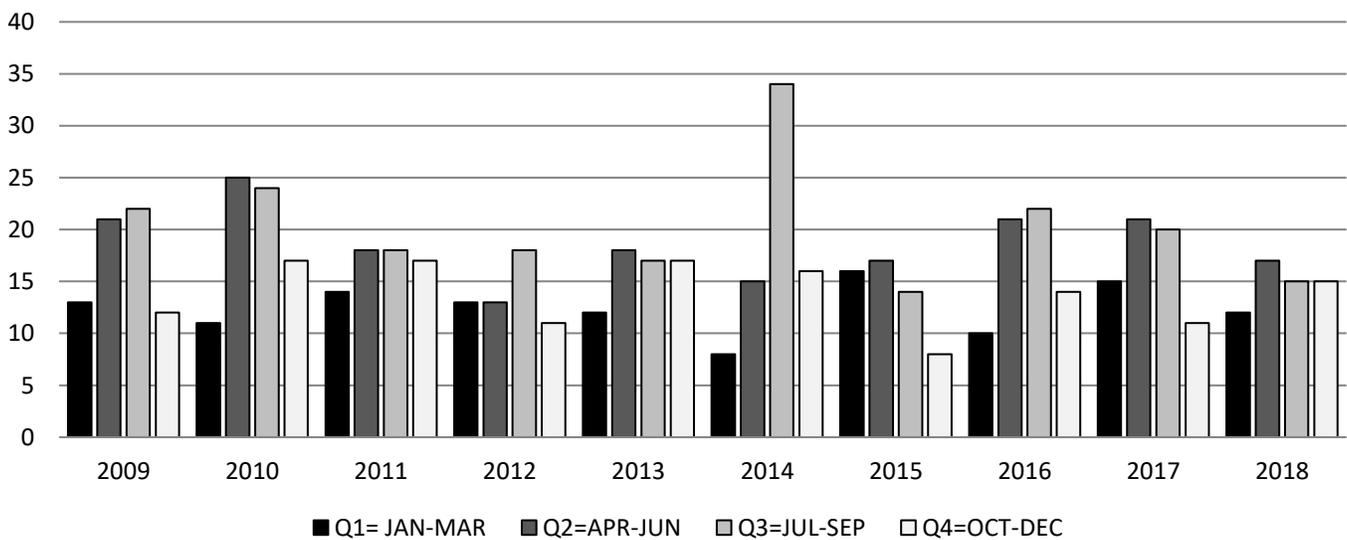
*Average number of injuries per year: 402

2018 TREND ANALYSIS

BOATING SAFETY EDUCATION I.D. CARDS ISSUED 2009-2018

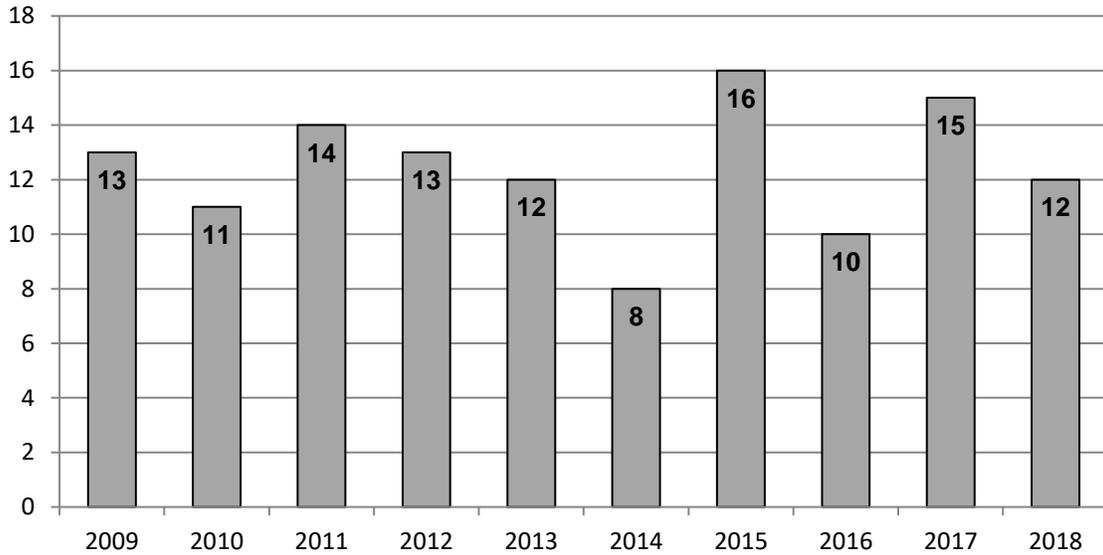


FATALITIES BY QUARTER 2009-2018



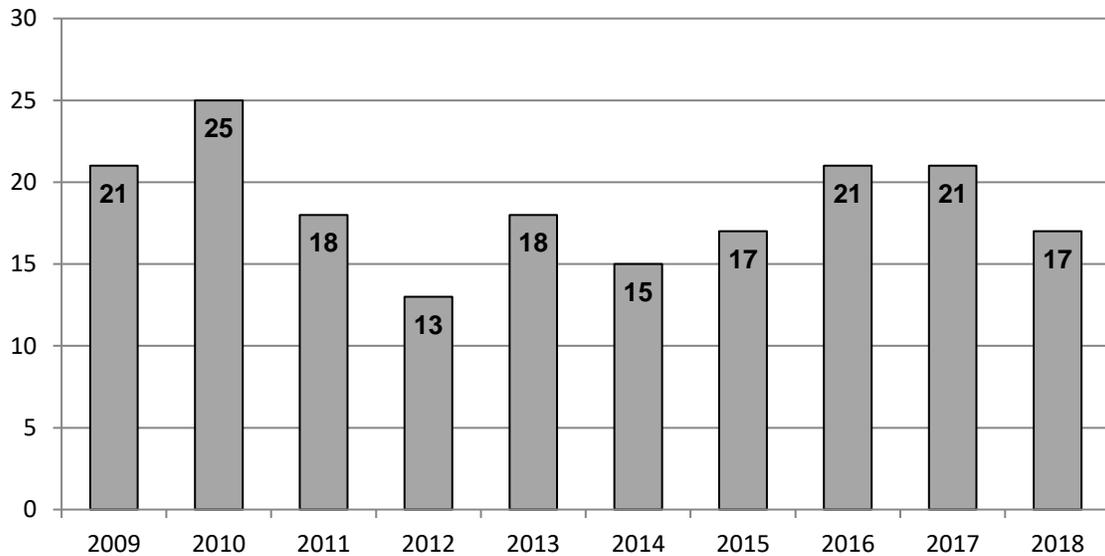
2018 TREND ANALYSIS

QUARTER 1 FATALITIES



*Q1 = JAN - MAR

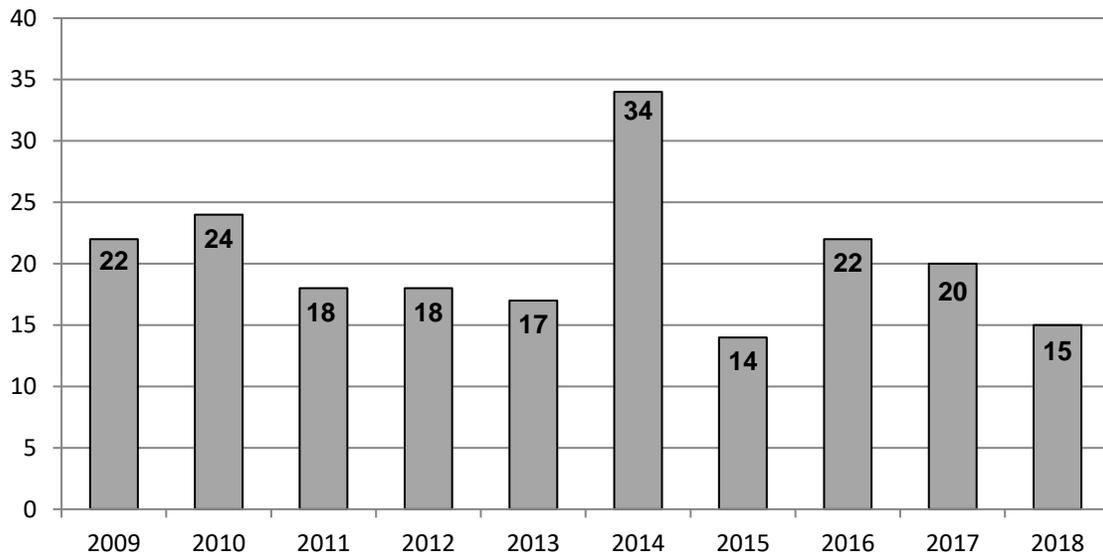
QUARTER 2 FATALITIES



*Q2 = APR - JUN

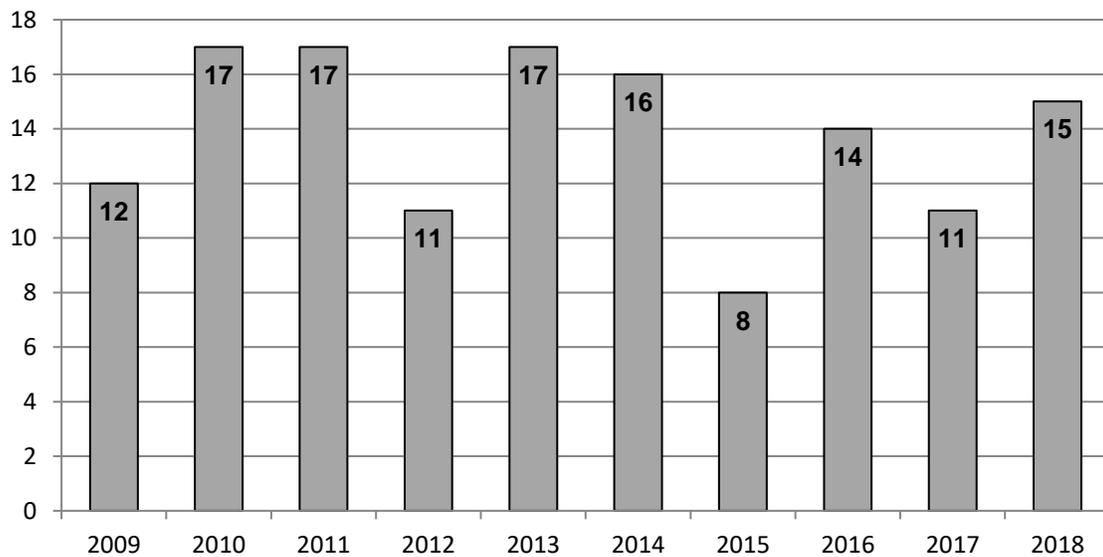
2018 TREND ANALYSIS

QUARTER 3 FATALITIES



*Q3 = JUL - SEP

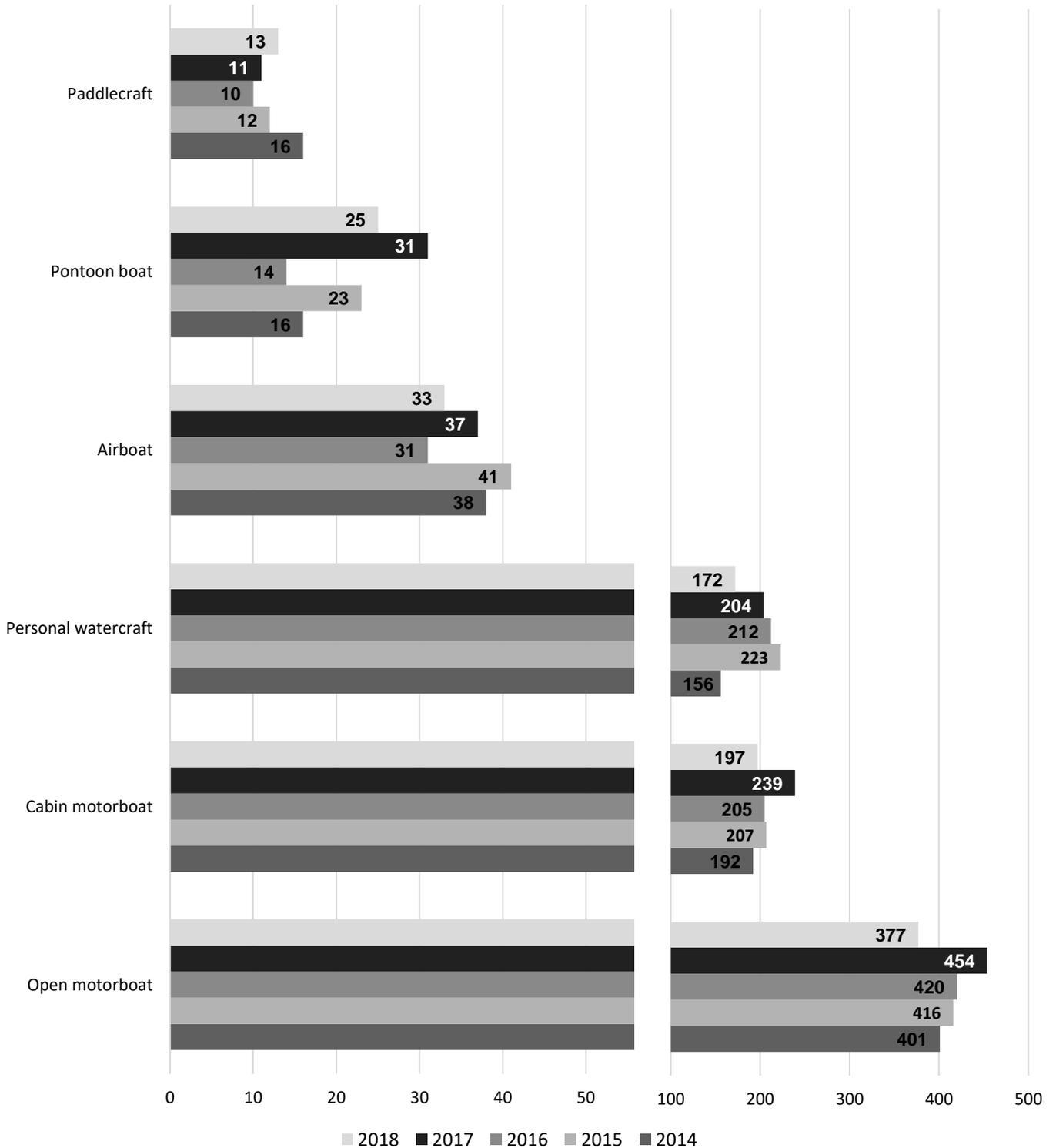
QUARTER 4 FATALITIES



*Q4 = OCT - DEC

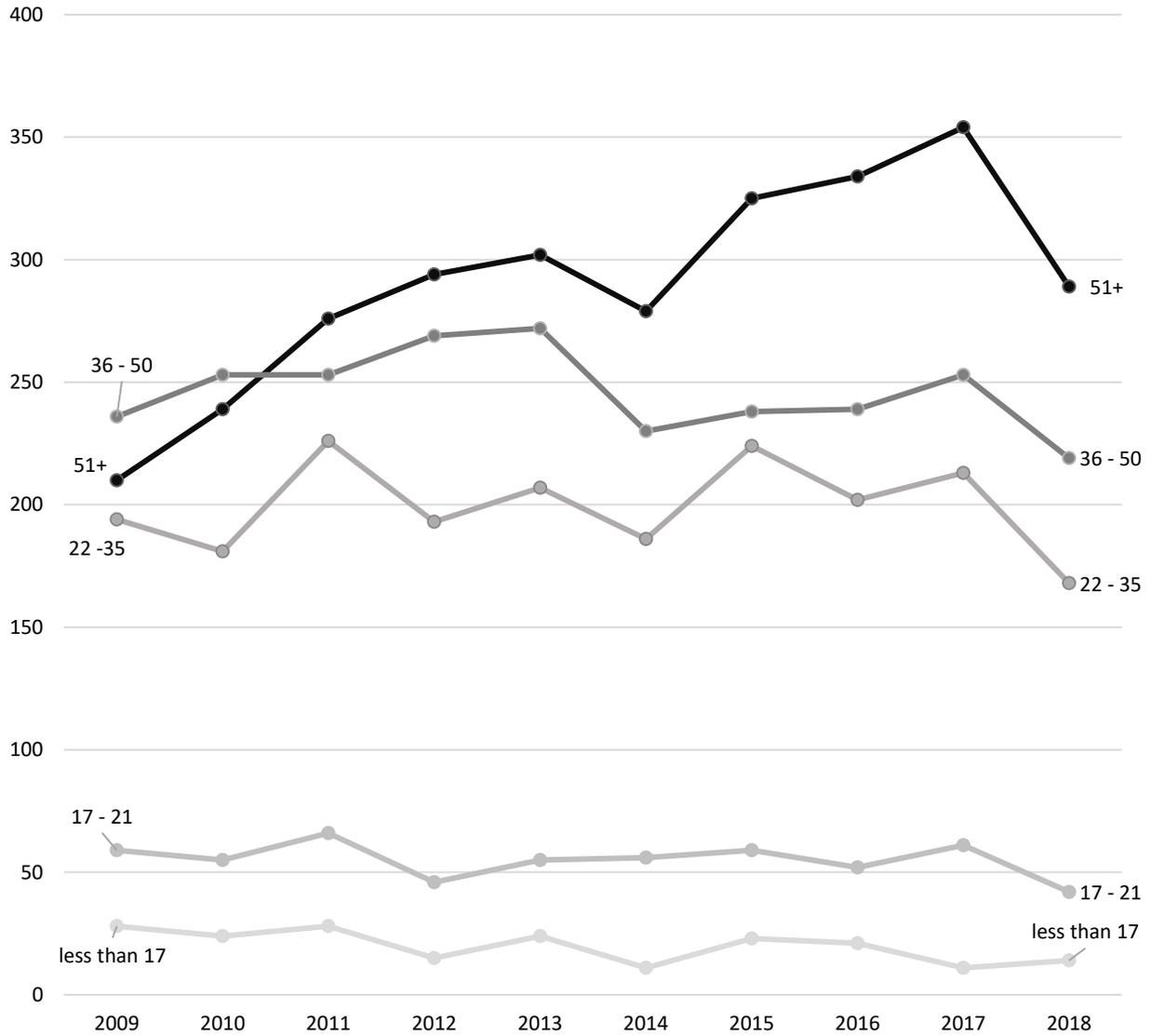
2018 TREND ANALYSIS

VESSEL TYPES 2014 - 2018



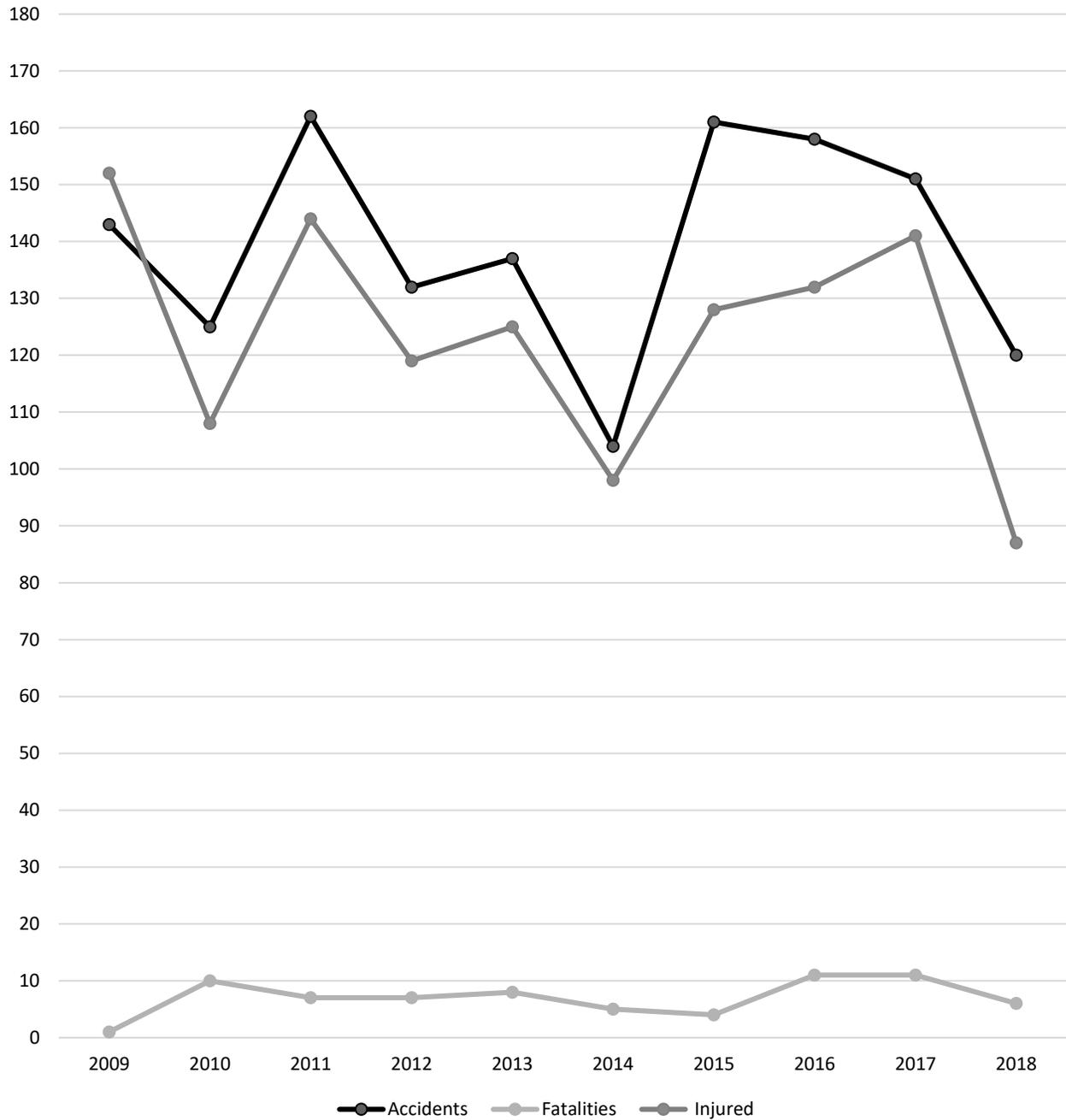
2018 TREND ANALYSIS

OPERATOR BY AGE 2009-2018



2018 TREND ANALYSIS

PWC ACCIDENTS, FATALITIES, INJURED 2009-2018



Glossary



Glossary photo detail

Cover Photos: (Courtesy of FWC)

Top Picture

A 46-year-old operator, with no boating experience, attempted to travel under the Seven Mile Bridge. The operator lost control of the vessel in the tidal current, abruptly accelerated and the vessel collided with the bridge scaffolding. The vessel capsized after impact. The operator was not significantly injured.

Bottom Picture

A PWC attempted to jump the wake of a large fishing vessel on Choctawhatchee Bay in Okaloosa County. Upon the PWC ramping the wake, the operator and occupant were seperated from the PWC. The operator and occupant landed on the back on top of the PWC. The occupant was injured when caught between the PWC and the body of the operator.

GLOSSARY OF DEFINITIONS

ALCOHOL/DRUG RELATED – Refers to any accidents in which alcohol/drug use may have been a contributing factor, whether or not legally impaired.

AT ANCHOR – Held in place in the water by an anchor, includes “moored” to a buoy or anchored vessel and “dragging anchor.”

BOATING ACCIDENT - A collision, accident, or casualty involving a vessel, in or upon, or entering into or exiting from the water, includes capsizing, collision with another vessel or object, sinking, personal injury, death or disappearance of any person from onboard under circumstances which indicate the possibility of death or injury or property damage to any vessel or dock.

CABIN MOTORBOAT - Motorboats with a cabin which can be completely closed by means of doors or hatches. Large motorboats with cabins, even though referred to as yachts, are considered to be cabin motorboats.

CAPSIZING - Overturning of a vessel.

CARELESS OPERATION – Operation of a vessel in a manner that is not reasonable and prudent, having no regard for other waterborne traffic, posted speed and wake restrictions, and all other attendant circumstances so as not to endanger the life, limb, or property of any person.

COLLISION WITH ANOTHER VESSEL - Any striking together of two or more vessels, regardless of operation at time of the accident, is a collision. (Also includes colliding with the tow of another vessel, regardless of the nature of the tow, e.g., surfboard, ski ropes, skier, tow line, etc.)

COLLISION WITH FIXED OBJECT - The striking of any fixed object above or below the surface of the water.

COLLISION WITH A FLOATING OBJECT - Collision with any waterborne object (except another vessel), above or below the surface, that is free to move with the tide, current or wind.

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

DOCUMENTED VESSEL - A vessel of five or more net tons, owned by a citizen of the United States, for which a certificate of documentation is issued by the United States Coast Guard, pursuant to 46 C.F.R. part 67. Documented vessels are not required to display an assigned registration number.

DRIFTING - Underway, but not proceeding over the bottom with use of engines, oars or sails, being carried along only by the tide, current or wind.

FALLS OVERBOARD - A person who unintentionally exits the vessel.

FAULT OF OPERATOR - Speeding, overloading, improper loading, not properly seating occupants of boat, no proper look-out, carelessness, failure to heed weather warnings, operating recklessly in a congested area, not observing the rules of the road, unsafe fueling practices, lack of experience, ignorance of aids to navigation, lack of caution in an unfamiliar area of operation, improper installation or maintenance of hull, machinery or equipment, poor judgment, recklessness, overpowering the boat, panic, proceeding in an unseaworthy craft, operating a motorboat near persons in the water, starting the engine with clutch engaged or throttle advanced or irresponsible boat handling (such as quick, sharp turns).

FIBERGLASS (PLASTIC) 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 or liquids (including their vapors).

FIRE/EXPLOSION (OTHER) - Accidental burning or explosion of any material onboard, except, vessel fuels or their vapors.

FLORIDA INTRACOASTAL WATERWAY - The Atlantic Intracoastal Waterway from the Georgia state line north of Fernandina to Miami, the Port of Canaveral lock and canal to the Atlantic Intracoastal Waterway; the Atlantic Intracoastal Waterway, Miami to Key West; the Okeechobee Waterway, Stuart to Fort Myers; the St. Johns River, Jacksonville to Sanford; the Gulf Intracoastal Waterway, Anclote to Fort Myers; the Gulf Intracoastal Waterway, Carrabelle to Tampa Bay; Carrabelle to Anclote open bay section (using Gulf of Mexico); the Gulf Intracoastal Waterway, Carrabelle to the Alabama state line west of Pensacola; and the Apalachicola, Chattahoochee and Flint rivers in Florida.

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

FUELING - Any stage of the fueling operation, primarily concerned with introduction of explosive or combustible vapors or liquids onboard.

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

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

INBOARD/OUTBOARD - Also referred to as inboard/outdrive. Regarded as inboard because the power unit is located inside the boat and has a stern-mounted propulsion unit.

INFLATABLE LIFE JACKET - A sleeveless jacket or vest with inflatable chambers designed to keep a person afloat in the water. May also be manufactured to resemble a belt or fanny pack when not inflated.

LIFE JACKET - A sleeveless jacket or vest that is filled with buoyant material designed to keep a person afloat in the water.

MANEUVERING - Changing of course, speed or similar boat handling action during which a high degree of alertness is required or the boat is imperiled because of the operation, such as docking.

MOTORBOAT - Any vessel which is propelled or powered by machinery and which is used or capable of being used as a means of transportation on water and any vessel equipped with propulsion machinery and not more than sixty-five feet in length.

NAVIGATION RULES - The International Navigation Rules Act of 1977, 33 U.S.C., for vessels on waters outside of established navigation lines of demarcation as specified in 33 C.F.R. Part 80 or the Inland Navigation Rules Act of 1980, 33 U.S.C. ss 2001 for vessels on all waters not outside of such lines of demarcation.

NON-RESIDENT - A citizen of the United States who has not established residence in this state and has not continuously resided in this state for one year and in one county for the six months immediately preceding the initiation of a vessel titling or registration action.

NO PROPER LOOK-OUT - No proper watch, the failure of the operator to perceive danger because no one was serving as look-out or the person so serving failed in that regard.

NUMBERED VESSEL - An undocumented vessel numbered by a state with a numbering system approved by the United States Coast Guard under Chapter 123, Title 46, U.S.C.

OPEN MOTORBOAT - Craft of open construction specifically built for operating with a motor, including boats canopied or fitted with temporary partial shelters.

OPERATE - To be in charge of or in command of or in actual physical control of a vessel upon the waters of this state, or to exercise control over or to have responsibility for a vessel's navigation or safety while the vessel is underway upon the waters of this state, or to control or steer a vessel being towed by another vessel upon the waters of this state.

OWNER - A person, other than a lien holder, having the property or title to a vessel. The term includes a person entitled to the use or possession of a vessel subject to an interest in another person, reserved or created by agreement and securing payment of performance of an obligation, but the term excludes a lessee under a lease not intended as security.

OUTBOARD - An engine not permanently affixed to the structure of the craft, regardless of the method or location used to mount the engine; e.g., motor wells, kicker pits, motor pockets, etc.

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

PERSONAL FLOATATION DEVICE (PFD) - A life jacket or similar buoyancy aid. See also LIFE JACKET.

PERSONAL WATERCRAFT - A vessel less than 16 feet in length which uses an inboard motor powering a water jet pump as its primary source of motive power and which is designed to be operated by a person sitting, standing or kneeling on the vessel, rather than in the conventional manner of sitting or standing inside the vessel.

RECKLESS OPERATION - A person is guilty of reckless operation of a vessel who operates any vessel, or manipulates any water skis, aquaplane or similar device, in willful or wanton disregard for the safety of persons or property at a speed or in a manner as to endanger, or likely to endanger, life or limb, damage the property of or injure any person.

REGISTRATION - A state operating license on a vessel which is issued with an identifying number, an annual certificate of registration and a decal designating the year for which a registration fee was paid.

REPORTABLE BOATING ACCIDENT - An accident that results in personal injury requiring medical treatment beyond immediate first aid, death, disappearance of any person from onboard under circumstances which indicate the possibility of death or injury or damage to any vessel or other property in an apparent aggregate amount of at least \$2,000 or total loss of a vessel.

RESIDENT - A citizen of the United States who has established residency in this state and has continuously resided in this state for one year and in one county for the six months immediately preceding the initiation of a vessel titling or registration action.

RULES OF THE ROAD -The Inland and International Navigation Rules for the prevention of collision at sea.

SAILBOAT OR AUXILIARY SAILBOAT - Any vessel whose sole source of propulsion is the natural element (i.e., wind), or a craft intended to be propelled primarily by sail, regardless of size or type.

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

SPEEDING - Operating at a speed, possibly below the posted speed limit, above that which a reasonable and prudent person would operate under the circumstances.

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

STRUCK BY BOAT OR PROPELLER - Striking of a victim who is outside of the boat, but not necessarily a swimmer.

SWAMPING - Filling with water, particularly over the side, but retaining sufficient buoyancy to remain on the surface.

TOWED WATER SPORT MISHAP – A water sport accident associated with vessel passenger(s) or person(s) being towed or surfing the wake created by a vessel. Includes, but is not limited to, water skiing, wakeboarding, tubing, parasailing, etc.

TOWING - Engaged in towing any vessel, fishing gear or object other than a person.

VESSEL - Is synonymous with boat as referenced in S.1 (b), Article VII of the State Constitution, and includes every description of watercraft, barge and airboat, other than a seaplane on the water, used or capable of being used as means of transportation on water.

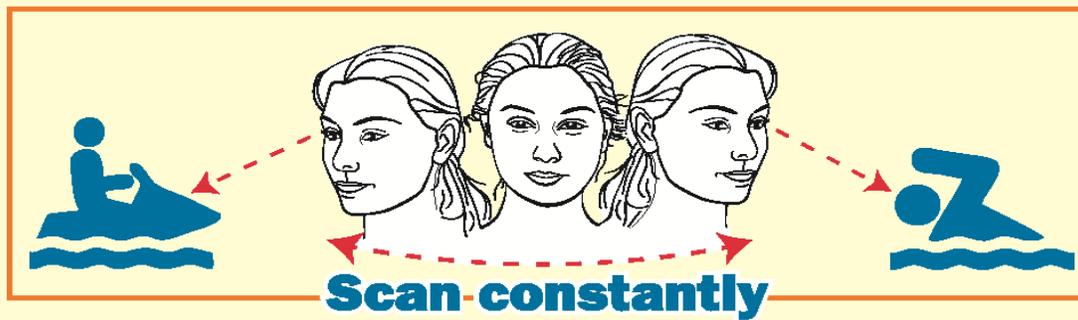
WOOD HULL - Hulls of plywood, molded plywood, wood planking or any other wood fiber in its natural consistency, including those of wooden construction that have been "sheathed" with fiberglass or sheet metal.

IMPORTANT

boating safety messages to remember

Always know what's going on around your boat.

Most boating accidents involve collisions.
Staying alert is critical!



Develop a "Life Jacket Habit."

Most people who die in boating accidents drown. Try out an inflatable life jacket and, most of all, wear it!



Alcohol use is a leading cause of boating deaths.

Alcohol and boating really don't mix, so save it for later. When you drink, you don't think!

From your friends at the Florida Fish and Wildlife Conservation Commission



**Florida Fish and Wildlife Conservation Commission
620 South Meridian Street
Tallahassee, FL 32399-1600**

Boating and Waterways Section

Phone: (850) 488-5600

www.MyFWC.com



**FWC reminds you to not spoil your boating fun.
Slow down and look around.**

