NEW YORK STATE OF OPPORTUNITY.

Parks, Recreation and Historic Preservation



Table of Contents

Executive Summary:	3	
Law Enforcement Activity:	6	
Vessel Registrations:		
County and Length	8	
Length and Hull Material	10	
Accident History 1970-2017:	11	
Accident Analysis 2017:		
County and Waterway	14	
Accident Type	18	
Accident Type and Operation	19	
Accident Cause	21	
Accident Type and Cause	22	
Vessel Type and Accident Type	24	
Operator Age	27	
Operator Age and Education	28	
Operator Age and Experience	29	
Injuries	30	
Summary of Fatal Accidents	31	
Fatal Accident Analysis 2005-2017:		
Vessel Operation	34	
Accident Type	35	
Accident Cause	36	
Cause of Fatality	37	
Month of the Year	38	
Day of the Week	39	
Time of Day	40	
Paddle Craft Analysis 2005-2017:	41	
PWC History 1992-2017:	42	
Boating Safety Education:		
Education History 2000-2017	43	
Student Age	44	
Judoni Ago	77	

Executive Summary

This recreational boating report has been prepared in order to help us better understand why accidents happen while affording possible insights as to how to prevent them.

Recreational boating in New York State is a \$2 billion industry enjoyed by millions of residents and visitors alike. With 444,710 registered powerboats New York ranks ninth in the nation for registered boats. Of the eight states ahead of New York, seven of them have expanded requirements for registration, including registrations for sailboats and paddle craft. Clearly, recreational boating is a large piece of the economy in the Empire State.

In 2017, New York had 22 reported boating fatalities resulting in lives lost prematurely. This is unchanged from 2016. When fatalities in 2016 were considered against the number of registered boats, New York's fatality rate was 4.93 deaths per each 100,000-registered watercraft. This placed New York 31st in the nation. In 2017 that number rose slightly to 4.95. The long-term average is 4.52 as calculated since the year 2000. New York saw its lowest number of injuries since 1974 at 72. It had its lowest ever



recorded sum of injuries and fatalities and a record low number of accidents.

If you compare 2017 to 1973, New York's worst year on record, recreational boating deaths in New York State are just 16.7% of what they were. Meanwhile there are approximately 73,000 more registered boats and countless more unregistered paddle craft. This significant decrease can largely be contributed

to a few key factors. The federal government created many important safety standards for boat manufacturers, most notable the Federal Boat Safety Act of 1971. Improvements in technology, such as the cell phone have allowed for faster response and increased availability of communication with boaters in need. Improvements in

PFDs have made them far more comfortable to wear. Specific PFDs have been developed to maximize safety for specific on water activities such as wake boarding and personal watercraft operation. Legislation has strengthened BWI laws and changed the perception of drinking alcohol on the water. Changes to boater education laws have expanded the mandatory requirements first from youths, then to personal watercraft operators and now to include all boat operators born after May 1, 1996. Online education has further made boating education accessible to all. Availability of equipment, training and funding through grant

programs have led to an enhanced marine law enforcement capability.

What causes recreational boating accidents fatalities on the water in New York? Clearly the leading type of boating deaths is drowning. During the period 2005 -2015, 87% of all victims were not wearing a PFD. Of those victims, 12% of them were required by law to wear a PFD at the time of the accident, but chose not to. It is impossible to tell how many people have been saved by wearing a PFD but the potential consequences of not wearing one are clearly evident.



We also know how deadly an impact unexpected cold water immersion can be in both the early and late boating seasons. There are far fewer reported accidents during the cold weather months, but a much higher percentage of them result in a fatality. Cold water immersion can overcome a victim significantly faster than the effects of This is because the physiology of cold water immersion involves hypothermia. uncontrollable physical reactions such as a gasp reflex, hyperventilation, unconsciousness, elevated heart rate and vasoconstriction. All of which can quickly overcome a boater in distress. A properly fastened PFD, along with proper cold weather clothing, is the surest way to ensure survival in cold water longer. This, coupled with the fact that most of boating deaths involve boats less than 21 feet in

length, led to legislation requiring everyone on watercraft of that length and smaller to wear a PFD between November 1st and May 1st. Following the passage of this legislation New York has seen a decrease in the percentage of fatalities occurring during that time.

Alcohol and drug use are another significant cause of fatal boating accidents in New York. Between 2005 and 2017, alcohol and drug use was found to be the primary contributing factor in 63 fatalities (22.7%) of all boating deaths. In 2017 alcohol or drugs are known to have been present in four of the twenty-two fatalities (18.1%). These substances can impair both judgment and reaction time.

Non-motorized water craft represented fourteen of the twenty-two fatalities (63.6%) in 2017. This is an increase of eight compared to the The size of nonprior year. motorized segment of the boating is difficult population determine since a registration is not required in New York State. Most of these accidents involve the victim exiting the craft unexpectedly either by capsizing or falling overboard. Once in the water the use of a PFD may have assisted them in surviving.

In summary, we may now better understand that by taking some simple proactive steps, we can reasonably assure a safe day on the water. First, always assess the risks and wear a PFD when conditions require. Never mix alcohol, drugs and boating. Add in the environmental stressors from being on the water and it greatly impairs one's ability to stay alert and react. Of course it's essential to understand as much as possible about boating before heading out so consider taking a boating safety course. Always equip your boat with the required safety equipment, file a float plan and don't forget to bring a cellphone or marine radio, in the event you need to summon assistance.

The New York State Office of Parks, Recreation and Historic Preservation (OPRHP) goal is providing the public with a safe and enjoyable boating environment. This is accomplished by developing safe boating habits through education combined with enforcement of the Navigation Law.

Law Enforcement Activity

	Total	Total				
Law Enforcement	Vessel	MLE	Searches	Total Vessel	BWI	Total
Agency	Hours	Hours	and Assists	Inspections	Arrests	Arrests
County	1 IUUI 3	Hours				
ALBANY	45	171	6	3	0	0
ALLEGANY	383	891	10	28	0	1
CATTARAUGUS	491	614	15	81	0	0
CAYUGA	1129	2503	20	66	0	10
CHAUTAUQUA	2306	5708	259	2326	2	74
CLINTON	353	2203	11	56	0	12
COLUMBIA	204	627	12	33	0	13
CORTLAND	32	250	3	37	0	0
DUTCHESS	637	1267	57	18	0	0
ERIE	1409	2818	62	259	4	139
ESSEX	150	457	9	63	0	0
FULTON	192	831	7	20	0	11
GREENE	204	481	11	4	1	2
HAMILTON	1282	1778	37	249	0	36
HERKIMER	150	810	18	4	0	0
JEFFERSON	120	130	10	22	2	12
LEWIS	120	167	0	10	0	2
LIVINGSTON	2142	2300	66	30	1	10
MADISON	63	209	6	10	0	0
MONROE	936	5360	333	200	2	83
NASSAU	14195	31000	94	616	0	330
NIAGARA	576	2456	30	136	0	31
ONEIDA	454	1533	22	135	0	54
ONONDAGA	820	2544	14	136	5	42
ONTARIO	1142	2410	45	240	6	16
ORANGE	135	530	7	9	0	0
ORLEANS	266	3544	13	35	1	2
OSWEGO	579	1402	30	76	0	11
PUTNAM	936	1564	50	140	0	7
ROCKLAND		5462	179	97	0	14
ST. LAWRENCE	128	205	0	230	0	0
SARATOGA	421	594	29	234	3	50
SCHENECTADY	353	1122	8	24	0	33
SENECA	367	816	5 7	14	0	1
STEUBEN SUFFOLK COUNTY	247	1323	/	236	0	3
POLICE	5302	160000	722	211	0	1573
DEPARTMENT	5502	100000	122	211	U	10/3
SUFFOLK COUNTY						
SHERIFF	1500	4022	12	110	2	55
SULLIVAN	141	396	28	2	0	32
TOMPKINS	36	83	2	1	0	1
ULSTER	639	1278	68	141	0	18
WARREN	1083	2633	144	95	9	33

Law Enforcement Agency	Total Vessel Hours	Total MLE Hours	Searches and Assists	Total Vessel Inspections	BWI Arrests	Total Arrests
County (Continued)						
WAYNE	279	2365	18	13	0	12
WYOMING	121	121	4	8	0	0
YATES	879	2348	55	3935	1	51
Municipalities						
ASHAROKEN	336	448	12	20	0	0
BABYLON	1400	1200	25	67	0	197
CAZENOVIA	128	128	6	0	0	0
DOBBS FERRY	23	116	1	0	0	0
EAST HAMPTON	851	11424	58	147	1	26
EVANS	92	92	12	0	1	3
GLEN COVE	811	3283	45	41	0	26
GREENWOOD LAKE	652	1304	28	40	0	12
HASTINGS	67	177	3	0	0	0
HEMPSTEAD	1649	15759	63	590	0	183
HUNTINGTON	2478	6855	91	96	0	303
ISLIP	409	7792	21	80	0	46
MAMARONECK	980	3350	44	211	7	59
NEW ROCHELLE	1446	4492	70	92	0	94
NEW YORK CITY	123800	324480	407	1738	0	320
NORTH HEMPSTEAD	4490	9540	42	389	0	9
NORTHPORT	797	797	21	23	0	0
OSSINING	264	600	4	3	0	0
OYSTER BAY	3640	24480	124	540	0	288
PHOENIX	21	38	1	0	0	0
QUOGUE	344	376	9	51	0	18
RIVERHEAD	700	2500	20	94	0	16
RYE	558	4841	31	346	0	27
SHELTER ISLAND	472	1250	61	192	1	49
SMITHTOWN	5111	8090	128	149	0	184
SOUTHAMPTON	2615	14400	200	420	3	498
SOUTHOLD	753	6790	8	595	0	48
YONKERS	311	980	19	54	0	13
State Agencies		ı	1			1
DEPARTMENT OF	40007	F0000	107	007.5		0.400
ENVIRONEMENTAL	19897	53098	187	20765	4	2432
CONSERVATION						
LAKE GEORGE PARK	5245	6397	179	424	13	189
COMMISSION	1405	4014	74	540	14	252
PARK POLICE	1685	6016	76		16 1	352
STATE POLICE Totals	1079 228546	1538 781957	8 4542	366 38466	86	68 8234
Totals	228346	761957	4342	38400	80	0234

2017 Vessel Registrations by County and Length

			Class A	Class 1	Class 2	Class 3	Class 4
County	Total	Uncoded	<16'	16-25'	26-39'	40-64'	>= 65'
ALBANY	8694	22	3395	4650	574	39	14
ALLEGANY	1873	5	759	1086	20	1	2
BRONX	2351	5	926	931	439	37	13
BROOME	6623	17	3032	3259	295	15	5
CATTARAUGUS	2853	5	1054	1689	100	4	1
CAYUGA	5322	19	1954	3083	254	12	0
CHAUTAUQUA	6305	26	2129	3777	352	18	3
CHEMUNG	3845	2	1490	2165	176	10	2
CHENANGO	2263	0	1219	990	50	4	0
CLINTON	5993	12	2812	2883	271	12	3
COLUMBIA	2823	3	1181	1512	113	13	1
CORTLAND	2089	7	918	1104	57	3	0
DELAWARE	1199	0	606	549	43	1	0
DUTCHESS	6171	10	2759	2839	5231	37	3
ERIE	24050	64	8229	13263	2288	183	23
ESSEX	4370	9	1823	2395	131	9	3
FRANKLIN	4278	4	2107	2105	57	1	4
FULTON	4504	8	1948	2348	195	4	1
GENESEE	2191	4	878	1238	64	4	3
GREENE	2240	5	875	1169	175	13	3
HAMILTON	1899	7	908	964	17	3	0
HERKIMER	3478	11	1472	1922	69	3	1
JEFFERSON	10984	54	4340	5849	706	34	1
KINGS	4326	0	1668	1550	960	111	37
LEWIS	2223	0	1149	1039	34	1	0
LIVINGSTON	3840	10	1590	2154	76	8	2
MADISON	4391	7	1732	2466	177	7	2
MONROE	26454	58	10513	14021	1738	115	9
MONTGOMERY	1956	8	875	997	73	1	2
NASSAU	27796	58	8881	12905	5192	701	59
NEW YORK	4524	2	1289	1919	1095	189	30
NIAGARA	7945	34	2667	4535	664	38	7

County	Total	Uncoded	Class A <16'	Class 1 16-25'	Class 2 26-39'	Class 3 40-64'	Class 4 >= 65'
ONEIDA	10947	33	4502	5998	395	17	2
ONONDAGA	20610	41	7906	11371	1182	101	9
ONTARIO	7476	25	2422	4735	277	16	1
ORANGE	8057	26	3880	3573	521	47	10
ORLEANS	1993	1	836	1037	114	5	0
OSWEGO	8862	14	3827	4493	508	19	1
OTSEGO	2417	6	995	1365	46	3	2
PUTNAM	2913	7	1122	1542	217	23	2
QUEENS	5987	9	2276	2648	946	77	31
RENSSELAER	5668	3	2396	2956	289	23	1
RICHMOND	3568	7	1413	1460	619	58	11
ROCKLAND	3846	10	1844	1352	565	61	14
ST LAWRENCE	10343	16	4563	5462	280	17	5
SARATOGA	13805	17	5143	7878	734	29	4
SCHENECTADY	5533	12	2299	2920	283	16	3
SCHOHARIE	1100	0	506	551	38	3	2
SCHUYLER	1587	4	590	919	71	2	1
SENECA	2735	31	946	1615	153	15	3
STEUBEN	4898	2	1827	2929	133	6	1
SUFFOLK	63208	236	18754	31622	11227	1312	57
SULLIVAN	2985	1	1525	1377	68	9	5
TIOGA	2185	1	986	1109	86	2	1
TOMPKINS	3406	4	1126	2017	236	22	1
ULSTER	5055	7	2186	2413	417	29	3
WARREN	7174	34	2226	4361	533	11	9
WASHINGTON	3381	8	1404	1854	112	2	1
WAYNE	6447	18	2468	3507	426	26	2
WESTCHESTER	11009	14	3566	4898	2137	346	48
WYOMING	1640	1	571	1037	25	4	2
YATES	2485	4	785	1628	65	1	2
Out of State	13537	0	4694	7540	1146	140	17
TOTAL	444710	1068	166762	231523	45535	4073	485

Registered Vessels: By Length and Hull Material

Registe		33CI3. D)			
< 16 FT	O/B	I/B	1/0	SAIL	OTHER	TOTAL
WOOD	1639	77	7	31	38	1792
METAL	27018	35	42	1	452	27548
PLASTIC	7088	2719	167	28	1107	11109
FIBERGLASS	18153	50282	3575	401	4864	77275
INFLATABLE	9209	58	74	6	362	9709
STEEL	642	17	7	0	42	708
ALUMINUM	33976	164	194	13	1988	36335
OTHER	1609	438	35	4	200	2286
TOTAL	99334	53790	4101	484	9053	166762
16-25 FT	O/B	I/B	I/O	SAIL	OTHER	TOTAL
WOOD	1186	1868	118	52	23	3247
METAL	15564	117	816	0	36	16533
PLASTIC	2923	485	791	101	86	4386
FIBERGLASS	64835	13121	74886	2703	844	156389
INFLATABLE	211	8	6	2	1	228
STEEL	602	32	30	1	9	674
ALUMINUM	47463	234	1180	6	217	49100
OTHER	862	25	43	12	24	966
TOTAL	133646	15890	77870	2877	1240	231523
26-39 ft	O/B	I/B	I/O	SAIL	OTHER	TOTAL
WOOD	61	705	19	24	5	814
METAL	191	96	29	2	4	322
PLASTIC	82	353	163	65	5	668
FIBERGLASS	5560	14415	15419	2295	127	37816
INFLATABLE	5	3	1	0	0	9
STEEL	24	42	14	1	7	88
ALUMINUM	798	115	131	5	6	1055
OTHER	17	21	6	6	5	55
TOTAL	6738	15750	15782	2398	159	40827
40-64 FT	O/B	I/B	I/O	SAIL	OTHER	TOTAL
WOOD	2	95	1	7	1	106
METAL	2	18	6	1	1	28
PLASTIC	1	54	5	10	0	70
FIBERGLASS	108	3120	275	246	13	3762
INFLATABLE	1	1	0	0	0	2
STEEL	9	29	4	4	3	49
ALUMINUM	17	18	6	2	2	45
OTHER	1	6	1	0	3	11
TOTAL	141	3341	298	270	23	4073
>65 FT	O/B	I/B	I/O	SAIL	OTHER	TOTAL
WOOD	2	7	0	0	0	9
METAL	6	4	2	0	2	14
PLASTIC	20	4	1	0	1	26
FIBERGLASS	73	176	62	3	21	335
INFLATABLE	27	0	0	0	2	29
STEEL	1	8	0	0	1	10
ALUMINUM	52	4	1	0	2	59
OTHER	1	1	0	0	1	3
TOTAL	182	204	66	3	30	485
Uncoded	O/B	I/B	1/0	SAIL	OTHER	TOTAL
TOTAL	4	3	2	0	1031	1040

ACCIDENTS

The chart below illustrates registration and accident figures for the years 1970 through 2017. During that time period, while vessel registrations have generally risen, accidents and fatalities have steadily decreased.

A collision between two or more vessels is still the most common type of boating accident and results in the most injuries. Boaters must recognize that the waterways are increasingly more crowded and that vessel operation must be adjusted accordingly. Operators must be constantly aware of what is happening around them. Mixing alcohol or drugs increases the level of danger when boating. Not only is it illegal, but the lessening of one's judgment and balance can have deadly consequences. Alcohol and drugs have

been shown to be important contributing factors in many fatal incidents.

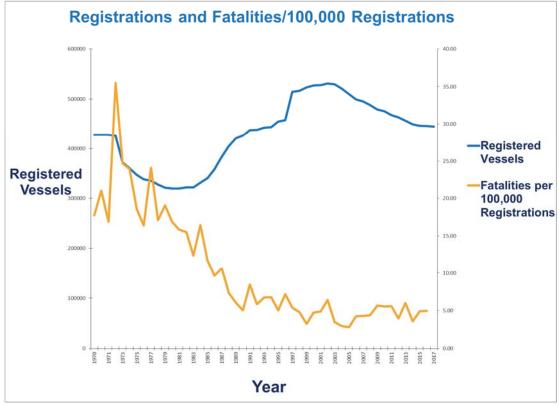
A reduction of collisions and fatalities can also be achieved by showing courtesy to other boaters. Boating education classes are also important, but boaters must be willing to apply what they have learned. Tougher laws are making it possible to remove dangerous boaters from our waterways. Education and enforcement must be combined with, and complemented by, fair and enforceable laws.

Reportable Accidents

For Recreational Vessels:

- ➤ Loss of Life or Disappearance
- ➤ Injury Involving More Than Basic First Aid
- ➤ Total Property Damage to any one party in Excess of \$1000

It is also vitally important to increase the use of PFDs, especially in the off-season when the water is cold and when help may not be able to respond quickly. Roughly one quarter of all fatalities occur when boaters are operating during the off-season, in boats less than twenty-one feet in length, when victims may end up in the water without the benefit of a PFD. While legislation mandates that PFDs be worn in those instances, it is still incumbent upon the boater to use their best judgment; if the water is cold, wear a PFD, and dress for the weather!



Accident Data: 1970 - 2017

Year	Fatalities per 100,000 Registrations	Registered Vessels	Accidents	Injuries	Fatalities
1970	17.76	427956	293	88	76
1971	21.02	428114	318	87	90
1972	16.90	426030	301	63	72
1973	35.51	371764	349	139	132
1974	24.70	360311	318	68	89
1975	23.90	347211	368	129	83
1976	18.61	338464	420	136	63
1977	16.40	335288	500	132	55
1978	24.10	327782	400	Unknown	79
1979	17.11	321470	293	Unknown	55
1980	19.09	319492	322	196	61
1981	16.89	319641	308	197	54
1982	15.84	321881	309	180	51
1983	15.53	321881	390	248	50
1984	12.36	331742	271	153	41
1985	16.46	340300	319	182	56
1986	11.72	358400	298	157	42
1987	9.64	383868	310	163	37
1988	10.61	405331	362	120	43
1989	7.37	420885	333	109	31
1990	6.09	426617	323	119	26
1991	5.03	437579	265	119	22
1992	8.44	438342	228	130	37
1993	5.87	442745	226	138	26
1994	6.76	443856	222	90	30
1995	6.81	455189	291	130	31
1996	5.02	458092	325	168	23
1997	7.19	514538	322	182	37
1998	5.42	516738	326	181	28
1999	4.78	523321	315	193	25
2000	3.22	527426	288	127	17
2001	4.73	528113	288	140	25
2002	4.89	531579	284	152	26

Year	Fatalities per 100,000 Registrations	Registered Vessels	Accidents	Injuries	Fatalities
2003	6.42	529844	303	137	34
2004	3.46	520758	204	93	18
2005	2.94	510185	219	143	15
2006	2.80	499301	183	101	14
2007	4.24	495623	206	133	21
2008	4.30	488167	215	104	21
2009	4.38	479161	191	78	21
2010	5.68	475688	243	128	27
2011	5.56	467828	226	190	26
2012	5.61	463539	241	126	26
2013	3.94	456909	195	112	18
2014	6.01	449489	194	103	27
2015	3.58	446582	187	98	16
2016	4.93	446117	208	141	22
2017	4.95	444710	181	72	22



Accidents by County and Waterway

Accidents by court			
County / Waterway	Accidents	Injures	Fatalities
ALBANY	1	0	1
HUDSON RIVER	1	0	1
BRONX	1	1	0
EASTCHESTER BAY	1	1	0
CAYUGA	3	0	0
CAYUGA LAKE	3	0	0
CHAUTAUQUA	3	1	2
CHAUTAUQUA LAKE	3	1	2
CLINTON	1	1	0
LAKE CHAMPLAIN	1	1	0
DUTCHESS	1	0	0
HUDSON RIVER	1	0	0
ERIE	4	5	0
ELLICOTT CREEK	1	1	0
LAKE ERIE	1	3	0
NIAGARA RIVER	2	1	0
ESSEX	2	0	0
LAKE GEORGE	1	0	0
LAKE PLACID	1	0	0
FRANKLIN	1	3	0
INDIAN LAKE	1	3	0
FULTON	2	0	0
SACANDAGA RESEVOIR	2	0	0
GREENE	1	3	0
HUDSON RIVER	1	3	0
HAMILTON	1	1	0
SEVENTH LAKE	1	1	0
HERKIMER	1	0	0
MOHAWK RIVER	1	0	0
JEFFERSON	1	1	0
ST. LAWRENCE RIVER	1	1	0
KINGS	1	1	0
SHELL BANK BASIN	1	1	0
LIVINGSTON	17	9	0
CONESUS LAKE	17	9	0
MADISON	1	0	0
ONEIDA LAKE	1	0	0
MONROE	3	0	1
ERIE CANAL	1	0	1
IRONDEQUOIT BAY	1	0	0
LAKE ONTARIO	1	0	0

County / Waterway	Accidents	Injures	Fatalities
NASSAU	24	10	4
HEMPSTEAD HARBOR	2	2	1
HOG'S ISLAND CHANNEL	2	1	0
JONES BAY	1	0	0
MANHASSET BAY	1	0	0
MILBURN CREEK	2	0	0
MILL NECK CREEK	1	2	0
OYSTER BAY	2	0	0
OYSTER BAY HARBOR	1	0	1
REYNOLDS CHANNEL	1	0	0
SEAMAN'S CREEK	3	1	1
SLOOP CHANNEL	1	1	0
STATE BOAT CHANNEL	4	2	0
TOBAY BOAT BASIN	2	1	1
WOODCLEFT CANAL	1	0	0
NEW YORK	13	2	1
HARLEM RIVER	1	0	1
HUDSON RIVER	8	0	0
NEW YORK HARBOR	2	0	0
UPPER BAY	2	2	0
NIAGARA	3	0	2
LAKE ONTARIO	1	0	1
NIAGARA RIVER	2	0	1
ONEIDA	3	3	1
CHITTNING POND	1	0	0
ERIE BARGE CANAL	1	0	1
ONEIDA LAKE	1	3	0
ONONDAGA	16	1	2
ONEIDA LAKE	1	0	0
SENECA RIVER	6	0	2
SKANEATELES LAKE	9	1	0
ONTARIO	3	0	0
CANANDAIGUA	3	0	0
OSWEGO	3	0	0
LAKE ONTARIO	1	0	0
ONEIDA LAKE	1	0	0
ONEIDA RIVER	1	0	0
QUEENS	6	4	3
EAST RIVER	1	0	3
FLUSHING BAY	1	0	0
JAMAICA BAY	1	0	0
ROCKAWAY POINT INLET	3	4	0
RICHMOND	1	0	0
GREAT KILLS HARBOR	1	0	0
ROCKLAND	1	3	0
HUDSON RIVER	1	3	0

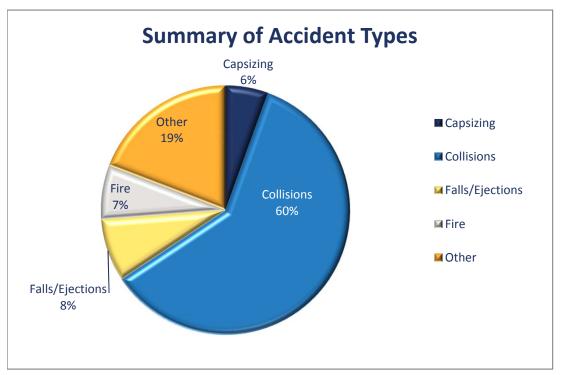
County / Waterway	Accidents	Injures	Fatalities
SARATOGA	1	0	0
SACANDAGA LAKE	1	0	0
SCHENECTADY	1	0	0
MOHAWK RIVER	1	0	0
SCHUYLER	1	0	0
WANETA LAKE	1	0	0
ST. LAWRENCE	2	0	1
BLACK LAKE	1	0	1
ST. LAWRENCE RIVER	1	0	0
STEUBEN	1	1	0
ALMOND LAKE	1	1	0
SUFFOLK	47	10	3
ASHAROKEN BAY	2	0	1
ATLANTIC OCEAN	1	0	0
FIRE ISLAND INLET	1	0	1
GARDINER'S BAY	2	1	0
GREAT SOUTH BAY	1	0	0
HUNTINGTON HARBOR	1	0	0
LAKE MONTAUK	1	0	0
LAKE RONKONKOMA	2	1	0
LITTLE SWIFT CREEK	1	0	0
LONG ISLAND SOUND	1	0	0
MATTITUCK CREEK	1	0	0
MONTAUK HARBOR	1	0	0
MORICHES BAY	2	0	0
MORICHES INLET	1	0	0
MT. SINAI HARBOR	1	0	0
MUD CREEK	1	0	0
NARRASKATUCK CREEK	2	0	0
NEGUNTATOQUE CREEK	2	1	1
NORTHPORT BAY	1	1	0
NOYACK BAY	1	0	0
OYSTER BAY	1	0	0
PATCHOGUE BAY	2	0	0
PECONIC BAY	1	0	0
PECONIC RIVER	2	0	0
PORT JEFFERSON HARBOR	4	<u> </u>	0
QUINTUCK CREEK SAG HARBOR BAY	3 2		0
	1	3	0
SHELTER ISLAND SOUND STATE BOAT CHANNEL	3	0	0
THREE MILE HARBOR	1	1	0
WEST SHINNECOCK BAY	1	<u> </u>	0
SULLIVAN	1	1	0
SWINGING BRIDGE RESEVOIR	1	<u> </u>	0
	_		-
ULSTER HILDSON DIVED	2	<u>5</u> 5	0
HUDSON RIVER	2	b	0

County / Waterway	Accidents	Injures	Fatalities
WARREN	2	0	0
LAKE GEORGE	2	0	0
WAYNE	2	0	0
LAKE ONTARIO	1	0	0
SODUS BAY	1	0	0
WESTCHESTER	2	6	1
HUDSON RIVER	1	0	1
LONG ISLAND SOUND	1	6	0
YATES	1	0	0
KEUKA LAKE	1	0	0



Accident Types

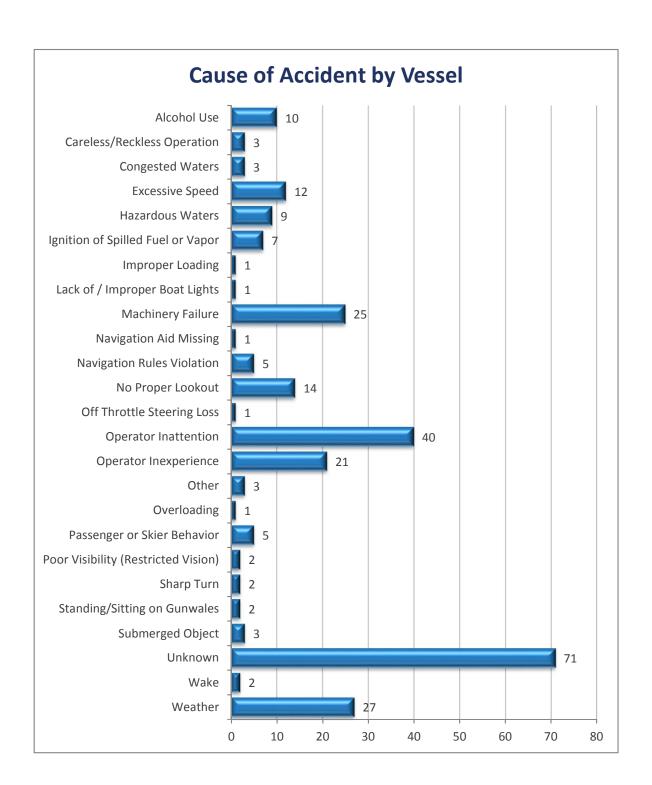
Accident Type	Vessels	Injuries	Fatalities
Capsizing	15	13	7
Collision with Fixed Object	8	2	0
Collision with Floating Object	4	0	0
Collision With Commercial Boat	7	0	0
Collision With Recreational Boat	144	22	0
Falls Onboard Boat	4	4	0
Falls Overboard	5	2	3
Fire/Explosion (Fuel)	13	7	0
Fire/Explosion (Other)	6	2	0
Flooding/Swamping	10	0	1
Grounding	24	7	0
Other	1	0	0
Person Ejected From Vessel	13	6	8
Struck by Boat	4	2	0
Struck by Propeller	2	2	0
Struck Submerged Object	5	0	0
Sudden Medical Condition	1	0	1
Unknown	5	3	2



Accident Type and Vessel Operation

Accident Type	Operation	Vessels	Injuries	Fatalities
	Drifting	4	6	0
	Other	1	3	0
Capsizing	Rowing or Paddling	9	2	7
	Sailing	1	2	0
	Changing Direction	1	0	0
Collision With Fixed	Cruising	3	2	0
Object	Drifting	2	0	0
•	Unknown	2	0	0
Collision With Floating Object	Cruising	4	0	0
	Changing Direction	1	0	0
Collision With	Cruising	2	0	0
Commercial Boat	Tied to Dock/Mooring	3	0	0
	Unknown	1	0	0
	At Anchor	4	0	0
	Changing Direction	7	3	0
	Changing Speed	4	1	0
	Changing Speed, Changing Direction	2	0	0
	Cruising	40	13	0
	Cruising, Changing Direction	1	0	0
Callinian With	Docking/Undocking	21	2	0
Collision With Recreational Boat	Docking/Undocking, Changing Direction	1	0	0
	Drifting	4	0	0
	Other	5	1	0
	Rowing or Paddling	1	1	0
	Sailing	6	0	0
	Sailing, Changing Direction	2	0	0
	Tied to Dock/Mooring	43	1	0
	Unknown	3	0	0
	At Anchor	1	1	0
Fall Onboard Boat	Cruising	2	2	0
	Drifting	1	1	0
	At Anchor	1	1	0
Falls Overboard	Drifting	1	0	1
	Rowing or Paddling	2	0	2
	Unknown	1	1	0
	Cruising	3	0	0
Fire/Explosion (Fuel)	Launching	1	0	0
The Explosion (Luci)	Other	1	3	0
	Tied to Dock/Mooring	8	4	0

Accident Type	Operation	Vessels	Injuries	Fatalities
	Cruising	2	0	0
Fire/Explosion (Other)	Drifting	1	1	0
тисленени (е инегу	Tied to Dock/Mooring	3	1	0
Flooding (Companies	At Anchor	1	0	0
	Cruising	3	0	1
Flooding/Swamping	Drifting	4	0	0
	Rowing or Paddling	2	0	0
	Changing Direction	1	1	0
Crounding	Cruising	21	6	0
Grounding	Drifting	1	0	0
	Unknown	1	0	0
Other	Sailing	1	0	0
	Changing Direction	3	1	2
Person Ejected From	Changing Speed	2	1	1
Vessel	Cruising	6	4	1
vessei	Drifting	1	0	3
	Unknown	1	0	1
	Changing Speed	2	2	0
Struck by Boat	Cruising	1	0	0
	Tied to Dock/Mooring	1	0	0
Struck by Propeller	Drifting	1	1	0
Struck by Propeller	Other	1	1	0
Struck Submerged	Cruising	4	0	0
Object	Unknown	1	0	0
Sudden Medical Condition	Drifting	1	0	1
	Changing Speed	1	0	0
Halmaum	Drifting	1	0	0
Unknown	Rowing or Paddling	2	0	2
	Unknown	1	3	0



Accident Type and Cause

Accident Type	Cause	Vessels	Injures	Fatalities
	Alcohol Use	1	0	1
	Improper Loading	1	1	0
	Machinery Failure	2	3	0
Capsizing	Operator Inexperience	2	1	1
	Standing/Sitting on Gunwales etc	1	3	0
	Unknown	2	3	2
	Weather	6	2	3
	Alcohol Use	1	2	0
	Hazardous Waters	1	0	0
	Machinery Failure	2	0	0
Collision With Fixed Object	No Proper Lookout	1	0	0
	Operator Inattention	1	0	0
	Poor Visibility (Restricted Vision)	1	0	0
	Unknown	1	0	0
	Alcohol Use	1	0	0
Callisian With Flacting Object	Excessive Speed	1	0	0
Collision With Floating Object	Hazardous Waters	1	0	0
	No Proper Lookout	1	0	0
Collision With Commercial	Operator Inattention	2	0	0
	Operator Inexperience	2	0	0
Boat	Unknown	3	0	0
	Alcohol Use	5	4	0
	Careless/Reckless Operation	2	1	0
	Congested Waters	3	0	0
	Excessive Speed	7	5	0
	Hazardous Waters	3	0	0
	Lack of / Improper Boat Lights	1	1	0
	Machinery Failure	6	0	0
Collision With Recreational	Navigation Rules Violation	4	0	0
Boat	No Proper Lookout	7	0	0
	Off Throttle Steering Loss	1	0	0
	Operator Inattention	28	7	0
	Operator Inexperience	8	0	0
	OTHER-Other vessel operator's fault	1	0	0
	Passenger or Skier Behavior	1	2	0
	Unknown	51	2	0
	Weather	16	0	0
	Operator Inexperience	1	1	0
Fall Onboard Boat	Passenger or Skier Behavior	1	1	0
raii Officiald Boat	Standing/Sitting on Gunwales etc	1	1	0
	Wake	1	1	0
Follo Overboard	Alcohol Use	1	0	1
Falls Overboard	Unknown	4	2	2

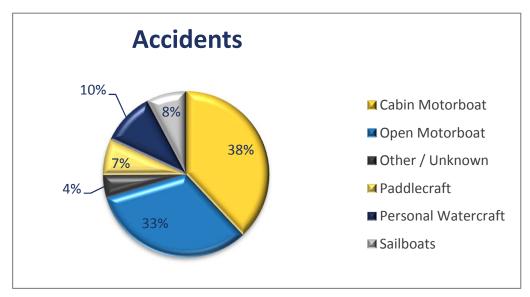
Accident Type	Cause	Vessels	Injures	Fatalities
	Ignition of Spilled Fuel or Vapor	7	6	0
Fire/Explosion (Fuel)	Machinery Failure	4	1	0
	Unknown	2	0	0
Fire/Funlacion (Other)	Machinery Failure	4	1	0
Fire/Explosion (Other)	Unknown	2	1	0
	Machinery Failure	4	0	0
	OTHER-No Boat Plug	1	0	0
Flooding/Swamping	Passenger or Skier Behavior	1	0	0
	Unknown	1	0	0
	Weather	3	0	1
	Excessive Speed	2	1	0
	Hazardous Waters	3	1	0
	Machinery Failure	2	0	0
	Navigation Aid Missing	1	1	0
Grounding	No Proper Lookout	4	0	0
	Operator Inattention	6	1	0
	Operator Inexperience	4	1	0
	Poor Visibility (Restricted Vision)	1	2	0
	Weather	1	0	0
Other	Weather	1	0	0
	Careless/Reckless Operation	1	1	0
	Excessive Speed	2	2	0
	Hazardous Waters	1	0	3
	Machinery Failure	1	0	0
Person Ejected From Vessel	Navigation Rules Violation	1	0	1
	Operator Inexperience	3	1	2
	OTHER-Plant Vegetation	1	0	1
	Passenger or Skier Behavior	2	1	1
	Sharp Turn	1	1	0
	Alcohol Use	1	1	0
Struck by Boat	Sharp Turn	1	1	0
	Unknown	2	0	0
Struck by Propeller	Operator Inattention	2	2	0
	Operator Inattention	1	0	0
Struck Submerged Object	Operator Inexperience	1	0	0
o ,	Submerged Object	3	0	0
Sudden Medical Condition	Unknown	1	0	1
	No Proper Lookout	1	0	0
	Overloading	1	0	1
Unknown	Unknown	2	3	1
	Wake	1	0	0
	vvuno	1 '	U	U

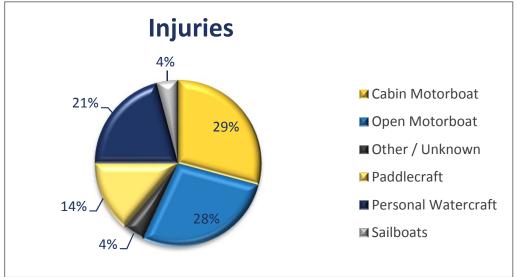
Vessel Type and Accident Type

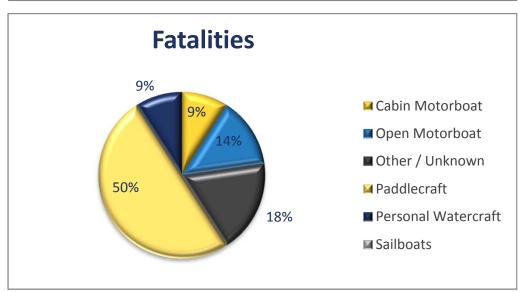
Vessel Type	Accident Type	Vessels	Injuries	Fatalities
Auxillary Sail	Collision With Recreational Boat	10	0	0
,	Collision With Fixed Object	2	2	0
	Collision With Floating Object	3	0	0
	Collision With Commercial Boat	2	0	0
	Collision With Recreational Boat	60	7	0
	Fall Onboard Boat	1	1	0
	Falls Overboard	1	1	0
Cabin Matarbaat	Fire/Explosion (Fuel)	12	7	0
Cabin Motorboat	Fire/Explosion (Other)	3	1	0
	Flooding/Swamping	4	0	1
	Grounding	8	1	0
	Struck by Propeller	1	1	0
	Struck Submerged Object	4	0	0
	Sudden Medical Condition	1	0	1
	Unknown	1	0	0
Conos	Capsizing	3	3	2
Canoe	Unknown	1	3	0
Hayaahaat	Collision With Recreational Boat	1	0	0
Houseboat	Struck by Boat	1	0	0
	Capsizing	8	4	3
Kayak	Flooding/Swamping	2	0	0
	Unknown	2	0	2
	Capsizing	1	3	0
	Collision With Fixed Object	4	0	0
	Collision With Floating Object	1	0	0
	Collision With Commercial Boat	3	0	0
	Collision With Recreational Boat	45	4	0
	Fall Onboard Boat	2	2	0
	Falls Overboard	1	0	1
Open Motorboat	Fire/Explosion (Fuel)	1	0	0
	Fire/Explosion (Other)	1	0	0
	Flooding/Swamping	4	0	0
	Grounding	11	4	0
	Person Ejected From Vessel	4	2	2
	Struck by Boat	2	1	0
	Struck by Propeller	1	1	0
	Struck Submerged Object	1	0	0
Passenger Vessel	Collision With Recreational Boat	1	0	0
Pedal Boat	Collision With Recreational Boat	2	2	0
r cual boat	Person Ejected From Vessel	1	0	3

Vessel Type	Accident Type	Vessels	Injuries	Fatalities
	Collision With Fixed Object	2	0	0
	Collision With Commercial Boat	2	0	0
	Collision With Recreational Boat	11	7	0
Personal Watercraft	Fall Onboard Boat	1	1	0
Personal Watercraft	Fire/Explosion (Other)	1	1	0
	Grounding	3	2	0
	Person Ejected From Vessel	7	4	2
	Unknown	1	0	0
	Capsizing	1	1	0
Pontoon Boat	Collision With Recreational Boat	4	2	0
	Grounding	1	0	0
Rowboat	Capsizing	1	0	2
	Capsizing	1	2	0
	Collision With Recreational Boat	6	0	0
Call (amb)	Fire/Explosion (Other)	1	0	0
Sail (only)	Grounding	1	0	0
	Other	1	0	0
	Struck by Boat	1	1	0
SUP	Falls Overboard	2	0	2
Tug Boat	Collision With Recreational Boat	1	0	0
· ·	Collision With Recreational Boat	3	0	0
Unknown	Falls Overboard	1	1	0
	Person Ejected From Vessel	1	0	1



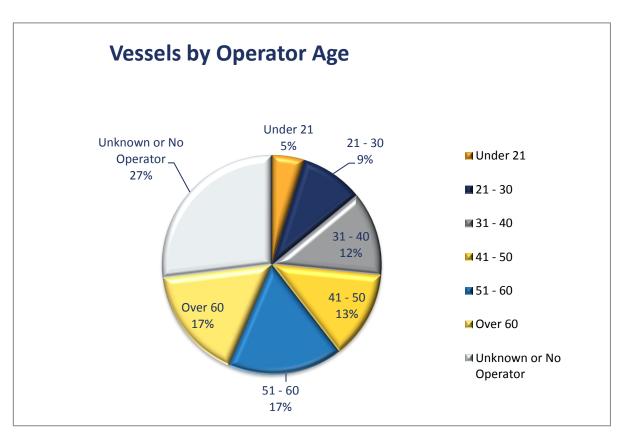






Operator Age

Age Group	Vessels	Injures	Fatalities
Under 21	13	9	3
21 - 30	25	12	8
31 - 40	34	12	1
41 - 50	35	17	4
51 - 60	46	8	2
Over 60	45	13	3
Unknown or No Operator	73	1	1



Age of Operator and Boating Education

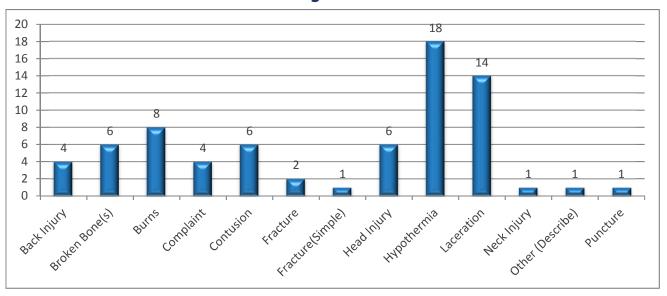
Age Group	Education	Vessels	Injuries	Fatalities
	None	3	1	0
Under 21	State Course	3	1	1
	Unknown	6	6	2
	USGA Auxiliary	1	1	0
	Internet Course	1	0	0
21 - 30	None	7	3	2
	State Course	9	5	0
	Unknown	8	4	6
	Internet Course	1	0	0
	None	11	2	0
31 - 40	State Course	9	4	0
	Unknown	9	3	1
	USCG Auxiliary	4	3	0
	None	14	4	3
41 - 50	State Course	6	4	0
41 - 50	Unknown	14	8	1
	USCG Auxiliary	1	1	0
	None	4	3	0
51 - 60	State Course	19	3	0
31 - 00	Unknown	22	2	2
	USCG Auxiliary	1	0	0
	Internet Course	1	0	0
	None	10	1	0
Over 60	State Course	5	0	0
Over ou	Unknown	21	6	3
	US Power Squadron	5	6	0
	USCG Auxiliary	3	0	0
Unknown	Unknown	73	1	1



Age of Operator and Boating Experience

Operator Age	Experience	Vessels	Injuries	Fatalities
	Under 10 Hours	3	1	0
	10 to 100 Hours	3	2	2
Under 21	100 to 500 Hours	2	1	0
	Over 500 Hrs.	1	0	0
	Unknown	4	5	1
	Under 10 Hours	7	2	2
	10 to 100 Hours	6	3	1
21 - 30	100-500 Hrs.	2	3	0
	Over 500 Hrs.	4	1	0
	Unknown	6	3	5
	Under 10 Hours	6	2	0
	10 to 100 Hours	7	3	0
31 - 40	100-500 Hrs.	5	1	0
	Over 500 Hrs.	7	0	0
	Unknown	9	6	1
	Under 10 Hours	5	2	0
	10 to 100 Hours	7	3	0
41 - 50	100-500 Hrs.	5	2	0
	Over 500 Hrs.	6	5	1
	Unknown	12	5	3
	Under 10 Hours	3	1	0
	10 to 100 Hours	4	1	0
51 - 60	100-500 Hrs.	12	4	0
	Over 500 Hrs.	18	1	0
	Unknown	9	1	2
	Under 10 Hours	1	0	0
	10 to 100 Hours	5	1	0
Over 60	100-500 Hrs.	10	1	0
	Over 500 Hrs.	23	10	2
	Unknown	6	1	1
	10 to 100 Hours	2	0	0
Unknown	100-500 Hrs.	1	0	0
OTIKTIOWIT	Over 500 Hrs.	1	0	0
	Unknown	69	1	1

Injuries



Type of Injury, Type of Vessel

Vessel	Injury Type	Injuries	Vessel	Injury Type	Injuries
	Broken Bone(s)	1	Pedal Boat	Back Injury	1
	Burns	8	Peual Buat	Laceration	1
	Complaint	2		Back Injury	1
Cabin Motorboat	Contusion	4		Broken Bone(s)	1
Cabiii Motorboat	Hypothermia	1		Complaint	2
	Laceration	3	Personal Watercraft	Fracture	1
	Neck Injury	1		Head Injury	3
	Puncture	1		Hypothermia	2
Canoe	Hypothermia	6		Laceration	5
Vavak	Hypothermia	3		Broken Bone(s)	1
Kayak	Other	1	Pontoon Boat	Fracture	1
	Back Injury	2		Hypothermia	1
	Broken Bone(s)	3		Fracture(Simple)	1
On an Matarhaat	Contusion	2	Sail (only)	Head Injury	1
Open Motorboat	Head Injury	2		Hypothermia	1
	Hypothermia	3	Unknown	Hypothermia	1
	Laceration	5			

2017 Summary of Fatal Accidents

Date	County	Waterway	Cause	Vessel	Accident Type	Fatalities
04/10/2017	STEUBEN	ALMOND LAKE	Operator Inexperience	Kayak	Capsizing	1

A kayaker was returning after fishing on an island when his vessel capsized. Another kayaker nearby attempted to rescue him but his efforts were ineffective. He then left to get help. The capsized individual meanwhile clung to a nearby tree before finally going under the water. He was recovered later that day. A PFD was not used. There is no indication of alcohol or drugs being a factor.

05/10/0017	FCCEV	LAKE DI ACID	Alaskal Has	0	0	4
05/12/2017	ESSEX	LAKE PLACID	Alcohol Use	Canoe	Capsizing	ı

Three individuals were in a canoe out to see the sun rise. The victim was in the middle while the other two were paddling on each end. The lake was flat and calm. All three individuals had been consuming alcohol. The victim had also consumed marijuana just prior to the accident. A weight shift from one of the occupants caused the canoe to capsize throwing all three individuals into the cold water. The victim was unable to swim to shore. She was pulled out by another individual and CPR was performed with no result. There were no PFDs onboard the canoe.

05/19/2017 DUTCHESS HUDSON RIVER Weather Canoe Capsizing 1

A canoe was traveling south west on the river with three persons onboard in rough conditions. The choppy water caused the canoe to capsize. Two individuals stayed hanging onto the canoe and were rescued by a nearby boater. The third attempted to swim to shore. He was recovered the next day. There were no PFDs onboard. There is no indication of alcohol or drugs being a factor.

04/02/2017	NASSAU	HEMPSTEAD	Other - Medical	Cabin Motorboat	Sudden Medical	1
06/03/2017	NASSAU	HARBOR	Event	Cabin Motorboat	Condition	'

A boat was discovered on the beach with a dog onboard but no operator. The cause of accident is not certain. The victim likely suffered a cardiac event leading to his falling overboard and subsequent drowning. His body was recovered several days later. The victim was not wearing a PFD. There is no indication of alcohol or drugs being a factor.

0//11/2017	CHEEOLK	LONG ISLAND	Overlanding	Variale	Linkson	1
06/11/2017	SUFFOLK	SOUND	Overloading	Kayak	Unknown	1

Two people went out in a one-person kayak with one PFD on board. The two were reported overdue when they didn't return and a search was conducted. The kayak was found overturned. One individual who was wearing the PFD was picked up by a searching vessel. The other individual was found floating thirteen days later off Duck Island in Connecticut. There is no indication of alcohol or drugs being a factor.

06/19/2017	SUFFOLK	LONG ISLAND SOUND	Unknown	Kayak	Unknown	1
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Operator left the boat ramp in Northport kayaking out into Long Island Sound. A motor vessel later found the kayak empty and a search was conducted. The operator was located floating off Stratford shoal middle ground in the middle of long island sound later that day. It is not known if a PFD was used. There is no indication of alcohol or drugs being a factor.

06/25/2017	NEW YORK	NEW YORK	Navigation Rules	Personal	Person Ejected From	1
06/25/2017	NEW TORK	HARBOR	Violation	Watercraft	Vessel	'

The operator of PWC fell off while crossing about thirty feet in front of the bow of another vessel. The operator of the other vessel turned to port attempting to avoid hitting the PWC operator in the water. The PWC operator was struck in the head with the propeller from the other vessel causing an open skull fracture, lacerations to the face and a dislocated shoulder. The PWC operator was wearing a PFD. There is no indication of alcohol or drugs being a factor.

Date	County	Waterway	Cause	Vessel	Accident Type	Fatalities
07/03/2017	HERKIMER	MOHAWK RIVER	Hazardous Waters	Pedal Boat	Person Ejected From Vessel	3

Three people launched their five-person pedal boat to head out fishing. The river was swollen from recent rains creating a strong current that easily overpowered the vessel. Where they were, the river splits into two sections. One side contains a navigational lock and the other a six to eight-foot waterfall and rapids. The vessel was swept over the falls with two persons on board. The third left the vessel in an unsuccessful attempt to swim to shore prior to going over himself. All three never resurfaced and were recovered downstream over the next several days. PFDs were not used. There is no indication of alcohol or drugs being a factor.

07/18/2017	SUFFOLK	NORTHPORT BAY	Passenger or Skier Behavior	Open Motorboat	Person Ejected From Vessel	1
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The victim was sitting on the outside inflatable hull of the vessel. The operator turned to starboard causing the victim to fall overboard. He was struck by the propeller sustaining fatal injuries to his neck, chest and thigh. Both the operator and the victim were wearing PFDs. There is no indication of alcohol or drugs being a factor.

07/21/2017 ESSEX LAKE GEORGE UNKNOWN SUP Fails Overboard 1	07/21/2017	ESSEX	LAKE GEORGE	Unknown	SUP	Falls Overboard	1
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The victim was paddle boarding out to check up on his granddaughters who had gone boating earlier that day. Several witnesses on shore stated that the victim entered the water and was bobbing in the water before going under. The victim was wearing a manually activated PFD but failed to utilize it. The cause of the accident is not known. Postmortem analysis indicates that a cardiac event may have occurred. Alcohol or drugs were not a factor.

07/22/2017	FRANKLIN	INDIAN LAKE	Other	Open Motorboat	Person Ejected From Vessel	1
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The victim and another person left the vessel to go swimming. The victim struggled nearly drowning the other swimmer before slipping under the water. His body was recovered two days later. PFDs were not used. The victim had marijuana in his system.

07/29/	2017	QUEENS	JAMAICA BAY	Unknown	Personal	Person Ejected From	1
011291	2017	QULLINS	JAMAICA DAT	UTKHOWH	Watercraft	Vessel	•

Operator of a rental PWC fell off for no known reason. He was recovered and CPR was administered but with no result. The operator had been wearing a PFD. There is no indication of alcohol or drugs being a factor.

08/10/2017	SCHUYLER	WANETA LAKE	Operator	Open Motorboat	Person Ejected From	1
08/10/2017	SCHUTLLK	WAINE IA LAKE	Inexperience	Open wotorboat	Vessel	' '

The operator of vessel rapidly decreased speed from being on plane. The sudden change ejected a passenger overboard. He was sitting in the bow seats at the time. The passenger was run over by the vessel and got entangled in the lower unit. He suffered a fatal injury to his right leg and groin area. The victim had marijuana in his system. He was not wearing a PFD.

08/10/2017	CLINTON	LAKE CHAMPLAIN	Unknown	SUP	Falls Overboard	1

Two stand up paddle boarders were out when one individual fell overboard. The other entered the water in attempt to rescue him. A nearby boater rescued one of the individuals but failed to locate the second individual after he slipped under the water. Police and fire quickly located him in 8-10 feet of water off a dock. Attempts to resuscitate had no result. PFDs were attached to each SUP but were not worn. There is no indication of alcohol or drugs being a factor.

08/12/2017	QUEENS	ROCKAWAY	Alcohol Use	Open Motorboat	Falls Overboard	1
06/12/2017	QUEENS	POINT INLET	Alcohol ose	Open wotorboat	raiis Overboaru	'

The police responded to a call about a man in the water close to a drifting boat. The man had fallen overboard while significantly intoxicated. His leg/foot got caught on a removable bait table on the port side of the vessel forcing his head to be submerged. Resuscitation attempts had no result. The victim had also suffered significant blunt force trauma to the head in addition to drowning. He had been wearing a PFD and had a BAC of 0.22.

Date	County	Waterway	Cause	Vessel	Accident Type	Fatalities
08/23/2017	ST. LAWRENCE	BLACK LAKE	Unknown	Rowboat	Capsizing	2

Two individuals were out fishing when they discovered a small aluminum rowboat floating upside down with two straw hats next to it. They contacted the police and were told to wait for their arrival. In the mean time they decided to continue fishing. One of them snagged the body of one of the two missing individuals. The second missing individual was recovered two days later. It is not known what caused the individuals to enter the water. PFDs were not used. There is no indication of alcohol or drugs being a factor.

08/23/2017 MADISON ONEIDA LAKE Weather Kayak Capsizing	08/23/2017
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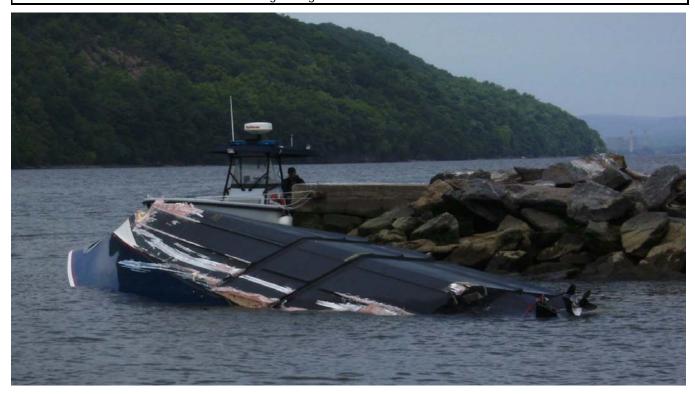
A kayaker was attempting to complete a six-week journey from one end of the state to the other along the Erie Canal system. Part of the canal system runs through Oneida Lake where he experienced high winds from a storm. His kayak was found washed up on shore containing all his belongings and a search was initiated. His body was located several hours later wearing a PFD. There is no indication of alcohol or drugs being a factor.

09/04/2017	NIAGARA	LAKE ONTARIO	Weather	Kayak	Capsizing	1
				,	, ,	

Three people went out paddling on separate kayaks into the lake that morning until they could no longer see land. At some point, one of the kayaks began to take on water and forced the operator to enter the water. The second Kayaker assisted the person in the water and the third left the other two to get help. The second kayak soon began to take on water forcing both individuals to remain in the water. Those two safely swam/drifted to shore with the aid of their PFDs arriving after night fall. They were finally able to contact emergency services after two hours of walking. The third kayaker who left the group never made it to shore and was found deceased in the water hours later. He was wearing a PFD as well. None of the kayaks were recovered. There is no indication of alcohol or drugs being a factor.

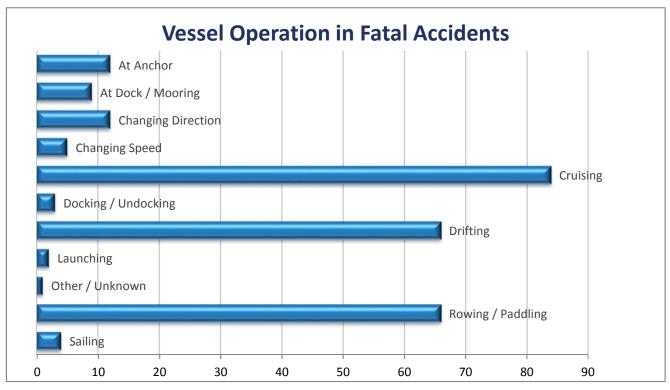
09/23/2017	OSWEGO	LAKE ONTARIO	Weather	Cabin Motorboat	Flooding/Swamping	1 1

A boat with three persons on board was overtaken by a wave in rough weather, capsized and subsequently sank. Two individuals on board abandoned the vessel grabbing their PFDs prior to it capsizing. They floated until rescue with the aid of their PFDs and a cooler. The third remained on board and was found in the cuddy cabin of the vessel after it sunk to the bottom. There is no indication of alcohol or drugs being a factor.



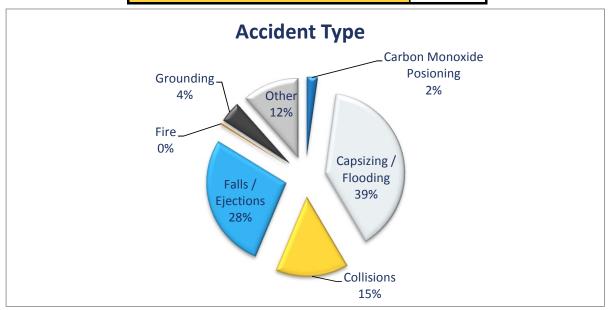
Vessel Operation in Fatal Boating Accidents 2005-2017

Operation	Fatalities
At Anchor	12
Changing Direction	6
Changing Speed	4
Changing Speed, Changing Direction	1
Cruising	79
Cruising, Changing Direction	5
Docking/Undocking	3
Drifting	65
Drifting, Launching	1
Launching	2
Other	1
Rowing or Paddling	66
Sailing	4
Tied to Dock/Mooring	9
Unknown	19



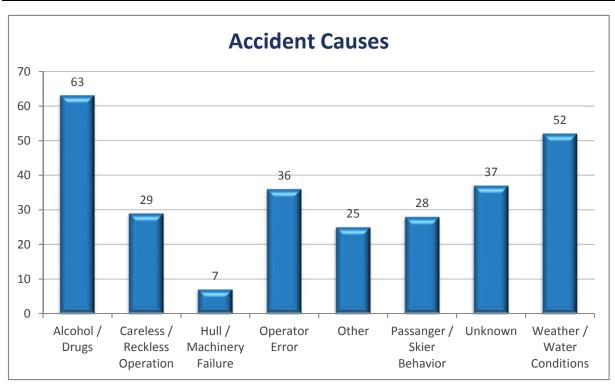
Fatal Accident Type 2005-2017

Accident Type	Fatalities
Capsizing	90
Carbon Monoxide Poisoning	6
Collision With Fixed Object	23
Collision With Floating Object	3
Collision With Vessel	10
Collision With Recreational Boat	5
Falls Onboard Boat	2
Falls Overboard	41
Fire/Explosion (Fuel)	1
Flooding/Swamping	14
Grounding	12
Other	3
Person Ejected From Vessel	33
Sinking	5
Skier Mishap	6
Struck by Boat	3
Struck by Propeller	3
Struck Submerged Object	2
Sudden Medical Condition	3
Unknown	12

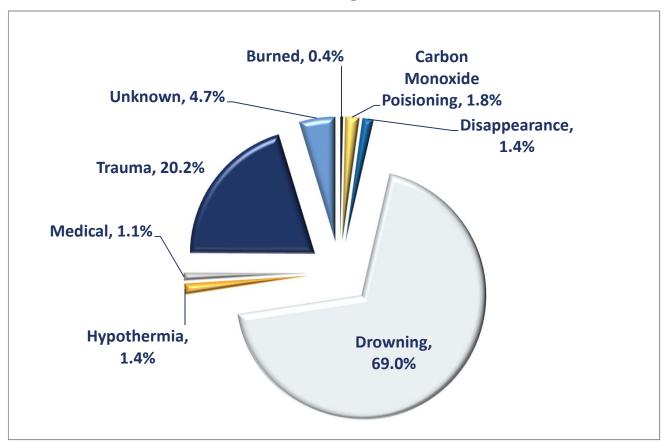


Fatal Accidents Causes 2005-2017

Accident Causes	Fatalities	Accident Causes	Fatalities
Alcohol Use	56	Operator Inattention	8
Careless/Reckless Operation	4	Operator Inexperience	10
Dam/Lock	2	Other	12
Drug Use	7	Overloading	10
Excessive Speed	11	Passenger or Skier Behavior	24
Hazardous Waters	30	Poor Visibility	1
Ignition of Spilled Fuel or Vapor	1	Sharp Turn	3
Improper Anchoring	4	Standing/Sitting on Gunwales	4
Improper Loading	5	Unknown	37
Lack of / Improper Boat Lights	2	Vessel Hull Failure	1
Machinery Failure	6	Wake	3
No Proper Lookout	14	Weather	21
Navigation Rule Violation	1		



Cause of Fatality 2005-2017

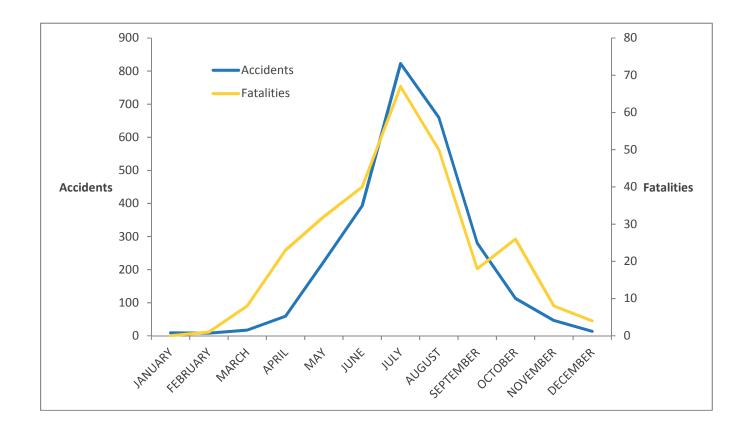


Cause of Fatality	Fatalities
Burned	1
Carbon Monoxide Poisioning	5
Disappearance	4
Drowning	191
Hypothermia	4
Medical	3
Trauma	56
Unknown	13

Accident Occurrence by Month 2005-2017

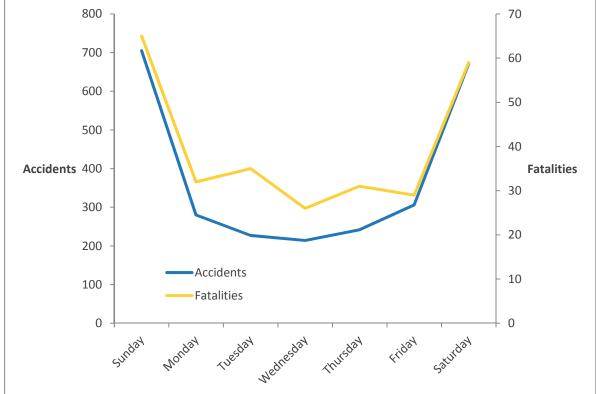
Month	Accidents	Fatalities
JANUARY	9	0
FEBRUARY	8	1
MARCH	17	8
APRIL	59	23
MAY	224	32
JUNE	393	40
JULY	823	67
AUGUST	660	50
SEPTEMBER	280	18
OCTOBER	113	26
NOVEMBER	46	8
DECEMBER	13	4





Accident Occurrence by Day 2005-2017

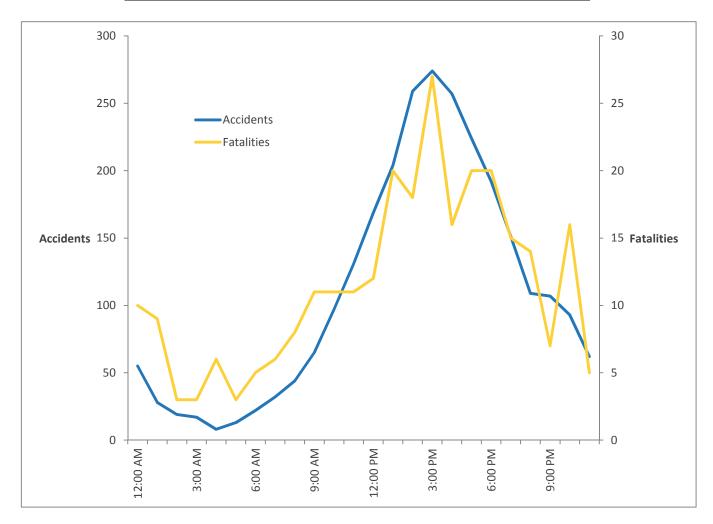
DAY	Accidents	Fatalities
Sunday	705	65
Monday	280	32
Tuesday	227	35
Wednesday	214	26
Thursday	242	31
Friday	306	29
Saturday	671	59





Accident Occurrence by Time 2005-2017

	AM			PM	
Time	Accidents	Fatalities	Time	Accidents	Fatalities
12 to 1	55	10	12 to 1	169	12
1 to 2	28	9	1 to 2	204	20
2 to 3	19	3	2 to 3	259	18
3 to 4	17	3	3 to 4	274	27
4 to 5	8	6	4 to 5	257	16
5 to 6	13	3	5 to 6	224	20
6 to 7	22	5	6 to 7	192	20
7 to 8	32	6	7 to 8	151	15
8 to 9	44	8	8 to 9	109	14
9 to 10	65	11	9 to 10	107	7
10 to 11	97	11	10 to 11	93	16
11 to 12	131	11	11 to 12	62	5

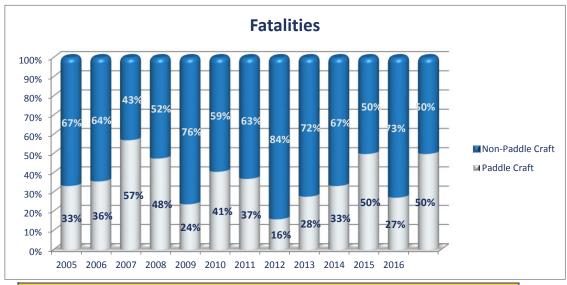


Paddle Craft Accidents 2005-2017

Year	Paddle Craft	Injuries	Fatals
2005	8	4	5
2006	6	0	5
2007	16	4	12
2008	11	10	10
2009	8	3	5
2010	17	8	11
2011	15	10	10
2012	10	8	4
2013	13	9	5
2014	15	8	9
2015	19	8	8
2016	16	16	6
2017	19	10	11

Paddlecraft: Rowboats, Canoes, Kayaks, Paddleboards and Crew Shells





Paddle Craft represent **7.0**% of the total vessels involved in accidents. They however contribute to **50**% of all fatalities.

PWC Accidents

Year	# of PWC	Injuries	Fatalities
1992	31	1	21
1993	45	32	1
1994	53	33	3
1995	117	48	3
1996	140	62	2
1997	121	65	6
1998	137	66	3
1999	117	70	4
2000	85	35	1
2001	81	43	0
2002	89	47	2
2003	69	37	1
2004	32	17	1
2005	38	29	3
2006	19	16	1
2007	31	18	1
2008	27	21	0
2009	20	14	3
2010	46	25	1
2011	43	25	0
2012	51	25	3
2013	40	26	3
2014	23	16	1
2015	28	20	0
2016	66	43	0
2017	28	15	2



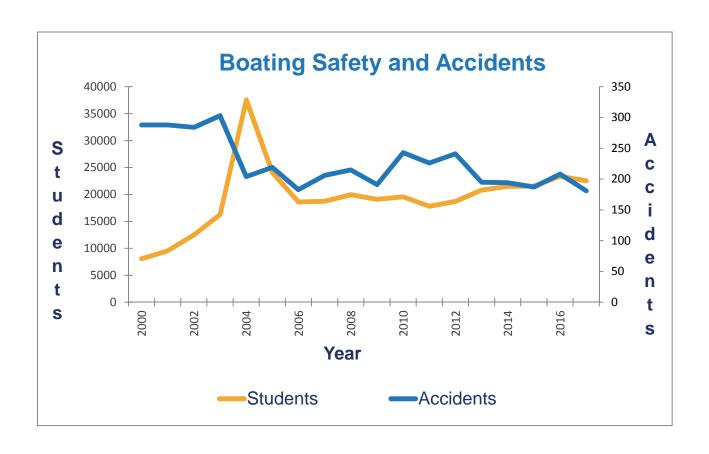
^{*} Mandatory education for PWC operators begins

Percentage of PWC Vessels Involved in Accidents



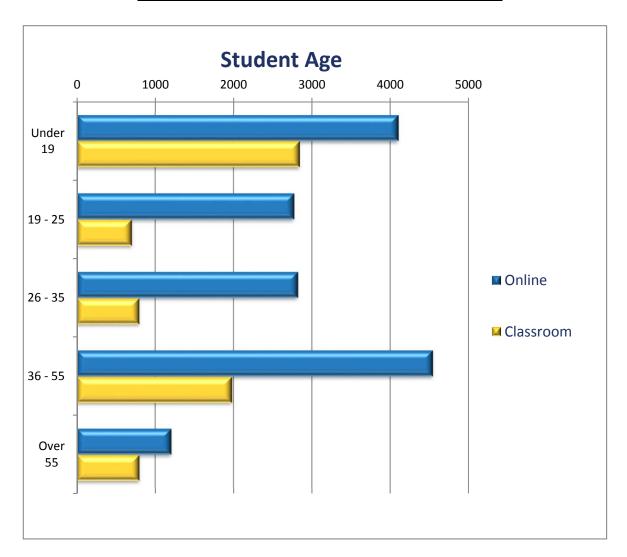
Boating Safety Education History

Year	Students	Classroom Students	Online Students	Accidents
2000	8076	8076	XXX	288
2001	9558	9558	XXX	288
2002	12512	12512	XXX	284
2003	16260	16260	XXX	303
2004	37560	37560	XXX	204
2005	24044	24044	XXX	219
2006	18624	18624	XXX	183
2007	18738	18738	XXX	206
2008	19967	19967	XXX	215
2009	19093	19093	XXX	191
2010	19567	19567	XXX	243
2011	17826	17826	XXX	226
2012	18705	18705	XXX	241
2013	20806	20806	XXX	195
2014	21507	21507	XXX	194
2015	21559	12655	8904	187
2016	23373	8332	15041	208
2017	22540	7111	15429	181



Student Age

Age Group	Online	Classroom
Under 19	4101	2843
19 - 25	2766	700
26 - 35	2814	795
36 - 55	4546	1977
Over 55	1202	796



Five to Keep You Alive



WearItNewYork.com to find a boating safety course and more information.

parks.ny.gov for information on where to boat in NYS Parks.