

Parks, Recreation and Historic Preservation



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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 nearly 450,000 registered powerboats and roughly another 300,000 non-powered watercraft, New York ranks 8th in the nation for registered boats. In fact, New York has almost as many registered watercraft as all of New England. Clearly, recreational boating is large piece of the economy in the Empire State.

Each year the states report all recreational boating accidents, occurring in that state, to the US Coast Guard. In the Coast Guard's 2013 report, New York accounted for 3.2% of all reported boating deaths. However each state's fatality rate, when considered against the number of registered boats in that state, is generally a better barometer of boating safety. In 2013, the USCG reported New York's fatality rate as 3.9 deaths / 100,000 registered watercraft, putting New York 21st in the nation compared with other



states. However, this does not tell the entire story. In examining the reports, we know that a multitude of factors are involved in boating deaths. For instance, we now know from a recent Coast Guard survey that the northeast has a larger percentage of paddle craft than the rest of the country. Closer scrutiny reveals that states like New York also have a far higher percentage paddle craft deaths than

the national average. When you separate out the deaths involving non-mechanically propelled watercraft, it reduces the fatality rate to 2.4 deaths / 100,000 registered

watercraft in 2013. This is a number significantly lower than the national average of 3.5.

Since 1980, recreational boating deaths in New York State have declined 56% while registered watercrafts have increased 41%. So how might boating accidents he further reduced? New York has long recognized and stressed the importance educating boaters, beginning as early as 1959 when the boater education course for youths, known at the time as "Make Sure, Shore" Make was instituted. That then program was expanded to include all personal watercraft operators and then boaters born after May 1, 1996.



Presently, New York ranks 4th in the nation for students receiving classroom delivered courses of instruction and 7th in the overall number of students receiving boating safety training. Nearly 20,000 students take the NASBLA approved New York Safe Boating course each year, with more than 283,000 students completing the course since the year 2000.

What causes recreational boating accidents on the water and what has the accident data told us? Clearly the leading cause of boating deaths is drowning. The Coast Guard has suggested that nearly 80% of all boating fatalities nationally might have been prevented if the victims had simply been wearing a PFD.

More importantly, we also know how deadly unexpected cold water immersion can be in both the early and late boating seasons. There are fewer reported accidents during the cold weather months, but a higher percentage of them result in a fatality. Recent information reveals that cold water immersion can overcome a victim significantly faster than the effects of hypothermia. This is because the physiology of cold water immersion involves uncontrollable physical reactions such as a gasp reflex, hyperventilation, unconsciousness, elevated heart rate and vasodilation. 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 the vast majority of boating deaths (80%) 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.

Alcohol and drug use are another significant cause of fatal boating accidents in New York. Between 2005 and 2014 alcohol and drug use was found to be a primary contributing factor in 52 (24%)of fatalities boating deaths. In 2014 alcohol or drugs are known to have been present in 11 of the 27 fatalities (41%).These substances can impair both judgment and reaction time. In summary, we may now better understand that by taking some simple proactive steps, we can reasonably assure a safe day on

The New York State Office of Parks, Recreation, and Historic Preservation (OPRHP) has been charged with the responsibility of providing the public with a safe and enjoyable boating environment. It is the state's goal to develop safe boating habits through education combined with enforcement of the Navigation Law.

forget to bring a cellphone or marine radio, in the event you need to summon

and wear a PFD when conditions require. Never mix alcohol and boating since, along with the environmental stressors associated with being on the water, 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 safe boating class. Always equip your boat with the required safety equipment, file a float plan and don't

the water. First, always assess the risks

Law Enforcement Activity

Law	Total	Total	Searches			
Enforcement	Vessel	MLE	and	Total Vessel	BWI	Total
Agency	Hours	Hours	Assists	Inspections	Arrests	Arrests
County	Hours	Hours	ASSISES			
ALLEGANY	461	1276	10	54	0	4
CATTAURAUGUS	389	751	23	83	0	3
CAYUGA	1342	3144	24	41	0	17
CHAUTAUQUA	2166	4366	246	2536	3	48
CHENANGO	44	75	3	0	0	0
CLINTON	609	3104	19	168	2	43
COLUMBIA	297	826	18	30	0	10
DUTCHESS	430	1080	19	28	0	0
ERIE	2235	44770	70	67	7	198
ESSEX	194	387	4	32	0	0
GREENE	346	1158	28	19	0	1
HAMILTON	1523	1960	29	187	0	31
HERKIMER	370	584	13	8	0	0
LEWIS	100	285	0	22	0	9
LIVINGSTON	2400	4551	59	12	2	18
MADISON	31	154	1	0	0	0
MONROE	829	4791	249	167	5	109
NASSAU	14662	36894	132	247	1	480
NIAGARA	709	2728	21	349	0	43
ONEIDA ONONDAGA	745 936	2447 2678	36 24	4 200	2 11	47 46
ONONDAGA	936	2078	20	200	0	26
ORANGE	653	1037	14	33	0	8
ORLEANS	898	3321	38	243	0	3
OSWEGO	458	2569	12	33	0	3
OTSEGO	138	337	4	6	0	8
PUTNAM	828	1205	35	93	0	9
ROCKLAND	800	3991	133	69	0	19
ST. LAWRENCE	38	101	0	56	0	0
SARATOGA	325	471	21	223	1	46
SCHUYLER	55	146	3	93	3	13
SENECA	575	1149	13	70	0	4
STEUBEN	118	1563	8	121	0	7
SUFFOLK	5400	148000	309	312	6	317
SULLIVAN	54	54	0	0	0	11
TOMPKINS	74	152	5	0	0	0
ULSTER	520	1040	118	226	0	33
WARREN	764	1513	72	63	0	0
WAYNE	356	2525	49	17	0	9
WESTCHESTER	1312	5120	118	211	4	57
WYOMING	163	172	7	1	0	0
YATES NEW YORK CITY	122900	2479	41 205	4396 1676	0	53
NEW TURK CITY	123800	303400	305	1676	1	383

Law Enforcement Agency	Total Vessel Hours	Total MLE Hours	Searches and Assists	Total Vessel Inspections	BWI Arrests	Total Arrests
Municipalities						
ASHAROKEN	197	233	7	10	0	4
BABYLON	1680	2010	8	78	0	48
EAST HAMPTON	491	9080	66	127	5	55
EVANS	88	248	6	17	0	3
GLEN COVE	784	2330	168	12	0	10
HAMBURG	115	242	6	12	0	4
HEMPSTEAD	2408	17360	107	190	1	75
HUNTINGTON	2300	6200	127	205	0	474
MAMARONECK	1960	3880	50	251	4	81
NEW ROCHELLE	1864	5716	71	145	0	86
NORTH HEMPSTEAD	2408	17360	107	190	1	75
NORTHPORT	723	723	9	35	0	0
OSSINING	192	384	4	2	0	0
OYSTER BAY	XXX	270 4 0	0	250	0	207
QUOGUE	381	508	8	117	1	48
RIVERHEAD	550	2400	12	111	2	37
RYE	333	3037	19	78	0	42
SMITHTOWN	4036	10151	104	224	0	264
SOUTHAMPTON	1249	9800	64	315	0	259
SOUTHOLD	700	6250	33	791	2	206
Other Agencies						
STATE PARK POLICE	XXX	3959	67	56	10	152
STATE POLICE	2285	2529	5	234	6	34
LAKE GEORGE PARK COMMISSION	4530	6293	424	484	4	147
Totals	199221	738289	3825	16335	84	4427



2014 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	8859	22	3483	4766	542	32	14
ALLEGANY	1866	5	767	1074	19	0	1
BRONX	2285	5	811	1000	413	39	17
BROOME	6771	18	3124	3321	285	14	9
CATTARAUGUS	2829	6	1085	1647	83	3	5
CAYUGA	5262	18	1956	3026	252	10	0
CHAUTAUQUA	6312	26	2157	3773	337	17	2
CHEMUNG	4032	2	1653	2176	191	10	0
CHENANGO	2242	0	1230	956	50	5	1
CLINTON	5737	13	2737	2730	245	9	3
COLUMBIA	2824	4	1223	1490	98	8	1
CORTLAND	2147	7	975	1108	53	3	1
DELAWARE	1202	0	603	556	42	0	1
DUTCHESS	6453	10	2836	3018	549	35	5
ERIE	24189	64	8379	13367	2182	181	16
ESSEX	4437	10	1913	2385	120	6	3
FRANKLIN	4273	2	2205	2011	50	0	5
FULTON	4329	9	1939	2198	179	4	0
GENESEE	2170	4	865	1229	62	7	3
GREENE	2289	5	895	1210	168	9	2
HAMILTON	1939	7	929	983	17	2	1
HERKIMER	3502	13	1583	1828	75	2	1
JEFFERSON	10962	57	4456	5713	698	34	4
KINGS	4319	1	1582	1661	928	116	31
LEWIS	2195	1	1149	1015	29	1	0
LIVINGSTON	3819	10	1631	2096	74	6	2
MADISON	4278	7	1754	2328	181	6	2
MONROE	26881	70	10693	14272	1716	115	15
MONTGOMERY	1919	11	861	981	64	1	1
NASSAU	29000	69	8939	13663	5607	674	48
NEW YORK	4531	3	1259	1958	1096	189	26
NIAGARA	8262	35	2889	4652	650	28	8

County	Total	Uncoded	Class A <16'	Class 1 16-25'	Class 2 26-39'	Class 3 40-64'	Class 4 >= 65'
ONEIDA	10918	35	4587	5879	401	16	0
ONONDAGA	20956	51	8161	11401	1243	93	7
ONTARIO	7449	18	2533	4601	276	20	1
ORANGE	8488	25	4108	3744	554	46	11
ORLEANS	2010	1	870	1031	104	4	0
OSWEGO	8882	14	3960	4417	473	16	2
OTSEGO	2432	4	1076	1299	47	5	1
PUTNAM	2918	7	1129	1528	226	25	3
QUEENS	6224	12	2255	2859	988	75	35
RENSSELAER	5709	5	2454	2954	273	22	1
RICHMOND	3679	9	1292	1606	693	68	11
ROCKLAND	4101	10	1894	1518	600	63	16
ST LAWRENCE	10290	16	4796	5182	280	12	4
SARATOGA	13123	16	4960	7434	679	30	4
SCHENECTADY	5658	15	2391	2947	285	16	4
SCHOHARIE	1079	0	522	514	40	2	1
SCHUYLER	1597	5	598	913	78	2	1
SENECA	2739	3	1007	1563	153	11	2
STEUBEN	5033	3	1932	2960	135	2	1
SUFFOLK	64026	228	18620	32620	11317	1186	55
SULLIVAN	3019	2	1525	1397	84	6	5
TIOGA	2289	3	1058	1148	78	1	1
TOMPKINS	3450	5	1156	2032	234	23	0
ULSTER	5179	7	2283	2436	422	28	3
WARREN	7113	37	2283	4287	488	9	9
WASHINGTON	3330	12	1439	1766	110	3	0
WAYNE	6602	19	2609	3570	378	25	1
WESTCHESTER	11442	20	3659	5186	2206	325	46
WYOMING	1672	1	597	1043	25	5	1
YATES	2486	4	819	1605	55	1	2
Out of State	13481	0	4778	7418	1136	138	11
TOTAL	449489	1101	169912	233049	41116	3844	467

Registered Vessels: By Length and Hull Material

Registe		JOCIOI D				
< 16 FT	O/B	I/B	I/O	SAIL	OTHER	TOTAL
WOOD	1791	84	8	22	27	1932
METAL	33580	42	55	2	599	34278
PLASTIC	7348	2382	151	35	999	10915
FIBERGLASS	19335	47797	3356	420	4467	75375
INFLATABLE	9620	51	89	8	340	10108
STEEL	641	16	8	0	46	711
ALUMINUM	31632	134	162	11	1876	33815
OTHER	1942	566	40	3	227	2778
TOTAL	105889	51072	3869	501	8581	169912
16-25 FT	O/B	I/B	I/O	SAIL	OTHER	TOTAL
WOOD	1251	1926	120	45	23	3365
METAL	18821	158	1078	0	48	20105
PLASTIC	3221	574	850	109	91	4845
FIBERGLASS	65361	12689	80667	2952	841	162510
INFLATABLE	189	8	6	2	1	206
STEEL	556	26	29	0	7	618
ALUMINUM	38807	192	1149	5	178	40331
OTHER	948	32	42	12	33	1067
TOTAL	129154	15605	83941	3125	1222	233047
26-39 ft				SAIL	OTHER	TOTAL
	O/B	I/B	I/O			
WOOD	59	794	20	29	6	908
METAL	220	113	37	3	5	378
PLASTIC	76	367	133	63	3	642
FIBERGLASS	4999	15020	15707	2309	156	38191
INFLATABLE	3	3	2	0	0	8
STEEL	25	45	10	1	6	87
ALUMINUM	610	109	124	5	3	851
OTHER	16	22	5	4	4	51
TOTAL	6008	16473	16038	2414	183	41116
40-64 FT	O/B	I/B	I/O	SAIL	OTHER	TOTAL
WOOD	1	106	2	8	0	117
METAL	3	21	12	1	1	38
PLASTIC	1	44	2	12	0	59
FIBERGLASS	57	2985	238	247	13	3540
INFLATABLE	0	0	0	0	0	0
STEEL	3	28	5	3	2	41
ALUMINUM	12	18	6	2	1	39
OTHER	1	6	0	0	3	10
TOTAL	78	3208	265	273	20	3844
>65 FT	O/B	I/B	I/O	SAIL	OTHER	TOTAL
WOOD	1	4	1	0	0	6
METAL	12	4	2	0	2	20
PLASTIC	17	3	1	0	0	21
FIBERGLASS	85	146	66	3	23	323
INFLATABLE	23	0	0	0	1	24
STEEL	5	8	1	0	1	15
ALUMINUM	50	3	1	0	1	55
OTHER	0	1	0	0	2	3
TOTAL	193	169	72	3	30	467
Uncoded	O/B	I/B	I/O	SAIL	OTHER	TOTAL
TOTAL		1/D 3	1/O 2	1092		1101AL 1101
IUIAL	4			1092	0	1101

ACCIDENTS

The chart below illustrates registration and accident figures for the years 1970 through 2014. 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.

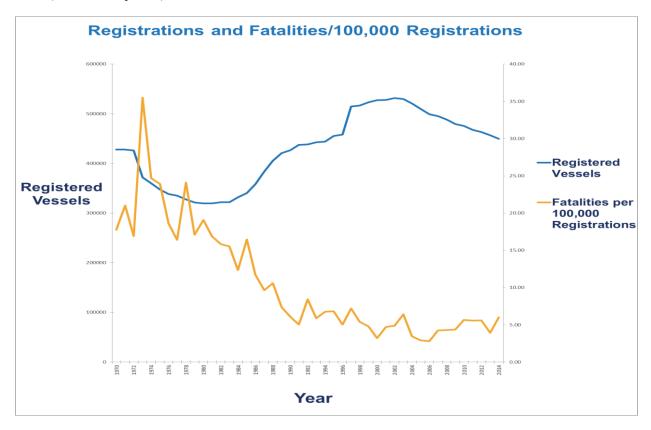
A reduction of collisions and fatalities can also be achieved by showing courtesy to other boaters. Boating education classes are also important, but boaters must be willing to apply what they have learned. Tougher laws are making it possible to remove dangerous boaters from our waterways. Education 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 use of life jackets, 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 life jacket. While legislation mandates that life jackets be worn in those instances, it is still incumbent upon the boater to use their best judgment; if the water is cold, wear a life jacket, and dress for the weather!



Accident Data: 1970 - 2014

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



Accidents by County and Waterway

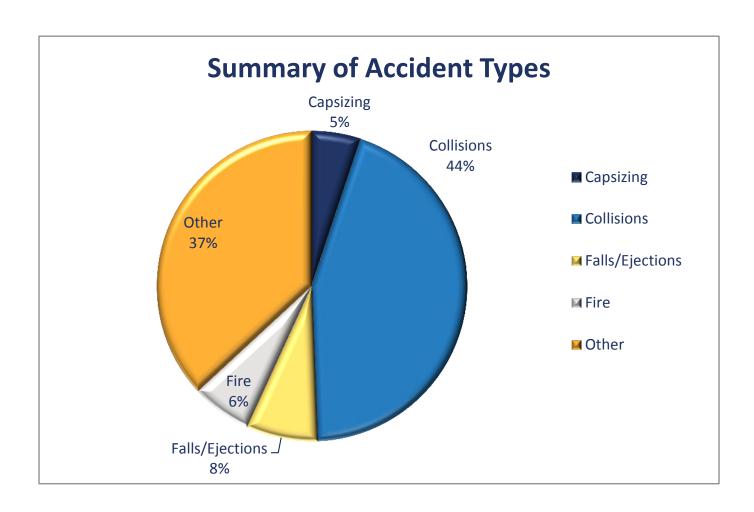
Accidents by coun	cy dilla	77414	7
County / Waterway	Accidents	Injures	Fatalities
Bronx	4	1	2
EASTCHESTER BAY	2	1	1
LONG ISLAND SOUND	2	0	1
Cayuga	2	2	0
OWASCO LAKE	1	2	0
SENECA RIVER	1	0	0
Chautauqua	4	3	1
CATTARAUGUS CREEK	1	0	0
CHATAUQUA LAKE	2	2	1
CHAUTAUQUA LAKE	1	1	0
Chemung	1	0	1
West Branch Delaware River	1	0	1
Clinton	1	2	0
LAKE CHAMPLAIN	1	2	0
Columbia	1	1	0
HUDSON RIVER	1	1	0
Erie	4	3	0
Niagara River	4	3	0
Fulton	1	1	0
SACANDAGA RESEVOIR	1	1	0
Greene	2	0	0
HUDSON RIVER	2	0	0
Hamilton	2	1	0
5th Lake Canal	1	0	0
BLUE MOUNTAIN LAKE	1	1	0
Herkimer	1	0	1
ERIE BARGE CANAL	1	0	1
Jefferson	6	3	1
BLACK RIVER	1	1	1
LAKE ONTARIO	2	0	0
ST. LAWRENCE RIVER	3	2	0
<u>Kings</u>	2	1	1
GRAVESEND BAY	1	1	0
SHELL BANK CREEK	1	0	1
Livingston	3	0	0
CONESUS LAKE	3	0	0
Monroe	7	11	1
GENESEE RIVER	1	0	0
HONEOYE CREEK	1	0	1
IRONDEQUOIT BAY	1	3	0
IRONDEQUOIT CREEK	1	0	0
LAKE ONTARIO	3	8	0

County / Waterway	Accidents	Injures	Fatalities
Nassau	24	11	4
ATLANTIC OCEAN	2	3	0
BALDWIN BAY	1	0	1
EAST ROCKAWAY CHANNEL	1	0	0
GREAT SAND CREEK	1	0	0
HEMPSTEAD BAY	1	1	0
HEMPSTEAD HARBOR	3	1	0
HEWLETT BAY	1	0	0
HIGH FLATS DRAIN	1	1	0
LONG CREEK	2	1	1
LONG ISLAND SOUND	3	0	1
MANHASSET BAY	1	0	1
OYSTER BAY	2	1	0
REYNOLDS CHANNEL	1	2	0
SEAFORD CREEK	1	1	0
SLOOP CHANNEL	1	0	0
STATE BOAT CHANNEL	1	0	0
TIDEWAY RIVER	1	0	0
New York	5	1	0
EAST RIVER	3	1	0
HUDSON RIVER	1	0	0
UPPER BAY	1	0	0
Niagara	4	0	2
LAKE ONTARIO	3	0	2
UPPER NIAGARA RIVER	1	0	0
Oneida	3	1	1
DELTA LAKE	1	1	1
KAYUTA LAKE	1	0	0
oneida lake	1	0	0
Onondaga	5	2	2
oneida lake	3	2	0
OTISCO LAKE	1	0	1
SENECA RIVER	1	0	1
Ontario	1	1	0
Canandaigua lake	1	1	0
Oswego	4	4	0
LAKE ONTARIO	1	2	0
oneida lake	1	0	0
OSWEGO RIVER	1	0	0
SANDY POND	1	2	0
Putnam	3	0	1
CROTON FALLS RESERVOIR	1	0	1
LAKE MAHOPAC	2	0	0
Queens	7	9	0
EAST RIVER	2	2	0
JAMAICA BAY	4	6	0
SHELL BANK BASIN	1	1	0

County / Waterway	Accidents	Injures	Fatalities
Richmond	2	8	1
GREAT KILLS	1	7	0
RARITAN BAY	1	1	1
Rockland	1	0	0
HUDSON RIVER	1	0	0
Saratoga	3	0	2
FISH CREEK	1	0	0
SACANDAGA RESEVOIR	1	0	1
STEWARTS POND	1	0	1
Schuyler	2	2	0
SENECA LAKE	2	2	0
Seneca	3	1	0
CAYUGA LAKE	1	1	0
SENECA LAKE	2	0	0
St Lawrence	1	2	0
ST. LAWRENCE RIVER	1	2	0
Steuben	1	1	0
KEUKA LAKE	1	1	0
Suffolk	47	18	3
ATLANTIC OCEAN	4	0	0
BLOCK ISLAND SOUND	1	1	0
GARDINER'S BAY	3	1	0
GREAT PECONIC BAY	1	1	0
GREAT SOUTH BAY	8	3	0
HUNTINGTON HARBOR	2	0	0
LAKE RONKONKOMA	1	0	1
LITTLE PECONIC BAY	3	1	0
LONG ISLAND SOUND	5	1	1
MONTAUK HARBOR	1	0	0
MORICHES BAY	1	0	0
NAPEAGUE BAY	1	1	0
Napeague Harbor	1	0	1
NISSEQUOGUE RIVER	2	4	0
PECONIC BAY	3	1	0
PECONIC RIVER	1	0	0
QUOGUE CANAL	1	0	0
SAG HARBOR BAY	2	0	0
SHELTER ISLAND SOUND	1	2	0
SHINNECOCK BAY	3	2	0
STRONGS CANAL	1	0	0
WEST SHINNECOCK BAY	1	0	0
Sullivan UDDED DELAWARE DIVER	1	0	1
UPPER DELAWARE RIVER	1	0	1
Tompkins	1	0	0
Cayuga lake	1	0	0
<u>Ulster</u>	2	3	0
HUDSON RIVER	2	3	0

County / Waterway	Accidents	Injures	Fatalities
Warren	19	5	2
BRANT LAKE	1	0	0
LAKE GEORGE	17	4	2
SCHROON LAKE	1	1	0
Wayne	5	2	0
ERIE BARGE CANAL	1	0	0
LAKE ONTARIO	1	0	0
SODUS BAY	3	2	0
Westchester	7	0	0
HUDSON RIVER	1	0	0
LONG ISLAND SOUND	6	0	0
Yates	2	3	0
KEUKA LAKE	1	1	0
SENECA LAKE	1	2	0

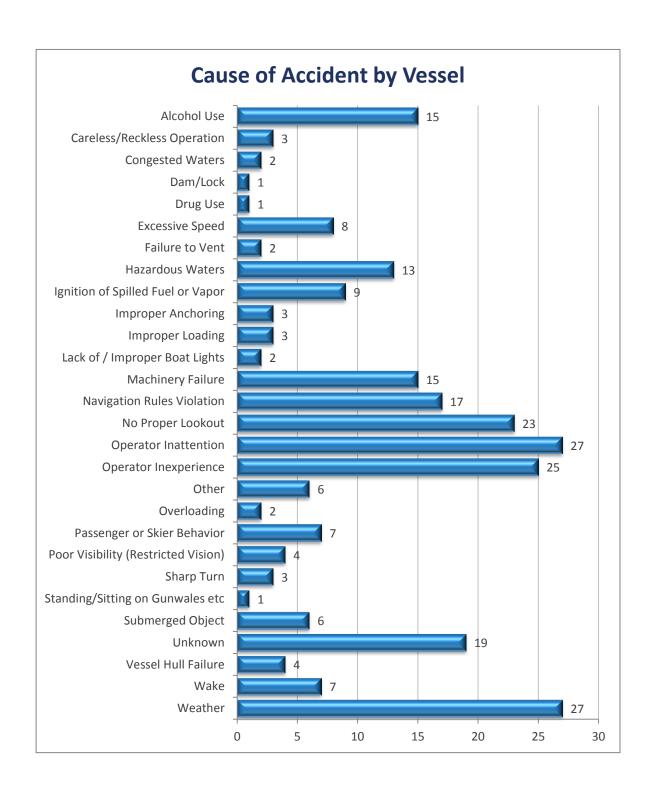




Accident Type and Vessel Operation

Accident Type	Operation	Vessels	Injuries	Fatalities
	Cruising	2	4	0
Cancizing	Drifting	3	2	1
Capsizing	Rowing or Paddling	5	4	3
	Sailing	3	0	1
Carbon Monoxide Poisoning	Cruising	1	2	0
	Cruising	13	20	0
	Docking/Undocking	1	1	0
Collision With Fixed	Drifting	1	0	0
Object	Other	1	0	0
	Rowing or Paddling	2	0	2
	Tied to Dock/Mooring	2	0	0
Collision With Floating	Changing Speed	1	2	0
Object	Cruising	2	1	0
	Being Towed	2	0	0
	Changing Direction	7	2	0
	Changing Speed	3	1	0
	Changing Speed, Tied to Dock/Mooring	1	1	0
	Cruising	22	3	0
Callinian With	Cruising, Changing Direction	2	0	0
Collision With	Docking/Undocking	10	0	0
Recreational Boat	Drifting S	8	3	0
	Other	1	0	0
	Sailing	6	0	0
	Sailing, Changing Direction	1	0	0
	Tied to Dock/Mooring	23	1	0
	Towing another vessel	3	0	0
	Unknown	1	0	0
Fall Onboard Boat	Cruising	4	3	0
Falls Into Boat	Docking/Undocking	1	1	0
	Changing Direction	2	2	0
Falls Occupand	Cruising	1	2	0
Falls Overboard	Docking/Undocking	1	0	1
	Drifting State of the state of	2	0	2
Fire/Explosion (Fuel)	At Anchor	1	0	0
	Changing Speed	1	1	0
	Cruising	1	0	0
	Tied to Dock/Mooring	5	3	1
F: /F / (01)	Cruising	2	0	0
Fire/Explosion (Other)	Tied to Dock/Mooring	6	0	0

Accident Type	Operation	Vessels	Injuries	Fatalities
	At Anchor	3	1	1
	Being Towed	1	0	0
	Changing Direction	1	0	0
	Changing Speed	1	0	0
	Cruising	12	4	2
Flooding/Swamping	Drifting	4	0	0
	Sailing	2	0	0
	Tied to Dock/Mooring	1	1	1
	Towing another vessel,	4	0	0
	Sailing	1	0	0
	Unknown	2	0	0
	Cruising	29	19	2
Grounding	Drifting	3	0	0
	Unknown	1	0	1
	Drifting	1	1	0
Other	Docking/Undocking	1	1	0
Outlet	Other	1	0	0
	At Anchor	1	1	0
	At Anchor	1	0	1
Person Leaves Or Is	Changing Speed, Changing	2	2	0
Ejected From Vessel	Cruising, Changing Direction	1	2	0
	Drifting	4	1	4
Sinking	Unknown	1	0	1
	Changing Direction	1	1	0
Skier Mishap	Cruising	1	1	0
	Unknown	2	2	0
	Docking/Undocking	2	2	0
Struck by Boat	Drifting	1	1	0
	Launching	1	1	0
	Changing Direction	1	0	0
Struck by Propeller or	Changing Speed, Changing Direction	1	0	1
Propulsion Unit	Cruising	1	1	0
.,	Drifting	1	0	0
	Unknown	1	1	0
Struck Submerged Object	Cruising	5	0	0
Sudden Medical Condition	Drifting	1	1	0
	Cruising	3	0	0
Unknown	Drifting	1	0	0
	Unknown	4	0	2



Accident Type and Cause

Accident Type	Cause	Vessels	Injures	Fatalities
	Alcohol Use	1	2	0
	Drug Use	1	0	1
	Hazardous Waters	1	2	0
Canainina	Improper Anchoring	1	1	1
Capsizing	Operator Inexperience	1	1	0
	Unknown	3	2	2
	Wake	1	2	0
	Weather	4	0	1
Carbon Monoxide Poisoning	Failure to Vent	1	2	0
	Alcohol Use	1	2	0
	Careless/Reckless Operation	1	2	0
	Dam/Lock	1	0	0
	Hazardous Waters	2	0	2
Callinian With Fixed Object	Machinery Failure	2	1	0
Collision With Fixed Object	No Proper Lookout	3	5	0
	Operator Inattention	4	5	0
	Operator Inexperience	3	5	0
	Unknown	2	1	0
	Wake	1	0	0
	Excessive Speed	1	2	0
Collision With Floating Object	No Proper Lookout	1	0	0
	Other	1	1	0
	Alcohol Use	2	0	0
	Congested Waters	2	0	0
	Excessive Speed	1	0	0
	Hazardous Waters	2	0	0
	Lack of / Improper Boat Lights	1	0	0
	Machinery Failure	3	0	0
Collision With Recreational	Navigation Rules Violation	16	4	0
Boat	No Proper Lookout	13	2	0
	Operator Inattention	9	1	0
	Operator Inexperience	5	1	0
	Poor Visibility (Restricted Vision)	1	0	0
	Unknown	23	3	0
	Wake	1	0	0
	Weather	11	0	0
	Excessive Speed	1	1	0
	Passenger or Skier Behavior	1	1	0
Fall Onboard Boat	Wake	1	0	0
	Weather	1	1	0
	Operator Inexperience	1	1	0

Accident Type	Cause	Vessels	Injures	Fatalities
	Alcohol Use	1	0	1
Falls Overboard	Passenger or Skier Behavior	2	2	0
Falls Overboard	Standing/Sitting on Gunwales etc	1	0	1
	Unknown	2	2	1
	Failure to Vent	1	1	0
	Ignition of Spilled Fuel or Vapor	4	3	1
Fire/Explosion (Fuel)	Machinery Failure	1	0	0
	OTHER-Operator Error	1	0	0
	Unknown	1	0	0
Fire/Eyplosion (Other)	Machinery Failure	1	0	0
Fire/Explosion (Other)	Unknown	7	0	0
	Hazardous Waters	2	0	0
	Improper Anchoring	2	1	1
	Improper Loading	2	1	1
	Machinery Failure	3	2	0
	Operator Inexperience	1	0	0
Flooding/Swamping	OTHER-Improper Mooring	1	1	1
	Overloading	2	0	1
	Unknown	3	0	0
	Vessel Hull Failure	4	0	0
	Wake	1	0	0
	Weather	7	1	0
	Alcohol Use	3	1	1
	Careless/Reckless Operation	1	2	0
	Hazardous Waters	3	2	0
	Machinery Failure	4	2	0
Grounding	No Proper Lookout	3	8	0
	Operator Inattention	7	1	1
	Operator Inexperience	5	0	0
	Poor Visibility (Restricted Vision)	4	2	0
	Unknown	3	1	1
	Operator Inattention	1	1	0
Other	Other	2	1	0
	Wake	1	1	0
	Alcohol Use	2	0	2
Porcon Logyas Or Is Figstad	Careless/Reckless Operation	1	1	0
Person Leaves Or Is Ejected From Vessel	Hazardous Waters	2	1	2
	Improper Loading	1	0	1
	Sharp Turn	2	3	0
Sinking	Unknown	1	0	1
	Passenger or Skier Behavior	3	3	0
Skier Mishap	Sharp Turn	1	1	0
	Operator Inattention	2	2	0
Struck by Boat	Passenger or Skier Behavior	1	1	0
	Weather	1	1	0

Accident Type	Cause	Vessels	Injures	Fatalities
	Alcohol Use	1	0	1
Struck by Propeller or	Hazardous Waters	1	0	0
Propulsion Unit	Operator Inattention	1	1	0
Propulsion Offic	Unknown	1	1	0
	Weather	1	0	0
Struck Submerged Object	Submerged Object	5	0	0
Sudden Medical Condition	Other	1	1	0
	Alcohol Use	1	0	1
Unknown	Excessive Speed	1	0	0
	Unknown	5	0	1
	Wake	1	0	0

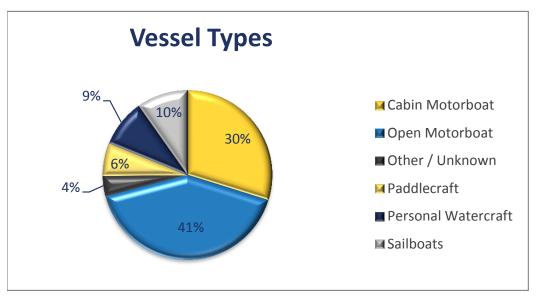


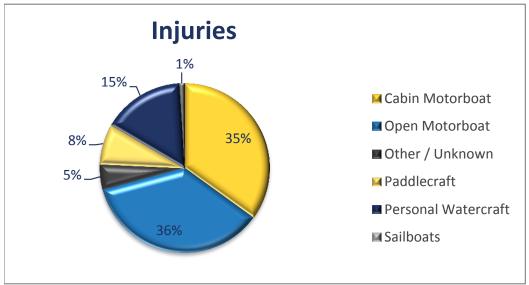
Vessel Type and Accident Type

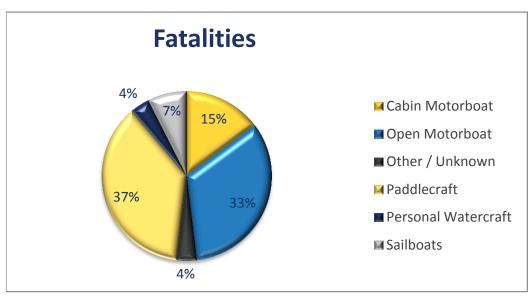
Vessel Type	Accident Type	Vessels	Injuries	Fatalities
Airboat	Flooding/Swamping	1	0	0
	Capsizing	1	0	0
	Collision With Fixed Object	1	0	0
Auxillary Sail	Collision With Recreational Boat	10	0	0
Auxilial y Sali	Flooding/Swamping	1	0	0
	Grounding	3	1	0
	Sinking	1	0	1
	Carbon Monoxide Poisoning	1	2	0
	Collision With Fixed Object	10	16	0
	Collision With Floating Object	2	3	0
	Collision With Recreational Boat	23	0	0
	Fire/Explosion (Fuel)	3	0	1
	Fire/Explosion (Other)	6	0	0
Cabin Motorboat	Flooding/Swamping	7	1	1
	Grounding	12	10	1
	Other	2	2	0
	Struck by Boat	2	2	0
	Struck by Propeller or Propulsion Unit	3	0	1
	Struck Submerged Object	4	0	0
	Unknown	1	0	0
	Capsizing	3	5	1
Canoe	Collision With Fixed Object	1	0	1
Carloc	Collision With Recreational Boat	1	0	0
	Leaves or Ejected From Vessel	1	0	1
	Capsizing	5	3	3
Kayak	Collision With Fixed Object	1	0	1
nayan	Other	1	0	0
	Leaves or Ejected From Vessel	1	0	1
Kite Board	Grounding	1	0	1
	Capsizing	1	0	0
	Collision With Fixed Object	4	4	0
	Collision With Floating Object	1	0	0
	Collision With Recreational Boat	33	5	0
	Fall on Boat	3	2	0
	Falls in Boat	1	1	0
Open Motorboat	Falls Overboard	3	2	1
- F	Fire/Explosion (Fuel)	4	3	0
	Flooding/Swamping	15	5	3
	Grounding	10	2	1
	Other	1	1	0
	Leaves or Ejected From Vessel	2	1	2
	Skier Mishap	4	4	0
	Struck by Boat	1	1	0

Vessel Type	Accident Type	Vessels	Injuries	Fatalities
	Struck by Propeller or Propulsion Unit	2	2	0
Open Motorboat	Struck Submerged Object	1	0	0
(Continued)	Sudden Medical Condition	1	1	0
	Unknown	4	0	2
	Capsizing	1	2	0
	Collision With Recreational Boat	11	3	0
	Fall on Boat	1	1	0
	Falls Overboard	2	2	1
Personal Watercraft	Fire/Explosion (Fuel)	1	1	0
	Flooding/Swamping	1	0	0
	Grounding	3	4	0
	Leaves or Ejected From Vessel	2	2	0
	Struck by Boat	1	1	0
	Collision With Fixed Object	2	0	0
Pontoon Boat	Collision With Recreational Boat	9	3	0
	Grounding	2	0	0
Raft	Leaves or Ejected From Vessel	1	0	1
Rowboat	Falls Overboard	1	0	1
	Capsizing	2	0	1
Sail (only)	Collision With Recreational Boat	3	0	0
	Flooding/Swamping	3	0	0
	Collision w/ Fixed Object	1	1	0
	Fire/Explosion (Other)	2	0	0
Unknown	Grounding	2	2	0
	Leaves or Ejected From Vessel	1	2	0
	Unknown	3	0	0



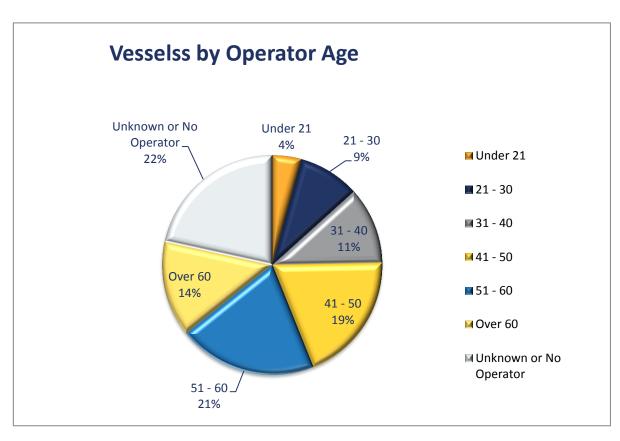






Operator Age

Age Group	Vessels	Injures	Fatalities
Under 21	11	7	0
21 - 30	23	14	5
31 - 40	29	9	5
41 - 50	49	31	4
51 - 60	52	20	6
Over 60	36	12	7
Unknown or No Operator	55	10	0



Age of Operator and Boating Education

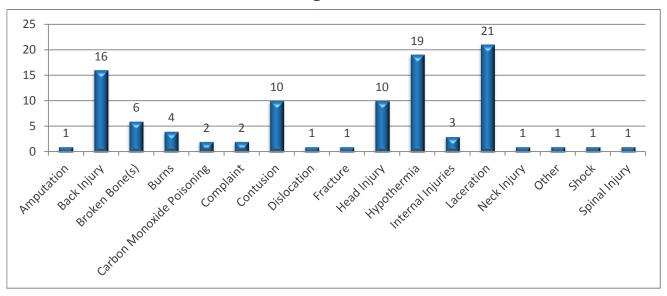
Age Group	Education	Vessels	Injuries	Fatalities
	None	1	2	0
Under 21	State Course	7	4	0
	Unknown	3	1	0
	None	11	7	1
21 - 30	State Course	1	0	0
21 - 30	Unknown	9	6	4
	US Power Squadron	2	1	0
	Internet Course	1	0	0
	None	11	5	2
31 - 40	State Course	7	0	0
	Unknown	8	3	3
	USCG Auxiliary	2	1	0
	Internet Course	2	1	1
	None	16	10	0
41 - 50	State Course	11	13	0
41 - 30	Unknown	15	6	2
	US Power Squadron	1	0	0
	USCG Auxiliary	4	1	1
	Internet Course	1	0	0
	None	17	9	0
51 - 60	State Course	12	3	1
21 - 00	Unknown	18	6	5
	US Power Squadron	1	0	0
	USCG Auxiliary	3	2	0
	None	13	3	1
	State Course	3	2	0
Over 60	Unknown	13	1	6
	US Power Squadron	3	3	0
	USCG Auxiliary	4	3	0
	None	1	0	0
Unknown	State Course	1	0	0
	Unknown	53	10	0



Age of Operator and Boating Experience

Operator Age	Experience	Vessels	Injuries	Fatalities
	Under 10 Hours	1	0	0
	10 to 100 Hours	5	2	0
Under 21	100-500 Hrs.	1	1	0
	Over 500 Hrs.	1	0	0
	Unknown	3	4	0
	Under 10 Hours	6	2	1
	10 to 100 Hours	5	5	1
21 - 30	100-500 Hrs.	6	2	0
	Over 500 Hrs.	1	1	0
	Unknown	5	4	3
	Under 10 Hours	2	1	0
	10 to 100 Hours	5	2	1
31 - 40	100-500 Hrs.	7	4	0
	Over 500 Hrs.	8	2	0
	Unknown	7	0	4
	Under 10 Hours	3	2	0
	10 to 100 Hours	9	12	0
41 - 50	100-500 Hrs.	14	10	1
	Over 500 Hrs.	17	6	1
	Unknown	6	1	2
	Under 10 Hours	1	0	0
	10 to 100 Hours	7	6	0
51 - 60	100-500 Hrs.	15	6	0
	Over 500 Hrs.	18	4	2
	Unknown	11	4	4
	Under 10 Hours	2	1	1
Over 60	10 to 100 Hours	2	0	0
	100-500 Hrs.	4	0	1
	Over 500 Hrs.	22	11	2
	Unknown	6	0	3
	Under 10 Hours	1	0	0
Unknown	10 to 100 Hours	1	0	0
O'III.IOTTI	Over 500 Hrs.	1	10	0
	Unknown	52	10	0

Injuries



Type of Injury, Type of Vessel

Vessel	Injury Type	Injuries	Vessel	Injury Type	Injuries
Auxillary Sail	Back Injury	1		Contusion	5
	Amputation	1		Head Injury	3
	Back Injury	6	Open Meterbeat	Hypothermia	2
	Broken Bone(s)	2	Open Motorboat (Continued)	Laceration	8
	Carbon Monoxide	2	(Continued)	Neck Injury	1
	Complaint	1		Other (Describe)	1
Cabin Motorboat	Contusion	3		Unknown	1
Cabiii Motorboat	Fracture	1		Back Injury	1
	Head Injury	4		Burns	1
	Internal Injuries	3		Contusion	2
	Laceration	10	Personal Watercraft	Dislocation	1
	Spinal Injury	1	Personal WaterCraft	Head Injury	3
	Sprain/Strain	2		Hypothermia	6
Canoe	Hypothermia	5		Laceration	1
May sale	Hypothermia	2		Shock	1
Kayak	Laceration	1	Dambaan Daab	Back Injury	2
	Back Injury	6	Pontoon Boat	Complaint	1
Open Motorboat	Broken Bone(s)	4	Unknown	Hypothermia	4
	Burns	3	Unknown	Laceration	1

2014 Summary of Fatal Accidents

Date	County	Waterway	Cause	Vessel	Accident Type	Fatalities
4/21/2014	JEFFERSON	BLACK RIVER	Improper Anchoring	Canoe	Capsizing	1

A couple was in a canoe. The male was attempting to anchor. As the anchor caught the bottom the vessel turned sideways, exposing the beam to the current, causing it to capsize. Both occupants were thrown into the river and neither was wearing a PFD. The woman was rescued, but the man remains missing. It is not known if alcohol contributed to the accident.

5/4/2014	SUFFOLK	LONG ISLAND SOUND	Unknown	Auxillary Sail	Sinking	1
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Local police received a call regarding a boat taking on water. Around the same time, the County Emergency Response Center also received a call from a friend of the boater stating that he had received a text indicating a boater in distress. The USCG was notified and a search began. The operator was recovered by USCG the following day. It is not known what happened to the vessel or what caused the accident. Although the victim was found with a PFD, the waist straps were loose and his head was not through the neck area. It is not known if alcohol contributed to the accident.

5/9/2014 CHAUTAUQUA LAKE Other Open Motorboat Flooding/Swamping	5/9/2014	CHAUTAUQUA	CHATAUQUA LAKE	Other	Open Motorboat	Flooding/Swamping	1
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The vessel, with two individuals onboard, was moored to a bridge piling using an anchor and line. The stern was facing incoming waves, which swamped the vessel, causing it to capsize. Both individuals onboard were exposed to cold water for an extended period of time but were wearing PFDs. Both individuals were rescued and treated for exposure. One of the individuals experienced cardiac arrest while in the water and was later pronounced dead at the hospital. Alcohol was not a factor.

E/11/2014	CHEMING	CHEMING DIVED	Hamandana Watana	Vavale	Collision w/ Fixed	
5/11/2014	CHEMONG	CHEMOING KIVEK	Hazardous Waters	Kayak	Object	1

A mother and daughter were in a kayak on the swollen river. The mother was on her cell phone with her husband at the time. As they passed the outlet of another creek, the current in the river increased significantly. Further down the river the kayak collided with a tree trunk and overturned. Both women were thrown into the water, but only one was able to make it to shore. The second individual was pinned in the kayak beneath the downed tree and drowned. Neither individual was wearing a PFD. A partially empty bottle of wine was found in the kayak after it was recovered.

5/15/2014	NIAGARA	LAKE ONTARIO	Alcohol Use	Open Motorboat	Unknown	1
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The girlfriend of the individual reported him missing to the police department when he failed to return home the night before, having gone sailing. The individual's van and trailer were located at a local boat launch. A fisherman stated he had seen the missing individual in his boat leaving the harbor the day before. A bartender at a local restaurant also indicated that he had served the missing individual just prior to him leaving the harbor. A large scale search was conducted however no trace of the missing individual, his boat, or any debris was recovered. The individual remains missing.

5/23/2014	WARREN	LAKE GEORGE	Alcohol Use	Cabin Motorboat	Grounding	1
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A vessel with one individual onboard headed home one night after having dinner with friends. As the vessel approached its dock it ran aground, striking numerous trees and rocks along the shoreline. The operator died of injuries suffered in the accident. A PFD was not worn and the BAC was reported as 0.27. The operator was a holder of a boating safety certificate.

5/24/2014	MONROE	HONEOVE CREEK	Hazardous Waters	Canoo	Collision w/ Fixed	
3/24/2014	MONKOL	HONLOTE CREEK	Tiazaruous Waters	Canoe	Object	

Three male occupants set out in their canoe behind Honeoye Falls in swift water. They traveled down river striking a tree in the middle of the creek, causing the hull of the canoe to crack. The vessel took on water and capsized. Two of the individuals onboard were able to swim to shore. The third became trapped underneath debris and drowned. Witnesses stated that the victim had been wearing a PFD prior to the accident, however none was found on the victim when he was recovered. Alcohol was not a factor.

Date	County	Waterway	Cause	Vessel	Accident Type	Fatalities
5/25/2014	SULLIVAN	UPPER DELAWARE RIVER	Hazardous Waters	Raft	Person Leaves Or Is Ejected From Vessel	1

An individual was rafting on the river with friends in a rented raft. He decided to take a swim and removed his PFD. He performed a diver type roll off the raft, surfaced once then submerged. The individual was recovered some time later. The BAC was 0.07.

5/26/2014	ONEIDA	DELTA LAKE	Hazardous Waters	Open Motorboat	Person Leaves Or Is Ejected From Vessel	
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Two individuals were on a boat when the fourteen year old jumped off to go swimming without a PFD. The vessel began to drift and he had trouble swimming back toward the boat. The operator, an adult, jumped in without a PFD to assist. The operator also began to struggle. A nearby boater was able to rescue the youth. The operator however slipped underwater and was unable to be rescued. The operator was under the influence of alcohol at the time of the accident.

6/27/2014	BRONX	LONG ISLAND SOUND	Alcohol Use	Open Motorboat	Person Leaves Or Is Ejected From Vessel	1
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Two individuals on a vessel jumped overboard when another vessel appeared to be bearing down on them in a close quarter's situation. One individual was wearing a PFD and was rescued. The other was not and was unresponsive when later recovered. Searches following the recovery were unable to locate a vessel matching the description of the other vessel. The deceased was found to have a BAC of 0.15 along with marijuana in his system.

6/30/2014 KINGS	SHELL BANK CREEK	Alcohol Use	Personal Watercraft	Falls Overboard	1
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A victim was observed falling off his PWC. The victim was unable to swim back and reboard the craft. He was not wearing a PFD and under the influence of alcohol.

7/1/2014	WARREN	LAKE GEORGE	Operator	Open Motorboat	Groundina	1
7/1/2014	WARKLIN	LAKE GLONGE	Inattention	Open Motorboat	Grounding	1

A vessel was trolling with down riggers when the depth of the water suddenly decreased. The down rigger weights got caught on the bottom causing the vessel came to an abrupt halt. Waves then came over the transom causing the vessel to fill with water. Everyone onboard grabbed a PFD. The operator cut the down rigger cables, however the vessel continued to take on water and capsized. Two individuals were able to stay with the capsized vessel. The third, although in a PFD, had not fastened the straps and disappeared beneath the water. Alcohol was not a factor.

//6/2014 ONONDAGA SENECARIVER Improper Loading Canoe	7/6/2014	ONONDAGA	SENECA RIVER	Improper Loading	Canoe	Person Leaves Or Is Ejected From Vessel	1
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Three individuals, not wearing PFDs, were drifting in a canoe while fishing. At one point one person fell overboard and while attempting to get back on board caused the canoe to capsize. Everyone was thrown into the water. One individual was unable to keep his head above water. All three were rescued by a passing vessel that brought them to shore. CPR was performed on the one individual and he was transported to the hospital where he died of severe brain damage. The deceased had prescription drugs and marijuana in his system at the time.

7,	/20/2014	SUFFOLK	Napeague Harbor	Unknown	Kite Board	Grounding	1
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After a kite boarder failed to return to his residence, his family went looking for him. He was found later floating in the water, secured to his kite. It is not known what contributed to the accident. It is not known if alcohol was involved.

7/26/2014	SARATOGA	SACANDAGA	Unknown	Open Motorboat	Falls Overboard	1
7/20/2014	SARATUGA	RESEVOTE	UTIKHOWH	Open Motorboat	raiis Overboard	1

While docking a pontoon boat, the victim fell into the water and drowned. Other passengers who had been onboard were unable to provide assistance in time. It is not known what caused the victim to fall overboard. It is not known if alcohol was involved.

7/30/2014	NASSAU	LONG ISLAND SOUND	Unknown	Open Motorboat	Unknown	1
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A vessel was found grounded on a beach with the motor down, in gear but not running. No one was onboard. The owner of the vessel had been reported missing to the local police department and would later be recovered.

Date	County	Waterway	Cause	Vessel	Accident Type	Fatalities
8/10/2014	NASSAU	BALDWIN BAY	Alcohol Use	Cabin Motorboat	Struck by Propeller or Propulsion Unit	1

Several of the eleven passengers onboard a large recreational vessel had been swimming. Before starting up the engines to leave, the operator failed to properly account for everyone onboard and struck one of the passengers still in the water. The victim died at the hospital as a result of his injuries. The operator was had a BAC of 0.10. The victim had a BAC of 0.32.

8/14/2014 SUFFOLK RONKONKOMA Drug Use Kayak Capsizing 1	8/14/2014	SUFFOLK	LAKE	Drug Use	Kayak	Capsizing	1
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Witnesses near the lake heard a kayaker calling for help before disappearing under the water. Police recovered a backpack on shore that belonged to the kayaker containing alcohol and narcotics. The kayak was also recovered and was found to have a hole in it. The victim had been wearing a PFD but it slipped off while he was in the water. The victim was later recovered having a BAC of 0.04 and marijuana in his system at the time of the accident.

8/19/2014 PUTNAM CROTON FALLS Standing/Sitting on Gunwales etc Rowboat Falls Overboard 1

The operator was sitting on top of an unsecured seat in a small rowboat when he lost his balance and fell overboard. A passenger also fell overboard as a result. The passenger was able to swim to shore while the operator was not. Neither individual was wearing a PFD. Alcohol was not a factor.

8/19/2014 NIAGARA LAKE ONTARIO Weather Sail (only) Capsizing 1

The operator was sailing a small sail boat when the vessel capsized from the wind and waves. The victim was observed unconscious and floating face up in his PFD. A nearby witness was able to jump in the water and retrieve the victim. The victim was placed onto a fire rescue boat where CPR was started. He was later pronounced dead at the hospital. Alcohol was not involved.

8/20/2014 NASSAU MANHASSET BAY Ignition of Spilled Fuel or Vapor Cabin Motorboat Fire/Explosion (Fuel)

The vessel, with two people onboard and still moored to the dock, caught fire and exploded after fueling at a fuel dock. One individual was able to jump off the vessel and later rescued. The other was not. The exact cause of the fire is not known.

8/26/2014 ONONDAGA OTISCO LAKE Alcohol Use Kayak Person Leaves Or Is Ejected From Vessel 1

A deceased male was found floating in a lake by two kayakers. A kayak was found containing fishing gear that had recently been purchased by the individual. The victim had no prior experience in operating a kayak. The victim had a history of heart issues which may have contributed to his death. He was not wearing a PFD, nor was one able to be located. The victim had a BAC of 0.04.

9/1/2014 NASSAU LONG CREEK Improper Loading Cabin Motorboat Flooding/Swamping 1

While underway, the vessel experienced flooding. It is suspected that the arrangement of the nine persons onboard contributed to the flooding. Everyone onboard entered the water as a result of the flooding and subsequently lost contact with the vessel. Other nearby vessels were able to rescue everyone who was onboard. One passenger suffered a heart attack and another had experienced chest pains while in the water. Both individuals were transported to the hospital. The victim who had suffered the heart attack passed away at the hospital. The deceased had not been wearing a PFD. Alcohol was not involved.

9/20/2014 SARATOGA STEWARTS POND Unknown Kayak Capsizing 1

An individual utilized a kayak found at a rented vacation home where he was staying with fellow college students. Witnesses state that they saw him capsize and struggle in the water before disappearing beneath the surface. It is not known what contributed to the accident.

10/14/2014 RICHMOND RARITAN BAY Improper Anchoring Open Motorboat Flooding/Swamping 1

A vessel with two people on board, ages 82 and 84, was anchored from both the bow and the stern with the stern facing into the waves. The vessel began taking water over the transom. The bilge pumps were unable to keep up. The operator cut the stern anchor line as the vessel rolled to starboard, then capsized. Both individuals onboard were thrown into the water, neither of whom was wearing a PFD. One individual was able to hold onto the overturned vessel until rescue arrived. The other suffered a heart attack while in the water and did not survive. Alcohol was not involved.

Date	County	Waterway	Cause	Vessel	Accident Type	Fatalities
11/15/2014	HERKIMER	ERIE BARGE CANAL	Overloading	Open Motorboat	Flooding/Swamping	1

A small vessel was travelling westbound, with three occupants not wearing PFDs, when it capsized. All occupants were thrown into the water. Two occupants were able to swim to shore. The third was pulled to shore and transported to the hospital, where he was pronounced dead. Alcohol was not involved.

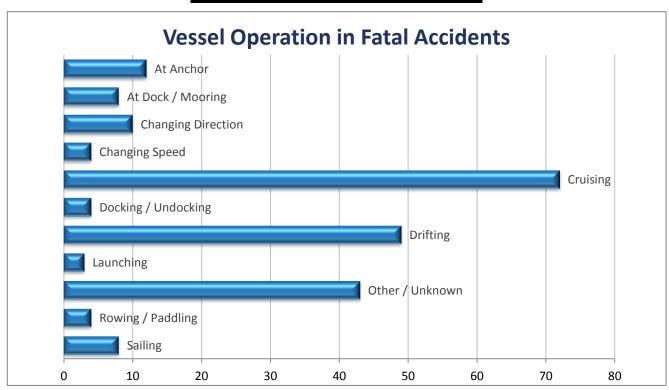
11/24/2014	BRONX	EASTCHESTER BAY	Unknown	Kayak	Capsizing	1
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Police were contacted by an individual concerned about a kayaker that had failed to return home. Earlier, this person had gone for a swim and then departed the area in his kayak. A search of the area located the victim in the water, just off the shore. It is not known what caused the accident.



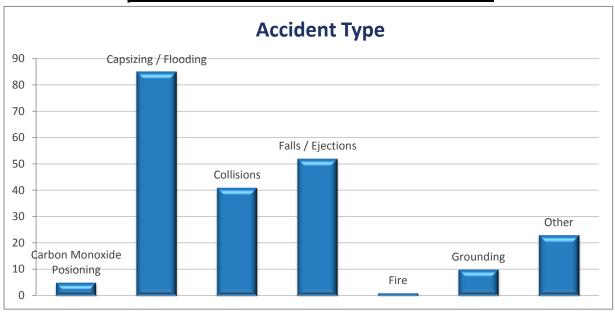
Vessel Operation in Fatal Boating Accidents 2005-2014

Operation	Fatalities
At Anchor	12
Changing Direction	4
Changing Speed	3
Changing Speed, Changing Direction	1
Cruising	67
Cruising, Changing Direction	5
Docking/Undocking	3
Drifting	48
Drifting, Launching	1
Launching	2
Other	1
Rowing or Paddling	43
Sailing	4
Tied to Dock/Mooring	8
Unknown	15



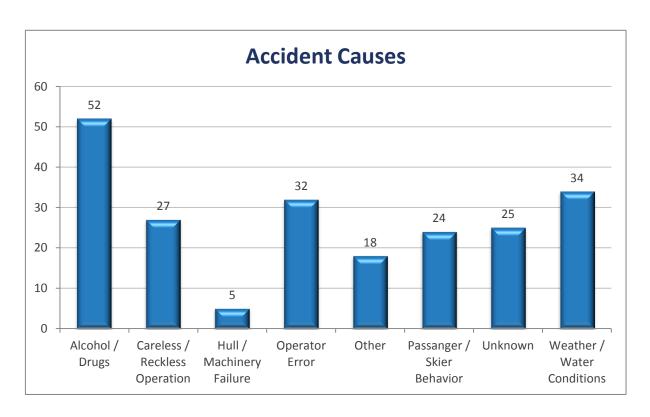
Fatal Accident Type 2005-2014

Accident Type	Fatalities
Capsizing	71
Carbon Monoxide Poisoning	5
Collision w/ Fixed Object	23
Collision w/ Floating Object	3
Collision w/ Vessel	10
Collision With Recreational Boat	3
Collision with Tow Line	2
Falls in Boat	2
Falls Overboard	32
Fire/Explosion (Fuel)	1
Flooding/Swamping	9
Grounding	10
Person Leaves Or Is Ejected From Vessel	18
Sinking	5
Skier Mishap	5
Struck by Boat	3
Struck by Propeller or Propulsion Unit	3
Struck Submerged Object	2
Sudden Medical Condition	2
Unknown	8

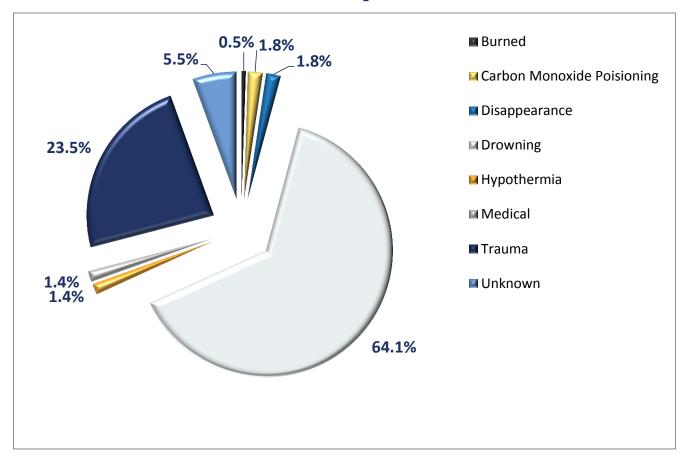


Fatal Accidents Causes 2005-2014

Accident Causes	Fatalities	Accident Causes	Fatalities
Alcohol Use	48	Operator Inattention	8
Careless/Reckless Operation	4	Operator Inexperience	7
Dam/Lock	2	Other	9
Drug Use	4	Overloading	9
Excessive Speed	11	Passenger or Skier Behavior	20
Hazardous Waters	23	Poor Visibility	1
Ignition of Spilled Fuel or Vapor	1	Sharp Turn	3
Improper Anchoring	4	Standing/Sitting on Gunwales	4
Improper Loading	2	Unknown	25
Lack of / Improper Boat Lights	1	Vessel Hull Failure	1
Machinery Failure	4	Wake	3
No Proper Lookout	13	Weather	10

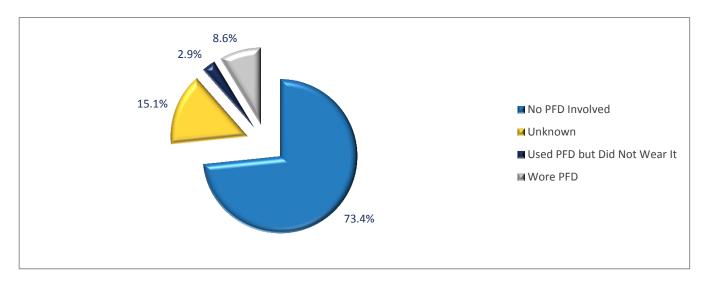


Cause of Fatality 2005-2014



Cause of Fatality	Fatalities
Burned	1
Carbon Monoxide Poisioning	4
Disappearance	4
Drowning	139
Hypothermia	3
Medical	3
Trauma	51
Unknown	12

PFD Use Amongst Drowning Fatalities 2005-2014



PFD Use	Fatalities	Percentage
No PFD Involved	102	73.4%
Unknown	21	15.1%
Used PFD but Did Not Wear It	4	2.9%
Wore PFD	12	8.6%

Law	FatalitiesRequired to Wear PFD	Percentage of Total Fatalities Not Wearing PFD
Cold Water Law	8	7.5%
Personal Watercraft	4	3.8%
Child Under 12 Years of Age	2	1.9%
Towing of Persons	0	0.0%
Total	14	13.2%

Of the accidents where individuals drowned and PFD use was known, 86.4% did not wear a PFD. 13.3% of those who did not wear a PFD were required to by law at the time of the accident. The cold water law has accounted for the largest portion of this despite not taking affect until November 1st 2009. Had the law been in effect in 2005 an additional seven people would have been required to wear their PFD.

Cold Water Law - Requires everyone onboard a pleasure vessel less than 21 feet to wear a PFD from Nov. 1st to May 1st

Personal Watercraft – Everyone onboard a personal watercraft is required to wear a PFD

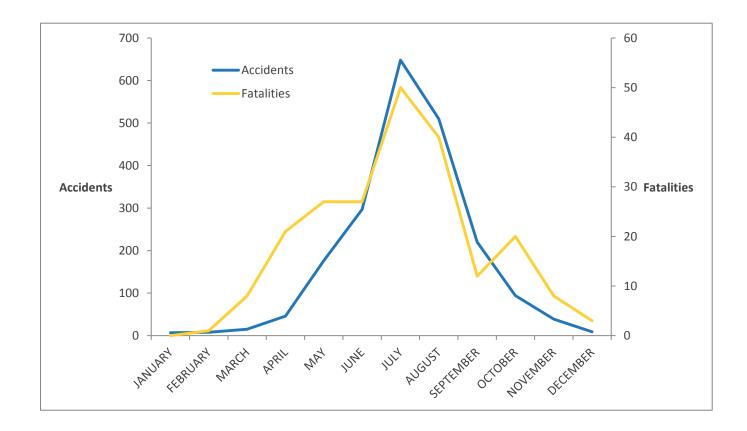
Child Under 12 Years of Age – Everyone under the age of 12 is required to wear a PFD on pleasure vessels less than 65 feet except when in a fully enclosed cabin.

Towing of Persons – Everyone towed behind a vessel is required to wear a PFD

Accident Occurrence by Month 2005-2014

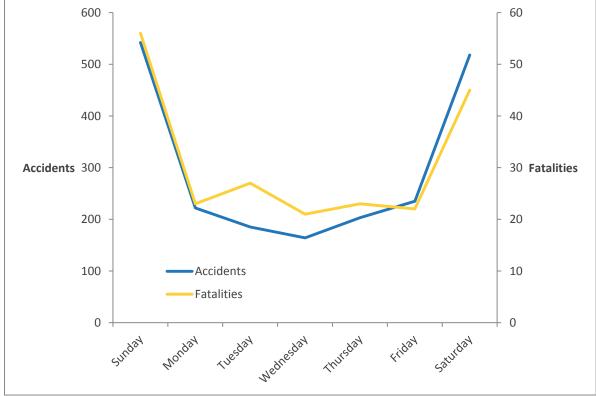
Month	Accidents	Fatalities
JANUARY	7	0
FEBRUARY	8	1
MARCH	15	8
APRIL	46	21
MAY	176	27
JUNE	297	27
JULY	648	50
AUGUST	510	40
SEPTEMBER	220	12
OCTOBER	94	20
NOVEMBER	39	8
DECEMBER	9	3





Accident Occurrence by Day 2005-2014

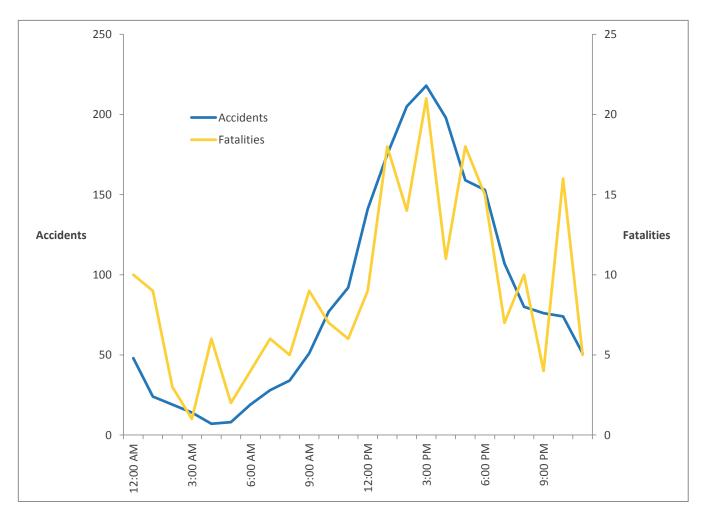
DAY	Accidents	Fatalities
Sunday	542	56
Monday	222	23
Tuesday	185	27
Wednesday	164	21
Thursday	203	23
Friday	235	22
Saturday	518	45





Accident Occurrence by Time 2005-2014

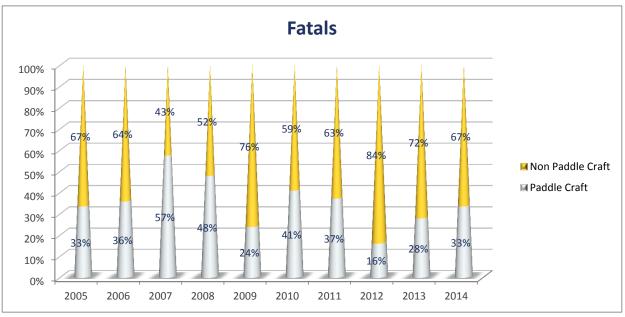
AM		PM			
Time	Accidents	Fatalities	Time	Accidents	Fatalities
12 to 1	48	10	12 to 1	141	9
1 to 2	24	9	1 to 2	175	18
2 to 3	19	3	2 to 3	205	14
3 to 4	14	1	3 to 4	218	21
4 to 5	7	6	4 to 5	198	11
5 to 6	8	2	5 to 6	159	18
6 to 7	19	4	6 to 7	153	15
7 to 8	28	6	7 to 8	107	7
8 to 9	34	5	8 to 9	80	10
9 to 10	51	9	9 to 10	76	4
10 to 11	77	7	10 to 11	74	16
11 to 12	92	6	11 to 12	51	5



Paddle Craft Accidents 2005-2014

Year	# of 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





Paddle Craft represent about 4% of the total accidents. They however contribute to about 35% of the total fatalities.

PWC Accidents

W	// C DVVC		- 1 Page
Year	# of PWC	_	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



^{*} Mandatory education for PWC operators begins

Percentage of PWC Vessels Involved in Accidents Non-PWC ▶ PWC Non-PWC ▶ PWC Non-PWC ▶ PWC Non-PWC ▶ PWC

PWC accidents have declined significantly since implementation of mandatory education.

Whatever boat you choose . . .

Don't forget to wear your life jacket!









Scan for boating safety information and to find a boating safety course.









Parks, Recreation and Historic Preservation