

Missouri Boating Statistics & Drownings



2013
Edition

2012
Statistics

Department of Public Safety
Missouri State Highway Patrol

Introduction

This booklet is published by the Missouri State Highway Patrol as an aid to persons who are interested in recreational boating crashes and accidental drowning incidents occurring in the state. It contains information which provides a comprehensive look at statewide crashes and accidental drowning incidents as experienced in 2012.

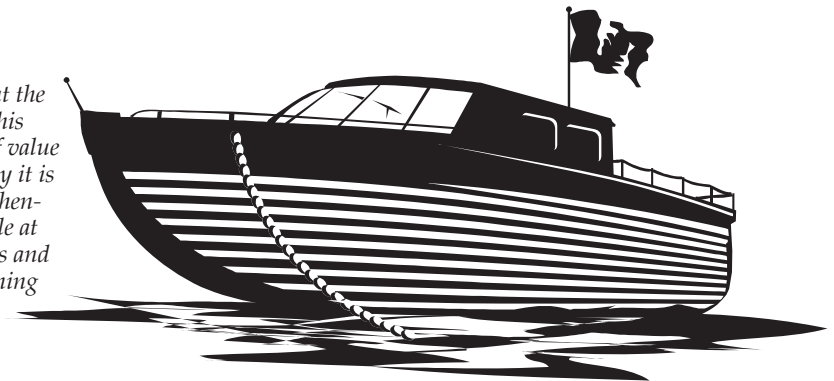
The Missouri State Highway Patrol is the central recreational boating data collection agency for the State of Missouri. The Patrol investigates all recreational boating crashes occurring in the state and either investigates or gathers data on accidental drowning incidents occurring in state and private waters.

Interesting Statistics

Here at a glance are some interesting statistics found in this booklet:

- In 2012 there were 12 persons killed and 99 persons injured in recreational boating crashes in the State of Missouri. This was seven fewer killed and 12 more injured than in 2011. There was an increase of 17% in total crashes statewide compared to 2011.
- In 2012 there were 194 total crashes including 109 property damage only, 75 injury, and 10 fatal.
- "Water conditions" was the leading contributing circumstance for all crashes followed by "excessive speed." Alcohol was known to have been a contributing circumstance on 40 crashes statewide.
- Capsizing type crashes resulted in the deaths of four persons. This was 33% of the total persons killed in crashes.
- Of all crashes reported statewide, 82.5% (160) occurred during the months of May through August.
- Most crashes occurred on Saturday (65) and Sunday (42) and most occurred between noon and 8:00 p.m.
- Of all crashes reported statewide, 75% (145) involved only one watercraft. Eight of the ten fatal crashes involved only one watercraft.
- Of 243 boat operators involved in crashes, 124 had no prior boater education.
- In 2012, there were 17 persons killed in accidental drowning incidents occurring in state waters, 18 less than in 2011. In addition, the Missouri State Highway Patrol investigated four accidental drowning incidents that occurred on private property.
- Most drowning incidents occurred on Thursday (5) and Friday (5) and most occurred during the months of July (5) and August (5).

It is hoped that the information in this booklet will be of value to you. Certainly it is the most comprehensive look available at statewide crashes and accidental drowning incidents in Missouri.



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Boating Crashes by Year

Statewide Boating Crashes in Missouri

Year	Statewide Crashes				Persons Involved		
	Fatal	Injury	Property Damage	Total	Killed	Injury	Total
2008	20	77	110	207	21	103	124
2009	16	89	114	219	17	118	135
2010	13	98	124	235	14	120	134
2011	16	64	86	166	19	87	106
2012	10	75	109	194	12	99	111

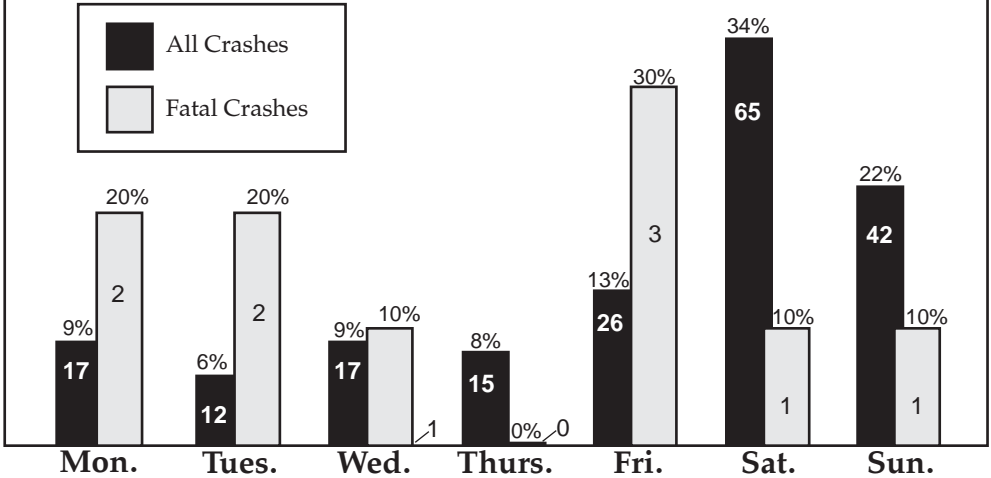
Boating Crashes by Month

Statewide Boating Crashes By Month

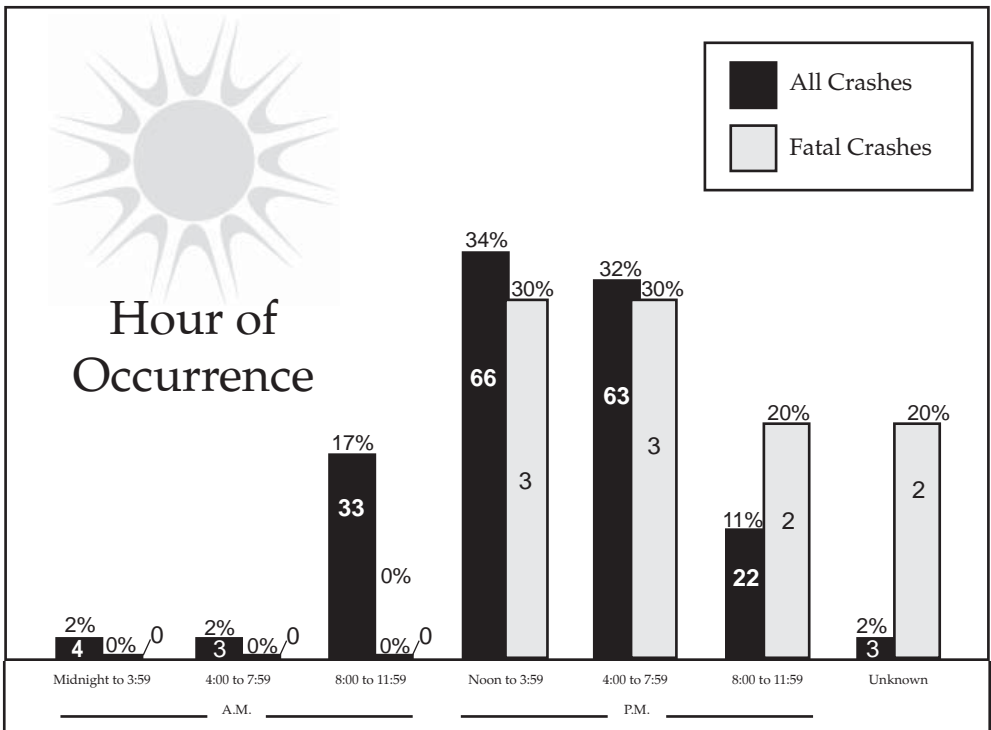
	Fatal	Injury	Property Damage	Total
January	1	0	0	1
February	0	1	3	4
March	0	1	4	5
April	1	2	7	10
May	3	11	17	31
June	0	14	26	40
July	3	26	29	58
August	1	15	15	31
September	1	3	4	8
October	0	1	4	5
November	0	1	0	1
December	0	0	0	0
Total	10	75	109	194

Crashes by Day and Hour

Day of Occurrence

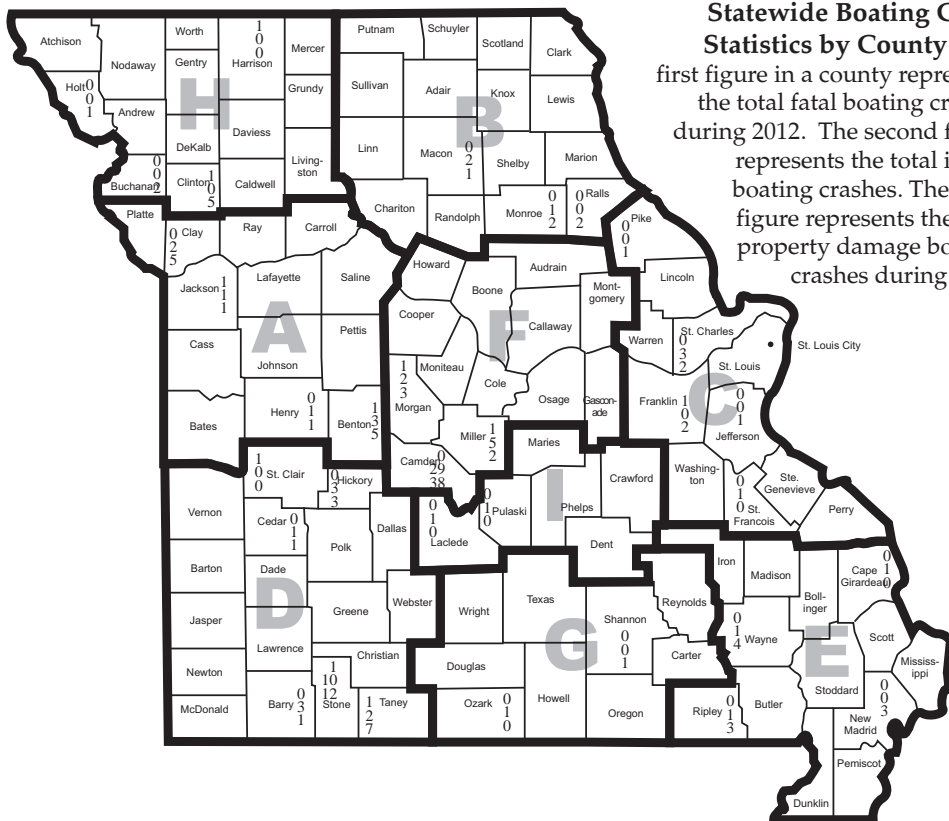


Hour of Occurrence



Boating Crashes by County

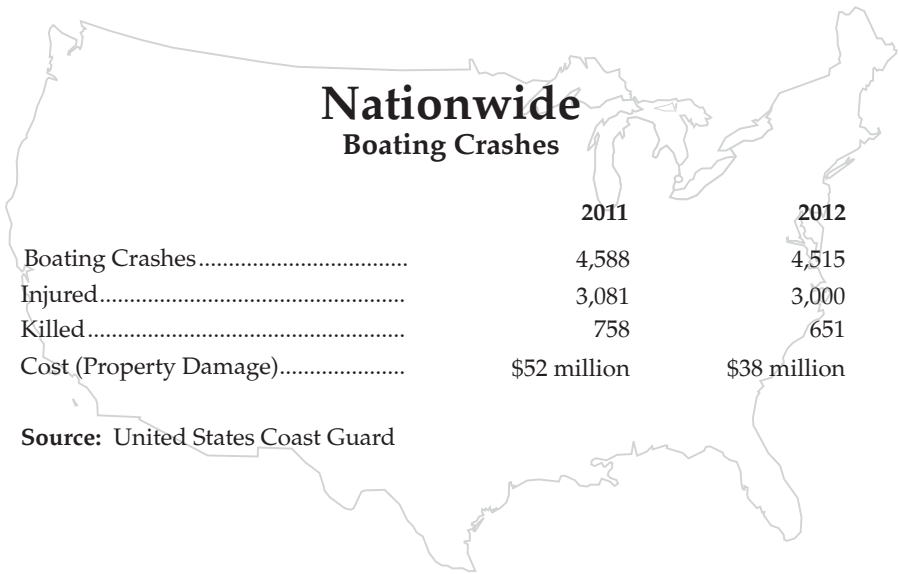
Statewide Boating Crash Statistics by County - The first figure in a county represents the total fatal crashes during 2012. The second figure represents the total injury boating crashes. The third figure represents the total property damage boating crashes during 2012.



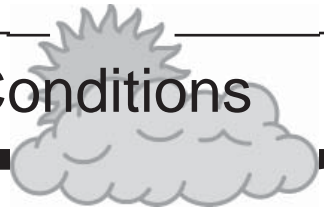
Boating Crashes by Troop

Troop	Fatal	Injury	Property Damage	Total	%
Troop A	2	7	12	21	10.82
Troop B	0	3	5	8	4.12
Troop C	1	4	6	11	5.67
Troop D	3	19	24	46	23.71
Troop E	0	3	10	13	6.70
Troop F	2	37	43	82	42.27
Troop G	0	1	1	2	1.03
Troop H	2	0	8	10	5.15
Troop I	0	1	0	1	.52
Total	10	75	109	194	

Nationwide Information



Water & Weather Conditions



Water Conditions	Fatal Crashes	Percent	All Crashes	Percent
Calm (waves less than 6").....	6	60.00	101	52.06
Choppy (waves 6" to 2').....	4	40.00	62	31.96
Rough (waves 2' to 6').....	0	0	10	5.15
Very Rough (waves more than 6').....	0	0	3	1.55
Strong/Swift Current.....	0	0	17	8.76
Unknown.....	0	0	1	.52
Total.....	10		194	

Weather Conditions	Fatal Crashes	Percent	All Crashes	Percent
Clear.....	8	80.00	150	76.92
Cloudy.....	2	20.00	40	20.51
Fog.....	0	0	0	0
Rain.....	0	0	3	1.54
Snow.....	0	0	1	.51
Hazy.....	0	0	0	0
Unknown.....	0	0	1	.51
Total.....	10		195	

Crash Type

Statewide Boating Crashes in Missouri

Type of Crash	Crashes					Persons Involved			
	Fatal	Injury	Property Damage	Total	%	Killed	Injury	Total	%
Capsizing	3	4	2	9	4.64	4	5	9	8.11
Carbon Monoxide Poisoning.....	0	1	0	1	.52	0	8	8	7.21
Collision with Fixed Object	1	3	28	32	16.49	1	7	8	7.21
Collision with Floating Object.....	0	0	4	4	2.06	0	0	0	0
Collision with Vessel.....	1	17	29	47	24.23	1	19	20	18.02
Fall On Vessel.....	0	1	0	1	.52	0	1	1	.90
Fall within Vessel.....	0	16	0	16	8.25	0	23	23	20.72
Fall Overboard.....	3	7	0	10	5.15	4	7	11	9.91
Fire or Explosion (Fuel)	0	2	14	16	8.25	0	3	3	2.70
Fire or Explosion (Other)	0	0	2	2	1.03	0	0	0	0
Flooding/Swamping	0	1	19	20	10.31	0	2	2	1.80
Grounding.....	0	2	7	9	4.64	0	3	3	2.70
Mechanical Failure	0	0	1	1	.52	0	0	0	0
Person Left Vessel.....	2	1	0	3	1.55	2	1	3	2.70
Skier Mishap	0	17	0	17	8.76	0	17	17	15.32
Struck by Prop or Propulsion Unit	0	3	0	3	1.55	0	3	3	2.70
Struck Submerged Object.....	0	0	3	3	1.55	0	0	0	0
Total	10	75	109	194		12	99	111	
Percentage	5.15	38.66	56.19			10.81	89.19		

Crashes by Body of Water/County

Body of Water	County	Crash Severity				Personal Severity		
		Fatal	Injury	Property Damage	Total	Killed	Injured	Total
Big Lake	Holt	0	0	1	1	0	0	0
Bull Shoals Lake	Ozark	0	1	0	1	0	1	1
Bull Shoals Lake	Taney	0	0	2	2	0	0	0
Castor River	Cape Girardeau	0	1	0	1	0	1	1
Current River	Ripley	0	1	3	4	0	3	3
Current River	Shannon	0	0	1	1	0	0	0
Goose Creek Lake	St. Francois	0	1	0	1	0	2	2
James River	Stone	0	0	1	1	0	0	0
Lake Contrary	Buchanan	0	0	1	1	0	0	0
Lake Jacomo	Jackson	1	0	0	1	1	0	1
Lake of the Ozarks	Benton	0	2	1	3	0	2	2
Lake of the Ozarks	Camden	0	29	38	67	0	37	37
Lake of the Ozarks	Laclede	0	1	0	1	0	1	1
Lake of the Ozarks	Miller	1	5	2	8	1	5	6
Lake of the Ozarks	Morgan	1	2	3	6	1	2	3
Lake Taneycomo	Taney	0	1	0	1	0	1	1
Long Branch Lake	Macon	0	1	1	2	0	1	1
Longview Lake	Jackson	0	1	0	1	0	1	1
Mark Twain Lake	Monroe	0	1	2	3	0	1	1
Mark Twain Lake	Ralls	0	0	2	2	0	0	0
Meramec River	Franklin	0	0	2	2	0	0	0
Mississippi River	Jefferson	0	0	1	1	0	0	0
Mississippi River	New Madrid	0	0	3	3	0	0	0
Mississippi River	St. Charles	0	3	2	5	0	3	3
Missouri River	Buchanan	0	0	1	1	0	0	0
Missouri River	Jackson	0	0	1	1	0	0	0
Piney River	Pulaski	0	1	0	1	0	3	3
Pomme De Terre Lake	Hickory	0	3	3	6	0	3	3
Private Lake/Pond	Franklin	1	0	0	1	1	0	1
Private Lake/Pond	Harrison	1	0	0	1	1	0	1
Sac River	Cedar	0	1	0	1	0	1	1
Salt River	Pike	0	0	1	1	0	0	0
Smithville Lake	Clay	0	2	4	6	0	3	3

Crashes by Body of Water/County

Body of Water	County	Crash Severity				Personal Severity		
		Fatal	Injury	Property Damage	Total	Killed	Injured	Total
Smithville Lake	Clinton	1	0	5	6	1	0	1
Stockton Lake	Cedar	0	0	1	1	0	0	0
Table Rock Lake	Barry	0	3	1	4	0	10	10
Table Rock Lake	Stone	1	10	11	22	1	12	13
Table Rock Lake	Taney	1	1	5	7	1	1	2
Thomas Hills Lake	Macon	0	1	0	1	0	1	1
Truman Lake	Benton	1	1	4	6	2	1	3
Truman Lake	Henry	0	1	1	2	0	2	2
Truman Lake	St. Clair	1	0	0	1	2	0	2
Wappapello Lake	Wayne	0	1	4	5	0	1	1
Watkins Mill State Park Lake	Clay	0	0	1	1	0	0	0
Total		10	75	109	194	12	99	111

Crashes by Multi-County Body of Water

Body of Water	Crash Severity				Personal Severity		
	Fatal	Injury	Property Damage	Total	Killed	Injured	Total
Bull Shoals Lake	0	1	2	3	0	1	1
Current River	0	1	4	5	0	3	3
Lake of the Ozarks	2	39	44	85	2	47	49
Mark Twain Lake	0	1	4	5	0	1	1
Mississippi River	0	3	6	9	0	3	3
Missouri River	0	0	2	2	0	0	0
Smithville Lake	1	2	9	12	1	3	4
Table Rock Lake	2	14	17	33	2	23	25
Truman Lake	2	2	5	9	4	3	7
Total	7	63	93	163	9	84	93

Probable Contributing Circumstances

Probable Contributing Circumstance	Crash Severity				Personal Severity		
	Fatal	Injury	Property Damage	Total	Killed	Injured	Total
Careless/Reckless Operation	0	0	0	0	0	0	0
Congested Waters.....	0	0	0	0	0	0	0
Equipment Failure (PFD, Bilge Pump, etc.).....	0	1	5	6	0	8	8
Excessive Speed.....	1	15	24	40	1	22	23
Exhaustion.....	0	1	0	1	0	1	1
Failed to Keep Proper Lookout.....	1	16	18	35	1	21	22
Failed to Maintain Safe Distance	1	9	20	30	1	10	11
Failed to Take Evasive Action	1	3	11	15	1	3	4
Failed to Ventilate Enclosed Compartment....	0	1	0	1	0	1	1
Hazard in Water	0	2	24	26	0	6	6
Health/Medical Problem.....	3	0	0	3	3	0	3
Hull Failure	0	1	2	3	0	2	2
Ignition of Fuel or Vapor.....	0	1	0	1	0	2	2
Impairment (Alcohol/Drugs)	2	6	5	13	2	8	10
Improperly Loaded Vessel.....	1	2	2	5	1	3	4
Inattention	1	14	18	33	1	16	17
Inexperience of Operator	0	16	15	31	0	17	17
Mechanical Failure (Electric/Fuel, etc.)	0	1	21	22	0	1	1
Navigation Lights (None/Partial).....	0	1	0	1	0	1	1
Obstructed Visibility in Vessel.....	0	0	1	1	0	0	0
Off Throttle Steering	0	1	1	2	0	1	1
Overloaded.....	0	2	2	4	0	3	3
Passenger/Skier Behavior	1	6	1	8	1	6	7
Restricted Visibility (Fog, Rain, etc.)	0	1	1	2	0	3	3
Swimming Ability (Weak/None)	2	0	0	2	2	0	2
Type of Vessel.....	1	1	2	4	2	2	4
Unknown.....	2	0	1	3	3	0	3
Water Conditions (Rough, Chop, Current, etc.)..	1	24	17	42	2	30	32
Weather Conditions	1	3	8	12	2	3	5

Vessel Actions at Time of Crash

Vessel Action	Fatal	Injury	Property Damage	Total	%
Commercial Activity.....	0	2	0	2	.82
Fishing	4	1	6	11	4.53
Making Repairs	0	1	0	1	.41
Anchored	0	0	2	2	.82
Being Towed.....	0	1	0	1	.41
Docked.....	0	1	15	16	6.58
Hunting	1	0	0	1	.41
Towing Other Vessel.....	0	1	0	1	.41
Scuba/Snorkeling	0	0	1	1	.41
Pleasure Boating.....	6	66	97	169	69.55
Unknown.....	0	0	2	2	.82
Starting Engine	0	0	1	1	.41
Leaving Dock.....	0	0	1	1	.41
Tubing	0	13	2	15	6.17
Water Skiing.....	0	7	2	9	3.70
Other	0	0	5	5	2.06
Launching Watercraft	0	0	1	1	.41
None.....	1	0	3	4	1.65
Total.....	12	93	138	243	

Alcohol Involvement

Drinking and Crashes - Whether or not a person has been drinking cannot always be determined at the scene of a crash. It is generally impossible to determine the persons who have had one or a few drinks; yet, these individuals may be as much of a hazard as the obvious drunk. Because of the time lapse from the moment of occurrence until an officer arrives at the scene to make the investigation, a person's condition concerning drinking can change a great deal. In cases where the individual may have been removed to a hospital, doctor's office or funeral home, his condition may never be determined.

Alcohol/Drugs Involved

Fatal Boating Crashes:

Alcohol/Drugs Involved	2
No Alcohol/Drugs Involved.....	8
Information Not Known	0

All Boating Crashes:

Alcohol/Drugs Involved	40
No Alcohol/Drugs Involved.....	151
Information Not Known	3

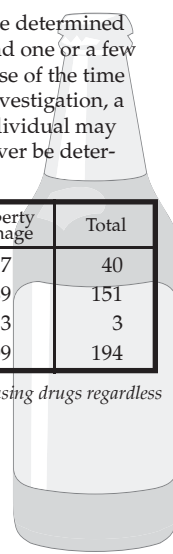
	Fatal	Injury	Property Damage	Total
Yes	2	21	17	40
No	8	54	89	151
Unknown	0	0	3	3
Total	10	75	109	194

(Includes crashes where an operator was drinking or using drugs regardless of the alcohol/drugs contributing to the crash.)

Alcohol/Drugs Probable Contributing Circumstance

Persons Killed	2
Persons Injured.....	8

(Includes crashes where alcohol or drug use contributed to the cause of the crash.)



Number of Vessels Involved

Statewide Crashes by Number of Vessels Involved							
Number of Vessels	Crashes				Persons Involved		
	Fatal	Injury	Prop. Damage	Total	Fatal	Injury	Total
1	8	57	80	145	10	78	88
2	2	18	29	49	2	21	23
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
Total	10	75	109	194	12	99	111

Vessel Type Involved

Vessel Type	Crash Severity		
	Fatal	Injury	Property Damage
Bassboat	0	5	22
Cabin Motorboat	0	3	7
Canoe	0	1	0
Commercial	0	1	0
Cruiser	0	0	2
Houseboat	0	4	8
Jon.....	3	1	7
Low Profile	0	0	1
Off Shore.....	0	0	2
Open Motorboat	2	8	17
Personal Watercraft	2	35	17
Pontoon.....	2	3	15
Runabout	3	30	39
Utility	0	2	0
Unknown.....	0	0	1
Total.....	12	93	138

Age of Killed/Injured and Operators

Killed/Injured By Age Group

Age of Person	Killed	Percent	Injured	Percent
Under 1	0	0	0	0
1	0	0	0	0
2	0	0	0	0
3	0	0	1	1.01
4	0	0	1	1.01
5	0	0	0	0
6 - 10	0	0	0	0
11 - 15	0	0	10	10.10
16 - 20	0	0	20	20.20
21 - 25	1	8.33	11	11.11
26 - 30	1	8.33	7	7.07
31 - 35	1	8.33	5	5.05
36 - 40	0	0	6	6.06
41 - 45	3	25.00	7	7.07
46 - 50	0	0	13	13.13
51 - 55	2	16.67	7	7.07
56 - 60	0	0	6	6.06
61 - 65	0	0	3	3.03
66 - 70	1	8.33	1	1.01
71 - 75	1	8.33	1	1.01
76 and Over	2	16.67	0	0
Not Stated	0	0	0	0
Total	12		99	

Age of Operators of Vessels Involved in Crashes

Age of Operator	Number Involved	Severity		
		Fatal Crashes	Injury Crashes	Property Damage Crashes
15 and Under	3	0	2	1
16	2	0	1	1
17	1	0	1	0
18	4	0	1	3
19	6	0	5	1
20	2	0	0	2
21 - 25	16	0	9	7
26 - 30	17	0	7	10
31 - 35	17	0	6	11
36 - 40	14	0	2	12
41 - 45	26	2	12	12
46 - 50	28	1	12	15
51 - 55	28	2	13	13
56 - 60	13	1	9	3
61 - 65	12	0	4	8
66 - 70	7	0	2	5
71 - 75	4	1	2	1
76 and Over	4	2	0	2
Not Stated	39	3	5	31
Total Drivers	243	12	93	138

Buoy/Regatta/Dive Team/ Boater Education Statistics

Buoy/Regatta/Dive Team/Boater Education Statistics			
	2010	2011	2012
Buoy Permitting			
Permits	3,531	3,598	5,129
Approved Applications.....	61	51	59
Denied Applications.....	13	19	16
Revoked Permits	19	150	41
Updated Permits	48	15	33
Other Modifications/Reinstate.....	27	29	3
Regatta Permitting			
Total Permitted Events	2,078	1,933	1,901
Dive Team Missions			
Total Dives.....	43	41	28
Boater Education			
Students Taught by Troopers.....	8,141	4,647	3,356
Internet Courses Taught.....	7,581	8,168	10,135
Total Education Cards Issued.....	9,120	8,731	13,675

Drownings by Year

Statewide Drowning Incidents in Missouri

Year	State Waters	Private	Total
2008	43	1	44
2009	25	2	27
2010	44	6	50
2011	35	6	41
2012	17	4	21

Drownings by Month

Statewide Drowning Incidents By Month

Month	State Waters	Private	Total
January	1	0	1
February	0	0	0
March	2	1	3
April	1	1	2
May	1	0	1
June	1	0	1
July	5	0	5
August	4	1	5
September	1	1	2
October	1	0	1
November	0	0	0
December	0	0	0
Total	17	4	21

Drownings by Day and Hour

Drowning Incidents by Day of Week

Day of Week	State Waters	Private	Total	Percent
Sunday	2	0	2	9.52
Monday	2	0	2	9.52
Tuesday	0	0	0	0
Wednesday	3	1	4	19.05
Thursday	5	0	5	23.81
Friday	3	2	5	23.81
Saturday	2	1	3	14.29
Total	17	4	21	

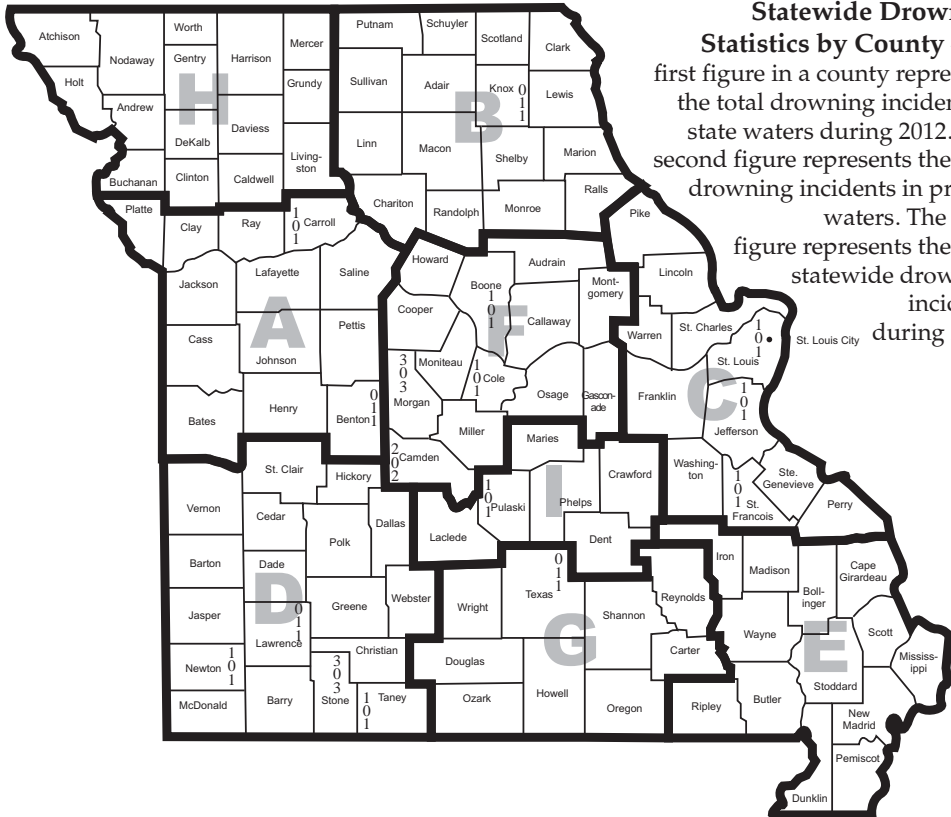
Drowning Incidents by Time of Day

Time of Day	State Waters	Private	Total	Percent
Midnight to 3:59 a.m.	0	1	1	4.76
4:00 a.m. to 7:59 a.m.	2	1	3	14.29
8:00 a.m. to 11:59 a.m.	1	1	2	9.52
Noon to 3:59 p.m.	7	1	8	38.10
4:00 p.m. to 7:59 p.m.	5	0	5	23.81
8:00 p.m. to 11:59 p.m.	2	0	2	9.52
Total	17	4	21	

Statewide Drownings by Troop

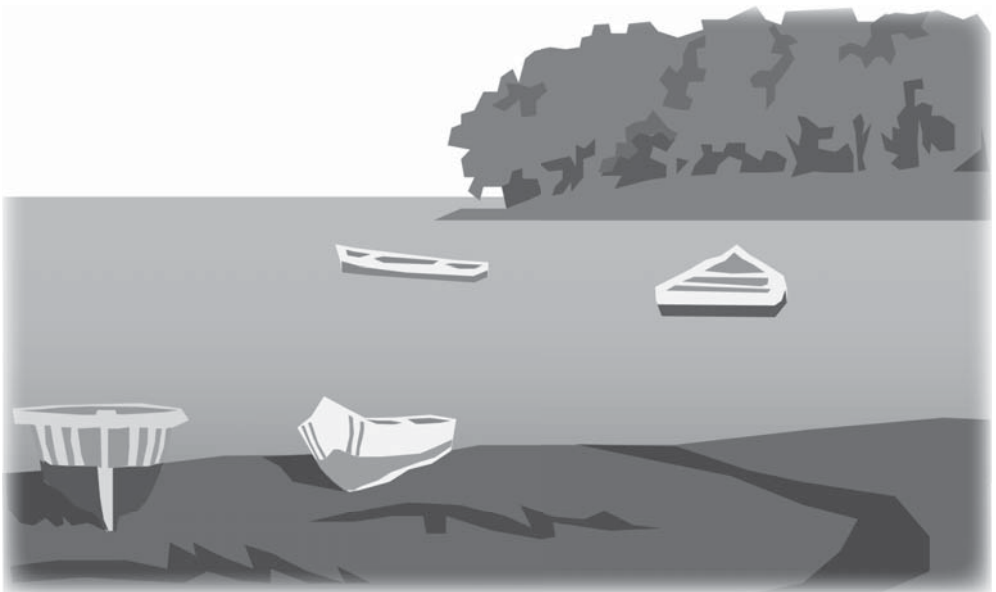
Troop	State Waters	Private	Total
Troop A	1	1	2
Troop B	0	1	1
Troop C	3	0	3
Troop D	5	1	6
Troop E	0	0	0
Troop F	7	0	7
Troop G	0	1	1
Troop H	0	0	0
Troop I	1	0	1
Total	17	4	21

Statewide Drownings by County



Drownings by Body of Water

Body of Water	State Waters	Private	Total
Big Piney River	1	0	1
Big River	1	0	1
Bull Shoals Lake	1	0	1
Lake of the Ozarks	4	0	4
Meramec River	2	0	2
Missouri River	2	0	2
Moreau River	1	0	1
Niangua River	1	0	1
Private Pond	0	4	4
Shoal Creek	1	0	1
Table Rock Lake	3	0	3
Total	17	4	21

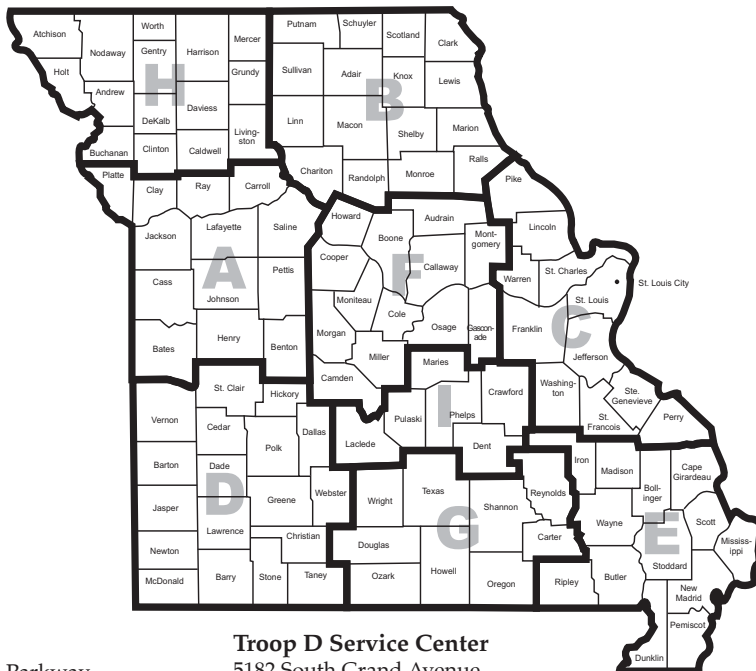


Age of Drowning Victim

Age of Person	State Waters	Private	Total	Percent
1 - 5	0	0	0	0
6 - 10	2	1	3	14.29
11 - 15	2	0	2	9.52
16 - 20	2	0	2	9.52
21 - 25	1	0	1	4.76
26 - 30	2	0	2	9.52
31 - 35	1	0	1	4.76
36 - 40	4	0	4	19.05
41 - 45	1	0	1	4.76
46 - 50	1	0	1	4.76
51 - 55	0	1	1	4.76
56 - 60	0	0	0	0
61 - 65	1	1	2	9.52
66 - 70	0	1	1	4.76
71 - 75	0	0	0	0
76+	0	0	0	0
Total	17	4	21	



Highway Patrol Headquarters



Troop A

504 S.E. Blue Parkway
Lee's Summit, MO 64063-4351
Phone: 816-622-0800
Fax: 816-622-0715

Troop B

308 Pine Crest Drive
Macon, MO 63552-1030
Phone: 660-385-2132
Fax: 660-385-3920

Troop C

891 Technology Drive
Weldon Spring, MO 63304
Phone: 636-300-2800
Fax: 636-300-2741

Troop C Service Center

P.O. Box 612
5268 Flat River Road
Park Hills, MO 63601-0612
Phone: 573-431-0166
Fax: 573-431-4429

Troop D

3131 East Kearney
Springfield, MO 65803-5044
Phone: 417-895-6868
Fax: 417-895-6877

Troop D Service Center

5182 South Grand Avenue
Carthage, MO 64836
Phone: 417-359-1500
Fax: 417-359-1506

Troop E

4947 Highway 67 North
Poplar Bluff, MO 63901-8719
Phone: 573-840-9500
Fax: 573-840-9509

Troop E Service Center

105 Keystone Drive
Sikeston, MO 63801-5603
Phone: 573-472-5200
Fax: 573-472-5204

Troop F

P.O. Box 568
2920 N. Shamrock Road
Jefferson City, MO 65102-0568
Phone: 573-751-1000
Fax: 573-751-6814

Troop G

1226 West Business Highway 60/63
Willow Springs, MO 65793
Phone: 417-469-3121
Fax: 417-469-3105

Troop H

3525 North Belt Highway
St. Joseph, MO 64506-1370
Phone: 816-387-2345
Fax: 816-387-2349

Troop I

P.O. Box 128
1301 Nagogami Road West
Rolla, MO 65402-0128
Phone: 573-368-2345
Fax: 573-368-2352

General Headquarters

P.O. Box 568
1510 East Elm Street
Jefferson City, MO 65102-0568
Phone: 573-751-3313
Fax: 573-751-9419

Emergency Assistance:
1-800-525-5555 or Cellular *55

Road Conditions:
1-888-275-6636



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