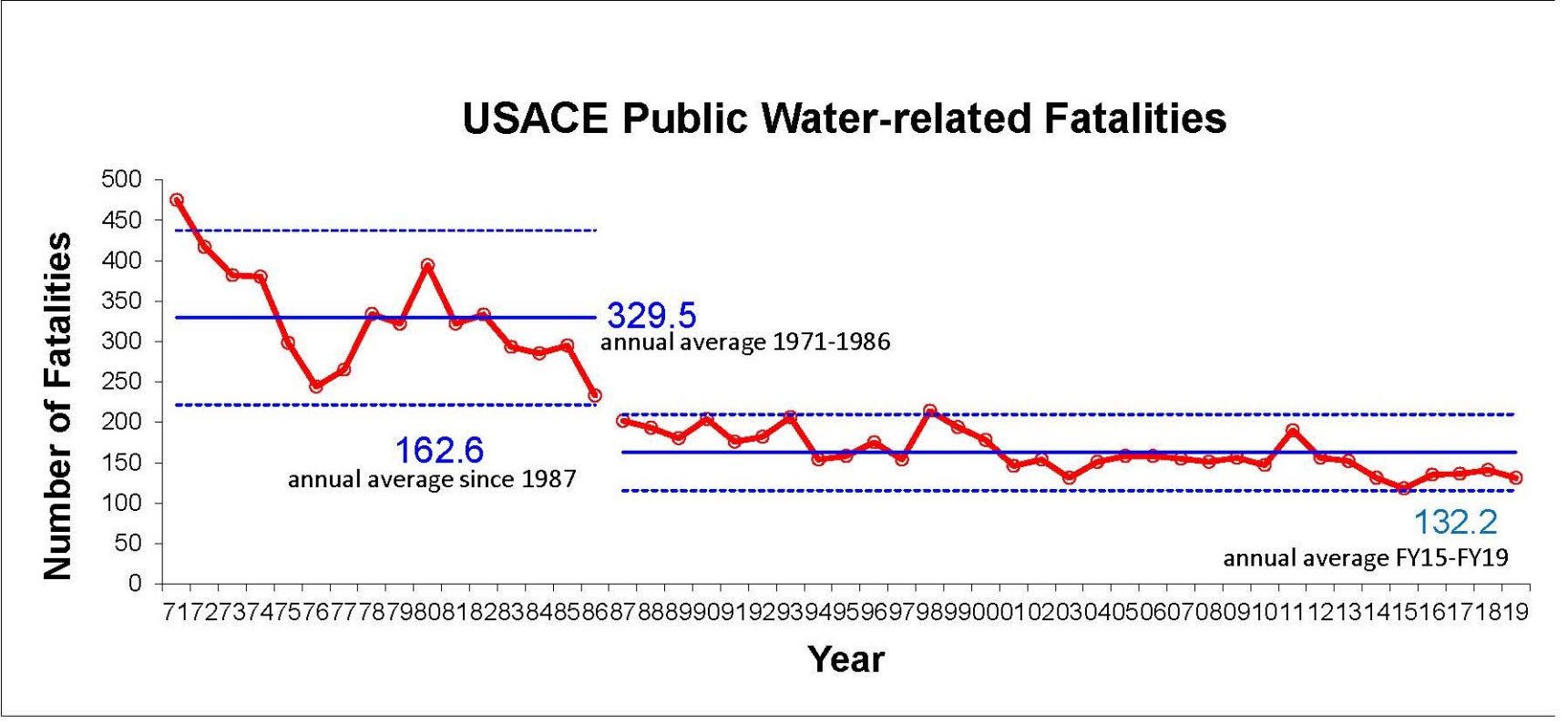
US Army Corps of Engineers®

FY98-19

USACE Public Recreation Fatalities Information

14 May 2020



Note: -1971 Enactment of the Federal Boat Safety Act, the U.S. Coast Guard and the States began working within the forum of NASBLA, (National Association of Boating Law Administrators).

-1986 The Corps began promoting water safety nationwide through an annual, unified safety - education campaign.

-1994 National Operations Center (NOC) for Water Safety established

-1998 NOC began quantifying public fatality data

USACE Public Recreation Fatality One-Page Summary FY98 - FY19

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	**1517**	**44.25%**
Designated Area	283	8.26%
Undesignated Area	1234	36.00%
Boating Total	**1545**	**45.07%**
Swimming	365	10.65%
Collision	178	5.19%
PWC	85	2.48%
Capsized	288	8.40%
Falls from Boat	419	12.22%
*****Other Boating	210	6.13%
Other Falls	**234**	**6.83%**
Other Recr Total	**132**	**3.85%**
TOTAL		100.0%

Total Undesignated Swimming Area	**46.6%**
Total Falls Boat, Dock, Shore, etc.	**19.0%**

Category Summary

Gender		%
393	Female	11.5%
3015	Male	88.0%
20	Unknown	0.6%
3428	**Total**	

*Wearing PFD		%
YES	186	5.4%
NO	3053	89.1%
Unknown	101	2.9%
*N/A	88	2.6%
	3428	

Common Age Groupings		
13 and under	8%	289
Age14-17	9%	317
Age18-35	38%	1305
Age36-53	24%	839
Age 54 & Over	18%	617
		3428

**Alcohol/Drug		%
YES	636	19%
NO	1647	48%
#SUSP	129	4%
Unk	1016	30%
	3428	

###Outgranted		%
YES	73	26%
NO	204	74%
	277	

10 Yr Age Groupings		
Age 0-9	5%	187
Age 10-20	22%	738
Age 21-30	21%	721
Age 31-40	15%	524
Age 41-50	13%	460
Age 51-60	11%	364
Age 61-70	7%	227
71 & Over	4%	146
Age Unknown	2%	61
		3428

**** Swimming Fatalities (incl boat&swim)		%
Designated Area	281	15%
Undesignated Area	1605	85%
Total Swimming Only	1886	

***Cause		
D = Drowning	2940	85.8%
T = Trauma	340	9.9%
DH = Hypothermia	54	1.6%
M = Medical	25	0.7%
*****CO = Carbon Monoxide	17	0.5%
U = Unknown	52	1.5%
	3428	100%

Note:

* Not applicable category in PFD section started in FY06

**FY06-combined alcohol/drugs together so we could summarize prior data, assumed that if no alcohol reported then no drugs were involved

***Started tracking in FY06 carbon monoxide as new cause

**** All swimming-related drownings (intentionally entering water) including boating & swimming when location is known

*****BAC, BAE, BAM,BAS (Control/Speed, Electrical, Carbon Monoxide, Skiing/Towing)

Started tracking "Suspected" Alcohol in 2010

Started including all public recreation-related fatalities in FY11

In FY18, started showing how many of the fatalities occurred in Outgranted areas.

USACE Public Recreation Fatality One-Page Summary FY10 - FY19

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	**611**	**41.23%**
Designated Area	99	6.68%
Undesignated Area	512	34.55%
Boating Total	**706**	**47.64%**
Swimming	192	12.96%
Collision	70	4.72%
PWC	42	2.83%
Capsized	120	8.10%
Falls from Boat	171	11.54%
*****Other Boating	111	7.49%
Other Falls	**108**	**7.29%**
Other Recr Total	**57**	**3.85%**
TOTAL	**1482**	100.0%

Total Undesignated Swimming Area	**47.5%**
Total Falls Boat, Dock, Shore, etc.	**18.8%**

Category Summary

Gender		%
178	Female	12.0%
1295	Male	87.4%
9	Unknown	0.6%
1482	**Total**	

*Wearing PFD		%
YES	94	6.3%
NO	1294	87.3%
Unknown	24	1.6%
*N/A	70	4.7%
	1482	

Common Age Groupings		
13 and under	7%	104
Age14-17	7%	108
Age18-35	38%	558
Age36-53	26%	383
Age 54 & Over	22%	319
		1482

**Alcohol/Drug		%
YES	229	15%
NO	519	35%
#SUSP	130	9%
Unk	604	41%
	1482	

###Outgranted		%
YES	72	26%
NO	205	74%
	277	

10 Yr Age Groupings		
Age 0-9	5%	69
Age 10-20	18%	270
Age 21-30	21%	317
Age 31-40	15%	225
Age 41-50	15%	220
Age 51-60	12%	179
Age 61-70	8%	125
71 & Over	5%	67
Age Unknown	1%	10
		1482

**** Swimming Fatalities (incl boat&swim)		%
Designated Area	97	12%
Undesignated Area	710	88%
Total Swimming Only	807	

***Cause		
D = Drowning	1275	86.0%
T = Trauma	175	11.8%
DH = Hypothermia	12	0.8%
M = Medical	5	0.3%
******CO = Carbon Monoxide**	6	0.4%
U = **U**nknown	9	0.6%
	1482	100%

Note:

**** All swimming-related drownings (intentionally entering water) including boating & swimming when location is known

*****BAC, BAE, BAM,BAS (Control/Speed, Electrical, Carbon Monoxide, Skiing/Towing)

Started tracking "Suspected" Alcohol in 2010

Started including all public recreation-related fatalities in FY11

In FY18, started showing how many of the fatalities occurred in Outgranted Areas.

USACE Public Recreation Fatality One-Page Summary
FY18 Data

Activity Summary (Based on Codes)	FY18	FY18 % of Total
Swimming Total	**53**	**36.3%**
Designated Area	**9**	**6.2%**
Undesignated Area	**44**	**30.1%**
Boating Total	**78**	**53.4%**
Swimming	**25**	**17.1%**
Collision	**4**	**2.7%**
PWC	**7**	**4.8%**
Capsized	**12**	**8.2%**
Falls from Boat	**19**	**13.0%**
*****Other Boating	**11**	**7.5%**
Other Falls Total	**9**	**6.2%**
Other Recreation	**6**	**4.1%**
TOTAL	**146**	

	FY18
Total Undesignated Swimming Area	**47%**
Total Falls Boat, Shore, etc.	**19%**

Fatalities By Division

LRD 30	20.55%
MVD 8	5.48%
NAD 0	0.00%
NWD 21	14.38%
SAD 30	20.55%
SPD 8	5.48%
SWD 49	33.56%

Districts with most fatalities

SWF 30	20.55%
SAM 17	11.64%
LRN 17	11.64%
SWT 14	9.59%

Public Recreation Fatality Data Summary

Gender	FY18	
Female	19	13.0%
Male	127	87.0%
Unknown	0	0.0%
Total	146	

Wearing PFD	FY18	
YES	7	4.8%
NO	131	89.7%
Unknown	0	0.0%
N/A	8	5.5%

10 yr Age Grpgs	FY18	
Age 0-9	1.4%	2
Age 10-20	13.7%	20
Age 21-30	19.9%	29
Age 31-40	14.4%	21
Age 41-50	17.1%	25
Age 51-60	17.8%	26
Age 61-70	10.3%	15
71 & Over	5.5%	8
Age Unknown	0.0%	0
Total		146

Alcohol/Drug	FY18	
YES	21	14.4%
NO	48	32.9%
SUSPECTED	14	9.6%
Unknown	63	43.2%

****Swimming Fatalities		FY18	Outgranted		%
Designated Area	9	11.7%	YES	38	26.0%
Undesignated Area	68	88.3%	NO	108	74.0%
Total	77				

Common Age Grps	FY18	
13 & under	2.1%	3
Age14-17	4.8%	7
Ages 18-35	34.2%	50
Ages 36-53	32.2%	47
Age 54 +	26.7%	39

Cause	FY18	
D = Drowning	124	84.9%
T = Trauma	17	11.6%
DH = Hypothermia	2	1.4%
M = Medical	0	0.0%
CO=Carbon Monoxide	3	2.1%
U = Unknown	0	0.0%

Note:

**** All swimming-related drownings (intentionally entering water) including boating & swimming when location is known

*****BAC, BAE, BAM,BAS (Control/Speed, Electrical, Carbon Monoxide, Skiing/Towing)

The total does not include the Table Rock Lake duck boat fatalities that occurred in July 2018 because it was a commercial vessel for hire and did not have to comply with recreational boating laws.

USACE Public Recreation Fatality One-Page Summary
FY19 Data

Activity Summary (Based on Codes)	FY19	FY19 % of Total
Swimming Total	**37**	**28.2%**
Designated Area	**8**	**6.1%**
Undesignated Area	**29**	**22.1%**
Boating Total	**81**	**61.8%**
Swimming	**20**	**15.3%**
Collision	**6**	**4.6%**
PWC	**6**	**4.6%**
Capsized	**13**	**9.9%**
Falls from Boat	**20**	**15.3%**
*****Other Boating	**16**	**12.2%**
Other Falls Total	**13**	**9.9%**
Other Recreation	**0**	**0.0%**
TOTAL	**131**	

	FY19
Total Undesignated Swimming Area	**37%**
Total Falls Boat, Shore, etc.	**25%**

Fatalities By Division

LRD 27	20.61%
MVD 12	9.16%
NAD 1	0.76%
NWD 9	6.87%
SAD 29	22.14%
SPD 5	3.82%
SWD 48	36.64%

Districts with most fatalities

SWF 25	19.08%
SAM 16	12.21%
LRN 13	9.92%
SWT 12	9.16%
LRL 12	9.16%

Public Recreation Fatality Data Summary

Gender	FY19	
Female	19	14.5%
Male	112	85.5%
Unknown	0	0.0%
Total	131	

Wearing PFD	FY19	
YES	11	8.4%
NO	120	91.6%
Unknown	0	0.0%
N/A	0	0.0%

10 yr Age Grpgs	FY19	
Age 0-9	6.1%	8
Age 10-20	10.7%	14
Age 21-30	22.1%	29
Age 31-40	16.0%	21
Age 41-50	15.3%	20
Age 51-60	12.2%	16
Age 61-70	9.9%	13
71 & Over	7.6%	10
Age Unknown	0.0%	0
Total		131

Alcohol/Drug	FY19	
YES	18	13.7%
NO	40	30.5%
SUSPECTED	10	7.6%
Unknown	63	48.1%

****Swimming Fatalities		FY19	Outgranted		%
Designated Area	7	12.3%	YES	35	26.7%
Undesignated Area	50	87.7%	NO	96	73.3%
Total	57				

Common Age Grps	FY19	
13 & under	6.9%	9
Age14-17	5.3%	7
Ages 18-35	32.8%	43
Ages 36-53	27.5%	36
Age 54 +	27.5%	36

Cause	FY19	
D = Drowning	117	89.3%
T = Trauma	14	10.7%
DH = Hypothermia	0	0.0%
M = Medical	0	0.0%
CO=Carbon Monoxide	0	0.0%
U = Unknown	0	0.0%

Note:

**** All swimming-related drownings (intentionally entering water) including boating & swimming when location is known

*****BAC, BAE, BAM,BAS (Control/Speed, Electrical, Carbon Monoxide, Skiing/Towing)

U.S. Army Corps of Engineers
Public Recreation Fatalities *FY98-FY19

Total Fatalities
3,428

*Fiscal Year is OCT 01-SEP 30

Swimming
Total 1,517
44.25%

Boating
Total 1,545
45.07%

8.26%	283	Designated
36.00%	1,234	Undesignated
6.83%	234	Other Falls
3.85%	132	Other Rec Total
19.0%	653	Total Falls – Boat, Dock, Shore, etc.
46.6%	1,599	Total Undesignated Swimming
10.65%	365	Swimming
5.19%	178	Collision
2.48%	85	PWC
8.40%	288	Capsized
12.22%	419	Boat Falls
6.13%	210	Other Boating

88% were men

Fatalities by Age

0-13	14-17	18-35	36-53	54+
8%	9%	38%	24%	18%

89% Were Not Wearing a Life Jacket

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U.S. Army Corps of Engineers
Public Recreation Fatality Trends FY98-19

Gender: Male (88%)

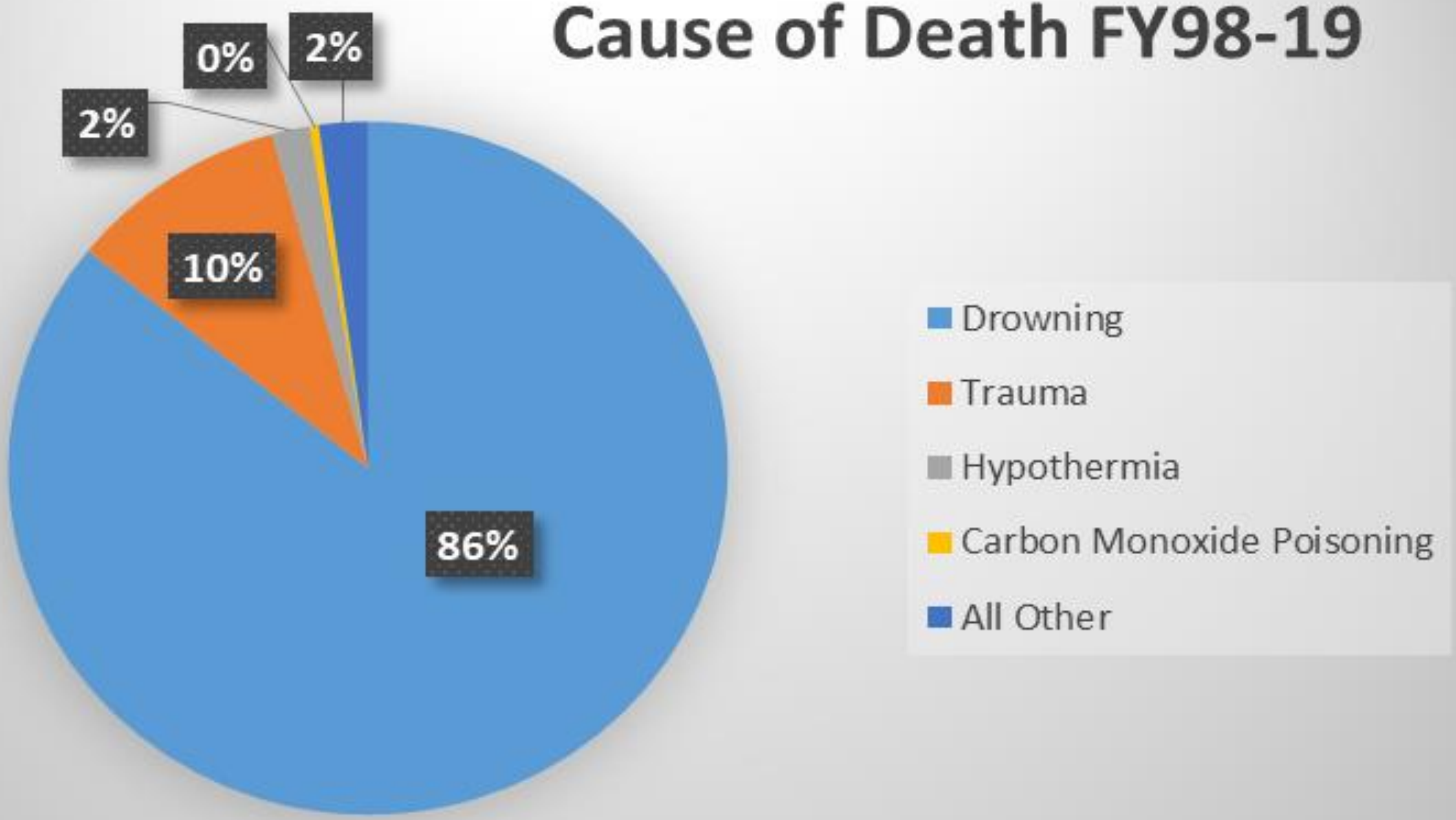
Age: 18-35 (38%) 36-53 (24%)

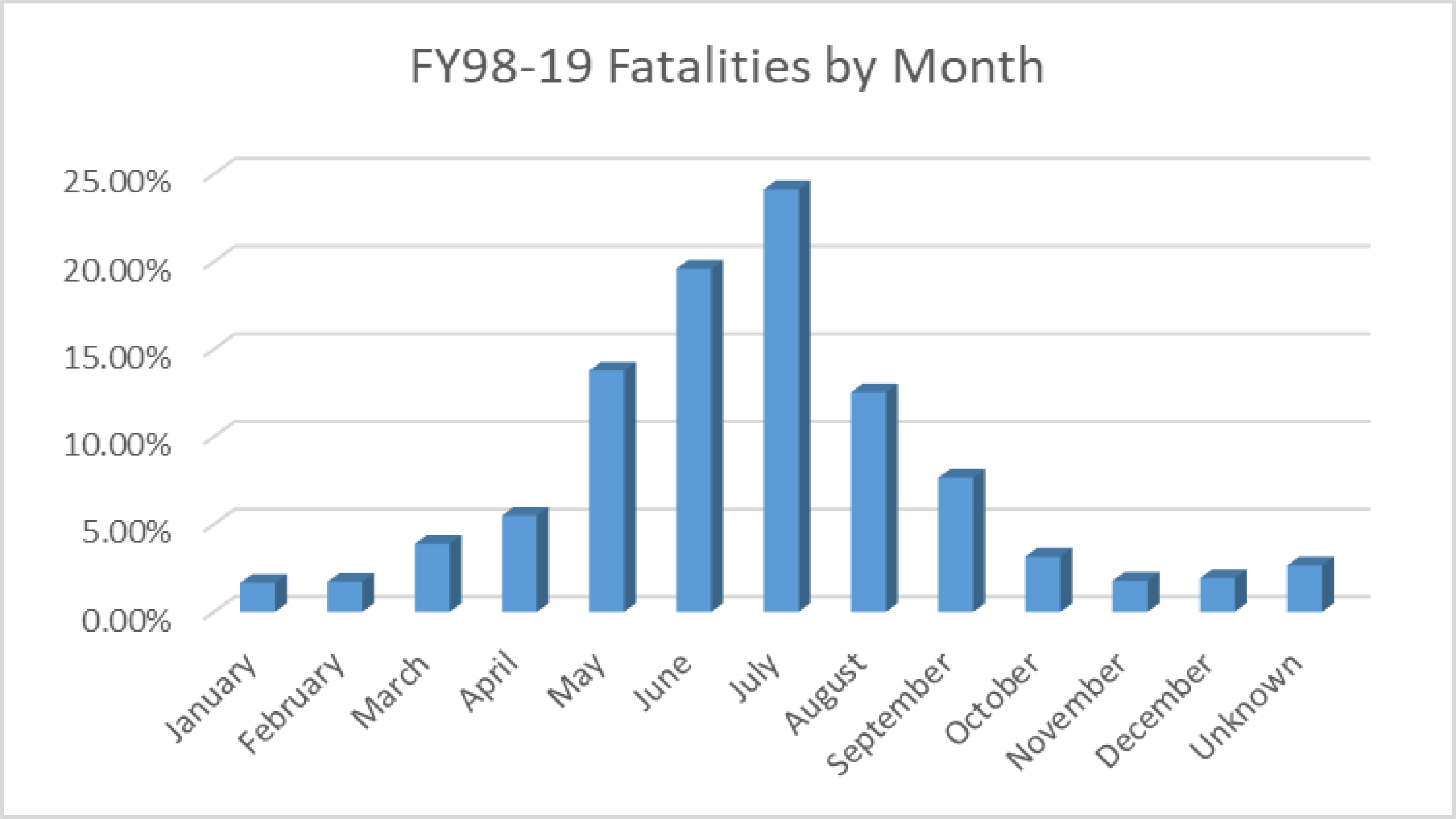
Not Wearing a Life Jacket: 89%

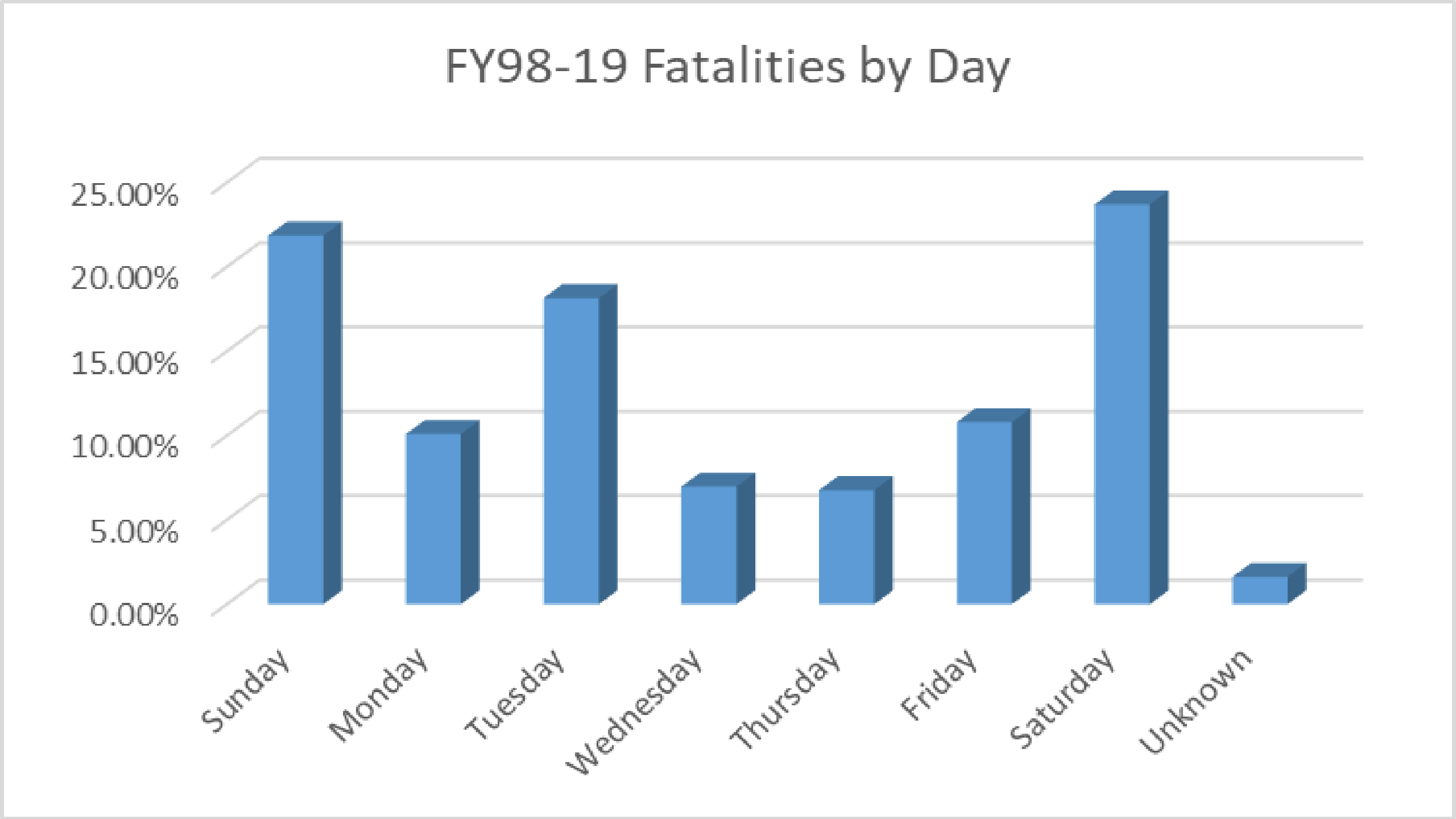
Activity:

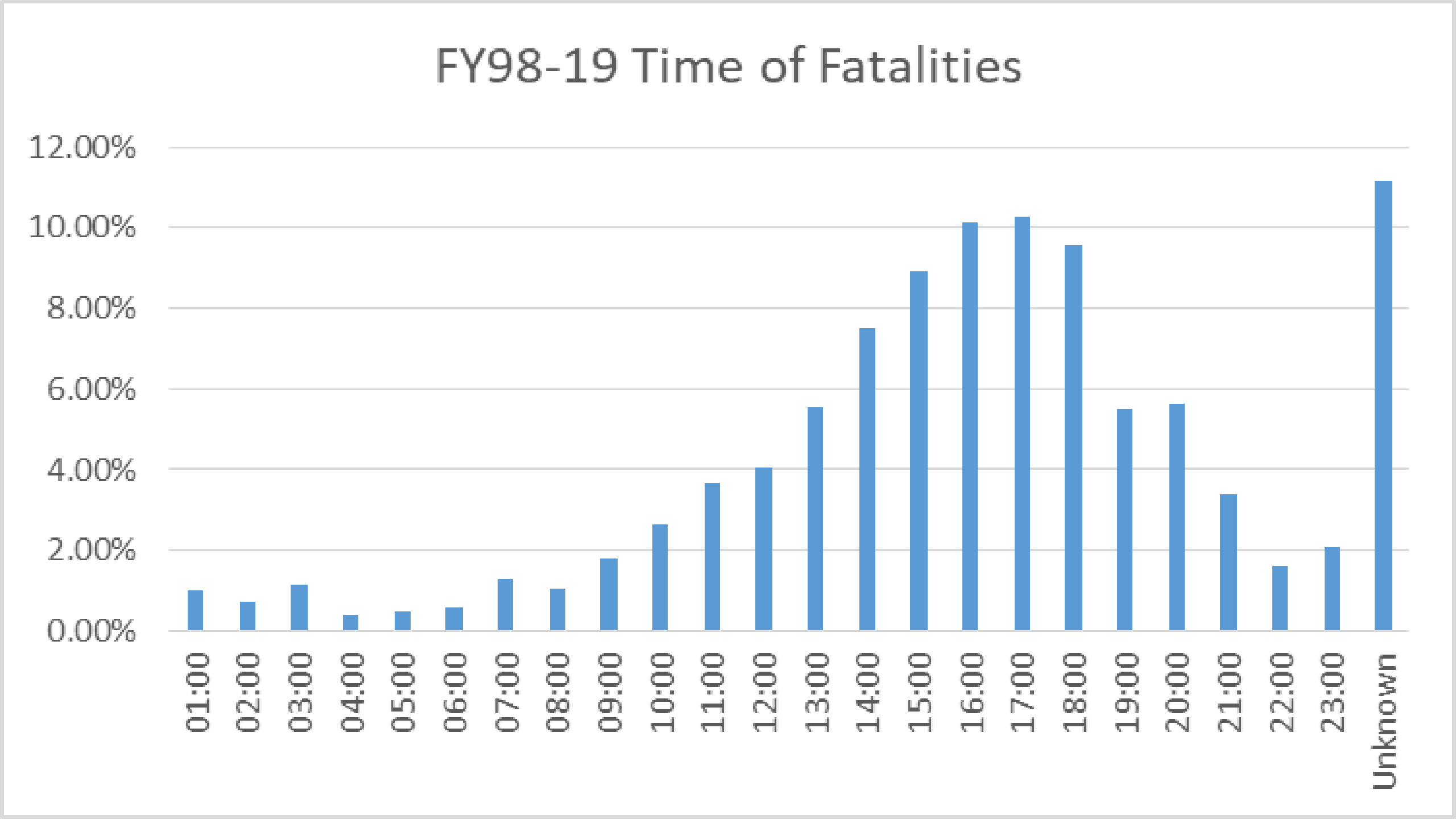
- Boating: 45%
  - Falls from boat: 12%
  - Swimming in association with: 11%
  - Capsized: 8%
  - Collision: 5%
  - PWC: 3%
  - Other: 6%
- Swimming: 44%
  - Undesignated area: 36%
  - Designated area: 8%
- Other Falls: 7%
- Other Recreation: 4%

Cause of Death FY98-19




FY98-19 Fatalities by Month
25.00%
20.00%
15.00%
10.00%
5.00%
0.00%
January
February
March
April
May
June
July
August
September
October
November
December
Unknown


FY98-19 Fatalities by Day
25.00%
20.00%
15.00%
10.00%
5.00%
0.00%
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Unknown


FY98-19 Time of Fatalities
12.00%
10.00%
8.00%
6.00%
4.00%
2.00%
0.00%
01:00
02:00
03:00
04:00
05:00
06:00
07:00
08:00
09:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
Unknown

Corps of Engineers Public Recreation Fatalities FY98 - FY19

Division	District		1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total	Average
Great Lakes and Ohio River	Buffalo	LRB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	Chicago	LRC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	Detroit	LRE	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
	Huntington	LRH	7	4	3	7	10	2	0	6	7	3	1	5	4	3	5	3	1	8	4	3	6	1	93	4.2
	Louisville	LRL	6	6	3	2	3	4	5	10	14	7	8	9	6	4	9	9	7	9	7	6	4	12	150	6.8
	Nashville	LRN	21	17	17	10	11	5	11	13	16	16	11	14	15	19	10	14	18	14	13	17	17	13	312	14.2
	Pittsburgh	LRP	6	2	2	3	0	0	0	0	0	1	3	4	6	1	5	5	1	2	1	4	3	1	50	2.3
	TOTAL	**LRD**	**40**	**29**	**25**	**22**	**24**	**11**	**16**	**30**	**37**	**27**	**23**	**32**	**31**	**27**	29	31	27	33	25	30	30	27	606	27.5
Mississippi Valley	Vicksburg	MVK	12	10	8	9	2	7	8	4	1	4	5	2	9	2	4	4	0	1	4	0	4	5	105	4.8
	Memphis	MVM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	New Orleans	MVN	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	3	0.1
	St. Paul	MVP	0	0	0	0	1	1	2	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	9	0.4
	Rock Island	MVR	1	5	0	0	1	2	1	2	8	3	2	0	1	0	2	3	5	2	2	0	1	5	46	2.1
	St. Louis	MVS	11	3	2	3	2	5	1	5	3	8	1	2	5	4	3	2	3	3	2	3	3	2	76	3.5
	TOTAL	**MVD**	**24**	**18**	**10**	**12**	**6**	**15**	**12**	**11**	**12**	**20**	**8**	**4**	**15**	**8**	10	9	8	6	8	3	8	12	239	10.9
North Atlantic	Baltimore	NAB	1	1	0	0	0	0	2	3	1	2	1	0	1	2	4	2	2	2	2	1	0	0	27	1.2
	New England	NAE	0	1	0	0	1	1	0	1	2	0	0	0	1	2	0	0	1	0	3	0	0	1	14	0.6
	New York	NAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	Norfolk	NAO	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
	Philadelphia	NAP	0	3	1	2	0	0	0	1	0	1	0	1	0	2	0	0	0	0	0	1	0	0	12	0.5
	TOTAL	**NAD**	**1**	**5**	**1**	**2**	**1**	**1**	**2**	**5**	**4**	**3**	**1**	**1**	**2**	**6**	**4**	**2**	**3**	**2**	**5**	**2**	**0**	**1**	54	2.5
Northwestern	Kansas City	NWK	6	14	4	2	9	9	8	11	12	5	5	7	9	7	6	16	10	6	5	5	5	1	162	7.4
	Omaha	NWO	3	8	8	3	5	1	3	2	3	3	4	2	1	4	9	7	3	8	3	6	9	5	100	4.5
	Portland	NWP	8	2	4	0	1	5	2	4	3	5	4	5	2	1	2	1	0	4	2	2	3	3	63	2.9
	Seattle	NWS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0.1
	Walla Walla	NWW	0	2	2	2	1	1	2	5	7	1	2	3	4	2	2	1	1	0	1	1	4	0	44	2.0
	TOTAL	**NWD**	**17**	**27**	**18**	**7**	**16**	**16**	**15**	**22**	**25**	**14**	**15**	**17**	**16**	**14**	**19**	**25**	**15**	**18**	**11**	**14**	**21**	**9**	371	16.9
Pacific Ocean	Alaska	POA	4	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6	0.3
	TOTAL	**POD**	**4**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	6	0.3
South Atlantic	Charleston	SAC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	Jacksonville	SAJ	0	2	3	0	0	0	2	2	0	0	2	5	1	2	1	1	1	4	2	0	1	0	29	1.3
	Mobile	SAM	19	33	15	13	20	16	22	18	18	24	23	16	17	31	21	17	24	14	22	21	17	16	437	19.9
	Savannah	SAS	13	12	7	10	9	6	10	3	4	8	8	3	10	9	8	5	7	7	7	6	8	10	170	7.7
	Wilmington	SAW	11	4	10	6	8	5	8	1	5	4	9	10	2	5	3	6	4	3	3	7	4	3	121	5.5
	TOTAL	**SAD**	**43**	**51**	**35**	**29**	**37**	**27**	**42**	**24**	**27**	**36**	**42**	**34**	**30**	**47**	**33**	**29**	**36**	**28**	**34**	**34**	**30**	**29**	757	34.4
South Pacific	Albuquerque	SPA	2	2	3	4	1	0	4	2	1	0	2	0	0	2	2	1	0	0	1	3	3	0	33	1.5
	Sacramento	SPK	5	1	2	8	7	5	6	5	2	4	0	4	3	8	3	2	2	1	0	6	4	3	81	3.7
	Los Angeles	SPL	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
	San Francisco	SPN	5	0	3	1	1	1	1	1	2	1	0	6	0	0	0	1	0	1	0	2	1	2	29	1.3
	TOTAL	**SPD**	**12**	**3**	**8**	**13**	**9**	**6**	**11**	**8**	**6**	**5**	**2**	**10**	**3**	**10**	**5**	**4**	**2**	**2**	**1**	**11**	**8**	**5**	144	6.5
Southwestern	Fort Worth	SWF	35	30	43	30	26	22	23	23	23	16	33	30	27	40	25	24	26	14	25	21	30	25	591	26.9
	Galveston	SWG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4	5	0.2
	Little Rock	SWL	17	15	9	10	20	14	18	17	10	13	3	15	7	11	15	19	17	6	16	7	5	7	271	12.3
	Tulsa	SWT	21	16	28	21	15	19	12	18	14	20	24	13	16	34	17	19	7	12	14	18	14	12	384	17.5
	TOTAL	**SWD**	**73**	**61**	**80**	**61**	**61**	**55**	**53**	**58**	**47**	**49**	**60**	**58**	**50**	**85**	**57**	**62**	**51**	**32**	**55**	**46**	**49**	**48**	1251	56.9
Nationwide	**TOTAL**	**COE**	214	194	178	146	154	131	151	158	158	155	151	156	147	197	157	162	142	121	139	140	146	131	3428	155.8
			1998	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**		**Average**
	Change			-9%	-8%	-18%	5%	-15%	15%	5%	0%	-2%	-3%	3%	-6%	34%	-20%	3%	-12%	-15%	15%	1%	4%	-10%		

Note: Started recording all public recreation fatalities in FY11, prior to that only water-related

LRD Public Recreation Fatality One-Page Summary FY98 - FY19

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	**239**	**39.44%**
Designated Area	45	7.43%
Undesignated Area	194	32.01%
Boating Total	**300**	**49.50%**
Swimming	62	10.23%
Collision	48	7.92%
PWC	13	2.15%
Capsized	42	6.93%
Falls from Boat	93	15.35%
*****Other Boating	42	6.93%
Other Falls Total	**47**	**7.76%**
Other Recreation	**20**	**3.30%**
TOTAL	**606**	

Total Undesignated Swimming Area	**42.24%**
Total Falls Boat, Shore, etc.	**23.10%**

###Outgranted		%
YES	13	23%
NO	44	77%
	57	

Gender		%
Female	74	12.2%
Male	531	87.6%
Unknown	1	0.2%
Total	606	

Wearing PFD		%
YES	34	5.6%
NO	546	90.1%
Unknown	13	2.1%
*N/A	13	2.1%
	606	

Age 0-9	5%	31
Age 10-20	22%	131
Age 21-30	19%	113
Age 31-40	15%	91
Age 41-50	16%	94
Age 51-60	11%	65
Age 61-70	7%	43
71 & Over	4%	25
Age Unknown	2%	13
Total		**606**

**Alcohol/Drug		%
YES	124	20.5%
NO	232	38.3%
#Suspected	29	4.8%
Unknown	221	
	606	

**** Swimming Fatalities (includes boat/swim)			%
Designated Area		44	14.5%
Undesignated Area		260	85.5%
Total		**304**	

Other Common Age Groupings		
13 & under	7%	45
Age14-17	7%	43
Ages 18-35	38%	233
Ages 36-53	26%	156
Age 54 & Over	19%	116
Age Unknown	2%	13
		606

Cause			
D = Drowning		527	87.0%
T = Trauma		57	9.4%
DH = Hypothermia		4	0.7%
M = Medical		4	0.7%
***CO = Carbon Monoxide**		3	0.5%
U = **U**nknown		11	1.8%
		606	

Note:

* Not applicable category in PFD section started in FY06

**FY06-combined alcohol/drugs together so we could summarize previous data, assumed that if no alcohol reported then no drugs were involved

***Started tracking in FY06 carbon monoxide as new cause

**** All swimming-related drownings including swimming around boats when location is known

*****BAC, BAE, BAM,BAS (Control/Speed, Electrical, Carbon Monoxide, Skiing/Towing)

Started tracking "Suspected" Alcohol in 2010

Started including all public recreation-related fatalities in FY11

In FY18, started showing how many of the fatalities occurred in Outgranted areas.

MVD Public Recreation Fatality One-Page Summary FY98 - FY19

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	**84**	**35.15%**
Designated Area	36	**15.06%**
Undesignated Area	48	**20.08%**
Boating Total	**125**	**52.30%**
Swimming	36	**15.06%**
Collision	22	**9.21%**
PWC	4	**1.67%**
Capsized	14	**5.86%**
Falls from Boat	37	**15.48%**
*****Other Boating	12	**5.02%**
Other Falls Total	**19**	**7.95%**
Other Recreation	**11**	**4.60%**
TOTAL	239	

Total Undesignated Swimming Area	**35.15%**
Total Falls Boat, Shore, etc.	**23.43%**

YES	1	5%
NO	19	95%
	20	

MVD Recreation Fatality Data Summary FY98 - FY19

Gender		%
Female	29	12.1%
Male	210	87.9%
Unknown	0	0.0%
Total	239	

*Wearing PFD		%
YES	16	6.7%
NO	214	89.5%
Unknown	6	2.5%
*N/A	3	1.3%
	239	

Age 0-9	6%	14
Age 10-20	21%	49
Age 21-30	18%	42
Age 31-40	15%	36
Age 41-50	13%	32
Age 51-60	13%	30
Age 61-70	7%	17
71 & Over	6%	14
Age Unknown	2%	5
Total		**239**

	10%	23
Age14-17	9%	22
Ages 18-35	34%	81
Ages 36-53	22%	53
Age 54 & Over	23%	55
		239

	**Alcohol/Drug		%
	YES	41	17%
	NO	120	50%
****	Suspected	6	3%
	Unk	72	30%

****Swimming Fatalities (includes boat/swim)			%
Designated Area		36	31%
Undesignated Area		84	73%
Total		120	

Cause			
D = Drowning		210	87.9%
T = Trauma		22	9.2%
DH = Hypothermia		5	2.1%
M = Medical		1	0.4%
***CO = Carbon Monoxide**		1	0.4%
U = Unknown		0	0.0%
		239	

Note:

* Not applicable category in PFD started section in FY06

**FY06-combined alcohol/drugs together so we could summarize with previous data, assumed that if no alcohol reported then no drugs were involved

***Started tracking in FY06 carbon monoxide as new cause

**** All swimming-related drownings including swimming around boats when location is known

*****BAC, BAE, BAM,BAS (Control/Speed, Electrical, Carbon Monoxide, Skiing/Towing)

Started tracking "Suspected" Alcohol in 2010

Started including all public recreation-related fatalities in FY11

In FY18, started showing how many of the fatalities occurred in Outrgranted areas.

NAD Public Recreation Fatality One-Page Summary FY98 - FY19

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	**24**	**44.44%**
Designated Area	3	5.56%
Undesignated Area	21	38.89%
Boating Total	**23**	**42.59%**
Swimming	5	9.26%
Collision	5	9.26%
PWC	0	0.00%
Capsized	6	11.11%
Falls from Boat	2	1.85%
*****Other Boating	5	9.26%
Other Falls Total	**1**	**1.85%**
Recr-not water	**6**	**11.11%**
TOTAL	54	

Total Undesignated Swimming Area	**48.15%**
Total Falls Boat, Shore, etc.	**5.56%**

YES	0	0%
NO	1	0%
	1	

NAD Recreation Fatality Data Summary FY98 - FY19

Gender		%
Female	8	14.8%
Male	46	85.2%
Unknown	0	0.0%
Total	54	

Wearing PFD		%
YES	2	3.7%
NO	42	77.8%
Unknown	4	7.4%
*N/A	6	11.1%
	54	

Age 0-9	4%	2
Age 10-20	19%	10
Age 21-30	19%	10
Age 31-40	9%	5
Age 41-50	11%	6
Age 51-60	20%	11
Age 61-70	4%	2
71 & Over	9%	5
Age Unknown	6%	3
Total	100%	54

YES	4	7%
NO	25	46%
# SUSPECTED	2	4%
Unknown	23	43%

****Swimming Fatalities(incl boat, swim)		%
Designated Area	3	10%
Undesignated Area	26	90%
Total Swimming	29	

	4%	2
Age14-17	17%	9
Ages 18-35	24%	13
Ages 36-53	20%	11
Age 54 +	30%	16
		54

Cause			
D = Drowning		39	72.2%
T = Trauma		8	14.8%
DH = Hypothermia		2	3.7%
M = Medical		3	5.6%
***CO = Carbon Monoxide**		1	1.9%
U = Unknown		1	1.9%
		54	100%

Note:

* Not applicable category in PFD section started in FY06

**FY06-combined alcohol/drugs together so we could summarize with previous data, assumed that if no alcohol reported then no drugs were involved

***Started tracking in FY06 carbon monoxide as new cause

**** Includes all swimming-related drownings even around boats when location is known

*****BAC, BAE, BAM,BAS (Control/Speed, Electrical, Carbon Monoxide, Skiing/Towing)

Started tracking "Suspected" Alcohol in 2010

Started including all public recreation-related fatalities in FY11

In FY18, started showing how many of the fatalities occurred in Outgranted areas.

NWD Public Recreation Fatality One-Page Summary FY98 - FY19

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	**137**	**37%**
Designated Area	23	6%
Undesignated Area	114	31%
Boating Total	**175**	**47%**
Swimming	43	12%
Collision	17	5%
PWC	11	3%
Capsized	42	11%
Falls from Boat	39	11%
*****Other Boating	23	6%
Other Falls	**30**	**8%**
Other Recreation	**29**	**8%**

Total Undesignated Swimming Area	**42%**
Total Falls Boat, Shore, etc.	**19%**

###Outgranted		%
YES	12	40%
NO	18	60%
	30	

NWD Water-Related Fatality Data Summary FY98 - FY19

Gender		%
Female	40	11%
Male	328	88%
Unknown	3	1%
Total	371	

Wearing PFD		%
YES	20	5%
NO	314	85%
Unknown	22	6%
*N/A	15	4%
	371	

10 yr Age Groupings		
Age 0-9	5%	18
Age 10-20	19%	71
Age 21-30	19%	69
Age 31-40	15%	57
Age 41-50	15%	55
Age 51-60	10%	38
Age 61-70	7%	26
71 & Over	8%	29
Age Unknown	2%	8
Total		371

**Alcohol/Drug		%
YES	84	23%
NO	164	44%
#Suspected	15	4%
Unk	108	29%
	371	

Swimming Fatalities (include boat/swim)		%	****
Designated Area	23	13%	
Undesignated Area	158	87%	
Total	181		

Other Common Age		
13 & under	6%	24
Age14-17	9%	35
Ages 18-35	34%	125
Ages 36-53	26%	97
Age 54 & Over	22%	82
		371

Cause			
D = Drowning	295	79.5%	
T = Trauma	42	11.3%	
DH = Hypothermia	13	3.5%	
M = Medical	2	0.5%	
***CO = Carbon Monoxide**	7	1.9%	
U = **U**nknown	12	3.2%	
	371	100%	

Note:

* Not applicable category started in PFD section in FY06

**FY06-combined alcohol/drugs together so we could summarize previous data, assumed that if no alcohol reported then no drugs were involved

***Started tracking in FY06 carbon monoxide as new cause

**** All swimming-related drownings including boating & swimming when location is known

*****BAC, BAE, BAM,BAS (Control/Speed, Electrical, Carbon Monoxide, Skiing/Towing)

Started tracking "Suspected" Alcohol in 2010

Started including all public recreation-related fatalities in FY11

In FY18, started showing how many of the fatalities occurred in Outgranted areas.

SAD Public Recreation Fatality One-Page Summary FY98 - FY19

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	**356**	**47.03%**
Designated Area	63	8.32%
Undesignated Area	293	38.71%
Boating Total	**321**	**42.40%**
Swimming	64	8.45%
Collision	30	3.96%
PWC	20	2.64%
Capsized	50	6.61%
Falls from Boat	95	12.55%
*****Other Boating	62	8.19%
Other Falls Total	**62**	**8.19%**
Other Recreation	**18**	**2.38%**
TOTAL	757	

Total Undesignated Swimming Area	**47.16%**
Total Falls Boat, Shore, etc.	**20.74%**

YES	16	27%
NO	43	73%
	59	

SAD Recreation Fatality Data Summary FY98 - FY19

Gender		%
Female	79	10.4%
Male	673	88.9%
Unknown	5	0.7%
Total	**757**	

Wearing PFD		%
YES	33	4.4%
NO	700	92.5%
Unknown	14	1.8%
*N/A	10	1.3%
	757	

Age 0-9	5%	36
Age 10-20	22%	165
Age 21-30	23%	173
Age 31-40	14%	106
Age 41-50	12%	90
Age 51-60	12%	90
Age 61-70	8%	59
71 & Over	3%	26
Age Unknown	2%	12
Total		**757**

	**Alcohol/Drug		%
	YES	112	14.8%
	NO	387	51.1%
#	Suspected	29	3.8%
	Unknown	229	30.3%
		757	

****Swimming Fatalities (incl boat & swim)		%
Designated Area	63	15.1%
Undesignated Area	355	84.9%
Total Swimming	418	

	8%	62
Age14-17	10%	73
Ages 18-35	39%	296
Ages 36-53	23%	175
Age 54 & Over	18%	139

Cause			
D = Drowning		655	87%
T = Trauma		81	11%
DH = Hypothermia		2	0%
M = Medical		5	1%
***CO = Carbon Monoxide**		4	1%
U = **U**nknown		10	1%
		757	

Note:

* Not applicable category in PFD section started in FY06

**FY06-combined alcohol/drugs together so we could summarize with previous data, assumed that if no alcohol reported then no drugs were involved

***Started tracking in FY06 carbon monoxide as new cause

**** Includes swimming-related drownings even boat/swim when location is known

*****BAC, BAE, BAM,BAS (Control/Speed, Electrical, Carbon Monoxide, Skiing/Towing)

Started tracking "Suspected" Alcohol in 2010

Started including all public recreation-related fatalities in FY11

In FY18, started showing how many of the fatalities occurred in Outgranted areas.

SPD Public Recreation Fatality One-Page Summary FY98 - FY19

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	**70**	**48.61%**
Designated Area	2	1.39%
Undesignated Area	68	47.22%
Boating Total	**57**	**39.58%**
Swimming	15	10.42%
Collision	3	2.08%
PWC	5	3.47%
Capsized	11	7.64%
Falls from Boat	15	10.42%
*****Other Boating	8	5.56%
Other Falls Total	**12**	**8.33%**
Other Recreation	**5**	**3.47%**
TOTAL	144	

Total Undesignated Swimming Area	**57.64%**
Total Falls Boat, Shore, etc.	**18.75%**

###Outgranted		%
YES	1	8%
NO	12	92%
	13	

SPD Recreation Fatality Data Summary FY98 - FY19

Gender		%
Female	21	14.6%
Male	121	84.0%
Unknown	2	1.4%
Total	144	

*Wearing PFD		%
YES	10	6.9%
NO	126	87.5%
Unknown	7	4.9%
*N/A	1	0.7%
	144	

Age 0-9	9%	13
Age 10-20	24%	34
Age 21-30	17%	25
Age 31-40	15%	21
Age 41-50	16%	23
Age 51-60	6%	9
Age 61-70	3%	5
71 & Over	5%	7
Age Unknown	5%	7
Total		144

**Alcohol/Drug		%
YES	21	15%
NO	82	57%
#Suspected	5	3%
Unk	36	25%

	13%	18
Age14-17	10%	14
Ages 18-35	36%	52
Ages 36-53	25%	36
Age 54 & Over	12%	17
		144

Designated Area		2	2%
Undesignated Area		83	98%
Total		85	

Cause			
D = Drowning		124	86.1%
T = Trauma		14	9.7%
DH = Hypothermia		2	1.4%
M = Medical		1	0.7%
***CO = Carbon Monoxide**		0	0.0%
U = **U**nknown		3	2.1%
		144	

Note:

* Not Applicable category in PFD section started in FY06

**FY06-combined alcohol/drugs together so we could summarize with previous data, assumed that if no alcohol reported then no drugs were involved

***Started tracking in FY06 carbon monoxide as new cause

**** All swimming-related drownings including boat & swim when location is known

*****BAC, BAE, BAM,BAS (Control/Speed, Electrical, Carbon Monoxide, Skiing/Towing)

Started tracking "Suspected" Alcohol in 2010

Started including all public recreation-related fatalities in FY11

In FY18, started showing how many of the fatalities occurred in Outgranted areas.

SWD Public Recreation Fatality One-Page Summary FY98 - FY19

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	**595**	**47.56%**
Designated Area	110	8.79%
Undesignated Area	485	38.77%
Boating Total	**538**	**43.01%**
Swimming	145	11.59%
Collision	54	4.32%
PWC	32	2.56%
Capsized	120	9.59%
Falls from Boat	133	10.63%
*****Other Boating	54	4.32%
Other Falls Total	**62**	**4.96%**
Recr-not water	**56**	**4.48%**
TOTAL	1251	

Total Undesignated Swimming Area	**50.36%**
Total Falls Boat, Shore, etc.	**15.59%**

YES	29	30%
NO	68	70%
	97	

SWD Recreation Fatality Data Summary FY98 - FY19

Gender		%
Female	141	11%
Male	1102	88%
Unknown	8	1%
Total	1251	

Wearing PFD		%
YES	72	6%
NO	1107	88%
Unknown	34	3%
*N/A	38	3%
	1251	

10 yr Age Groupings		
Age 0-9	6%	72
Age 10-20	22%	276
Age 21-30	23%	286
Age 31-40	17%	207
Age 41-50	13%	161
Age 51-60	10%	121
Age 61-70	6%	75
71 & Over	3%	40
Age Unknown	1%	13
Total		1251

	**Alcohol/Drug		%
	YES	249	20%
	NO	634	51%
#	Suspected	43	3%
	Unk	325	26%
		1251	

**** Swimming Fatalities (incl boat, swim)			%
Designated Area		108	15%
Undesignated Area		630	85%
Total Swimming		738	

Other Common Age Groupings		
13 & under	9%	112
Age14-17	10%	121
Ages 18-35	40%	502
Ages 36-53	25%	312
Age 54 & Over	15%	191
		1251

Cause			
D = Drowning		1084	86.7%
T = Trauma		118	9.4%
DH = Hypothermia		26	2.1%
M = Medical		7	0.6%
***CO = Carbon Monoxide**		2	1.1%
U = **U**nknown		14	1.1%
		1251	

Note:

* Not applicable category started in PFD section in FY06

**FY06-combined alcohol/drugs together so we could summarize with previous data, assumed that if no alcohol reported then no drugs were involved

***Started tracking in FY06 carbon monoxide as new cause

**** All swimming-related drownings including boating & swimming when location is known

*****BAC, BAE, BAM,BAS (Control/Speed, Electrical, Carbon Monoxide, Skiing/Towing)

Started tracking "Suspected" Alcohol in 2010

Started counting all public recreation-related fatalities in FY11

In FY18, started showing how many of the fatalities occurred in Outgranted areas.

FY19 USACE Public Recreation Fatalities Associated with NOT wearing a LIFE JACKET

FY19

- **02 October 2018, Tuesday, 2050 hrs** 72 year-old male was attempting to retrieve his boat that had slipped away from boat trailer while at boat ramp. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Tenn-Tom Waterway in SAM.
- **05 October 2018, Friday, 0147 hrs** 40 year-old female was at a marina slip and had been drinking heavily with the male owner of the boat, Uber had been called to take victim home but she decided to stay, male was paying Uber driver in parking lot when victim slipped on boat deck, hitting deck rail and gunwale before going into the water. Alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Lake Lanier in SAM.
- **09 October 2018, Tuesday, 1000 hrs** 61 year-old male jumped in the water from houseboat to swim, boat drifted away and wife was unable to operate the boat effectively enough to get back to her husband. No alcohol involved, NO LIFE JACKET WORN, USACE managed area at Lake Cumberland in LRN.
- **30 October 2018, Tuesday, 1500 hrs** 62 year-old male walked down to go fishing in dam tailwater and fell in water, security camera footage from powerhouse and lock cameras show the incident. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Old Hickory Lock and Dam in LRN.
- **05 November 2018, Monday, 1426 hrs** 48 year-old male shore fishing overnight, investigators believe he lost his footing and fell in. Alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Lake Lanier in SAM.
- **12 November 2018, Monday, time UNK** 23 year-old female, body was found in water along shoreline south of boat ramp, has been determined as a drowning. Unknown if alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Mark Twain Lake in MVS.
- **19 November 2018, Monday, 1145 hrs** 17 year-old male jokingly jumped off bridge wearing nothing but his boxer shorts. Alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Lewisville Lake in SWF.

- **25 November 2018, Sunday, 1639 hrs** 52 year-old male was fishing and stopped to assist a hunter with his deer, they tied deer alongside the boat and when the boat was underway it started to take on water, the hunter made it to shore. Unknown if alcohol was involved, NO LIFE JACKET WORN, Outgranted area at William H. Harsha Lake in LRL.
- **06 December 2018, Thursday, 2333 hrs** 60 year-old female windsurfing, river conditions were very hazardous with extreme high winds and low temperatures, victim was wearing a helmet and dry suit. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Bonneville Lock and Dam in NWP.
- **18 December 2018, Tuesday, 1200 hrs** 61 year-old male fell in while fishing from boat (double fatality, see below).Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Bardwell Lake in SWF.
- **18 December 2018, Tuesday, 1200 hrs** 40 year-old male fell in while fishing from boat (double fatality, see above).Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Bardwell Lake in SWF.
- **22 January 2019, Tuesday, 2200 hrs** 25 year-old male Ft Hood solider, were fishing from canoes (two people in one canoe and one in another) one of the canoes capsized and during the attempt to save it the other canoe capsized. One person made it to shore. None were wearing life jackets. Water temperature was between 48-50 degrees (double drowning, see below). No alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Belton Lake in SWF.
- **22 January 2019, Tuesday, 2200 hrs** 24 year-old male Ft Hood solider (double drowning, see above). No alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Belton Lake in SWF.
- **27 January 2019, Sunday, 0650 hrs** 49 year-old male fishing and boating alone. No alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Whitney Lake in SWF.
- **09 March 2019, Saturday, 1236 hrs** 57 year-old male found floating in water near boat ramp, truck with trailer was backed into the water, truck was running and boat floating in the general area. No alcohol involved, NO LIFE JACKET WORN, Outgranted area at Beaver Lake in SWL.
- **12 March 2019, Tuesday, 2100 hrs** 60 year-old male fishing alone from shoreline and fell in water. No alcohol involved, NO LIFE JACKET WORN, USACE managed area at Russellville Lake in SWL.
- **16 March 2019, Saturday, time UNK** 50 year-old male fell off the back of a moving boat, victim was checking the motor and asked the boat operator (only other person on board) to speed up. Alcohol suspected, NO LIFE JACKET WORN, USACE managed area at John H Kerr Lake in SAW.
- **17 March 2019, Sunday, 1700 hrs** 5 year-old female on shore with dad and another adult male, dad lost control of the victim and both adults tried to save her. No alcohol involved, NO LIFE JACKET WORN, USACE managed area at Stanislaus River Parks in SPK.
- **19 March 2019, Tuesday, 1800 hrs** 30 year-old male fishing on a boat with another person victim stood up and became very rigid and fell overboard. No alcohol involved, NO LIFE JACKET WORN, USACE managed area at Beaver Lake in SWL.
- **25 March 2019, Monday, 1315 hrs** 63 year-old male canoe with another person and canoe capsized. No alcohol was involved, NO LIFE JACKET WORN, Outgranged area at Whitney Lake in SWF.

- **25 March 2019, Monday, time UNK** 73 year-old male fishing with friend, stood up to secure trolling motor and was turning around to sit down, tripped over a tackle box and fell backwards into the water, friend jumped in to try and save the victim but was being pulled under by the victim, friend held onto the side of the boat and could not reach the victim. No alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Sardis Lake in MVK.
- **30 March 2019, Saturday, 1800 hrs** 47 year-old male swimming to retrieve a kayak that drifted away from private dock. No alcohol involved, NO LIFE JACKET WORN, USACE managed area at Hartwell Lake in SAS.
- **18 April 2019, Thursday, 1800 hrs** 57 year-old male boating with another person and boat capsized. No alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Sam Rayburn Lake in SWF.
- **26 April 2019, Friday, 1715 hrs** 35 year-old male fishing alone and fell overboard. No alcohol was involved, NO LIFE JACKET WORN, USACE managed area at DeGray Lake in MVK.
- **05 May 2019, Sunday, 1515 hrs** 36 year-old male attempted to rescue his ten year-old niece and 14 year-old nephew who were struggling in the river, he attempted to rescue the niece first and she pulled him under and he did not resurface, the two kids were rescued. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Lake Texoma in SWT.
- **08 May 2019, Wednesday, 1700 hrs** 38 year-old male cliff jumping and hit rocks below. No alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Belton Lake in SWF.
- **08 May 2019, Wednesday, 1705 hrs** 38 year-old male, two boats collided. (ski boat and bass boat) three people on ski boat survived, two people on bass boat were ejected and drowned. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Lake Lanier in SAM.
- **08 May 2019, Wednesday, 1705 hrs** 59 year-old male, double drowning, see above
- **11 May 2019, Saturday, time unknown** 59 year-old male boating alone and was thrown from his boat. It is believed he hit something in the water and was not wearing an engine cutoff device. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Sam Rayburn Lake in SWF.
- **12 May 2019, Sunday, 1200 hrs** 17 year-old male swimming in designated area. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Lake Lanier in SAM.
- **16 May 2019, Thursday, time UNK** 57 year-old male swimming when witnesses saw him go under and not resurface, he disappeared less than a mile south of the Oklahoma-Kansas border on the Arkansas River. Alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Kaw Lake in SWT.
- **18 May 2019, Saturday, 1815 hrs** 23 year-old male was boating with friends that were intoxicated, victim was standing on bow of the boat as it was approaching the dock, boat operator put boat in reverse causing victim to fall overboard. Alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Taylorsville Lake in LRL.
- **19 May 2019, Sunday, 1700 hrs** 67 year-old male fishing in a boat with a friend, victim stood up in the boat to cast and fell overboard, friend threw victim a life jacket but he was unable to hold onto it, friend grabbed the victim's arm but couldn't get him back into the boat so he used the trolling motor to take him to shore. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Richard B Russell Lake in SAS.

- **20 May 2019, Monday, 1600 hrs** 60 year-old male kayaking alone. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Belton Lake in SWF.
- **23 May 2019, Thursday, 0745 hrs** 46 year-old male boating alone, was found after his dad reported his son had not returned home. No alcohol involved, NO LIFE JACKET WORN, USACE managed area at Carr Creek Lake in LRL.
- **24 May 2019, Friday, 1456 hrs** 71 year-old male was with nephew, getting out of a boat onto a boat ramp courtesy dock and fell into the water, resurfaced, gasped for air, and then didn't resurface. No alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Brookville Lake in LRL.
- **25 May 2019, Saturday, 2054 hrs** 22 year-old male swimming alone, exceeded abilities. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Stillhouse Hollow Lake in SWF.
- **25 May 2019, Saturday, 1730 hrs** 40 year-old male launched a boat and was driving it up the channel warming up the motor while waiting on his dad to park the truck and trailer, he made a sharp turn and the wake threw him out of the boat. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Enid Lake in MVK.
- **25 May 2019, Saturday, 1456 hrs** 49 year-old male was with a party of friends, floating on inflatable pool toy 75 feet from boat ramp, when he lost his grip on the toy. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Lake Cumberland in LRN.
- **25 May 2019, Saturday, 2032 hrs** 30 year-old male loading personal watercraft (PWC) onto trailer at boat ramp, while driving PWC from courtesy dock to trailer, PWC tipped over throwing victim into the water. Unknown if alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Lake Lanier in SAM.
- **25 May 2019, Saturday, 0035 hrs** 61 year-old male spent most of the afternoon working on boat that was on the shoreline and drinking beer, found floating in private dock empty slip. Alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Lake Lanier in SAM.
- **26 May 2019, Sunday, 1715 hrs** 20 year-old male wading in lake with his brother and walked off a drop off. Brother was life-flighted to area hospital. No alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Somerville Lake in SWF.
- **26 May 2019, Saturday, 2054 hrs** 33 year-old male was with family in the park and was swimming off the shore. No alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Grapevine Lake in SWF.
- **26 May 2019, Saturday, 1725 hrs** 76 year-old male lowered himself from his houseboat, moored at marina dock, into the water to swim, victim used motorized wheel chair for mobility, people on adjacent houseboat recommended that he put on a life jacket, but he told them he was okay with the swim noodle he had and could swim, they went to inform the victim's son and when they got back the victim had drowned. Unknown if alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Dale Hollow Lake in LRN.
- **27 May 2019, Monday, 1530 hrs** 31 year-old male jumped from boat into the water and did not resurface. Unknown if alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Monroe Lake in LRL.
- **27 May 2020, Monday, 1330 hrs** 18 year-old male jumped off recreation area courtesy dock and did not resurface. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Cheatham Lake in LRN.

- **27 May 2020, Monday, 0022 hrs** 33 year-old male, dad and son were on boat overnight fishing, dad was asleep, woke up to go to the restroom and was confused thinking he was at home and walked off the front of the boat, the son, who could not swim, jumped in to try and save his dad and drowned, nearby boater rescue the dad. No alcohol was involved, NO LIFE JACKET WORN, USACE managed area at West Point Lake in SAM.
- **30 May 2019, Thursday, 2145 hrs** 42 year-old male, two boats collided, both boats were underway, three people involved, no one entered the water, victim died from trauma. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at J Percy Priest Lake in LRN.
- **31 May 2019, Friday, 1543 hrs** 60 year-old male swimming to retrieve his boat that had drifted away from the shore. Unknown if alcohol was involved, NO LIFE JACKET WORN, Outgranted area at J Strom Thurmond Lake in SAS.
- **03 June 2019, Monday, time UNK** 56 year-old male shoreline fishing, but there was not fishing equipment and large bump on his head with no rocks in the area. Cause of death was determined to be drowning. Alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Fort Peck Lake in NWO.
- **09 June 2019, Sunday, 2120 hrs** 29 year-old male, two males riding on a tube behind a boat fell off the tube and went under (double drowning). Alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Lost Creek Lake in NWP.
- **09 June 2019, Sunday, 2120 hrs** 25 year-old male (double drowning) see above
- **11 June 2019, Tuesday, 1810 hrs** 40 year-old male (Double drowning) dad and son went fishing on boat together, boat was found with no one in it, dad's body was recovered and son was recovered from the lake on July 15, 2019. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Lake Mendocino in SPN.
- **11 June 2019, Tuesday, 1810 hrs** 62 year-old male (double drowning) see above
- **13 June 2019, Thursday, 2017 hrs** 57 year-old female was thrown from boat along with an adult male friend when a wake from a passing boat hit their boat. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at West Point Lake in SAM.
- **14 June 2019, Friday, 0549 hrs** 23 year-old male on boat with 5-7 other people, boat was returning to marina when he jumped off the boat into the water and went under. Alcohol was suspected, NO LIFE JACKET WORN, USACE managed area at Lewisville Lake in SWF.
- **15 June 2019, Saturday, 1300 hrs** 2 year-old male drowned at state park beach, family was having a birthday party at the picnic shelter when they noticed the toddler was missing, toddler was found floating in the water at the state park beach. No alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Rough River Lake in LRL.
- **15 June 2019, Saturday, 2200 hrs** 28 year-old male was fishing with a friend who had went to his car for a time, when he returned the victim was nowhere to be found, later on some fishermen found the victim's hat 100 yards from where they were fishing. Alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Lake Texoma in SWT.
- **20 June 2019, Thursday, 2300 hrs** 53 year-old male fell out of paddle boat during a confrontation with county deputies at a private dock. Alcohol is suspected to be involved, NO LIFE JACKET WORN, USACE managed area at Lake Lanier in SAM.
- **21 June 2019, Friday, 1745 hrs** 21 year-old male cliff jumping with friends and began to struggle after hitting the water. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at J Percy Priest Lake in LRN.

- **21 June 2019, Friday, 1545 hrs** 8 year-old female in the water with 11 year-old sister about 50 yards offshore when she could not reach a float she had been using, mother and two other women were at picnic table nearby. Alcohol was not involved, NO LIFE JACKET WORN, USACE managed area at J Percy Priest Lake in LRN.
- **22 June 2019, Saturday, time UNK** 35 year-old male was standing on the rip rap bank, slipped on the wet rocks and fell into the Mississippi River, he attempted to swim back to shore but was swept downstream by the current approximately 100 yards where he submerged and never resurfaced. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Lock and Dam 14 in MVR.
- **23 June 2019, Sunday, 1023 hrs** 31 year-old male swimming to rescue his son who had fallen into the water while being pulled on a tube behind a boat. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Lake O' the Pines in SWF.
- **23 June 2019, Sunday, 1931 hrs** 48 year-old female (four fatalities), wake/ski boat collided with bass boat, first time the ski boat was taken out on the water, it was a brand new boat, both boats were going approx. 30 mph as they came around a bend, both vessels tried to avoid the collision and over-corrected, this led to the ski boat going over the bass boat, five people on ski boat and seven on bass boat, the three people that died were on the bass boat, ski boat operator was arrested on 3 counts or intoxication manslaughter with a vehicle and 2 counts of intoxication assault with a vehicle. Alcohol was suspected, NO LIFE JACKET WORN, USACE managed area at Wallisville Lake in SWG.
- **23 June 2019, Sunday, 1931 hrs** 29 year-old male (four fatalities) see above
- **23 June 2019, Sunday, 1931 hrs** 36 year-old male (four fatalities) see above
- **23 June 2019, Sunday, 1931 hrs** 24 year-old female (four fatalities) see above
- **28 June 2019, Friday, 1750 hrs** 28 year-old male on a rented double-decker pontoon boat with a group of friends jumping from the top and sliding down slide, entered the water to help a person in the water also associated with the boat that was having an asthma attack. Alcohol suspected to be involved, NO LIFE JACKET WORN, USACE managed area at Lake Lanier in SAM.
- **29 June 2019, Saturday, time UNK** 47 year-old male boating/fishing alone, boat equipped with GPS tracking software that allows the boat to follow a certain path without human intervention, the boat followed the path until it ran aground. Alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Marion Lake in SWT.
- **01 July 2019, Monday, 1836** 26 year-old male had recently purchased a boat and was operating it on the Ohio River for the first time, boat drifted into upper gates of the dam after motor malfunctioned, passenger jumped from the boat and was rescued. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at McAlpine Locks and Dams in LRL.
- **03 July 2019, Wednesday, 1349 hrs** 19 year-old male swimming beyond the designated swim beach area. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Cheatham Lock and Dam in LRN.
- **04 July 2019, Thursday, 1345 hrs** 7 year-old male swimming in designated area unsupervised. No alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Lavon Lake in SWF.
- **04 July 2019, Thursday, 1500 hrs** 17 year-old male swimming approx. 10 yards from shore, exceeded abilities. No alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Grapevine Lake in SWF.

- **04 July 2019, Thursday, time UNK** 27 year-old male swimming outside designated swimming area. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Lake Red Rock in MVR.
- **05 July 2019, Friday, 2006 hrs** 24 year-old male cliff jumping, girlfriend was with him. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Summersville Lake in LRH.
- **05 July 2019, Friday, 2224 hrs** 14 year-old male and multiple family friends were setting off fireworks on top of a private two-story dock, one of the fireworks blew up causing everyone to jump in to the water, the victim did not resurface. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at J Strom Thurmond Lake in SAS.
- **05 July 2019, Friday, 1700 hrs** 25 year-old male swimming with several family members from designated swimming beach to other side of the creek channel. Unknown if alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Richard B Russell Lake in SAS.
- **06 July 2019, Saturday, 2115 hrs** 39 year-old male was with his six year-old child in a jon boat at night without navigation lights, another boat collided with them and victim was ejected from his boat. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Hartwell Lake in SAS.
- **06 July 2019, Saturday, 1400 hrs** 19 year-old male and his 11 year-old sister were kayaking out to retrieve an inflatable toy, deteriorating weather conditions caused the kayak to flip over with its occupants, the sister was successful in getting back into the kayak, her brother who was still attempting to retrieve the toy went under the water and never resurfaced. No alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Lake Texoma in SWT.
- **09 July 2019, Tuesday, 1730 hrs** 74 year-old female, Victim's husband was operating their boat back into their marina slip when the victim tried to step onto the dock. The boat separated from the dock and victim fell into the water. The husband put on his life jacket, grabbed a throwable PFD, and jumped into try and rescue his wife. He was able to keep her afloat by using the PFD but was unable to remove her from the water. No alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Brooksville Lake in LRL.
- **11 July 2019, Thursday, 1500 hrs** 9 year-old male (double drowning) son, swimming with dad at an outgranted swimming beach that has life guards. No alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Lake Lanier in SAM.
- **11 July 2019, Thursday, 1500 hrs** 40 year-old male (double drowning) dad, see above.
- **13 July 2019, Saturday, 1500 hrs** 24 year-old male swimming outside of a designated swim area towards the main body of the lake. No alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Joe Pool Lake in SWF.
- **13 July 2019, Saturday, 1400 hrs** 43 year-old male swimming in lake with family members, brother-in-law saw him swimming back to shore. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Success Lake in SPK.
- **13 July 2019, Saturday, time UNK** 67 year-old male was boating with another person, they were leaving the marina and his cap blew off, he turned the boat around, stopped it, and jumped into the water to retrieve his cap, he started to struggle, so the other person on the boat threw him two life jackets, but he could not reach them. No alcohol involved, NO LIFE JACKET WORN, Outgranted area at Eufaula Lake in SWT.
- **14 July 2019, Sunday, time UNK** 30 year-old male, kayak with fishing pole inside was found on the lake, vehicle parked at the dam, victim was later recovered in the area where kayak was found. Alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Hancock Brook Lake in NAE.

- **14 July 2019, Sunday, 1330 hrs** 18 year-old male was with other members of a church group wading in waist deep water on a submerged rock jetty and stepped off into deep water. No alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Fort Supply Lake in SWT.
- **17 July 2019, Wednesday, 1532 hrs** 53 year-old male was tubing with his wife on the same tube and it capsized. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Canyon Lake in SWF.
- **17 July 2019, Wednesday, 1705 hrs** 73 year-old male was swimming with another person when he started to struggle, person with him shouted for help and they pulled the victim out of the water. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Center Hill Lake in LRN.
- **19 July 2019, Friday, 2030 hrs** 44 year-old male, two men on pontoon boat jumped in the water to go swimming leaving the boat running in neutral, boat drifted away, both swam towards the boat, one knew he wasn't going to make it to the boat so swam to a nearby island, other person drown swimming to the boat. Alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Lake Ouachita in MVK.
- **19 July 2019, Friday, time UNK** 17 year-old male wading along the shoreline and stepped off edge of rock shelf into deeper water, could not swim. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Mark Twain Lake in MVS.
- **20 July 2019, Saturday, 1800 hrs** 42 year-old male, child swimming off of a rented pontoon boat started to struggle, victim and another passenger jumped into the water to try and help the child, victim went under, child and other passenger made it back to the boat. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at J Percy Priest Lake in LRN.
- **21 July 2019, Sunday, 1700 hrs** 23 year-old male Ft. Hood soldier, went under when the inflatable ring/tube that he had with him drifted away due to wave action. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Belton Lake in SWF.
- **22 July 2019, Wednesday, 1750 hrs** 13 year-old female swimming near boat ramp with a group of younger kids. No alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Whitney Lake in SWF.
- **27 July 2019, Saturday, 0330 hrs** 35 year-old male boating alone. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Somerville Lake in SWF.
- **27 July 2019, Saturday, 1800 hrs** 33 year-old male jumped off a rental party boat in the no wake zone when it was returning to the marina. Alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Lewisville Lake in SWF.
- **27 July 2019, Saturday, 1530 hrs** 23 year-old male was in a canoe with another person when it capsized from wakes of passing boats, life jackets were on board but they were unable to get to them, the other person was rescued by a nearby boat. Unknown if alcohol was involved, NO LIFE JACKET WORN, Outgranted area at J Strom Thurmond Lake in SAS.
- **27 July 2019, Saturday, 1414 hrs** 23 year-old male didn't resurface after jumping off a bluff. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Greers Ferry Lake at SWL.
- **29 July 2019, Monday, 1648 hrs** 41 year-old female, a 12 and 13 year-old were swimming at a designated beach when the 12 year-old started struggling in the water, the victim who was the adult with them entered the water to help the child, others at the beach helped the kids to safety, while the victim went under unnoticed. Unknown if alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Mosquito Creek Lake in LRP.

- **29 July 2019, Monday, 2130 hrs** 37 year-old female entered the lake at a subdivision swam out into deeper water and went under. Alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Table Rock Lake in SWL.
- **30 July 2019, Tuesday, 1645 hrs** 26 year-old male kayaking with three others across the lake and became separated from the others, boater found kayak in the middle of the lake, winds were high enough to create white caps. Alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Wilson Lake in NWK.
- **03 August 2019, Saturday, 1930 hrs** 17 year-old male swimming with friends and got into water over his head, they were swimming in an area that was 3-4 feet deep adjacent to a 30-35' drop off. No alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Taylorsville Lake in LRL.
- **06 August 2019, Tuesday, 1800 hrs** 15 year-old female entered the water to help her dad rescue her ten year old brother, dad was able to save his son and himself, the daughter drown. No alcohol involved, NO LIFE JACKET WORN, Outgranted area at Falls Lake in SAW.
- **11 August 2019, Sunday, 1230 hrs** 64 year-old male swimming off a pontoon boat, boat drifted away and while trying to swim back to the boat he went under, family on boat could not reach him in time. Alcohol was suspected, NO LIFE JACKET WORN, USACE managed area at Whitney Lake in SWF.
- **12 August 2019, Monday, time UNK** 73 year-old male boating/fishing alone in 15 foot flat bottom boat, found not too far from where the boat was found. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Philpott Lake in SAW.
- **13 August 2019, Tuesday, 2000 hrs** 3 year-old male swimming with family members, family member turned to put bait on a fishing hook and the boy went under the surface of the water. No alcohol involved, NO LIFE JACKET WORN, USACE managed area at Fort Gibson Lake in SWT.
- **19 August 2019, Monday, 2000 hrs** 71 year-old male boating with friends on a pontoon boat, jumped off the back of the boat and became entangled in something, other passengers were not able to get him back on the boat. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Eufaula Lake in SWT.
- **24 August 2019, Saturday, 2130 hrs** 28 year-old male kayaking with friend downstream side of hydropower plant, female kayaker capsized and male kayaker went into to try and save her, female was rescued by first responders, male drown. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at McAlpine Locks and Dams in LRL.
- **02 September 2019, Monday, 1430 hrs** 22 year-old male was swimming in the park swim beach with his university friends, the group members were racing back and forth across the swim beach, as victim was nearing the middle of the swim beach he began to struggle and went under. No alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Broken Bow Lake in SWT.
- **07-September 2019, Saturday, 1845 hrs** 4 year-old male wading along the shoreline in a recreation area. No alcohol involved, NO LIFE JACKET WORN, USACE managed area at Hartwell Lake in SAS.
- **13 September 2019, Friday, 0630 hrs** 48 year-old male boating alone, boat was seen going in circles, after boat was found it appeared that the victim might have been working on the motor and when it started he fell overboard, drug paraphenalia was found in the boat. Drugs were involved, NO LIFE JACKET WORN, USACE managed area at DeGray Lake in MVK.

- **14 September 2019, Saturday, 1000 hrs** 49 year-old male boating alone, fell from boat and was hit by propeller. No alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Lake Oahe in NWO.
- **15 September 2019, Sunday, time UNK** 25 year-old male was reported missing, cause of death: drowning. Alcohol was involved, NO LIFE JACKET WORN, Outgranted area at Cherry Creek Lake in NWO.
- **16 September 2019, Monday, 1340 hrs** 39 year-old female boating with an adult male with boat anchored on river below the dam when horn at the dam sounded, as water discharge began and water started rising they pulled the anchor, boat slammed into a tree and capsized, both were pulled from the river, female had trauma to the head. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Greers Ferry Lake in SWL.
- **21 September 2019, Saturday, 1730 hrs** 56 year-old male boating with his wife and jumped in to swim leaving the boat running, while holding onto the side of the boat he made contact with the propeller and the force pulled him under and entangled around the lower unit of the boat. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at Lake Cumberland in LRN.
- **21 September 2019, Saturday, 1630 hrs** 42 year-old male found floating face down in the water, cause of death accidental drowning. Alcohol was involved, NO LIFE JACKET WORN, USACE managed area at J Percy Priest Lake in LRN.
- **21 September 2019, Saturday, 1600 hrs** 68 year-old male fishing alone in fishing tournament, body recovered close to the location of his boat in 8-11 feet of water. No alcohol involved, NO LIFE JACKET WORN, USACE managed area at Hartwell Lake in SAS.
- **21 September 2019, Saturday, 2000 hrs** 57 year-old male fishing alone, vehicle was found running with doors open and attached to boat trailer at boat ramp and boat found 100 yards away, victim found approx. 30 feet from shore, launching boat and it drifted away, entered water to retrieve the boat. No alcohol involved, NO LIFE JACKET WORN, USACE managed area at Black Butte Lake in SPK.
- **25 September 2019, Wednesday, 1719 hrs** 71 year-old male, two men out fishing on a 16.5' crestline 650 sportfish boat, called 911 because they were taking on water, said they were putting on their life jackets, wind 20-30 mph, when help arrived approx. ten minutes later both men were deceased and one was wearing a life jacket. Unknown if alcohol was involved, NO LIFE JACKET WORN, Outgranted area a Lake Oahe in NWO.
- **27 September 2019, Friday, time UNK** 76 year-old male boating alone, was found close to the location of the boat. Unknown if alcohol was involved, NO LIFE JACKET WORN, USACE managed area at J Strom Thurmond Lake in SAS.

FY19 USACE Public Recreation Fatalities Associated with wearing a LIFE JACKET

FY19

- **16 November 2018, Friday, 1616 hrs** 38 year-old male was allowing his 15 year-old daughter operate a 24' pontoon boat, dad was standing on front of boat, daughter throttled down causing dad to fall in water, daughter panicked and operated the boat over her dad, he sustained severe lacerations from propeller. Unknown if alcohol was involved, LIFE JACKET WORN, USACE managed area at Norfork Lake in SWL.
- **05 January 2019, Saturday, time UNK** 61 year-old male, two men kayaking trying to catch the dam outflow and ride it downstream as a challenge, dam outflow at the time mimicked whitewater situations, when they entered the restricted zone the current caught their vessels and pulled them towards the dam, one survived and the other one was pulled under with his life jacket and wetsuit on. Unknown if alcohol was involved, LIFE JACKET WORN, USACE managed area at Lake Red Rock in MVR.
- **08 June 2019, Saturday, 1200 hrs** 22 year-old male found floating face down wearing a life jacket, personal watercraft (PWC) he was riding was nearby. Unknown if alcohol was involved, LIFE JACKET WORN, Outgranted area at Clarence J. Brown Lake in LRL.
- **07 July 2019, Sunday, 1940 hrs** 64 year-old male operating personal watercraft (PWC) at a high rate of speed and hit a tree on the shoreline. Alcohol suspected, LIFE JACKET WORN, USACE managed area at Eufaula Lake in SWT.
- **20 July 2019, Saturday, 1430 hrs** 20 year-old female operating personal watercraft (PWC) at a high rate of speed and crashed into a 15' high embankment, passenger on PWC jumped off before PWC hit the embankment. Unknown if alcohol was involved, LIFE JACKET WORN, USACE managed area at Lake Lanier in SAM.
- **28 July 2019, Sunday, 1800 hrs** 8 year-old female swimming near boat and was struck by the propeller. No alcohol involved, LIFE JACKET WORN, USACE managed area at Monroe Lake in LRL.
- **03 August 2019, Saturday, time UNK** 42 year-old female, boat collided with barge (double fatality) during a high water event a pontoon boat struck a moored industry barge causing seven occupants to be ejected, boat had lost power and drifted into a barge, witnesses stated the pontoon boat was pulled under the barge due to strong currents. Unknown if alcohol was involved, LIFE JACKET WORN, USACE managed area at Pool 22-John Hay Recreation Area in MVR.
- **03 August 2019, Saturday, time UNK** 49 year-old female, double fatality, see above
- **10 August 2019, Saturday, 1300 hrs** 47 year-old female, personal watercraft (PWC) being operated by a male with a female passenger collided with rental ski boat, both people on PWC were ejected, female died and male transported to hospital and survived. Unknown if alcohol was involved, LIFE JACKET WORN, USACE managed area at Allatoona Lake in SAM.
- **25 September 2019, Wednesday, 1719 hrs** 69 year-old male, two men out fishing on a 16.5' crestline 650 sportfish boat, called 911 because they were taking on water, said they were putting on their life jackets, wind 20-30 mph, when help arrived approx. ten minutes later both men were deceased and one was wearing a life jacket. Unknown if alcohol was involved, LIFE JACKET WORN, Outgranted area a Lake Oahe in NWO.

- **28 September 2019, Saturday, 1700 hrs** 50 year-old male operating a personal watercraft (PWC), was ejected and could not climb back onto the PWC, another PWC operator pulled him to shore with a rope, he lost consciousness, family took him off life support the next day. Unknown if alcohol was involved, LIFE JACKET WORN, USACE managed area at Lake Texoma in SWT.

Lives that could have been saved if life jackets had been worn.

Boating: 51 people or 39%

Swimming in association with boats + Swimming outside a designated swimming area: 48 people or 37%

Falls from a shoreline or dock: 13 people or 10%

Swimming inside a designated swimming area: 8 people or 6%

Total: 120 people or 92% could have been saved if they had been wearing a life jacket.

Acronyms List

USACE: U.S. Army Corps of Engineers

FY: Fiscal Year (October 1 – September 30)

LRD: Great Lakes and Ohio River Division

- LRH: Huntington District
- LRL: Louisville District
- LRN: Nashville District
- LRP: Pittsburgh District

MVD: Mississippi Valley Division

- MVK: Vicksburg District
- MVR: Rock Island District
- MVS: St. Louis District

NAD: North Atlantic Division

- NAE: New England District

NWD: Northwestern Division

- NWK: Kansas City District
- NWO: Omaha District
- NWP: Portland District

SAD: South Atlantic Division

- SAM: Mobile District
- SAS: Savannah District
- SAW: Wilmington District

SPD: South Pacific Division

- SPK: Sacramento District
- SPN: San Francisco District

SWD: Southwestern Division

- SWF: Fort Worth District
- SWG: Galveston District
- SWL: Little Rock District
- SWT: Tulsa District

Link to USACE Division and District Map: www.usace.army.mil/locations.aspx