



US Army Corps  
of Engineers®

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**FY98-FY23**

**USACE Public Recreation  
Fatalities Data Summary**

13 Dec 2023

# Table of Contents

Executive Summary	Page 1
USACE Water-Related Public Recreation Fatalities Line Graph	Page 2
FY98-FY23 USACE Public Recreation Fatalities Summary Sheet	Page 3
FY98-FY23 USACE Public Recreation Fatalities Infographic	Page 4
FY14-FY23 (ten year) USACE Public Recreation Fatality Summary Sheet	Page 5
FY22 USACE Public Recreation Fatalities Summary Sheet	Page 6
FY23 USACE Public Recreation Fatalities Summary Sheet	Page 7
Cause of Death and Fatalities by Month, Day, and Time Charts	Page 8
USACE Public Recreation Fatalities by Divisions and Districts Spreadsheet	Page 9
LRD Public Recreation Fatalities Summary Sheet	Page 10
MVD Public Recreation Fatalities Summary Sheet	Page 11
NAD Public Recreation Fatalities Summary Sheet	Page 12
NWD Public Recreation Fatalities Summary Sheet	Page 13
SAD Public Recreation Fatalities Summary Sheet	Page 14
SPD Public Recreation Fatalities Summary Sheet	Page 15
SWD Public Recreation Fatalities Summary Sheet	Page 16
Acronyms List	Page 17

## Executive Summary

The U.S. Army Corps of Engineers (USACE) National Operations Center for Water Safety, a.k.a. USACE National Water Safety Program, was established in 1994 and has been tracking USACE public recreation fatality statistics and trends since 1998. This data summary includes summary sheets for USACE and their divisions, line graph showing the number of USACE water-related public recreation fatalities back to 1971, causes of death, and fatalities by month, day, and time.

As shown on the line graph on page 2, 162.5 is the annual average of USACE water-related public recreation fatalities since 1987, which is the year after USACE began promoting water safety nationwide through a unified safety education campaign and 155.2 fatalities is the annual average over the last five years (FY19-23).

The line graph also shows that since 1987 the highest number of USACE water-related public recreation fatalities occurred in 1998, 214 fatalities, and has not exceeded 200 fatalities since then. The lowest number of water-related fatalities since 1987 occurred in 2015, 118 fatalities. This shows that the unified approach of promoting water safety is working, but more needs to be done to bring the number of fatalities even lower including focusing on the target audience and increasing life jacket wear.

The FY98-23 summary sheet on page 3 shows that 88% of the public recreation fatalities were male, 89% were not wearing a life jacket, 82% were 18 or older, 47% were swimming in undesignated areas, 20% were from falls from boats, docks, and shore, and 21% alcohol was involved or suspected. The ten year, FY23, FY22, and division summary sheets show similar statistics. Knowing these statistics makes the target audience at USACE lakes and river projects when it comes to water safety adult males not wearing life jackets, so we must focus on them through education and enforcement.

Page 8 shows that most USACE public recreation fatalities occur in the months of May through August with June and July having the highest number of fatalities, on Saturdays and Sundays, between 1400 and 1800 hours.

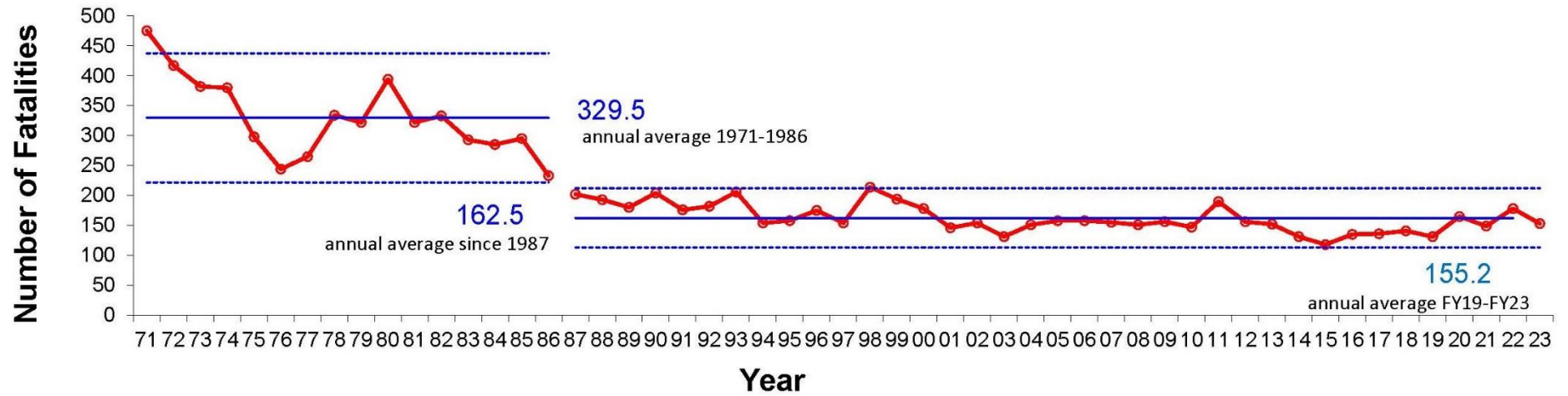
The spreadsheet on page 9 shows the number of public recreation fatalities broken down by USACE divisions and districts from FY98-FY23. In FY22, there were 184 public recreation fatalities and in FY23 there were 161, which is a 13% decrease.

In FY22, the breakdown by division is LRD 27, MVD 12, NAD 4, NWD 24, SAD 38, SPD 4, and SWD 75 and the districts with the most fatalities include SWF 41, SAM 23, SWT 18, SWL 16, and LRN 13.

In FY23, the breakdown by division is LRD 33, MVD 8, NAD 2, NWD 17, SAD 29, SPD 5, and SWD 67 and the districts with the most fatalities include SWF 34, SWT 20, LRN 17, SAM 14, and SWL 13.

If it wasn't for the hard work and dedication of USACE employees across the nation promoting water safety the numbers in this data summary would be higher, so that is something to be thankful for, but there is still work that needs to be done. Remember that the target audience is adult males not wearing life jackets at USACE lakes and river projects, so please do whatever you can to increase the number of adults wearing life jackets.

# USACE Public Recreation Water-Related Fatalities



- Notes: 1971 - Enactment of the Federal Boat Safety Act, U.S. Coast Guard and the States began working within the forum of National Association of State Boating Law Administrators (NASBLA)
- 1986 - USACE began promoting water safety nationwide through an annual, unified safety education campaign
- 1994 - USACE National Operations Center (NOC) for Water Safety was established
- 1998 - NOC began quantifying water-related public recreation fatalities data

# USACE Public Recreation Fatalities One-Page Summary FY98 - FY23 ##

Activity Summary	Number	% of Total
<b>Swimming Total</b>	<b>1772</b>	<b>43.25%</b>
Designated Area	330	8.05%
Undesignated Area	1442	35.20%
<b>Boating Total</b>	<b>1869</b>	<b>45.62%</b>
Swimming	486	11.86%
Collision	185	4.52%
PWC	99	2.42%
Capsized	347	8.47%
Falls from Boat	504	12.30%
*****Other Boating	248	6.05%
<b>Other Falls</b>	<b>297</b>	<b>7.25%</b>
<b>Other Recr Total</b>	<b>159</b>	<b>3.88%</b>
<b>TOTAL</b>	<b>4097</b>	<b>100.0%</b>

<b>Total Undesignated Swimming Area</b>	<b>47.1%</b>
<b>Total Falls Boat, Dock, Shore, etc.</b>	<b>19.6%</b>

## Category Summary

Gender		%
460	Female	11.2%
3617	Male	88.3%
20	Unknown	0.5%
4097	<b>Total</b>	

*Wearing PFD		%
YES	228	5.6%
NO	3653	89.2%
Unknown	101	2.5%
*N/A	115	2.8%

4097

### Common Age Groupings

Age Group	%	Count	**Alcohol/Drug	%	###Outgranted	%
13 and under	8%	331	YES	17%	239	25%
Age14-17	9%	363	NO	45%	707	75%
Age18-35	38%	1555	#SUSP	4%	946	
Age36-53	24%	985	Unk	34%		
Age 54 & Over	20%	802				

4097

4097

### 10 Yr Age Groupings

Age 0-9	5%	214
Age 10-20	21%	849
Age 21-30	21%	868
Age 31-40	15%	624
Age 41-50	13%	542
Age 51-60	11%	443
Age 61-70	7%	299
71 & Over	5%	197
Age Unknown	1%	61

4097

**** Swimming Fatalities (incl boat&swim)		%
Designated Area	324	14%
Undesignated Area	1940	86%
Total Swimming Only	2264	
***Cause		
<b>D = Drowning</b>	3525	86.0%
<b>T = Trauma</b>	409	10.0%
<b>DH = Hypothermia</b>	59	1.4%
<b>M = Medical</b>	25	0.6%
<b>***HR = Heat Related</b>	3	0.1%
<b>***CO = Carbon Monoxide</b>	24	0.6%
<b>U = Unknown</b>	52	1.3%
	4097	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 and started tracking in FY22 - heat related as a 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

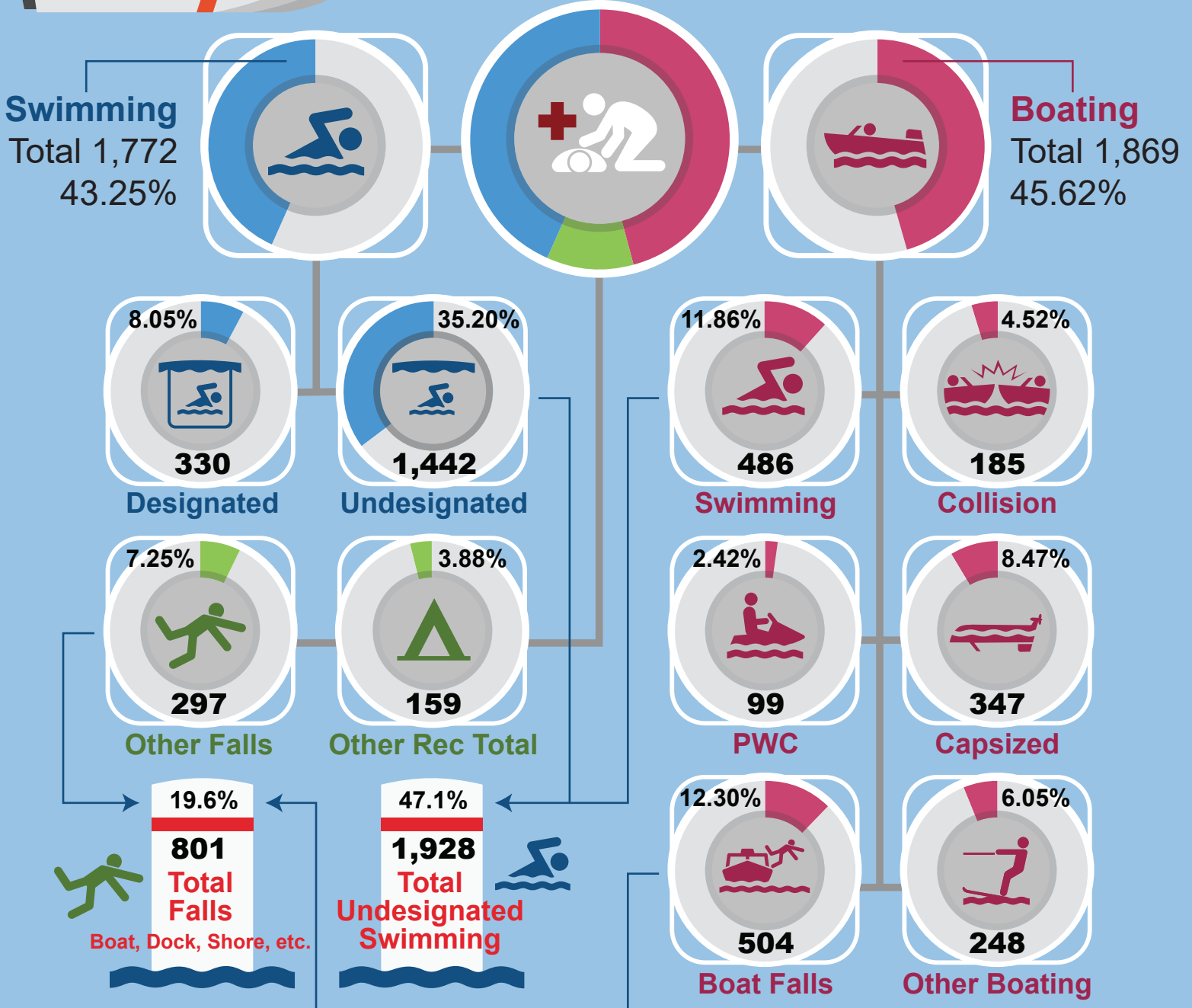
## Started including all public recreation-related fatalities in FY11

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

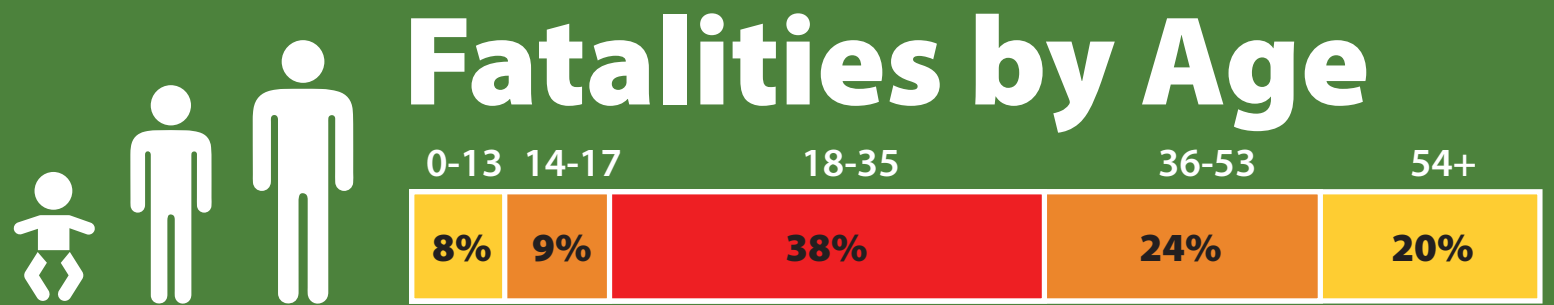
# U.S. Army Corps of Engineers Public Recreation Fatalities \*FY98-FY23

**Total Fatalities**  
**4,097**

\*Fiscal Year is OCT 01-SEP 30



**88%** were male



**89%** Were Not Wearing a Life Jacket



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# USACE Public Recreation Fatalities One-Page Summary FY14 - FY23 ##

Activity Summary	Number	% of Total
<b>Swimming Total</b>	<b>553</b>	<b>37.16%</b>
Designated Area	90	6.05%
Undesignated Area	463	31.12%
<b>Boating Total</b>	<b>747</b>	<b>50.20%</b>
Swimming	234	15.73%
Collision	41	2.76%
PWC	42	2.82%
Capsized	140	9.41%
Falls from Boat	183	12.30%
*****Other Boating	107	7.19%
<b>Other Falls</b>	<b>130</b>	<b>8.74%</b>
<b>Other Recr Total</b>	<b>58</b>	<b>3.90%</b>
<b>TOTAL</b>	<b>1488</b>	<b>100.0%</b>

<b>Total Undesignated Swimming Area</b>	<b>46.8%</b>
<b>Total Falls Boat, Dock, Shore, etc.</b>	<b>21.0%</b>

## Category Summary

Gender		%
177	Female	11.9%
1311	Male	88.1%
0	Unknown	0.0%
1488	<b>Total</b>	

*Wearing PFD		%
YES	107	7.2%
NO	1324	89.0%
Unknown	0	0.0%
*N/A	57	3.8%

1488

### Common Age Groupings

Age Group	%	Count
13 and under	6%	90
Age 14-17	7%	111
Age 18-35	36%	540
Age 36-53	24%	361
Age 54 & Over	26%	386

1488

**Alcohol/Drug	%
YES	12%
NO	33%
#SUSP	7%
Unk	48%

1488

###Outgranted	%
YES	25%
NO	75%
946	

### 10 Yr Age Groupings

Age Group	%	Count
Age 0-9	4%	62
Age 10-20	17%	255
Age 21-30	21%	319
Age 31-40	14%	209
Age 41-50	14%	211
Age 51-60	13%	189
Age 61-70	10%	149
71 & Over	6%	94
Age Unknown	0%	0

1488

**** Swimming Fatalities (incl boat&swim)	%
Designated Area	11%
Undesignated Area	89%
Total Swimming Only	

***Cause		%
<b>D = Drowning</b>	1291	86.8%
<b>T = Trauma</b>	172	11.6%
<b>DH = Hypothermia</b>	11	0.7%
<b>M = Medical</b>	0	0.0%
<b>***HR = Heat Related</b>	3	0.2%
<b>***CO = Carbon Monoxide</b>	11	0.7%
<b>U = Unknown</b>	0	0.0%

1488 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 and started tracking in FY22 - heat related as a 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 Fatalities One-Page Summary FY22 Data

Activity Summary	FY22	FY22 % of Total			Fatalities By Division	
<b>Swimming Total</b>	<b>66</b>	<b>35.9%</b>			LRD 27	14.67%
Designated Area	8	4.3%			MVD 12	6.52%
Undesignated Area	58	31.5%			NAD 4	2.18%
<b>Boating Total</b>	<b>94</b>	<b>51.1%</b>	<b>Total Undesignated Swimming Area</b>	<b>FY22 47%</b>	NWD 24	13.04%
Swimming	28	15.2%			SAD 38	20.65%
Collision	1	0.5%			SPD 4	2.18%
PWC	3	1.6%			SWD 75	40.76%
Capsized	27	14.7%			<b>Districts with most fatalities</b>	
Falls from Boat	21	11.4%	<b>Total Falls Boat, Shore, etc.</b>	<b>FY22 21%</b>	SWF 41	22.28%
****Other Boating	14	7.6%			SAM 23	12.50%
<b>Other Falls Total</b>	<b>17</b>	<b>9.2%</b>			SWT 18	9.78%
<b>Other Recreation</b>	<b>7</b>	<b>3.8%</b>			SWL 16	8.70%
<b>TOTAL</b>	<b>184</b>				LRN 13	7.07%

## Public Recreation Fatality Data Summary

Gender	FY22	
Female	18	9.8%
Male	166	90.2%
Unknown	0	0.0%
<b>Total</b>	<b>184</b>	

Wearing PFD	FY22	
YES	14	7.6%
NO	164	89.1%
Unknown	0	0.0%
N/A	6	3.3%

10 yr Age Grpgs	FY22	
Age 0-9	3.8%	7
Age 10-20	15.2%	28
Age 21-30	20.7%	38
Age 31-40	14.1%	26
Age 41-50	13.0%	24
Age 51-60	13.6%	25
Age 61-70	12.0%	22
71 & Over	7.6%	14
Age Unknown	0.0%	0
<b>Total</b>		<b>184</b>

Alcohol/Drug	FY22	
YES	16	8.7%
NO	43	23.4%
SUSPECTED	7	3.8%
Unknown	118	64.1%

****Swimming Fatalities		FY22	Outgranted		%
Designated Area	7	7.3%	YES	50	27.2%
Undesignated Area	89	92.7%	NO	134	72.8%
<b>Total</b>	<b>96</b>				

Common Age Grps	FY22	
13 & under	6.0%	11
Age14-17	8.2%	15
Ages 18-35	32.6%	60
Ages 36-53	21.7%	40
Age 54 +	31.5%	58

Cause	FY22	
D = Drowning	157	85.3%
T = Trauma	22	12.0%
DH = Hypothermia	2	1.1%
HR = Heat Related	2	1.1%
CO=Carbon Monoxide	1	0.5%
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)



# USACE Public Recreation Fatalities One-Page Summary FY23 Data

Activity Summary	FY23	FY23 % of Total			Fatalities By Division	
<b>Swimming Total</b>	<b>65</b>	<b>40.4%</b>			LRD 33	20.50%
Designated Area	8	5.0%			MVD 8	4.97%
Undesignated Area	57	35.4%			NAD 2	1.24%
<b>Boating Total</b>	<b>72</b>	<b>44.7%</b>	<b>Total Undesignated Swimming Area</b>	<b>FY23 55%</b>	NWD 17	10.56%
Swimming	32	19.9%			SAD 29	18.01%
Collision	1	0.6%			SPD 5	3.11%
PWC	5	3.1%			SWD 67	41.61%
Capsized	13	8.1%			<b>Districts with most fatalities</b>	
Falls from Boat	15	9.3%	<b>Total Falls Boat, Shore, etc.</b>	<b>FY23 20%</b>	SWF 34	21.12%
****Other Boating	6	3.7%			SWT 20	12.42%
<b>Other Falls Total</b>	<b>17</b>	<b>10.6%</b>			LRN 17	10.56%
<b>Other Recreation</b>	<b>7</b>	<b>4.3%</b>			SAM 14	8.70%
<b>TOTAL</b>	<b>161</b>				SWL 13	8.07%

## Public Recreation Fatality Data Summary

Gender	FY23	
Female	11	6.8%
Male	150	93.2%
Unknown	0	0.0%
<b>Total</b>	<b>161</b>	

Wearing PFD	FY23	
YES	7	4.3%
NO	145	90.1%
Unknown	0	0.0%
N/A	9	5.6%

10 yr Age Grpgs	FY23	
Age 0-9	3.7%	6
Age 10-20	19.3%	31
Age 21-30	19.3%	31
Age 31-40	12.4%	20
Age 41-50	14.3%	23
Age 51-60	9.9%	16
Age 61-70	12.4%	20
71 & Over	8.7%	14
Age Unknown	0.0%	0
<b>Total</b>		<b>161</b>

Alcohol/Drug	FY23	
YES	21	13.0%
NO	63	39.1%
SUSPECTED	3	1.9%
Unknown	74	46.0%

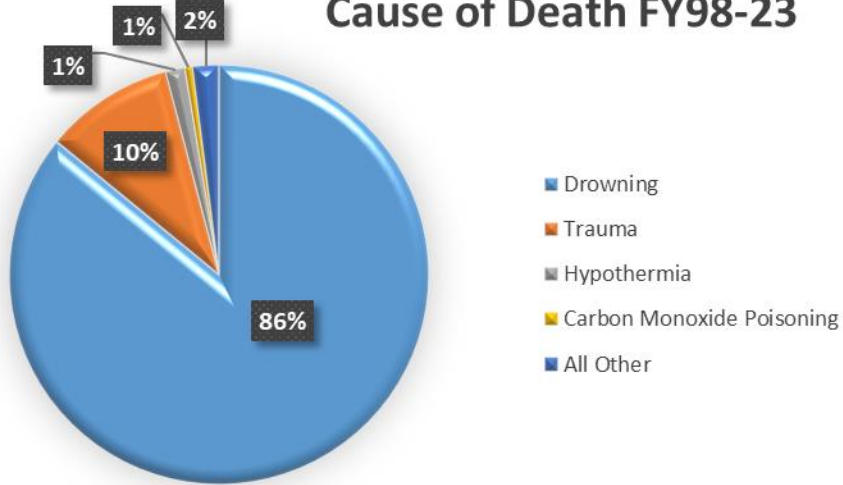
****Swimming Fatalities		FY23	Outgranted		%
Designated Area	8	8.2%	YES	38	23.6%
Undesignated Area	89	91.8%	NO	123	76.4%
<b>Total</b>	<b>97</b>				

Common Age Grps	FY23	
13 & under	6.8%	4
Age14-17	5.6%	9
Ages 18-35	36.0%	37
Ages 36-53	23.0%	37
Age 54 +	28.6%	46

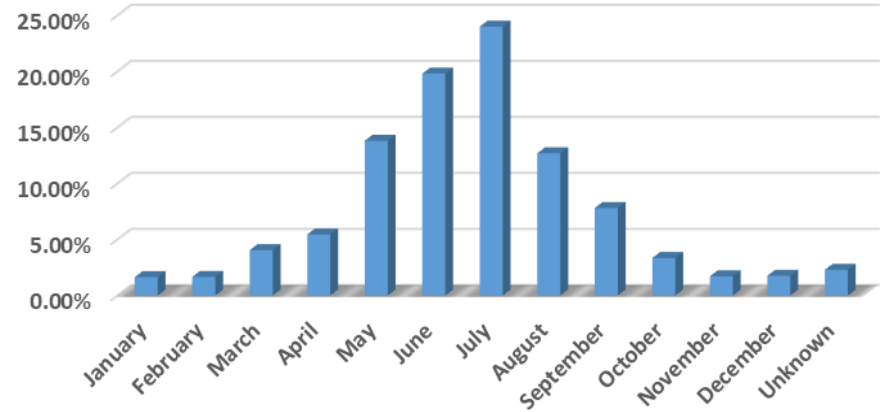
Cause	FY23	
D = Drowning	139	86.3%
T = Trauma	19	11.8%
DH = Hypothermia	0	0.0%
HR=Heat Related	1	0.6%
CO=Carbon Monoxide	2	1.2%

**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)

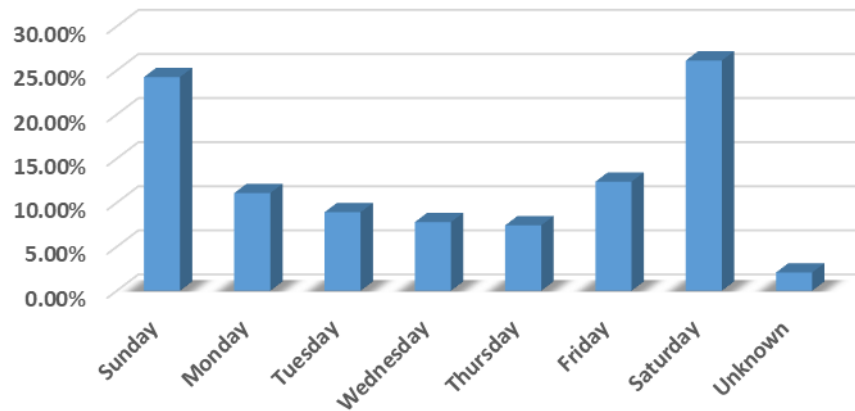
### Cause of Death FY98-23



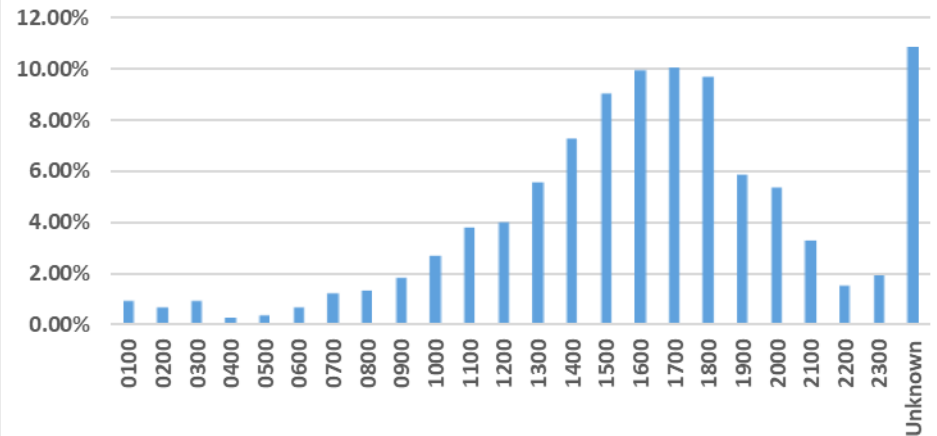
### FY98-23 Fatalities by Month



### FY98-23 Fatalities by Day



### FY98-23 Time of Fatalities



Corps of Engineers Public Recreation Fatalities FY98 - FY23																															
Division	District		1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	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	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	0	1	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	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	2	4	7	5	111	4.3	
	Louisville	LRL	6	6	3	2	3	4	5	10	14	7	8	9	6	4	9	9	7	9	7	6	4	12	13	3	6	9	181	7.0	
	Nashville	LRN	21	17	17	10	11	5	11	13	16	16	11	14	15	19	10	14	18	14	13	17	17	13	20	15	13	17	377	14.5	
	Pittsburgh	LRP	6	2	2	3	0	0	0	0	0	1	3	4	6	1	5	5	1	2	1	4	3	1	0	3	1	1	55	2.1	
	<b>TOTAL</b>	<b>LRD</b>	<b>40</b>	<b>29</b>	<b>25</b>	<b>22</b>	<b>24</b>	<b>11</b>	<b>16</b>	<b>30</b>	<b>37</b>	<b>27</b>	<b>23</b>	<b>32</b>	<b>31</b>	<b>27</b>	<b>29</b>	<b>31</b>	<b>27</b>	<b>33</b>	<b>25</b>	<b>30</b>	<b>30</b>	<b>27</b>	<b>35</b>	<b>25</b>	<b>27</b>	<b>33</b>	<b>726</b>	<b>27.9</b>	
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	3	3	8	5	124	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	0	0	0	0.0
	New Orleans	MVN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	1	0	0	0	4	0.2	
	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	0	0	0	0	9	0.3	
	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	0	0	3	3	52	2.0	
	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	4	5	1	0	86	3.3	
	<b>TOTAL</b>	<b>MVD</b>	<b>24</b>	<b>18</b>	<b>10</b>	<b>12</b>	<b>6</b>	<b>15</b>	<b>12</b>	<b>11</b>	<b>12</b>	<b>20</b>	<b>8</b>	<b>4</b>	<b>15</b>	<b>8</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>6</b>	<b>8</b>	<b>3</b>	<b>8</b>	<b>12</b>	<b>8</b>	<b>8</b>	<b>12</b>	<b>8</b>	<b>275</b>	<b>10.6</b>	
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	1	2	1	0	31	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	0	0	1	0	15	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	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	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	1	0	2	2	17	0.7	
	<b>TOTAL</b>	<b>NAD</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>4</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>64</b>	<b>2.5</b>	
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	6	12	6	8	194	7.5	
	Omaha	NWO	3	8	8	3	5	1	3	2	3	3	4	2	1	4	9	7	3	8	3	6	9	5	4	7	9	6	126	4.8	
	Portland	NWP	8	2	4	0	1	5	2	4	3	5	4	5	2	1	2	1	0	4	2	2	3	3	2	3	5	1	74	2.8	
	Seattle	NWS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	3	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	1	1	4	2	52	2.0	
	<b>TOTAL</b>	<b>NWD</b>	<b>17</b>	<b>27</b>	<b>18</b>	<b>7</b>	<b>16</b>	<b>16</b>	<b>15</b>	<b>22</b>	<b>25</b>	<b>14</b>	<b>15</b>	<b>17</b>	<b>16</b>	<b>14</b>	<b>19</b>	<b>25</b>	<b>15</b>	<b>18</b>	<b>11</b>	<b>14</b>	<b>21</b>	<b>9</b>	<b>13</b>	<b>24</b>	<b>24</b>	<b>17</b>	<b>449</b>	<b>17.3</b>	
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	0	0	0	0	6	0.2	
	<b>TOTAL</b>	<b>POD</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0.2</b>	
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	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	0	0	0	0	29	1.1	
	Mobile	SAM	19	33	15	13	20	16	22	18	18	24	23	16	17	31	21	17	24	14	22	21	19	16	26	14	23	14	516	19.8	
	Savannah	SAS	13	12	7	10	9	6	10	3	4	8	8	3	10	9	8	5	7	7	7	6	8	10	2	9	6	6	193	7.4	
	Wilmington	SAW	11	4	10	6	8	5	8	1	5	4	9	10	2	5	3	6	4	3	3	7	4	3	8	6	9	9	153	5.9	
	<b>TOTAL</b>	<b>SAD</b>	<b>43</b>	<b>51</b>	<b>35</b>	<b>29</b>	<b>37</b>	<b>27</b>	<b>42</b>	<b>24</b>	<b>27</b>	<b>36</b>	<b>42</b>	<b>34</b>	<b>30</b>	<b>47</b>	<b>33</b>	<b>29</b>	<b>36</b>	<b>28</b>	<b>34</b>	<b>34</b>	<b>32</b>	<b>29</b>	<b>36</b>	<b>29</b>	<b>38</b>	<b>29</b>	<b>891</b>	<b>34.3</b>	
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	1	0	0	0	34	1.3	
	Sacramento	SPK	5	1	2	8	7	5	6	5	2	4	0	4	3	8	3	2	2	1	0	6	4	3	3	2	4	5	95	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	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	0	0	0	0	29	1.1	
	<b>TOTAL</b>	<b>SPD</b>	<b>12</b>	<b>3</b>	<b>8</b>	<b>13</b>	<b>9</b>	<b>6</b>	<b>11</b>	<b>8</b>	<b>6</b>	<b>5</b>	<b>2</b>	<b>10</b>	<b>3</b>	<b>10</b>	<b>5</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>11</b>	<b>8</b>	<b>5</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>5</b>	<b>159</b>	<b>6.1</b>	
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	35	27	41	34	728	28.0	
	Galveston	SWG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4	0	0	0	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	5	19	16	13	324	12.5	
	Tulsa	SWT	21	16	28	21	15	19	12	18	14	20	24	13	16	34	17	19	7	12	14	18	14	12	30	18	18	20	470	18.1	
	<b>TOTAL</b>	<b>SWD</b>	<b>73</b>	<b>61</b>	<b>80</b>	<b>61</b>	<b>61</b>	<b>55</b>	<b>53</b>	<b>58</b>	<b>47</b>	<b>49</b>	<b>60</b>	<b>58</b>	<b>50</b>	<b>85</b>	<b>57</b>	<b>62</b>	<b>51</b>	<b>32</b>	<b>55</b>	<b>46</b>	<b>49</b>	<b>48</b>	<b>70</b>	<b>64</b>	<b>75</b>	<b>67</b>	<b>1527</b>	<b>58.7</b>	
Nationwide	<b>TOTAL</b>	<b>COE</b>	<b>214</b>	<b>194</b>	<b>178</b>	<b>146</b>	<b>154</b>	<b>131</b>	<b>151</b>	<b>158</b>	<b>158</b>	<b>155</b>	<b>151</b>	<b>156</b>	<b>147</b>	<b>197</b>	<b>157</b>	<b>162</b>	<b>142</b>	<b>121</b>	<b>139</b>	<b>140</b>	<b>148</b>	<b>131</b>	<b>168</b>	<b>154</b>	<b>184</b>	<b>161</b>	<b>4097</b>	<b>157.6</b>	
	<b>TOTAL</b>	<b>COE</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>								

# LRD Public Recreation Fatalities One-Page Summary FY98 - FY23 ##

Activity Summary (Based on Codes)	Number	% of Total
<b>Swimming Total</b>	<b>276</b>	<b>38.02%</b>
Designated Area	54	7.44%
Undesignated Area	222	30.58%
<b>Boating Total</b>	<b>368</b>	<b>50.69%</b>
Swimming	84	11.57%
Collision	50	6.89%
PWC	19	2.62%
Capsized	53	7.30%
Falls from Boat	113	15.56%
****Other Boating	49	6.75%
<b>Other Falls Total</b>	<b>59</b>	<b>8.13%</b>
<b>Other Recreation</b>	<b>23</b>	<b>3.17%</b>
<b>TOTAL</b>	<b>726</b>	

<b>Total Undesignated Swimming Area</b>	42.15%
<b>Total Falls Boat, Shore, etc.</b>	23.69%

###Outgranted	%	
YES	40	23%
NO	137	77%
	177	

## LRD Recreation Fatality Data Summary FY98 - FY23

Gender		%
Female	82	11.3%
Male	643	88.6%
Unknown	1	0.1%
<b>Total</b>	<b>726</b>	

Wearing PFD		%	
YES	45	6.2%	
NO	652	89.8%	
Unknown	13	1.8%	
*N/A	16	2.2%	
	726		

10 yr Age Groupings		
Age 0-9	5%	33
Age 10-20	21%	150
Age 21-30	19%	136
Age 31-40	16%	115
Age 41-50	15%	109
Age 51-60	11%	83
Age 61-70	8%	55
71 & Over	4%	32
Age Unknown	2%	13
<b>Total</b>		<b>726</b>

**Alcohol/Drug		%	
YES	129	17.8%	
NO	262	36.1%	
#Suspected	34	4.7%	
Unknown	301		
	726		

Swimming		%	
Designated Area	53	14.6%	
Undesignated Area	310	85.4%	
<b>Total</b>	<b>363</b>		

Other Common Age Groupings		
13 & under	6%	47
Age 14-17	7%	49
Ages 18-35	39%	281
Ages 36-53	26%	188
Age 54 & Over	20%	148
Age Unknown	2%	13
		726

Cause			
<b>D = Drowning</b>	630	86.8%	
<b>T = Trauma</b>	72	9.9%	
<b>DH = Hypothermia</b>	5	0.7%	
<b>M = Medical</b>	4	0.6%	
<b>***CO = Carbon Monoxide</b>	4	0.6%	
<b>***HR = Heat Related</b>	0	0.0%	
<b>U = Unknown</b>	11	1.5%	
	726		

**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 and in FY22 -heat related 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 Fatalities One-Page Summary FY98 - FY23 ##

Activity Summary (Based on Codes)	Number	% of Total
<b>Swimming Total</b>	<b>98</b>	<b>35.64%</b>
Designated Area	39	14.18%
Undesignated Area	59	21.45%
<b>Boating Total</b>	<b>140</b>	<b>50.91%</b>
Swimming	41	14.91%
Collision	22	8.00%
PWC	4	1.45%
Capsized	19	6.91%
Falls from Boat	40	14.55%
****Other Boating	14	5.09%
<b>Other Falls Total</b>	<b>23</b>	<b>8.36%</b>
<b>Other Recreation</b>	<b>14</b>	<b>5.09%</b>

TOTAL 275

<b>Total Undesignated Swimming Area</b>	<b>36.36%</b>
<b>Total Falls Boat, Shore, etc.</b>	<b>22.91%</b>

###Outgranted	%
YES	6 11%
NO	50 89%
56	

## MVD Recreation Fatality Data Summary FY98 - FY23

Gender		%
Female	34	12.4%
Male	241	87.6%
Unknown	0	0.0%
<b>Total</b>	<b>275</b>	

*Wearing PFD		%
YES	19	6.9%
NO	244	88.7%
Unknown	6	2.2%
*N/A	6	2.2%
275		

10 yr Age Groupings		
Age 0-9	6%	16
Age 10-20	19%	52
Age 21-30	19%	51
Age 31-40	16%	44
Age 41-50	13%	37
Age 51-60	12%	33
Age 61-70	8%	22
71 & Over	5%	15
Age Unknown	2%	5
<b>Total</b>		<b>275</b>

**Alcohol/Drug		%
YES	49	18%
NO	128	47%
**** Suspected	10	4%
Unk	88	32%

Other Common Age Groupings		
13 & under	10%	28
Age 14-17	8%	22
Ages 18-35	34%	94
Ages 36-53	23%	62
Age 54 & Over	23%	64

****Swimming Fatalities (includes boat/swim)		%	
Designated Area	38	29%	
Undesignated Area	101	77%	
<b>Total</b>	<b>139</b>		

Cause			
D = Drowning	240	87.3%	
T = Trauma	24	8.7%	
DH = Hypothermia	7	2.5%	
M = Medical	1	0.4%	
***CO = Carbon Monoxide	3	1.1%	
***HR = Heat Related	0	0.0%	
U = Unknown	0	0.0%	

275

275

### 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 and in FY22 - heat related as a 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.

# NAD Public Recreation Fatalities One-Page Summary FY98 - FY23 ##

Activity Summary (Based on Codes)	Number	% of Total
<b>Swimming Total</b>	<b>33</b>	<b>51.56%</b>
Designated Area	3	4.69%
Undesignated Area	30	46.88%
<b>Boating Total</b>	<b>23</b>	<b>35.94%</b>
Swimming	5	7.81%
Collision	5	7.81%
PWC	0	0.00%
Capsized	6	9.38%
Falls from Boat	2	3.13%
****Other Boating	5	7.81%
<b>Other Falls Total</b>	<b>2</b>	<b>3.13%</b>
<b>Recr-not water</b>	<b>6</b>	<b>9.38%</b>

TOTAL 64

<b>Total Undesignated Swimming Area</b>	<b>54.69%</b>
<b>Total Falls Boat, Shore, etc.</b>	<b>6.25%</b>

###Outgranted	%	
YES	3	0%
NO	8	0%

11

## NAD Recreation Fatality Data Summary FY98 - FY23

Gender	%	
Female	8	12.5%
Male	56	87.5%
Unknown	0	0.0%
<b>Total</b>	<b>64</b>	

Wearing PFD	%	
YES	2	3.1%
NO	52	81.3%
Unknown	4	6.3%
*N/A	6	9.4%

64

10 yr Age Groupings		
Age 0-9	3%	2
Age 10-20	25%	16
Age 21-30	19%	12
Age 31-40	9%	6
Age 41-50	9%	6
Age 51-60	17%	11
Age 61-70	3%	2
71 & Over	9%	6
Age Unknown	5%	3
<b>Total</b>	<b>100%</b>	<b>64</b>

**Alcohol/Drug	%	
YES	4	6%
NO	29	45%
# SUSPECTED	2	3%
Unknown	29	45%

****Swimming Fatalities(incl boat, swim)	%	
Designated Area	3	8%
Undesignated Area	35	92%
<b>Total Swimming</b>	<b>38</b>	

Other Common Age Groupings		
13 & under	6%	4
Age14-17	16%	10
Ages 18-35	30%	19
Ages 36-53	17%	11
Age 54 +	27%	17

64

Cause		
<b>D = Drowning</b>	48	75.0%
<b>T = Trauma</b>	9	14.1%
<b>DH = Hypothermia</b>	2	3.1%
<b>M = Medical</b>	3	4.7%
<b>***CO = Carbon Monoxide</b>	1	1.6%
<b>***HR = Heat Related</b>	0	0%
<b>U = Unknown</b>	1	1.6%
	<b>64</b>	<b>100%</b>

**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 and in FY22 - heat related as a 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 Fatalities One-Page Summary FY98 - FY23 ##

Activity Summary (Based on Codes)	Number	% of Total
<b>Swimming Total</b>	<b>160</b>	<b>36%</b>
Designated Area	26	6%
Undesignated Area	134	30%
<b>Boating Total</b>	<b>218</b>	<b>49%</b>
Swimming	61	14%
Collision	17	4%
PWC	12	3%
Capsized	54	12%
Falls from Boat	50	11%
****Other Boating	24	5%
<b>Other Falls</b>	<b>34</b>	<b>8%</b>
<b>Other Recreation</b>	<b>37</b>	<b>8%</b>

<b>Total Undesignated Swimming Area</b>	<b>43%</b>
<b>Total Falls Boat, Shore, etc.</b>	<b>19%</b>

###Outgranted		%
YES	39	36%
NO	69	64%

449

108

## NWD Water-Related Fatality Data Summary FY98 - FY23

Gender		%
Female	47	10%
Male	399	89%
Unknown	3	1%
<b>Total</b>	<b>449</b>	

Wearing PFD		%
YES	24	5%
NO	384	86%
Unknown	22	5%
*N/A	19	4%

449

10 yr Age Groupings		
Age 0-9	6%	25
Age 10-20	17%	77
Age 21-30	19%	87
Age 31-40	14%	65
Age 41-50	14%	63
Age 51-60	11%	50
Age 61-70	8%	36
71 & Over	8%	38
Age Unknown	2%	8
<b>Total</b>		<b>449</b>

**Alcohol/Drug		%
YES	87	19%
NO	184	41%
#Suspected	19	4%
Unk	159	35%
	449	

Swimming Fatalities (include boat/swim) %		
Designated Area	27	12%
Undesignated Area	195	88%
<b>Total</b>	<b>222</b>	

\*\*\*\*

Other Common Age		
13 & under	7%	31
Age 14-17	9%	40
Ages 18-35	33%	146
Ages 36-53	26%	115
Age 54 & Over	24%	109

449

Cause			
D = Drowning		367	81.7%
T = Trauma		48	10.7%
DH = Hypothermia		13	2.9%
M = Medical		2	0.4%
***CO = Carbon Monoxide		7	1.6%
***HR = Heat Related		0	0%
U = Unknown		12	2.7%
		449	100%

449

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 and in FY22 - heat related as a 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 Fatalities One-Page Summary FY98 - FY23 ##

Activity Summary (Based on Codes)	Number	% of Total
<b>Swimming Total</b>	<b>413</b>	<b>46.51%</b>
Designated Area	74	8.33%
Undesignated Area	339	38.18%
<b>Boating Total</b>	<b>376</b>	<b>42.34%</b>
Swimming	90	10.14%
Collision	31	3.49%
PWC	20	2.25%
Capsized	58	6.53%
Falls from Boat	109	12.27%
*****Other Boating	68	7.66%
<b>Other Falls Total</b>	<b>79</b>	<b>8.90%</b>
<b>Other Recreation</b>	<b>20</b>	<b>2.25%</b>

TOTAL 888

<b>Total Undesignated Swimming Area</b>	<b>48.31%</b>
<b>Total Falls Boat, Shore, etc.</b>	<b>21.17%</b>

###Outgranted		%
YES	52	27%
NO	138	73%
190		

## SAD Recreation Fatality Data Summary FY98 - FY23

Gender		%
Female	91	10.2%
Male	792	89.2%
Unknown	5	0.6%
<b>Total</b>	<b>888</b>	

Wearing PFD		%
YES	34	3.8%
NO	826	93.0%
Unknown	14	1.6%
*N/A	14	1.6%
888		

10 yr Age Groupings		
Age 0-9	5%	44
Age 10-20	21%	189
Age 21-30	23%	202
Age 31-40	13%	118
Age 41-50	12%	110
Age 51-60	11%	102
Age 61-70	9%	76
71 & Over	4%	35
Age Unknown	1%	12
<b>Total</b>		<b>888</b>

**Alcohol/Drug		%
YES	136	15.3%
NO	441	49.7%
#Suspected	40	4.5%
Unknown	271	30.5%
888		

****Swimming Fatalities (incl boat & swim)		%
Designated Area	73	14.5%
Undesignated Area	429	85.5%
<b>Total Swimming</b>	<b>502</b>	

Other Common Age Groupings		
13 & under	8%	73
Age 14-17	9%	83
Ages 18-35	39%	342
Ages 36-53	23%	203
Age 54 & Over	20%	175

Cause		%
<b>D = Drowning</b>	778	88%
<b>T = Trauma</b>	87	10%
<b>DH = Hypothermia</b>	2	0%
<b>M = Medical</b>	5	1%
<b>***CO = Carbon Monoxide</b>	6	1%
<b>***HR = Heat Related</b>	0	0%
<b>U = Unknown</b>	10	1%

888

**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 and in FY22 - heat related as a 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 Fatalities One-Page Summary FY98 - FY23 ##

Activity Summary (Based on Codes)	Number	% of Total
<b>Swimming Total</b>	<b>78</b>	<b>49.06%</b>
Designated Area	4	2.52%
Undesignated Area	74	46.54%
<b>Boating Total</b>	<b>61</b>	<b>38.36%</b>
Swimming	18	11.32%
Collision	4	2.52%
PWC	5	3.14%
Capsized	11	6.92%
Falls from Boat	15	9.43%
****Other Boating	8	5.03%
<b>Other Falls Total</b>	<b>14</b>	<b>8.81%</b>
<b>Other Recreation</b>	<b>6</b>	<b>3.77%</b>

TOTAL                    159

<b>Total Undesignated Swimming Area</b>	<b>57.86%</b>
<b>Total Falls Boat, Shore, etc.</b>	<b>18.24%</b>

###Outgranted	%	
YES	1	4%
NO	27	96%
	28	

## SPD Recreation Fatality Data Summary FY98 - FY23

Gender	%	
Female	25	15.7%
Male	132	83.0%
Unknown	2	1.3%
<b>Total</b>	<b>159</b>	

*Wearing PFD	%	
YES	10	6.3%
NO	140	88.1%
Unknown	7	4.4%
*N/A	2	1.3%
	159	

10 yr Age Groupings		
Age 0-9	8%	13
Age 10-20	24%	38
Age 21-30	19%	30
Age 31-40	15%	24
Age 41-50	15%	24
Age 51-60	6%	10
Age 61-70	4%	6
71 & Over	4%	7
Age Unknown	4%	7
<b>Total</b>		<b>159</b>

**Alcohol/Drug	%	
YES	22	14%
NO	85	53%
#Suspected	5	3%
Unk	47	30%

Other Common Age Groupings		
13 & under	12%	19
Age 14-17	9%	14
Ages 18-35	40%	63
Ages 36-53	24%	38
Age 54 & Over	11%	18
		159

**** Swimming Fatalities (incl boat swim)			
Designated Area		2	2%
Undesignated Area		95	98%
<b>Total</b>		<b>97</b>	

Cause			
<b>D = Drowning</b>		137	86.2%
<b>T = Trauma</b>		16	10.1%
<b>DH = Hypothermia</b>		2	1.3%
<b>M = Medical</b>		1	0.6%
<b>***CO = Carbon Monoxide</b>		0	0.0%
<b>***HR = Heat Related</b>		0	0%
<b>U = Unknown</b>		3	1.9%
		159	

**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 and in FY22 - heat related as a 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 Fatalities One-Page Summary FY98-FY23 ##

Activity Summary (Based on Codes)	Number	% of Total
<b>Swimming Total</b>	<b>701</b>	<b>45.91%</b>
Designated Area	129	8.45%
Undesignated Area	572	37.46%
<b>Boating Total</b>	<b>676</b>	<b>44.27%</b>
Swimming	191	12.51%
Collision	57	3.73%
PWC	39	2.55%
Capsized	143	9.36%
Falls from Boat	170	11.13%
****Other Boating	76	4.98%
<b>Other Falls Total</b>	<b>84</b>	<b>5.50%</b>
<b>Other Recreation</b>	<b>66</b>	<b>4.32%</b>

TOTAL                    1527

<b>Total Undesignated Swimming Area</b>	<b>49.97%</b>
<b>Total Falls Boat, Shore, etc.</b>	<b>16.63%</b>

###Outgranted	%	
YES	95	25%
NO	278	75%
373		

## SWD Recreation Fatality Data Summary FY98 - FY23

Gender	%	
Female	170	11%
Male	1349	88%
Unknown	8	1%
<b>Total</b>	<b>1527</b>	

Wearing PFD	%	
YES	97	6%
NO	1346	88%
Unknown	34	2%
*N/A	50	3%
1527		

10 yr Age Groupings		
Age 0-9	5%	80
Age 10-20	21%	325
Age 21-30	23%	347
Age 31-40	16%	251
Age 41-50	13%	193
Age 51-60	10%	152
Age 61-70	7%	102
71 & Over	4%	64
Age Unknown	1%	13
<b>Total</b>		<b>1527</b>

**Alcohol/Drug	%	
YES	273	18%
NO	707	46%
# Suspected	57	4%
Unk	490	32%
1527		

**** Swimming Fatalities (incl boat, swim)	%	
Designated Area	126	14%
Undesignated Area	764	86%
<b>Total Swimming</b>	<b>890</b>	

Other Common Age Groupings		
13 & under	8%	126
Age14-17	9%	145
Ages 18-35	40%	607
Ages 36-53	24%	368
Age 54 & Over	18%	268
1527		

Cause	%	
<b>D = Drowning</b>	1316	86.2%
<b>T = Trauma</b>	155	10.2%
<b>DH = Hypothermia</b>	28	1.8%
<b>M = Medical</b>	7	0.5%
<b>***CO = Carbon Monoxide</b>	4	0.9%
<b>***HR = Heat Related</b>	3	0.2%
<b>U = Unknown</b>	14	0.9%

1527

**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 and in FY22 - heat related as a 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.

## 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](http://www.usace.army.mil/locations.aspx)