



US Army Corps
of Engineers®

FY98-FY24

**USACE Public Recreation
Fatalities Data Summary**

06 Jan 2025

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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, 162.1 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 158 fatalities is the annual average over the last five years (FY20-24).

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 FY98-24 summary sheet on page 3 shows that 89% 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, FY24, FY23, 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.

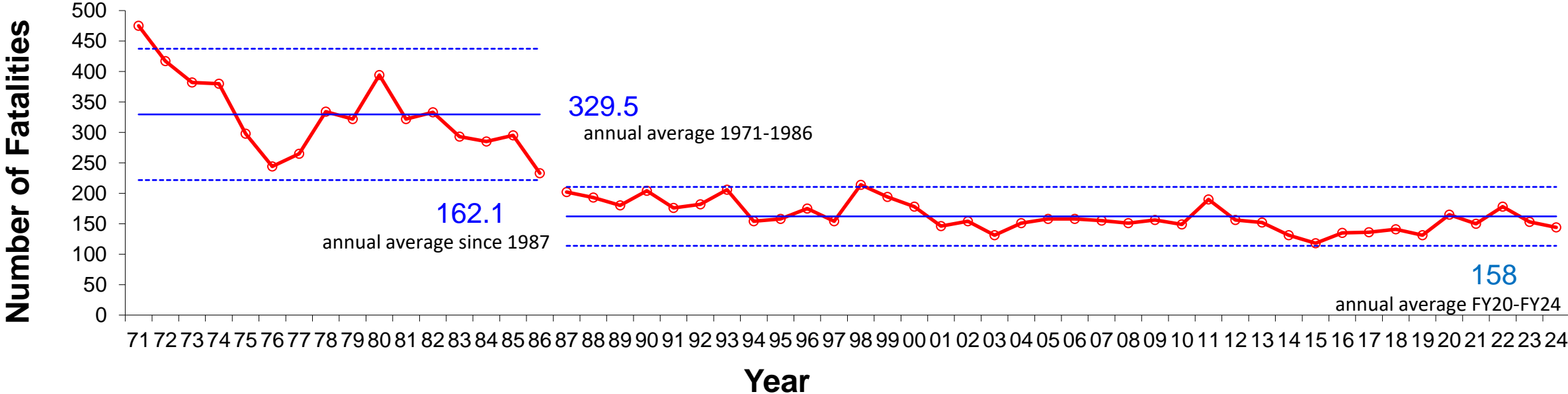
The spreadsheet on page 9 shows the number of public recreation fatalities broken down by USACE divisions and districts from FY98-FY24. In FY23, there were 161 public recreation fatalities and in FY24 there were 150, which is a 7% decrease.

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.

In FY24, the breakdown by division is LRD 27, MVD 5, NAD 2, NWD 29, SAD 41, SPD 5, and SWD 41 and the districts with the most fatalities include SWF 19, SAM 16, SWT 17, LRN 14, and SAS 14.

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 promote water safety to adults and increase life jacket wear.

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 - FY24

Activity Summary	Number	% of Total
Swimming Total	1832	43.11%
Designated Area	341	8.02%
Undesignated Area	1491	35.08%
Boating Total	1948	45.84%
Swimming	511	12.02%
Collision	187	4.40%
PWC	103	2.42%
Capsized	366	8.61%
Falls from Boat	527	12.40%
****Other Boating	254	5.98%
Other Falls	306	7.20%
Other Recr Total	164	3.86%
TOTAL	4250	100.0%

Total Undesignated Swimming Area	47.1%
Total Falls Boat, Dock, Shore, etc.	19.6%

Category Summary

Gender		%
468	Female	11.0%
3762	Male	88.5%
20	Unknown	0.5%
4250	Total	

*Wearing PFD		%
YES	235	5.5%
NO	3793	89.2%
Unknown	101	2.4%
*N/A	121	2.8%

4250

Common Age Groupings

Age Group	%	Count
13 and under	8%	340
Age 14-17	9%	375
Age 18-35	38%	1613
Age 36-53	24%	1026
Age 54 & Over	20%	835

4250

**Alcohol/Drug	%	###Outgranted	%
YES	17%	284	26%
NO	45%	813	74%
#SUSP	4%	1097	
Unk	35%		

4250

10 Yr Age Groupings

Age Group	%	Count
Age 0-9	5%	217
Age 10-20	21%	885
Age 21-30	21%	893
Age 31-40	15%	652
Age 41-50	13%	562
Age 51-60	11%	464
Age 61-70	7%	307
71 & Over	5%	209
Age Unknown	1%	61

4250

**** Swimming Fatalities (incl boat&swim)		%
Designated Area	334	14%
Undesignated Area	2016	86%
Total Swimming Only	2350	

***Cause		%
D = Drowning	3660	86.1%
T = Trauma	427	10.0%
DH = Hypothermia	59	1.4%
M = Medical	25	0.6%
***HR = Heat Related	3	0.1%
***CO = Carbon Monoxide	24	0.6%
U = Unknown	52	1.2%
	4250	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

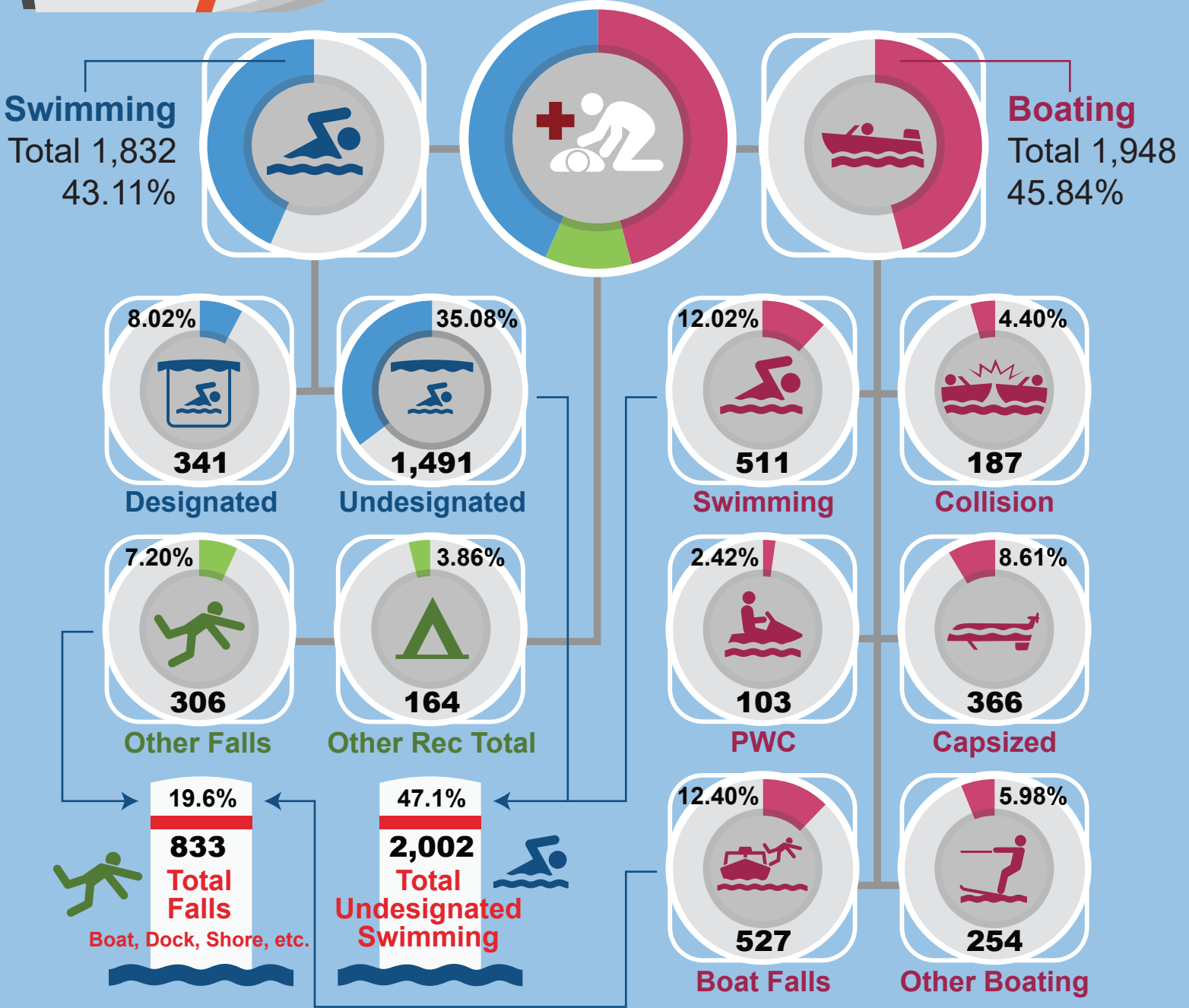
Started including all public recreation-related fatalities in FY11

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

U.S. Army Corps of Engineers Public Recreation Fatalities *FY98-FY24

Total Fatalities 4,250

*Fiscal Year is OCT 01-SEP 30



89% were male



Fatalities by Age



89% Were Not Wearing a Life Jacket



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USACE Public Recreation Fatalities One-Page Summary FY15 - FY24

Activity Summary	Number	% of Total
Swimming Total	554	37.01%
Designated Area	90	6.01%
Undesignated Area	464	31.00%
Boating Total	764	51.04%
Swimming	245	16.37%
Collision	38	2.54%
PWC	42	2.81%
Capsized	142	9.49%
Falls from Boat	189	12.63%
****Other Boating	108	7.21%
Other Falls	128	8.55%
Other Recr Total	51	3.41%
TOTAL	1497	100.0%

Total Undesignated Swimming Area	47.4%
Total Falls Boat, Dock, Shore, etc.	21.2%

Category Summary

Gender		%
168	Female	11.2%
1329	Male	88.8%
0	Unknown	0.0%
1497	Total	

*Wearing PFD		%
YES	106	7.1%
NO	1340	89.5%
Unknown	0	0.0%
*N/A	51	3.4%

Common Age Groupings

Age Group	%	Count
13 and under	6%	83
Age 14-17	7%	111
Age 18-35	36%	543
Age 36-53	25%	372
Age 54 & Over	26%	388

**Alcohol/Drug	%
YES	11%
NO	32%
#SUSP	7%
Unk	50%

###Outgranted	%
YES	26%
NO	74%

10 Yr Age Groupings

Age Group	%	Count
Age 0-9	3%	52
Age 10-20	18%	262
Age 21-30	21%	313
Age 31-40	15%	221
Age 41-50	14%	210
Age 51-60	13%	192
Age 61-70	10%	146
71 & Over	7%	101
Age Unknown	0%	0

**** Swimming Fatalities (incl boat&swim)		%
Designated Area	83	10%
Undesignated Area	723	90%
Total Swimming Only	806	
***Cause		
D = Drowning	1304	87.1%
T = Trauma	169	11.3%
DH = Hypothermia	10	0.7%
M = Medical	0	0.0%
***HR = Heat Related	3	0.2%
***CO = Carbon Monoxide	11	0.7%
U = Unknown	0	0.0%
TOTAL	1497	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 FY23 Data

Activity Summary	FY23	FY23 % of Total			Fatalities By Division	
Swimming Total	65	40.4%			LRD 33	20.50%
Designated Area	8	5.0%			MVD 8	4.97%
Undesignated Area	57	35.4%			NAD 2	1.24%
Boating Total	72	44.7%	Total Undesignated Swimming Area	FY23 55%	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%			Districts with most fatalities	
Falls from Boat	15	9.3%	Total Falls Boat, Shore, etc.	FY23 20%	SWF 34	21.12%
****Other Boating	6	3.7%			SWT 20	12.42%
Other Falls Total	17	10.6%			LRN 17	10.56%
Other Recreation	7	4.3%			SAM 14	8.70%
TOTAL	161				SWL 13	8.07%

Public Recreation Fatality Data Summary

Gender	FY23	
Female	11	6.8%
Male	150	93.2%
Unknown	0	0.0%
Total	161	

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
Total		161

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%
Total	97				

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)

USACE Public Recreation Fatalities One-Page Summary FY24 Data

Activity Summary	FY24	FY24 % of Total			Fatalities By Division	
Swimming Total	61	40.7%			LRD 27	18.00%
Designated Area	11	7.3%			MVD 5	3.33%
Undesignated Area	50	33.3%			NAD 2	1.33%
Boating Total	75	50.0%	Total Undesignated Swimming Area	FY24 49%	NWD 29	19.33%
Swimming	24	16.0%			SAD 41	27.33%
Collision	2	1.3%			SPD 5	3.33%
PWC	4	2.7%			SWD 41	27.33%
Capsized	17	11.3%			Districts with most fatalities	
Falls from Boat	22	14.7%	Total Falls Boat, Shore, etc.	FY24 21%	SWF 19	12.67%
****Other Boating	6	4.0%			SWT 17	11.33%
Other Falls Total	9	6.0%			SAM 16	10.67%
Other Recreation	5	3.3%			SAS 14	9.33%
TOTAL	150				LRN 14	9.33%

Public Recreation Fatality Data Summary

Gender	FY24	
Female	8	5.3%
Male	142	94.7%
Unknown	0	0.0%
Total	150	

Wearing PFD	FY24	
YES	7	4.7%
NO	137	91.3%
Unknown	0	0.0%
N/A	6	4.0%

10 yr Age Grpgs	FY24	
Age 0-9	1.3%	2
Age 10-20	24.0%	36
Age 21-30	17.3%	26
Age 31-40	16.7%	25
Age 41-50	13.3%	20
Age 51-60	14.0%	21
Age 61-70	5.3%	8
71 & Over	8.0%	12
Age Unknown	0.0%	0
Total		150

Alcohol/Drug	FY24	
YES	16	10.7%
NO	51	34.0%
SUSPECTED	2	1.3%
Unknown	81	54.0%

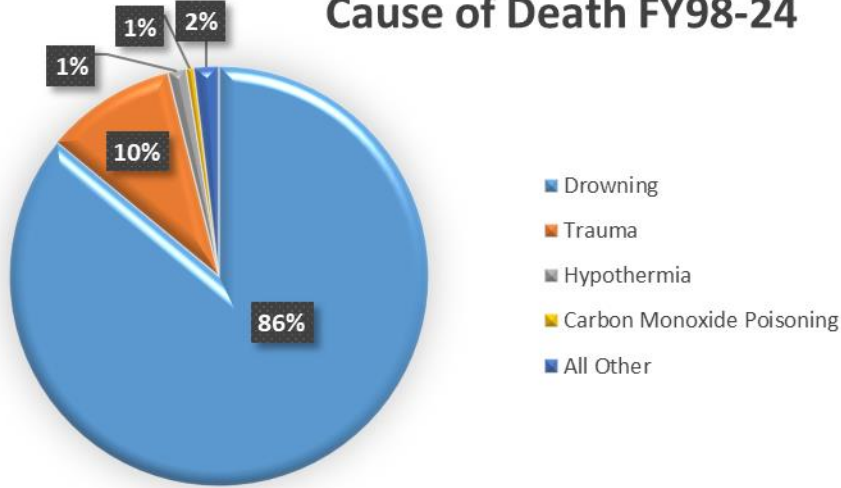
****Swimming Fatalities		FY24	Outgranted		%
Designated Area	10	11.8%	YES	45	30.0%
Undesignated Area	75	88.2%	NO	105	70.0%
Total	85				

Common Age Grps	FY24	
13 & under	5.3%	8
Age14-17	8.0%	12
Ages 18-35	38.0%	57
Ages 36-53	26.7%	40
Age 54 +	22.0%	33

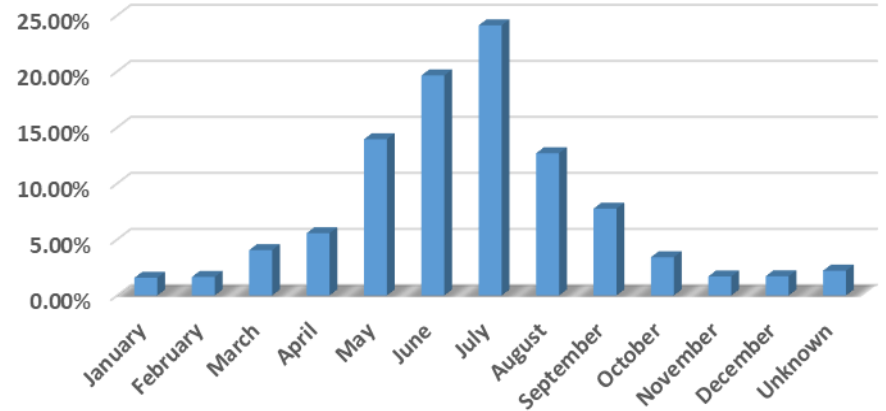
Cause	FY24	
D = Drowning	132	88.0%
T = Trauma	18	12.0%
DH = Hypothermia	0	0.0%
HR=Heat Related	0	0.0%
CO=Carbon Monoxide	0	0.0%

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)

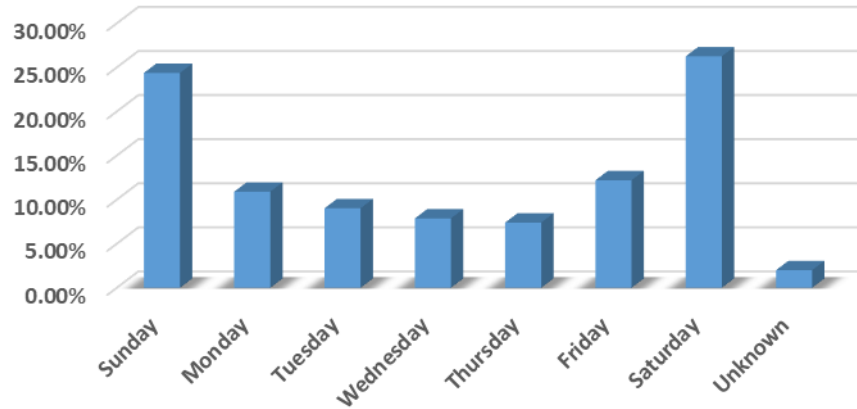
Cause of Death FY98-24



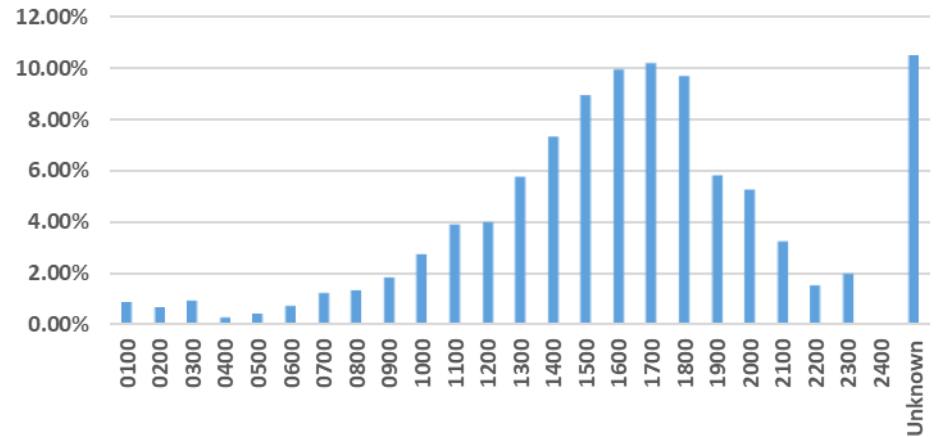
FY98-24 Fatalities by Month



FY98-24 Fatalities by Day



FY98-24 Time of Fatalities



LRD Public Recreation Fatalities One-Page Summary FY98 - FY24

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	281	37.32%
Designated Area	54	7.17%
Undesignated Area	227	30.15%
Boating Total	388	51.53%
Swimming	93	12.35%
Collision	50	6.64%
PWC	21	2.79%
Capsized	55	7.30%
Falls from Boat	116	15.41%
****Other Boating	53	7.04%
Other Falls Total	60	7.97%
Other Recreation	24	3.19%
TOTAL	753	

Total Undesignated Swimming Area	42.50%
Total Falls Boat, Shore, etc.	23.37%

###Outgranted	%	
YES	45	22%
NO	159	78%
	204	

LRD Recreation Fatality Data Summary FY98 - FY24

Gender		%
Female	84	11.2%
Male	668	88.7%
Unknown	1	0.1%
Total	753	

Wearing PFD		%	
YES	48	6.4%	
NO	676	89.8%	
Unknown	13	1.7%	
*N/A	16	2.1%	
	753		

10 yr Age Groupings		
Age 0-9	4%	33
Age 10-20	21%	155
Age 21-30	19%	141
Age 31-40	16%	120
Age 41-50	15%	113
Age 51-60	12%	88
Age 61-70	7%	56
71 & Over	5%	34
Age Unknown	2%	13
Total		753

**Alcohol/Drug		%	
YES	134	17.8%	
NO	269	35.7%	
#Suspected	34	4.5%	
Unknown	316		
	753		

Swimming		%	
Designated Area	53	14.1%	
Undesignated Area	324	85.9%	
Total	377		

Other Common Age Groupings		
13 & under	7%	49
Age14-17	7%	49
Ages 18-35	39%	292
Ages 36-53	26%	197
Age 54 & Over	20%	153
Age Unknown	2%	13
		753

Cause		
D = Drowning	652	86.6%
T = Trauma	77	10.2%
DH = Hypothermia	5	0.7%
M = Medical	4	0.5%
***CO = Carbon Monoxide	4	0.5%
***HR = Heat Related	0	0.0%
U = Unknown	11	1.5%
	753	

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 - FY24

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	100	35.71%
Designated Area	39	13.93%
Undesignated Area	61	21.79%
Boating Total	142	50.71%
Swimming	41	14.64%
Collision	22	7.86%
PWC	4	1.43%
Capsized	20	7.14%
Falls from Boat	41	14.64%
****Other Boating	14	5.00%
Other Falls Total	23	8.21%
Other Recreation	15	5.36%

TOTAL 280

Total Undesignated Swimming Area	36.43%
Total Falls Boat, Shore, etc.	22.86%

###Outgranted	%
YES	6 10%
NO	55 90%

61

MVD Recreation Fatality Data Summary FY98 - FY24

Gender		%
Female	34	12.1%
Male	246	87.9%
Unknown	0	0.0%
Total	280	

*Wearing PFD		%
YES	19	6.8%
NO	248	88.6%
Unknown	6	2.1%
*N/A	7	2.5%

280

10 yr Age Groupings		
Age 0-9	6%	16
Age 10-20	19%	53
Age 21-30	19%	52
Age 31-40	16%	45
Age 41-50	14%	38
Age 51-60	12%	33
Age 61-70	8%	22
71 & Over	6%	16
Age Unknown	2%	5
Total		280

**Alcohol/Drug		%
YES	50	18%
NO	131	47%
**** Suspected	10	4%
Unk	89	32%

****Swimming Fatalities (includes boat/swim)		%	
Designated Area	38	28%	
Undesignated Area	103	76%	
Total	141		

Other Common Age Groupings		
13 & under	10%	29
Age14-17	8%	22
Ages 18-35	34%	96
Ages 36-53	23%	63
Age 54 & Over	23%	65

280

Cause			
D = Drowning	243	86.8%	
T = Trauma	26	9.3%	
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%	

280

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 - FY24

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	34	51.52%
Designated Area	3	4.55%
Undesignated Area	31	46.97%
Boating Total	24	36.36%
Swimming	5	7.58%
Collision	5	7.58%
PWC	0	0.00%
Capsized	7	10.61%
Falls from Boat	2	3.03%
****Other Boating	5	7.58%
Other Falls Total	2	3.03%
Recr-not water	6	9.09%

TOTAL 66

Total Undesignated Swimming Area	54.55%
Total Falls Boat, Shore, etc.	6.06%

###Outgranted	%	
YES	3	23%
NO	10	77%
13		

NAD Recreation Fatality Data Summary FY98 - FY24

Gender	%	
Female	8	12.1%
Male	58	87.9%
Unknown	0	0.0%
Total	66	

Wearing PFD	%	
YES	2	3.0%
NO	54	81.8%
Unknown	4	6.1%
*N/A	6	9.1%
66		

10 yr Age Groupings		
Age 0-9	3%	2
Age 10-20	27%	18
Age 21-30	18%	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
Total	100%	66

**Alcohol/Drug	%	
YES	4	6%
NO	31	47%
# SUSPECTED	2	3%
Unknown	29	44%

****Swimming Fatalities(incl boat, swim)	%	
Designated Area	3	8%
Undesignated Area	36	92%
Total Swimming	39	

Other Common Age Groupings		
13 & under	6%	4
Age14-17	18%	12
Ages 18-35	29%	19
Ages 36-53	17%	11
Age 54 +	26%	17
66		

Cause		
D = Drowning	50	75.8%
T = Trauma	9	13.6%
DH = Hypothermia	2	3.0%
M = Medical	3	4.5%
***CO = Carbon Monoxide	1	1.5%
***HR = Heat Related	0	0%
U = Unknown	1	1.5%
		66
		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 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 - FY24

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	169	35%
Designated Area	28	6%
Undesignated Area	141	29%
Boating Total	236	49%
Swimming	65	14%
Collision	17	4%
PWC	12	3%
Capsized	62	13%
Falls from Boat	55	12%
****Other Boating	25	5%
Other Falls	34	7%
Other Recreation	39	8%

Total Undesignated Swimming Area	43%
Total Falls Boat, Shore, etc.	19%

###Outgranted	%	
YES	49	36%
NO	88	64%

478

137

NWD Water-Related Fatality Data Summary FY98 - FY24

Gender	%	
Female	49	10%
Male	426	89%
Unknown	3	1%
Total	478	

Wearing PFD	%	
YES	25	5%
NO	410	86%
Unknown	22	5%
*N/A	21	4%

478

10 yr Age Groupings		
Age 0-9	5%	25
Age 10-20	17%	82
Age 21-30	19%	92
Age 31-40	15%	73
Age 41-50	13%	64
Age 51-60	11%	54
Age 61-70	8%	37
71 & Over	9%	43
Age Unknown	2%	8
Total		478

**Alcohol/Drug	%	
YES	89	19%
NO	191	40%
#Suspected	21	4%
Unk	177	37%
	478	

Swimming Fatalities (include boat/swim) %		
Designated Area	29	12%
Undesignated Area	206	88%
Total	235	

Other Common Age		
13 & under	6%	31
Age 14-17	9%	42
Ages 18-35	33%	159
Ages 36-53	25%	121
Age 54 & Over	24%	117

478

Cause			
D = Drowning		393	82.2%
T = Trauma		51	10.7%
DH = Hypothermia		13	2.7%
M = Medical		2	0.4%
***CO = Carbon Monoxide		7	1.5%
***HR = Heat Related		0	0%
U = Unknown		12	2.5%
		478	100%

478

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 - FY24

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	432	46.45%
Designated Area	77	8.28%
Undesignated Area	355	38.17%
Boating Total	396	42.58%
Swimming	95	10.22%
Collision	32	3.44%
PWC	21	2.26%
Capsized	61	6.56%
Falls from Boat	119	12.80%
*****Other Boating	68	7.31%
Other Falls Total	82	8.82%
Other Recreation	20	2.15%

TOTAL 930

Total Undesignated Swimming Area	48.39%
Total Falls Boat, Shore, etc.	21.61%

###Outgranted	%	
YES	61	26%
NO	171	74%

232

SAD Recreation Fatality Data Summary FY98 - FY24

Gender	Number	%
Female	92	9.9%
Male	833	89.6%
Unknown	5	0.5%
Total	930	

Wearing PFD	Number	%
YES	35	3.8%
NO	867	93.2%
Unknown	14	1.5%
*N/A	14	1.5%
Total	930	

10 yr Age Groupings	Number	%
Age 0-9	44	5%
Age 10-20	197	21%
Age 21-30	208	22%
Age 31-40	127	14%
Age 41-50	119	13%
Age 51-60	106	11%
Age 61-70	78	8%
71 & Over	39	4%
Age Unknown	12	1%
Total	930	

**Alcohol/Drug	Number	%
YES	140	15.1%
NO	461	49.6%
#Suspected	40	4.3%
Unknown	289	31.1%
Total	930	

****Swimming Fatalities (incl boat & swim)	Number	%
Designated Area	75	14.3%
Undesignated Area	451	85.7%
Total Swimming	526	

Other Common Age Groupings	Number	%
13 & under	74	8%
Age 14-17	87	9%
Ages 18-35	354	38%
Ages 36-53	220	24%
Age 54 & Over	183	20%

Cause	Number	%
D = Drowning	817	88%
T = Trauma	90	10%
DH = Hypothermia	2	0%
M = Medical	5	1%
***CO = Carbon Monoxide	6	1%
***HR = Heat Related	0	0%
U = Unknown	10	1%

930

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 - FY24

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	79	48.17%
Designated Area	4	2.44%
Undesignated Area	75	45.73%
Boating Total	63	38.41%
Swimming	18	10.98%
Collision	4	2.44%
PWC	5	3.05%
Capsized	12	7.32%
Falls from Boat	16	9.76%
****Other Boating	8	4.88%
Other Falls Total	16	9.76%
Other Recreation	6	3.66%

Total Undesignated Swimming Area	56.71%
Total Falls Boat, Shore, etc.	19.51%

TOTAL 164

###Outgranted	%	
YES	2	6%
NO	31	94%
33		

SPD Recreation Fatality Data Summary FY98 - FY24

Gender	%	
Female	25	15.2%
Male	137	83.5%
Unknown	2	1.2%
Total	164	

*Wearing PFD	%	
YES	10	6.1%
NO	143	87.2%
Unknown	7	4.3%
*N/A	4	2.4%
164		

10 yr Age Groupings		
Age 0-9	8%	13
Age 10-20	24%	39
Age 21-30	19%	31
Age 31-40	15%	24
Age 41-50	15%	25
Age 51-60	7%	11
Age 61-70	4%	7
71 & Over	4%	7
Age Unknown	4%	7
Total		164

**Alcohol/Drug	%	
YES	22	13%
NO	87	53%
#Suspected	5	3%
Unk	50	30%

Other Common Age Groupings		
13 & under	12%	19
Age 14-17	9%	14
Ages 18-35	40%	65
Ages 36-53	24%	39
Age 54 & Over	12%	20
		164

**** Swimming Fatalities (incl boat swim)		%	
Designated Area	2	2%	
Undesignated Area	96	98%	
Total	98		

Cause			
D = Drowning	140	85.4%	
T = Trauma	18	11.0%	
DH = Hypothermia	2	1.2%	
M = Medical	1	0.6%	
***CO = Carbon Monoxide	0	0.0%	
***HR = Heat Related	0	0%	
U = Unknown	3	1.8%	
		164	

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-FY24

Activity Summary (Based on Codes)	Number	% of Total
Swimming Total	724	46.17%
Designated Area	135	8.61%
Undesignated Area	589	37.56%
Boating Total	690	44.01%
Swimming	198	12.63%
Collision	58	3.70%
PWC	40	2.55%
Capsized	144	9.18%
Falls from Boat	173	11.03%
****Other Boating	77	4.91%
Other Falls Total	87	5.55%
Other Recreation	67	4.27%

TOTAL 1568

Total Undesignated Swimming Area	50.19%
Total Falls Boat, Shore, etc.	16.58%

###Outgranted	%	
YES	115	28%
NO	299	72%
414		

SWD Recreation Fatality Data Summary FY98 - FY24

Gender	%	
Female	173	11%
Male	1387	88%
Unknown	8	1%
Total	1568	

Wearing PFD	%	
YES	99	6%
NO	1384	88%
Unknown	34	2%
*N/A	51	3%
1568		

10 yr Age Groupings		
Age 0-9	5%	82
Age 10-20	22%	339
Age 21-30	23%	354
Age 31-40	16%	255
Age 41-50	13%	197
Age 51-60	10%	159
Age 61-70	7%	105
71 & Over	4%	64
Age Unknown	1%	13
Total		1568

**Alcohol/Drug	%	
YES	277	18%
NO	717	46%
# Suspected	57	4%
Unk	517	33%
1568		

Other Common Age Groupings		
13 & under	8%	130
Age 14-17	10%	149
Ages 18-35	40%	625
Ages 36-53	24%	374
Age 54 & Over	18%	277
1568		

**** Swimming Fatalities (incl boat, swim)	%	
Designated Area	132	14%
Undesignated Area	789	86%
Total Swimming	921	

Cause	%	
D = Drowning	1354	86.4%
T = Trauma	158	10.1%
DH = Hypothermia	28	1.8%
M = Medical	7	0.4%
***CO = Carbon Monoxide	4	0.9%
***HR = Heat Related	3	0.2%
U = Unknown	14	0.9%

1568

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