

WWM Brief UMR									Valid: 3/19/2021 7:58
Pool	Gauge	Mile Makers	Normal	Watch	Action	Lock Closure	Current	24-hr Trend	Long Term Projection
Pool 2	St. Paul (STPM5)	815.2 - 847.5	Below 14	14 to 17	17 & Above	116 KCFS	4.3	Steady	Steady
Pool 3	St. Paul (STPM5)	796.9 - 815.1	Below 14	14 to 17	17 & Above	125 KCFS	4.3	Steady	Steady
Pool 4	Alma (ALMW3)	752.8 - 796.8	Below 16	16 to 18	18 & Above	160 KCFS	6.9	Steady	Falling to 6.3 ft. on 2021-03-24 (Normal)
Pool 5	Minnesota City (MSCM5)	738.1 - 752.7	Below 665	665 to 667	667 & Above	188 KCFS	653.5	Steady	Falling to 652.9 ft. on 2021-03-25 (Normal)
Pool 5A	Winona Dam 5A (WIDM5)	728.6 - 738.0	Below 653	653 to 655	655 & Above	183 KCFS	648.7	Steady	Crest at 648.7 ft. on 2021-03-19 (Normal)
Pool 6	Trempealeau (TREW3)	714.3 - 728.5	Below 647	647 to 649	649 & Above	200 KCFS	642.4	Falling	Falling to 641.5 ft. on 2021-03-25 (Normal)
Pool 7	La Crescent (LCRM5)	702.5 - 714.2	Below 641	641 to 643	643 & Above	235 KCFS	634.9	Falling	Falling to 634.1 ft. on 2021-03-25 (Normal)
Pool 8	Genoa (GENW3)	679.2 - 702.4	Below 634	634 to 636	636 & Above	225 KCFS	626.0	Steady	Crest at 626.0 ft. on 2021-03-19 (Normal)
Pool 9	Lynxville (LYNW3)	647.9 - 679.1	Below 625	625 to 628	628 & Above	220 KCFS	618.7	Rising	Crest at 618.9 ft. on 2021-03-19 (Normal)
Pool 10	Guttenberg (GTT14)	615.1 - 647.8	Below 15	15 to 18	18 & Above	238 KCFS	10.4	Steady	Crest at 10.6 ft. on 2021-03-19 (Normal)
Pool 11	Dubuque L&D 11 (DLDI4)	583.0 - 615.0	Below 16	16 to 18	18 & Above	20.8	10.0	Rising	Crest at 10.2 ft. on 2021-03-20 (Normal)
Pool 12	Bellevue (BLVI4)	556.7 - 582.9	Below 17	17 to 19	19 & Above	18.4	10.9	Rising	Crest at 11.3 ft. on 2021-03-20 (Normal)
Pool 13	Fulton (FLT12)	522.4 - 556.6	Below 16	16 to 18	18 & Above	19	10.1	Rising	Crest at 10.8 ft. on 2021-03-20 (Normal)
Pool 14	LeClaire (LECI4)	493.3 - 522.3	Below 11	11 to 13	13 & Above	14	7.6	Rising	Crest at 8.2 ft. on 2021-03-20 (Normal)
Pool 15	Rock Island (RCKI2)	482.9 - 493.2	Below 15	15 to 17	17 & Above	20	11.2	Rising	Crest at 12.1 ft. on 2021-03-21 (Normal)
Pool 16	Illinois City (ILNI2)	457.2 - 482.8	Below 15	15 to 17	17 & Above	17	10.4	Rising	Crest at 11.6 ft. on 2021-03-21 (Normal)
Pool 17	New Boston (NBOI2)	437.1 - 457.1	Below 14	14 to 16	16 & Above	18.1	11.9	Rising	Crest at 13.2 ft. on 2021-03-22 (Normal)
Pool 18	Gladstone (GLDI2)	410.5 - 437.0	Below 10	10 to 12	12 & Above	14.9	8.4	Rising	Crest at 9.1 ft. on 2021-03-21 (Normal)
Pool 19	Keokuk (EOKI4)	364.2 - 410.4	Below 16	16 to 18	18 & Above	21.2	10.8	Rising	Crest at 12.2 ft. on 2021-03-20 (Normal)
Pool 20	Canton L&D 20 (CANM7)	343.2 - 364.1	Below 14	14 to 16	16 & Above	18	12.9	Rising	Crest at 13.3 ft. on 2021-03-19 (Normal)
Pool 21	Quincy L&D 21 (QLDI2)	324.9 - 343.1	Below 17	17 to 21.9	21.9 & Above	21.9	16.1	Steady	Crest at 16.2 ft. on 2021-03-19 (Normal)
Pool 22	Saverton L&D 22 (SYRM7)	301.2 - 324.8	Below 16	16 to 21.4	21.4 & Above	21.4	16.3	Steady	Crest at 16.6 ft. on 2021-03-19 (Watch)
Pool 24	Clarksville L&D 24 (CLKM7)	273.4 - 301.1	Below 25	25 to 29	29 & Above	32.5	27.1	Rising	Crest at 28.1 ft. on 2021-03-20 (Watch)
Pool 25	Winfield L&D 25 (CAGM7)	241.4 - 273.3	Below 26	26 to 33.8	33.8 & Above	33.5	26.7	Rising	Crest at 28.3 ft. on 2021-03-20 (Watch)
Pool 26	Mel Price (Alton) L&D (ALNI2)	200.5 - 241.3	Below 21	21 to 36.5	36.5 & Above	34	22.8	Rising	Crest at 28.0 ft. on 2021-03-22 (Watch)
Pool 27	St. Louis (EADM7)	185.5 - 200.4	Below 38	38 to 40	40 & Above	38.5	28.7	Rising	Crest at 34.6 ft. on 2021-03-21 (Normal)
Zone 28	St. Louis (EADM7)	160.1 - 185.4	Below 20	20 to 25	25 to 30 High Water Action 30 & Above Extreme High Water Action	38 ft Harbor Closure MM 179 - 184 45 ft Zone Closure	28.7	Rising	Crest at 34.6 ft. on 2021-03-21 (Extreme Action) To Extreme Action on 2021-03-19
Zone 29	St. Louis (EADM7)	109.9 - 160.0	Below 20	20 to 25	25 & Above	45 ft Zone Closure	28.7	Rising	Crest at 34.6 ft. on 2021-03-21 (Action)
NO low water from Pools 2 - 27 due to Pooled River									
Pool	Gauge	Mile Makers	Normal	Watch	Action	Current	24-hr Trend	Long Term Projection	
Zone 28/29	St. Louis (EADM7)	109.9 - 185.4	Above 0	0 to -2	-2 & Below	28.7	Rising	Crest at 34.6 ft. on 2021-03-21 (Normal)	

The color coding system for this spreadsheet is Green = Normal, Yellow = Watch, Red = Action, Orange = Extreme High Water Action WAP phases. For Closures, Yellow = Projected crest within that threshold, Black = threshold met. N/A = Not Available.

For the column indicating the closure point of the Locks, the St. Paul District Lock closure points are based on flow rate and all other areas are based on river stage. For the closure points based on river stage, the cells for the Lock closure will be Yellow to indicate the projected crest is within that Lock's closure point and Black when the observed stage is at or above the closure point. The USACE will make the actual determination when the Lock will close (and re-open). Per the WAP, this is normally discussed during a high water conference call.

The 38 ft harbor closure comes from the WAP and is necessary due to high current impacting bridge approaches and decreased bridge vertical clearances; it is for MM 179-184 (MacArthur Bridge to Chain of Rocks Canal) only and requires a safety zone. COTP has discretion on when to actually enforce the safety zone; actual closure point should be discussed with USACE and RIAC during a high water conference call.

The 45 ft zone 28/29 closure comes from the WAP and is necessary to protect levees from overtopping due to vessel wake and requires a safety zone. Close coordination with USACE and RIAC is necessary to ensure the proper closure point.