

Missouri River at Sioux City, Iowa (06486000) - SUX

Date	Time (hhmm)	Gage Height (feet)	Measured Discharge (cfs)	Corps Discharge (cfs)	Discharge Difference (cfs) (-)	Percent Difference (%) (-)	Water Temp (F)	Air Temp (F)
1/3/2020	1115	11.59	37,500	35,100	-2,400	6.8		
1/6/2020	1100	11.39	35,800	34,500	-1,300	3.8		
1/27/2020	1250	11.76	37,300	37,300	0	0.0	32.0	
2/3/2020	1145	11.90	37,900	37,900	0	0.0		
2/11/2020	1100	12.66	41,200	41,100	-100	0.2		
2/18/2020	1115	12.79	40,700	41,700	1,000	2.4		
2/24/2020	1115	12.98	41,500	42,500	1,000	2.4		
3/9/2020	1100	15.74	52,000	53,300	1,300	2.4		
3/16/2020	1040	16.08	55,100	53,600	-1,500	2.8		
3/26/2020	1110	16.58	54,400	57,600	3,200	5.6		
4/27/2020	1030	15.34	47,000	49,400	2,400	4.9		
5/4/2020	1025	15.08	46,800	45,800	-1,000	2.2		
5/11/2020	1310	14.42	45,100	43,800	-1,300	3.0		
5/17/2020	1047	14.29	43,100	43,300	200	0.5		
5/27/2020	1030	15.14	46,900	47,200	300	0.6		
6/1/2020	1032	14.85	45,600	45,700	100	0.2		
6/8/2020	1030	13.84	41,500	41,200	-300	0.7		
6/15/2020	1050	14.45	44,000	44,300	300	0.7		
6/22/2020	1010	14.91	46,800	46,300	-500	1.1		
6/29/2020	1000	14.37	43,600	42,500	-1,100	2.6		
7/6/2020	1035	14.28	43,600	43,500	-100	0.2		
7/20/2020	1110	12.28	36,700	35,000	-1,700	4.9		
7/27/2020	1025	11.64	35,100	34,400	-700	2.0	79.2	
8/3/2020	1000	11.36	34,000	34,200	200	0.6	79.2	
8/10/2020	1020	11.42	34,800	34,400	-400	1.2	74.4	59.9
8/17/2020	1125	10.97	33,200	33,100	-100	0.3		
8/21/2020	950	10.86	33,200	32,700	-500	1.5		
8/31/2020	1130	10.84	33,000	32,700	-300	0.9		
9/14/2020	1020	11.46	34,200	33,800	-400	1.2		
9/21/2020	1015	11.50	35,000	34,300	-700	2.0		
9/28/2020	1622	11.33	33,200	34,500	1,300	3.8	64.4	
10/5/2020	1010	11.50	34,500	34,300	-200	0.6		
10/13/2020	1043	11.50	34,300	35,000	700	2.0		

Missouri River at Decatur, Nebraska (06601200) - DENE

Date	Time (hhmm)	Gage Height (feet)	Measured Discharge (cfs)	Corps Discharge (cfs)	Discharge Difference (cfs) (-)	Percent Difference (%) (-)	Water Temp (F)	Air Temp (F)
1/6/2020	1345	23.00	38,700	37,100	-1,600	4.3		
1/28/2020	1445	22.85	38,700	36,900	-1,800	4.9		
2/3/2020	1445	23.18	38,100	39,400	1,300	3.3		
2/11/2020	1326	23.53	42,200	39,400	-2,800	7.1		
2/18/2020	1400	23.66	42,500	42,700	200	0.5		
2/24/2020	1354	23.63	42,300	42,100	-200	0.5		
3/9/2020	1325	25.78	52,800	53,300	500	0.9		
3/16/2020	1250	26.11	55,700	55,200	-500	0.9		
3/26/2020	1320	26.20	53,700	56,200	2,500	4.4		
4/27/2020	1245	25.37	50,000	51,600	1,600	3.1		
5/4/2020	1330	25.18	48,100	49,100	1,000	2.0		
5/11/2020	1115	24.67	46,000	46,100	100	0.2		
5/17/2020	1257	24.55	46,000	46,600	600	1.3		
5/27/2020	1200	25.16	47,800	48,000	200	0.4		
6/1/2020	1328	25.06	47,500	47,600	100	0.2		
6/8/2020	1235	24.19	43,300	44,300	1,000	2.3		
6/15/2020	1323	24.74	46,300	45,400	-900	2.0		
6/22/2020	1230	25.01	47,100	46,400	-700	1.5		
6/29/2020	1223	24.42	44,500	44,700	200	0.4		
7/6/2020	1235	24.56	44,800	45,200	400	0.9		
7/20/2020	1330	22.88	37,600	38,600	1,000	2.6		
7/27/2020	1300	22.33	35,700	35,600	-100	0.3	81.7	
8/3/2020	1210	22.11	34,800	34,900	100	0.3		
8/10/2020	1230	22.04	34,800	34,600	-200	0.6	77.2	79.9
8/17/2020	1235	21.70	33,500	33,500	0	0.0		
8/24/2020	1200	21.53	32,900	33,000	100	0.3		
8/31/2020	1345	21.41	34,000	32,500	-1,500	4.6		
9/14/2020	1240	22.06	34,400	34,300	-100	0.3		
9/21/2020	1300	21.97	34,900	34,100	-800	2.3		
9/28/2020	1440	21.86	34,400	34,500	100	0.3	64.4	
10/5/2020	1240	21.79	34,000	34,300	300	0.9	59	68.2
10/13/2020	1240	21.81	34,000	34,300	300	0.9		

Missouri River at Omaha, Nebraska (06610000) - OMA

Date	Time (hhmm)	Height (feet)	Measured Discharge (cfs)	Corps Discharge (cfs)	Discharge Difference (cfs) (-)	Percent Difference (%) (-)	Water Temp (F)	Air Temp (F)
1/7/2020	1150	16.12	43,300	42,800	-500	1.2		
1/24/2020	1145	16.13	42,900	42,800	-100	0.2	32.9	32.0
1/27/2020	1005	15.44	39,800	40,900	1,100	2.7	35.2	
2/4/2020	1230	16.69	45,700	44,500	-1,200	2.7	33.8	33.8
2/12/2020	1310	16.51	45,800	45,100	-700	1.6		
2/19/2020	930	17.09	48,800	47,800	-1,000	2.1		
3/10/2020	1245	19.10	58,000	57,200	-800	1.4		
3/17/2020	1215	19.56	62,800	60,400	-2,400	4.0		
3/28/2020	1215	19.28	55,000	59,000	4,000	6.8		
4/28/2020	1215	19.28	55,000	59,900	4,900	8.2		
5/5/2020	1215	19.02	53,400	54,000	600	1.1		
5/12/2020	1440	18.24	50,800	50,400	-400	0.8		
5/19/2020	1350	18.29	49,600	50,600	1,000	2.0		
6/2/2020	1040	20.14	56,800	56,000	-800	1.4		
6/9/2020	1149	18.79	50,500	51,300	800	1.6		
6/12/2020	1159	19.37	54,600	52,700	-1,900	3.6		
6/20/2020	1225	19.35	53,500	53,600	100	0.2		
6/23/2020	1130	19.50	54,500	54,200	-300	0.6		
6/30/2020	1130	18.80	51,000	51,500	500	1.0		
7/7/2020	1130	18.70	49,400	50,600	1,200	2.4		
7/15/2020	1200	17.30	42,500	44,900	2,400	5.3		
7/21/2020	1150	16.69	41,700	42,200	500	1.2		
7/28/2020	1200	15.99	37,500	39,800	2,300	5.8	81.9	
8/4/2020	1200	15.63	37,300	37,000	-300	0.8		
8/18/2020	1235	15.10	35,100	35,500	400	1.1	79.0	
8/28/2020	1155	14.86	34,100	35,500	1,400	3.9	79.0	
9/1/2020	1200	14.66	34,400	33,500	-900	2.7	72.5	
9/9/2020	1220	15.49	36,100	35,900	-200	0.6	66.6	
9/14/2020	1140	15.37	36,600	35,800	-800	2.2	66.7	66.4
9/29/2020	1241	15.14	33,500	35,100	1,600	4.6	65.3	
10/6/2020	1140	15.09	36,400	35,000	-1,400	4.0	59.7	64.0
10/14/2020	1256	15.20	35,000	35,300	300	0.8	62.1	73.0

Missouri River at Nebraska City, Nebraska (06807000) - NCNE

Date	Time (hhmm)	Gage Height (feet)	Measured Discharge 1009	Corps Discharge (cfs)	Discharge Difference (cfs) (-)	Percent Difference (%) (-)	Water Temp (F)	Air Temp (F)
1/8/2020	1300	13.52	57,000	55,900	-1,100	2.0	33.1	23.0
1/30/2020	1338	12.90	54,100	53,800	-300	0.6		
2/5/2020	1100	14.33	64,400	61,900	-2,500	4.0		
2/12/2020	1030	13.71	59,200	60,700	1,500	2.5		
2/20/2020	1300	13.81	60,500	61,300	800	1.3		
3/10/2020	1020	15.63	72,600	72,600	0	0.0		
3/18/2020	1245	16.20	77,900	76,200	-1,700	2.2		
4/1/2020	1239	17.95	89,200	85,100	-4,100	4.8	48.4	
4/29/2020	1003	14.79	63,100	68,800	5,700	8.3		
5/6/2020	1020	14.40	60,600	59,000	-1,600	2.7		
5/12/2020	1030	14.13	61,800	59,200	-2,600	4.4		
5/19/2020	1020	13.84	59,400	60,100	700	1.2		
6/2/2020	1300	16.08	73,500	78,700	5,200	6.6		
6/9/2020	940	14.33	60,300	62,500	2,200	3.5		
6/20/2020	1013	14.71	64,300	64,800	500	0.8		
6/23/2020	920	14.39	62,100	62,900	800	1.3		
7/1/2020	1207	13.44	56,100	57,200	1,100	1.9		
7/15/2020	945	12.75	50,200	53,000	2,800	5.3		
7/21/2020	945	12.07	46,600	48,600	2,000	4.1		
7/27/2020	950	11.96	45,800	48,100	2,300	4.8	81.7	
8/4/2020	950	11.96	44,300	44,100	-200	0.5		
8/18/2020	1013	10.66	39,800	41,000	1,200	2.9	79.2	
9/1/2020	946	9.86	36,500	36,300	-200	0.6		
9/9/2020	953	10.50	39,900	39,000	-900	2.3		
9/15/2020	920	10.65	40,700	40,500	-200	0.5	67.7	63.8
9/29/2020	1007	10.36	39,400	40,200	800	2.0	64.8	
10/6/2020	920	10.09	39,700	38,400	-1,300	3.4	57.7	58.5
10/14/2020	1027	10.37	40,600	39,500	-1,100	2.8	62.2	70.9

Missouri River at Brownville, Nebraska - BVNE

Date	Time (hhmm)	Gage Height (feet)	Measured Discharge (cfs)	Corps Discharge (cfs)	Discharge Difference (cfs) (-)	Percent Difference (%) (-)	Water Temp (F)	Air Temp (F)
1/8/2020	1050	28.27	57,800	56,400	-1,400	2.5		
1/30/2020	1123	27.67	57,100	54,200	-2,900	5.4		
2/6/2020	1300	29.07	64,000	61,900	-2,100	3.4	33.8	36.5
2/20/2020	1100	29.00	65,200	62,500	-2,700	4.3		36.5
3/5/2020	1246	29.82	68,300	66,900	-1,400	2.1		36.5
3/18/2020	1030	30.97	77,100	76,300	-800	1.0		
4/30/2020	1233	29.53	64,500	68,300	3,800	5.6		
5/13/2020	1035	28.72	62,300	60,200	-2,100	3.5		
6/3/2020	1021	31.67	76,100	77,500	1,400	1.8		
6/17/2020	1054	29.94	67,000	64,900	-2,100	3.2		
7/1/2020	1007	29.19	60,900	63,900	3,000	4.7		
7/22/2020	950	27.14	51,000	50,200	-800	1.6		
8/5/2020	930	26.05	45,800	45,000	-800	1.8	77.4	68.0
8/19/2020	1047	25.01	39,300	40,300	1,000	2.5	79.0	
9/2/2020	1023	24.19	37,000	37,100	100	0.3	79.0	
9/16/2020	937	25.02	41,200	40,300	-900	2.2	79.0	
9/30/2020	1029	24.60	39,200	39,000	-200	0.5	79.0	

Missouri River at Rulo, Nebraska (06813500) - RUNE

Date	Time (hhmm)	Gage Height (feet)	Measured Discharge (cfs)	Corps Discharge (cfs)	Discharge Difference (cfs) (-)	Percent Difference (%) (-)	Water Temp (F)	Air Temp (F)
1/2/2020	1157	13.31	66,900	65,500	-1,400	2.1		
1/9/2020	1130	11.90	57,400	57,800	400	0.7		
1/29/2020	1245	11.54	57,800	55,900	-1,900	3.4		
2/6/2020	1045	12.95	65,400	63,400	-2,000	3.2	33.8	31.3
2/21/2020	1130	12.36	63,100	63,000	-100	0.2		
2/26/2020	1053	12.98	65,800	65,600	-200	0.3		
3/5/2020	1048	13.38	68,300	68,000	-300	0.4		
3/12/2020	1109	14.77	76,400	77,300	900	1.2		
3/19/2020	1125	15.16	80,100	79,900	-200	0.3	43.3	
3/25/2020	1057	14.42	74,400	74,900	500	0.7	43.3	
4/30/2020	1034	13.24	67,300	67,200	-100	0.1		
5/7/2020	1122	12.69	65,500	63,900	-1,600	2.5		
5/21/2020	1035	12.36	63,900	62,000	-1,900	3.1		
5/29/2020	1016	17.78	94,900	101,300	6,400	6.3		
6/5/2020	907	14.70	74,500	74,400	-100	0.1		
6/11/2020	1042	14.14	73,400	70,600	-2,800	4.0		
6/18/2020	1057	13.14	67,000	66,900	-100	0.1		
6/25/2020	1030	12.84	65,900	65,100	-800	1.2		
7/2/2020	1030	13.30	67,200	67,900	700	1.0		
7/9/2020	1123	11.49	57,900	57,700	-200	0.3		
7/17/2020	1020	10.58	52,700	53,000	300	0.6		
7/23/2020	1030	10.42	51,600	52,200	600	1.1	82.8	
7/30/2020	1030	12.77	49,500	64,700	15,200	23.5	82.8	
8/6/2020	950	9.08	44,600	45,400	800	1.8	77.5	
8/13/2020	1000	8.80	43,600	44,000	400	0.9		
8/21/2020	1032	8.10	39,500	40,500	1,000	2.5		
8/27/2020	1032	7.81	39,000	38,300	-700	1.8	80.6	
9/4/2020	1108	7.42	37,000	37,600	600	1.6	80.6	
9/11/2020	1049	8.61	42,100	43,500	1,400	3.2		
9/18/2020	958	8.22	42,100	41,600	-500	1.2		
9/24/2020	1052	8.11	42,100	41,000	-1,100	2.7		
10/1/2020	1330	7.90	40,100	40,000	-100	0.3	65.1	63.1
10/9/2020	1330	7.93	40,000	40,100	100	0.2		

Missouri River at St. Joseph, Missouri (06818000) - STJ

Date	Time	Gage Height (feet)	Measured Discharge (cfs)	Corps Discharge (cfs)	Discharge Difference (cfs) (-)	Percent Difference (%) (-)	Water Temp (F)	Air Temp (F)
1/8/2020	1108	10.72	61,100	61,200	100	0.2		
2/6/2020	1027	11.69	70,500	66,900	-3,600	5.4		
2/26/2020	1100	11.58	68,000	69,800	1,800	2.6		
3/11/2020	1110	13.20	79,600	80,300	700	0.9		
3/17/2020	1100	13.78	82,000	84,300	2,300	2.7		
3/26/2020	1034	13.40	77,000	79,400	2,400	3.0		
4/27/2020	943	13.22	75,700	76,700	1,000	1.3		
5/5/2020	954	12.23	68,400	69,500	1,100	1.6		
5/12/2020	936	12.00	66,800	67,200	400	0.6		
5/19/2020	1000	11.78	65,000	65,700	700	1.1		
5/29/2020	1101	17.34	101,000	105,100	4,100	3.9		
6/2/2020	1047	15.49	88,400	87,000	-1,400	1.6		
6/16/2020	1048	12.82	71,400	69,200	-2,200	3.2		
6/26/2020	1014	12.32	67,700	66,200	-1,500	2.3		
6/30/2020	951	12.00	67,300	64,300	-3,000	4.7		
7/8/2020	951	12.00	67,300	64,300	-3,000	4.7		
7/17/2020	1030	10.74	60,300	57,200	-3,100	5.4		
7/21/2020	1037	13.11	71,900	71,000	-900	1.3		
8/14/2020	1013	7.99	45,100	43,300	-1,800	4.2		
8/17/2020	1026	7.75	43,400	43,800	400	0.9		
8/26/2020	1129	7.04	40,600	40,600	0	0.0		
9/2/2020	1024	6.80	39,500	43,800	4,300	9.8		
9/10/2020	1050	7.37	42,400	42,100	-300	0.7	68.0	
9/24/2020	1030	7.16	41,200	41,100	-100	0.2		
10/6/2020	1116	7.31	41,700	41,800	100	0.2	60.1	

Missouri River at Kansas City, Missouri (06893000) - MKC

Date	Time (hhmm)	Gage Height (feet)	Measured Discharge (cfs)	Corps Discharge (cfs)	Discharge Difference (cfs) (-)	Percent Difference (%) (-)	Water Temp (F)	Air Temp (F)
2/6/2020	1329	15.89	88,300	88,500	200	0.2		
3/12/2020	1407	16.90	95,500	96,200	700	0.7		
3/17/2020	1330	16.51	93,200	93,200	0	0.0		
3/23/2020	1144	18.19	105,100	106,600	1,500	1.4	43.9	
4/27/2020	1244	17.75	98,190	102,900	4,710	4.6		
5/7/2020	1244	17.20	92,500	93,800	1,300	1.4		
5/12/2020	1130	16.44	85,000	86,800	1,800	2.1		
5/19/2020	1222	15.97	83,400	83,400	0	0.0		
5/29/2020	1420	25.00	156,000	163,100	7,100	4.4		
6/2/2020	1352	19.22	103,400	103,000	-400	0.4		
6/10/2020	1412	16.22	79,900	80,300	400	0.5		
6/19/2020	1204	16.95	89,400	85,500	-3,900	4.6		
6/24/2020	1224	16.67	78,400	83,500	5,100	6.1		
6/30/2020	1245	17.19	86,600	87,300	700	0.8		
7/8/2020	1328	15.55	79,900	75,100	-4,800	6.4		
7/16/2020	1144	17.55	90,400	89,300	-1,100	1.2		
7/22/2020	1405	18.33	94,000	95,200	1,200	1.3		
8/5/2020	1320	15.21	74,000	72,700	-1,300	1.8	81.7	
8/10/2020	1311	15.98	81,300	78,000	-3,300	4.2	81.1	
8/27/2020	1004	10.07	43,500	43,000	-500	1.2		
9/2/2020	1325	9.92	43,600	42,800	-800	1.9	80.4	
9/8/2020	1020	9.44	42,800	41,400	-1,400	3.4		
9/14/2020	1000	10.54	46,400	46,800	400	0.9	71.6	
9/24/2020	1345	9.88	44,000	43,400	-600	1.4	71.6	
10/2/2020	0937	9.70	43,400	42,600	-800	1.9	64.4	
10/5/2020	1159	10.12	46,500	44,600	-1,900	4.3	61.0	

Missouri River at Waverly, Missouri (06895500) - WVMO

Date	Time (hhmm)	Gage Height (feet)	Measured Discharge (cfs)	Corps Discharge (cfs)	Discharge Difference (cfs) (-)	Percent Difference (%) (-)	Water Temp (F)	Air Temp (F)
1/2/2020	1350	16.99	89,000	87,300	-1,700	1.9		
2/10/2020	1317	15.66	79,500	77,000	-2,500	3.2		
3/18/2020	1050	17.68	94,300	95,400	1,100	1.2		
4/28/2020	1130	17.85	95,000	96,000	1,000	1.0		
5/13/2020	1058	16.76	85,900	84,700	-1,200	1.4		
5/28/2020	1335	25.22	175,000	182,100	7,100	3.9		
6/3/2020	1406	19.11	100,300	109,700	9,400	8.6		
6/11/2020	1153	16.82	80,700	81,500	800	1.0		
6/18/2020	1331	17.07	84,600	83,700	-900	1.1		
6/25/2020	1104	16.99	88,000	83,000	-5,000	6.0		
7/1/2020	1302	17.49	88,500	87,600	-900	1.0		
7/15/2020	1045	16.19	75,900	76,100	200	0.3		
7/22/2020	1050	19.44	101,000	106,000	5,000	4.7	79.9	
7/29/2020	1014	16.10	79,000	78,800	-200	0.3	81.9	
8/6/2020	1414	16.16	78,100	74,500	-3,600	4.8	81.9	
8/12/2020	1239	16.52	80,300	77,500	-2,800	3.6		
8/27/2020	1401	11.86	46,400	44,900	-1,500	3.3	84.9	
9/11/2020	1050	12.38	48,800	47,900	-900	1.9		
9/30/2020	1404	11.60	45,700	43,500	-2,200	5.1	70.0	
10/7/2020	1332	11.87	47,500	45,000	-2,500	5.6		
10/13/2020	1353	11.45	44,500	42,600	-1,900	4.5		

Missouri River at Boonville, Missouri (06909000) - BNMO

Date	Time (hhmm)	Gage Height (feet)	Measured Discharge (cfs)	Corps Discharge (cfs)	Discharge Difference (cfs) (-)	Percent Difference (%) (-)	Water Temp (F)	Air Temp (F)
1/2/2020	1130	15.60	110,500	108,000	-2,500	2.3		
2/11/2020	1415	13.19	89,200	87,100	-2,100	2.4		
3/4/2020	1255	12.37	80,100	80,100	0	0.0		
3/25/2020	1040	17.91	132,700	136,700	4,000	2.9	45.9	
4/29/2020	1406	19.11	117,000	115,800	-1,200	1.0		
5/13/2020	945	13.45	85,300	80,200	-5,100	6.4		
6/12/2020	1042	15.90	111,000	102,500	-8,500	8.3		
6/25/2020	1329	14.59	98,000	90,000	-8,000	8.9		
7/1/2020	1026	14.46	96,500	88,800	-7,700	8.7		
7/15/2020	1045	11.54	73,200	71,700	-1,500	2.1		
7/23/2020	1255	15.93	114,493	111,400	-3,093	2.8	73.4	
8/6/2020	1104	13.97	90,300	89,900	-400	0.4		
8/28/2020	1051	8.08	47,900	47,800	-100	0.2		
9/15/2020	1345	9.02	53,200	54,600	1,400	2.6		
9/30/2020	1030	8.00	48,900	47,400	-1,500	3.2		

Missouri River at Hermann, Missouri (06934500) -HEMO

Date	Time (hhmm)	Height (feet)	Measured Discharge (cfs)	Discharge (cfs)	Difference (cfs) (-)	Difference (%) (-)	Temp (F)	Temp (F)
1/15/2020	925	19.89	181,000	186,400	5,400	2.9		
2/18/2020	1153	13.44	110,000	110,000	0	0.0		
3/10/2020	1104	16.29	137,000	140,000	3,000	2.1		
3/16/2020	1209	19.48	185,500	180,600	-4,900	2.7		
5/7/2020	1207	17.78	157,000	154,800	-2,200	1.4		
5/28/2020	917	22.15	216,000	200,100	-15,900	7.9		
6/10/2020	1135	23.87	223,000	241,600	18,600	7.7		
6/16/2020	1100	16.40	140,400	138,500	-1,900	1.4		
6/22/2020	1043	15.71	135,000	125,600	-9,400	7.5		
6/29/2020	1034	13.15	105,000	100,500	-4,500	4.5		
7/28/2020	833	10.26	76,400	76,600	200	0.3		
8/6/2020	1148	15.22	128,000	120,174	-7,826	6.5		
8/17/2020	1213	11.13	83,700	83,300	-400	0.5		
9/8/2020	1052	6.27	49,400	50,500	1,100	2.2		
9/14/2020	1159	8.94	69,900	67,200	-2,700	4.0		
9/21/2020	1108	6.41	52,000	51,300	-700	1.4		
9/28/2020	1112	6.02	49,100	49,100	0	0.0		
10/7/2020	1108	5.93	48,500	48,600	100	0.2	64.0	