

# Missouri River Region - Water Management Information

## U. S. Army Corps of Engineers - Civil Works

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### Discharge Measurements For January 2000

COE Discharge	Difference	Station	Date	Time	Gage Height	Measured Discharge	Water Temp (F)	Remarks	% Diff
28,100	-300	OMA	1-3-00	1120	14.39	28,400	37	Air Temp 32	1
36,700	+2,600	NCNE	1-3-00	1005	9.04	34,100	36	Air Temp 34	7
39,500	+2,500	RUNE	1-4-00	1325	8.57	37,000	36	Air Temp 29	6
39,100	+2,600	STJ	1-6-00	1215	8.20	36,500	41	Air Temp 41	7
23,100	0	SUX	1-10-00	1130	12.10	23,100	36	Air Temp 34	0
24,600	+100	DENE	1-10-00	1100	20.10	24,500	33	Air Temp 33	<1
40,500	-2,100	BNMO	1-10-00	1030	7.63	42,600	40	Air Temp 52	5
38,200	+4,500	RUNE	1-11-00	1115	8.25	33,700	36	Air Temp 36	11
39,300	-1,600	WVMO	1-11-00	1100	10.89	40,900	38	Air Temp 51	4
33,700	+300	NCNE	1-12-00	1045	8.76	33,400	39	Air Temp 43	<1
26,600	+100	OMA	1-13-00	1430	13.92	26,500	34	Air Temp 34	<1
26,700	+200	OMA	1-18-00	0940	13.94	26,500	36	Air Temp 37	<1
34,500	+800	RUNE	1-19-00	1020	3.79	33,700	39	Air Temp 43	2

## Discharge Measurements For February 2000

COE Discharge	Difference	Station	Date	Time	Gage Height	Measured Discharge	Water Temp (F)	Remarks	% Diff
16,600	-900	SUX	2-7-00	1115	10.22	17,500	35	Air Temp 35	5
21,600	+900	OMA	2-7-00	0900	12.28	20,700	34	Air Temp 34	4
28,200	+1,100	NCNE	2-7-00	1200	7.36	27,100	36	Air Temp 48	4
19,100	+100	DENE	2-8-00	1000	18.18	19,000	32	Air Temp 36	< 1
20,800	+300	OMA	2-15-00	1145	12.34	20,500	35	Air Temp 46	1
27,500	-300	NCNE	2-15-00	1015	7.45	27,800	34	Air Temp 50	1
30,900	-300	STJ	2-15-00		6.74	31,200	38	Air Temp 49	< 1
19,200	+600	DENE	2-16-00	1145	18.22	18,600	36	Air Temp 43	3
28,400	+100	RUNE	2-17-00	1145	6.84	28,300	37	Air Temp 37	< 1
18,500	+700	SUX	2-22-00	1030	10.50	17,800	41	Air Temp 62	4
21,300	-1,000	OMA	2-22-00	1000	12.52	22,300	41	Air Temp 62	5
28,700	+100	NCNE	2-22-00	1000	7.76	28,600	41	Air Temp 61	< 1
29,700	-1,400	RUNE	2-22-00	1100	7.16	31,100	41	Air Temp 57	5
34,700	+2,600	MKC	2-22-00	0915	9.32	32,100	45	Air Temp 66	8
19,500	-200	SUX	2-28-00	1335	10.82	19,700	37	Air Temp 61	1
23,300	0	OMA	2-28-00	1000	13.18	23,300	46	Air Temp 66	0
20,100	+600	DENE	2-29-00	1015	18.53	19,500	41	Air Temp 55	3
32,700	-600	RUNE	2-29-00	1105	7.88	33,300	46	Air Temp 55	2

## Discharge Measurements For March 2000

COE Discharge	Difference	Station	Date	Time	Gage Height	Measured Discharge	Water Temp (F)	Remarks	% Diff
20,000	+1,600	SUX	3-6-00	1140	10.95	18,400	53	Air Temp 58.	8
29,500	+1,400	NCNE	3-6-00	1010	7.96	28,100	50	Air Temp 70	5
30,300	-800	RUNE	3-6-00	1045	7.29	31,100	48	Air Temp 64	3
21,800	+500	OMA	3-7-00	1000	12.89	21,300	45	Air Temp 61	2
38,800	+1,600	WVMO	3-9-00	1000	10.34	37,200	48	Air Temp 39	4
39,900	+5,600	MKC	3-10-00	1000	10.45	34,300	52	Air Temp 50	14
18,300	-1,400	SUX	3-13-00	1025	10.74	19,700	41	Air Temp 36	10
18,700	+1,100	DENE	3-13-00	1140	18.39	17,600	46	Air Temp 45	6
29,800	+2,100	NCNE	3-13-00	1125	8.05	27,700	46	Air Temp 50	7
30,700	-700	RUNE	3-13-00	1100	7.39	31,400	46	Air Temp 41	2
18,300	-800	SUX	3-14-00	1415	10.72	19,100	55	Air Temp 55	4
21,200	-1000	OMA	3-14-00	1100	12.66	22,200	48	Air Temp 59	5
18,700	+200	DENE	3-14-00	1450	18.39	18,500	50	Air Temp 58	1
39,400	+3,900	MKC	3-14-00	1100	10.35	35,500	49	Air Temp 51	10
31,300	+300	STJ	3-16-00	0830	7.06	31,000	46	Air Temp 35	< 1
27,000	+2,500	SUX	3-20-00	1100	12.90	24,500	41	Air Temp 41	9
28,300	1,400	NCNE	3-20-00	1030	7.65	26,900	44	Air Temp 46	5
29,300	+1,300	RUNE	3-20-00	1050	7.06	28,000	45	Air Temp 41	4
26,800	+900	DENE	3-21-00	0920	20.84	25,900	41	Air Temp 41	4
26,100	+500	OMA	3-21-00	0900	14.28	26,600	45	Air Temp 48	2
35,400	+900	MKC	3-22-00	0830	9.89	34,500	48	Air Temp 51	3
35,500	-900	STJ	3-23-00	0830	8.12	36,400	47	Air Temp 56	3
32,700	+1,800	SUX	3-24-00	1015	14.71	30,900	45	Air Temp 53	6
31,200	+800	DENE	3-24-00	0935	22.08	30,400	46	Air Temp 55	3
31,200	+1000	SUX	3-27-00	1200	14.67	30,200	51	Air Temp 56	3
33,000	-600	OMA	3-27-00	1000	16.28	33,600	49	Air Temp 64	2
39,100	-2,800	RUNE	3-27-00	1010	9.44	42,000	51	Air Temp 62	7
48,800	-200	WVMO	3-28-00	1100	12.03	49,000	50	Air Temp 45	< 1
31,200	+300	DENE	3-29-00	1000	22.08	30,900	63	Air Temp 48	1
50,900	-1,800	BNMO	3-29-00	1115	9.22	52,700	54	Air Temp 61	3.5
38,300	-3,100	NCNE	3-30-00	0900	10.18	41,400	51	Air Temp 58	8
31,100	+600	SUX	3-31-00		14.65	30,500	53	Air Temp 51	2

32,700	+1,200	OMA	4-4-00	1030	16.2	31,500	52	Air Temp 52	4
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## Discharge Measurements For April 2000

COE Discharge	Difference	Station	Date	Time	Gage Height	Measured Discharge	Water Temp (F)	Remarks	% Diff
30,600	+1,400	SUX	4-3-00	1115	14.60	29,200	46	Air Temp 46.	8
37,300	+1,100	NCNE	4-3-00	1045	9.92	36,200	52	Air Temp 48	3
37,800	-600	RUNE	4-5-00	1115	9.39	38,400	52	Air Temp 66	2
49,100	+3,100	BNMO	4-5-00	1100	8.93	46,000	54	Air Temp 54	6
47,100	+3,100	MKC	4-5-00	0915	12.34	44,000	55	Air Temp 61	7
47,000	+2,500	WVMO	4-5-00	1200	11.77	44,500	55	Air Temp 61	5
31,500	+700	SUX	4-7-00	1010	14.75	30,800	46	Air Temp 37	2
31,300	-100	SUX	4-10-00	1030	14.70	31,400	47	Air Temp 46	0
33,700	-300	OMA	4-10-00	0930	16.48	34,000	48	Air Temp 45	< 1
38,300	+1,100	NCNE	4-10-00	1015	10.18	37,200	51	Air Temp 56	3
31,500	-500	DENE	4-11-00	0930	22.17	32,000	48	Air Temp 39	2
39,200	-300	RUNE	4-12-00	1005	9.50	39,500	50	Air Temp 55	< 1
52,100	-1,400	HEMO	4-12-00	1200	7.05	53,500			3
31,900	+1,100	SUX	4-14-00	1030	14.84	30,800	55	Air Temp 58	3
32,900	+1,700	SUX	4-17-00	1030	15.09	31,200	47	Air Temp 63	5
39,400	-400	NCNE	4-17-00	0940	10.47	39,800	50	Air Temp 43	1
35,900	+300	OMA	4-18-00	1005	16.97	35,600	46	Air Temp 61	< 1
45,300	-1,200	HEMO	4-19-00	1130	6.13	46,500			3
32,600	+2000	SUX	4-21-00	1110	15.15	30,600	48	Air Temp 46	6
39,200	-1,300	RUNE	4-21-00	1055	9.48	40,500	52	Air Temp 52	3
31,400	+500	SUX	4-24-00	1045	14.84	30,900	56	Air Temp 56	2
32,500	+100	DENE	4-25-00	1130	22.41	32,400	56	Air Temp 57	< 1
45,600	+1,500	WVMO	4-25-00	1100	11.55	44,100	59	Air Temp 81	3
38,900	-1,000	RUNE	4-26-00	1140	9.41	39,900	55	Air Temp 62	3
45,300	+4,200	MKC	4-26-00	1015	11.98	41,100	62	Air Temp 73	9
33,800	-900	OMA	4-27-00	0910	16.74	34,700	57	Air Temp 58	3
39,700	-100	STJ	4-27-00	1100	9.31	39,800	59	Air Temp 62	< 1
46,400	-3,200	HEMO	4-27-00	1000	6.27	49,600			7
31,600	-500	SUX	4-28-00	1015	14.89	32,100	54	Air Temp 55	2

## Discharge Measurements For May 2000

COE Discharge	Difference	Station	Date	Time	Gage Height	Measured Discharge	Water Temp (F)	Remarks	% Diff
31,800	-1,100	SUX	5-1-00	1220	14.96	32,900	56	Air Temp 66	4
39,100	+1,700	NCNE	5-1-00	0950	10.27	37,400	61	Air Temp 59	4
43,900	+1,800	MKC	5-1-00	1045	12.02	42,100	64	Air Temp 75	4
33,500	-500	OMA	5-2-00	1000	16.68	33,000	60	Air Temp 57	1
32,200	-500	DENE	5-3-00	1145	22.42	32,700	62	Air Temp 75	2
31,500	+100	SUX	5-4-00	1050	14.87	31,400	61	Air Temp 67	< 1
42,500	+700	WVMO	5-4-00	1100	11.24	41,800	66	Air Temp 81	2
31,300	+300	SUX	5-8-00	1200	14.83	31,000	65	Air Temp 59	< 1
33,900	-1,600	OMA	5-8-00	0920	16.61	35,500	68	Air Temp 61	5
38,700	+800	NCNE	5-8-00	1100	10.17	37,900	70	Air Temp 70	2
32,400	+2000	DENE	5-9-00	0900	22.38	30,400	59	Air Temp 51	6
44,100	+1,300	MKC	5-9-00	0930	12.04	42,800	66	Air Temp 57	3
39,100	+1,500	RUNE	5-10-00	1115	9.45	37,600	68	Air Temp 72	4
45,900	+500	BNMO	5-10-00	1000	8.40	46,400	68	Air Temp 77	1
39,600	-200	STJ	5-11-00	0845	9.28	39,800	70	Air Temp 78	< 1
6,400	-300	LUNE	5-11-00	0952	4.17	6,700			5
36,800	+400	SUX	5-12-00	1000	16.16	36,400	64	Air Temp 61	1
38,600	-400	SUX	5-15-00	1320	16.61	39,000	60	Air Temp 70	1
42,600	-700	NCNE	5-15-00	1030	11.13	43,300	64	Air Temp 72	2
42,400	-300	RUNE	5-15-00	1115	10.27	42,700	65	Air Temp 70	< 1
40,800	+1,200	OMA	5-16-00	1000	18.28	39,600	59	Air Temp 62	3
42,800	+3,100	MKC	5-16-00	1030	12.42	45,900		Air Temp 70	7
38,200	+200	DENE	5-17-00	0920	23.66	38,000	62	Air Temp 80	< 1
43,300	-1,200	STJ	5-17-00	1030	10.19	44,500	66	Air Temp 73	3
47,700	+300	WVMO	5-18-00	1045	12.02	47,400	70	Air Temp 80	< 1
45,600	+100	HEMO	5-18-00	1100	6.17	45,500		Air Temp 77	< 1
42,200	+1,000	SUX	5-22-00	1045	17.42	41,200	68	Air Temp 70	2
41,400	+100	OMA	5-22-00	0935	18.41	41,300	66	Air Temp 86	< 1
44,600	-900	NCNE	5-22-00	0900	11.59	45,500	65	Air Temp 77	2
50,700	+500	WVMO	5-23-00	1030	12.48	50,200	71	Air Temp 80	1
41,500	+2,800	DENE	5-24-00	1200	24.34	38,700	73	Air Temp 76	7

45,200	-2,900	RUNE	5-24-00	1200	10.95	48,100	70	Air Temp 77	6
51,400	-100	BNMO	5-24-00	0945	09.30	51,500	73	Air Temp 84	< 1
39,600	-700	SUX	5-25-00	0935	16.85	40,300	61	Air Temp 56	2
49,200	+1,600	MKC	5-25-00	1030	13.06	47,600	71	Air Temp 86	3
39,100	+300	SUX	5-30-00	1140	16.74	38,800	70	Air Temp 74	< 1
40,600	-300	OMA	5-30-00	0900	18.25	40,900	67	Air Temp 82	< 1
44,400	-1,600	NCNE	5-30-00	1035	11.55	46,000	69	Air Temp 86	4
40,200	+2,300	DENE	5-31-00	1020	24.07	37,900	67	Air Temp 67	6
44,000	-3,800	RUNE	5-31-00	1100	10.65	47,800	72	Air Temp 77	9

## Discharge Measurements For June 2000

COE Discharge	Difference	Station	Date	Time	Gage Height	Measured Discharge	Water Temp (F)	Remarks	% Diff
38,600	+2,200	SUX	6-1-00	0820	16.60	36,400	64	Air Temp 64	6
44,800	+100	STJ	6-1-00	1100	10.40	44,700	79	Air Temp 86	1
48,600	+2,200	MKC	6-1-00	1145	12.95	46,400	78	Air Temp 72	4
51,400	+3,300	BNMO	6-2-00	1300	9.39	48,100	79	Air Temp 85	4
38,600	+2,600	SUX	6-5-00	1100	16.73	36,000	64	Air Temp 61	7
39,700	+400	OMA	6-5-00	0840	18.17	39,300	68	Air Temp 63	1
44,600	+300	NCNE	6-5-00	1110	11.49	44,300	68	Air Temp 73	< 1
39,800	+2,700	DENE	6-6-00	0900	24.1	37,100	61	Air Temp 55	7
44,200	-900	RUNE	6-6-00	1100	10.47	45,100	69	Air Temp 68	2
49,500	+1,900	WVMO	6-6-00	1100	12.36	47,600	73	Air Temp 81	4
44,200	+500	STJ	6-7-00	1045	10.28	43,700	70	Air Temp 77	1
47,300	+3,300	MKC	6-8-00	1015	12.69	44,000	73	Air Temp 78	7
36,500	+1,000	SUX	6-9-00	0910	16.46	35,500	73	Air Temp 81	3
49,400	-2,500	BNMO	6-9-00	1130	9.07	46,900	77	Air Temp 87	5
35,900	-600	SUX	6-12-00	1305	16.32	36,500	79	Air Temp 68	2
43,600	+2,600	NCNE	6-12-00	1130	11.26	41,000	77	Air Temp 81	6
43,200	+100	RUNE	6-12-00	1115	10.24	43,100	79	Air Temp 81	< 1
39,200	+300	DENE	6-14-00	1150	24.28	38,900	70	Air Temp 65	< 1
39,200	+400	OMA	6-13-00	1130	18.26	38,800	70	Air Temp 73	5
46,500	-4,700	STJ	6-15-00	1130	10.73	51,200	75	Air Temp 78	10
58,300	-2,700	HEMO	6-15-00	1315	7.89	61,000			5
36,700	-300	SUX	6-16-00	1100	16.51	37,000	67	Air Temp 64	< 1
35,700	-1,300	SUX	6-19-00	1140	16.27	37,000	70	Air Temp 81	4
38,900	-1,800	OMA	6-19-00	0925	18.21	40,700	70	Air Temp 73	5
43,700	+600	RUNE	6-19-00	1130	10.35	43,100	72	Air Temp 75	1
37,200	+700	DENE	6-21-00	1300	23.91	36,500	72	Air Temp 82	2
77,400	+1,400	HEMO	6-21-00	0115	10.37	76,000			2
42,300	+1,300	NCNE	6-22-00	1145	10.99	41,000	74	Air Temp 86	3
37,000	-500	SUX	6-26-00	1110	16.60	37,500	68	Air Temp 67	1
46,000	+1,400	DENE	6-26-00	1430	25.69	44,600	70	Air Temp 79	3
44,300	-1,500	OMA	6-26-00	0915	19.32	45,800	73	Air Temp 71	3



74,400	+3,100	RUNE	6-26-00	1315	15.52	71,300	75	Air Temp 72	4
65,000	-2,200	NCNE	6-27-00	1245	15.07	67,200	75	Air Temp 81	3
35,100	-1,500	SUX	6-29-00	0715	16.12	36,600	70	Air Temp 63	4
85,100	+3,400	WVMO	6-29-00	1245	17.18	81,700	76	Air Temp 90	4
95,400	+4,600	BNMO	6-30-00	1330	15.02	90,800	76	Air Temp 72	< 5

## Discharge Measurements For July 2000

COE Discharge	Difference	Station	Date	Time	Gage Height	Measured Discharge	Water Temp (F)	Remarks	% Diff
33,900	-1,900	SUX	7-3-00	0945	15.84	35,800	76	Air Temp 74	6
35,000	-400	DENE	7-3-00	1500	23.44	35,400	79	Air Temp 86	1
37,500	-1,700	OMA	7-3-00	0850	17.90	39,200	78	Air Temp 72	4
46,600	+1,700	NCNE	7-3-00	1100	11.92	44,900	79	Air Temp 85	4
68,800	+2,200	WVMO	7-6-00	1100	15.14	66,600	82	Air Temp 84	3
33,500	-900	SUX	7-10-00	1045	15.62	34,400	81	Air Temp 80	3
33,800	+500	DENE	7-10-00	1515	23.16	33,300	85	Air Temp 88	< 2
36,600	-1,300	OMA	7-10-00	1045	17.58	37,900	83	Air Temp 82	5
46,200	+800	NCNE	7-10-00	1030	11.96	45,400	84	Air Temp 90	< 2
47,100	+400	STJ	7-10-00	0900	10.96	46,700	84	Air Temp 80	< 1
46,800	+800	RUNE	7-11-00	1130	11.15	46,000	86	Air Temp 91	< 2
58,300	+800	MKC	7-11-00	0900	14.93	57,500	86	Air Temp 91	1
66,200	+1,000	BNMO	7-13-00	0915	11.71	65,200	84	Air Temp 77	< 1
33,600	-1,200	SUX	7-14-00	0920	15.66	34,800	82	Air Temp 84	4
33,300	-1,200	SUX	7-17-00	1120	15.71	34,500	78	Air Temp 76	4
35,100	-600	DENE	7-17-00	1135	23.31	34,500	80	Air Temp 86	< 2
36,800	-2,000	OMA	7-17-00	0910	17.64	38,800	83	Air Temp 83	5
40,500	+2,000	NCNE	7-17-00	0850	10.64	38,500	82	Air Temp 68	5
42,700	+900	RUNE	7-18-00	1200	10.21	41,800	84	Air Temp 70	2
52,300	+500	WVMO	7-19-00	0915	12.86	51,800	80		< 1
33,400	-600	SUX	7-24-00	1245	15.60	34,000	77	Air Temp 82	2
34,500	-100	DENE	7-24-00	11:45	23.32	34,600	73	Air Temp 86	< 1
35,300	-2,200	OMA	7-24-00	09:15	17.27	37,500	77	Air Temp 79	6
39,600	+900	NCNE	7-25-00	10:15	10.42	38,700	77	Air Temp 77	3
41,700	-1,000	RUNE	7-26-00	1100	9.98	42,700	79	Air Temp 75	2
33,500	-900	SUX	7-27-00	1000	15.63	33,500	77	Air Temp 74	3
40,100	+3,500	SUX	7-31-00	1010	17.22	36,600	80	Air Temp 90	9
36,200	-400	OMA	7-31-00	1010	17.27	36,600	80	Air Temp 90	1
33,900	+1,100	DENE	7-31-00	1110	23.18	32,800	78	Air Temp 76	3
39,900	+200	NCNE	7-31-00	1200	10.49	39,700	81	Air Temp 82	< 1

## Discharge Measurements For August 2000

COE Discharge	Difference	Station	Date	Time	Gage Height	Measured Discharge	Water Temp (F)	Remarks	% Diff
42,200	+700	RUNE	8-1-00	1030	10.10	41,500	82	Air Temp 80	2
41,300	-1,100	STJ	8-1-00	1100	9.68	42,400	81	Air Temp 88	3
32,700	+900	SUX	8-3-00	1130	15.42	31,800	78	Air Temp 72	3
46,000	-200	WVMO	8-3-00	1130	11.91	46,200	82	Air Temp 88	0
45,800	+1,300	MKC	8-4-00	1115	12.50	44,500	81	Air Temp 86	3
31,700	-200	SUX	8-7-00	1135	15.18	31,900	84	Air Temp 84	< 1
39,200	+2,500	NCNE	8-7-00	1015	10.05	36,700	82	Air Temp 86	6
32,300	+2,300	DENE	8-8-00	1015	22.82	30,000	81	Air Temp 82	7
33,400	-1,300	OMA	8-8-00	0845	16.92	34,700	82	Air Temp 82	4
49,700	-300	BNMO	8-8-00	1145	9.24	50,000	82	Air Temp 91	< 1
37,900	-300	RUNE	8-9-00	1100	9.30	38,200	85	Air Temp 81	< 1
44,900	-500	WVMO	8-9-00	1115	11.74	45,400			1
32,700	-100	SUX	8-10-00	1015	15.50	32,800	80	Air Temp 75	< 1
61,000	+2,200	HEMO	8-11-00	1245	8.38	58,800	84		4
32,800	+800	DENE	8-14-00	1118	22.94	32,000	82	Air Temp 91	2
36,300	+100	NCNE	8-14-00	0910	9.91	36,200	82	Air Temp 80	< 1
33,500	-800	OMA	8-15-00	1000	16.95	34,300	73	Air Temp 82	2
38,200	+300	STJ	8-15-00	1030	8.92	37,900	84	Air Temp 87	< 1
37,000	+800	RUNE	8-16-00	1115	9.07	36,200	84	Air Temp 84	2
41,900	+3,200	MKC	8-16-00	1000	11.69	38,700	84	Air Temp 84	8
43,000	-1,600	BNMO	8-16-00	0900	8.08	44,600	86	Air Temp 88	4
39,600	+500	MKC	8-17-00	1015	11.42	39,100	85	Air Temp 94	1
32,300	-1,200	SUX	8-18-00	1008	15.41	33,500	74	Air Temp 64	4
32,200	-100	SUX	8-21-00	1100	15.39	32,300	76	Air Temp 78	< 1
35,400	-2,800	NCNE	8-21-00	1415	9.60	38,200	77	Air Temp 86	8
37,100	-1,800	RUNE	8-21-00	1115	9.26	38,900	78	Air Temp 80	5
32,700	+700	DENE	8-22-00	0900	22.92	32,000	72	Air Temp 66	2
34,000	-1,700	OMA	8-22-00	0940	17.08	35,700	74	Air Temp 73	5
42,200	+900	MKC	8-23-00	1000	11.97	41,300	82	Air Temp 82	2
32,100	-800	SUX	8-24-00	1015	15.36	32,900	75	Air Temp 70	3
37,800	-100	STJ	8-24-00	1100	8.95	37,900	81	Air Temp 91	< 1

41,200	-700	WVMO	8-24-00	1130	11.15	41,900	82	Air Temp 86	2
89,000	+11,300	HEMO	8-25-00	1115	11.90	77,700	78	Air Temp 89	13
31,800	-500	SUX	8-28-00	1130	15.28	32,300	76	Air Temp 76	2
33,300	-1,800	OMA	8-28-00	1015	16.90	35,100	79	Air Temp 86	5
35,900	-100	NCNE	8-28-00	1050	9.73	36,000	80	Air Temp 91	< 1
32,500	-300	DENE	8-29-00	0950	22.82	32,800	71	Air Temp 64	< 1
36,800	+300	RUNE	8-29-00	1135	9.19	36,500	82	Air Temp 73	< 1
42,500	-300	BNMO	8-30-00	0930	8.05	42,800			< 1

## Discharge Measurements For September 2000

COE Discharge	Difference	Station	Date	Time	Gage Height	Measured Discharge	Water Temp (F)	Remarks	% Diff
33,600	-900	SUX	9-1-00	1030	15.73	34,500	72	Air Temp 66	3
39,800	-500	WVMO	9-1-00	0901	10.94	40,300	84	Air Temp 88	2
33,300	-700	SUX	9-5-00	1130	15.69	34,000	69	Air Temp 66	2
33,800	-1,500	DENE	9-5-00	1135	23.18	35,300	73	Air Temp 75	4
34,300	-500	OMA	9-5-00	1100	17.16	34,800	75	Air Temp 64	< 2
36,800	+100	NCNE	9-5-00	1045	9.92	36,700	76	Air Temp 73	< 1
37,300	-300	RUNE	9-6-00	1035	9.33	37,600	77	Air Temp 68	< 1
37,600	-1,100	STJ	9-6-00	0945	8.90	38,700	74	Air Temp 67	< 3
39,700	-600	MKC	9-6-00	1030	11.44	40,300	79	Air Temp 77	< 2
41,100	-600	BNMO	9-7-00	1100	7.73	41,700	78	Air Temp 79	< 2
34,100	-800	SUX	9-8-00	1040	15.73	34,900	72	Air Temp 73	2
34,400	-300	SUX	9-11-00	1000	15.82	34,700	73	Air Temp 76	< 1
35,000	+400	DENE	9-11-00	1110	23.32	34,600	78	Air Temp 86	1
34,600	-1,300	OMA	9-11-00	0945	17.17	35,900	77	Air Temp 72	4
36,700	-400	NCNE	9-11-00	1045	9.88	37,100	77	Air Temp 91	<1
44,000	-1,100	HEMO	9-11-00	1000	5.7	45,100	81	Air Temp	< 3
37,800	-1,500	STJ	9-12-00	0915	8.86	39,300	74	Air Temp 68	4
40,300	-100	WVMO	9-12-00	1100	10.92	40,400	80	Air Temp 82	< 1
41,300	0	BNMO	9-13-00	0915	7.70	41,300	78	Air Temp 77	0
34,100	-1,400	SUX	9-18-00	1306	15.75	35,500	70	Air Temp 80	4
34,700	-1,300	OMA	9-18-00	0915	17.07	36,000	71	Air Temp 81	4
35,400	+800	NCNE	9-18-00	1100	9.69	36,200	82	Air Temp 71	2
36,600	-2,100	RUNE	9-19-00	1115	9.08	38,700	71	Air Temp 79	6
40,300	-200	WVMO	9-19-00	1030	10.91	40,500	75	Air Temp 88	< 1
41,000	+300	BNMO	9-19-00	1000	7.64	40,700	74	Air Temp 83	< 1
37,600	+100	STJ	9-20-00	0900	8.83	37,700	69	Air Temp 70	< 1
39,800	+1,400	MKC	9-21-00	1030	11.34	38,400	69	Air Temp 63	4
41,900	+700	HEMO	9-21-00	1015	5.34	41,200	72	Air Temp	2
35,900	+300	SUX	9-22-00	1245	16.19	35,600	61	Air Temp 64	< 1
35,800	0	SUX	9-25-00	1030	16.16	35,800	54	Air Temp 45	0
35,900	+600	DENE	9-25-00	1100	23.51	35,300	58	Air Temp 52	2

35,200	-200	OMA	9-25-00	1420	17.18	35,400	61	Air Temp 65	1
37,800	-400	NCNE	9-25-00	1015	10.08	38,200	68	Air Temp 61	1
44,600	+200	MKC	9-25-00	1130	12.32	44,400	64	Air Temp 64	< 1
37,900	-1,500	RUNE	9-26-00	1115	9.39	39,400	61	Air Temp 66	4
40,000	-700	STJ	9-26-00	1045	9.39	40,700	60	Air Temp 55	2
45,700	+800	WVMO	9-27-00	1130	11.76	44,900	67	Air Temp 65	2
34,400	+500	SUX	9-28-00		15.81	33,900	59	Air Temp 55.8	1
48,100	-900	BNMO	9-28-00	0915	8.91	49,000	64	Air Temp 68	2
51,200	+400	HEMO	9-29-00	1120	6.68	50,800	66	Air Temp	< 1

## Discharge Measurements For October 2000

COE Discharge	Difference	Station	Date	Time	Gage Height	Measured Discharge	Water Temp (F)	Remarks	% Diff
36,000	+500	SUX	10-2-00	1110	16.19	35,500	62	Air Temp 61	1
35,900	+400	DENE	10-2-00	1350	23.53	35,500	64	Air Temp 72	1
36,900	-700	NCNE	10-2-00	1045	9.86	37,600	64	Air Temp 69	2
35,700	-400	OMA	10-3-00	1000	17.3	36,100	64	Air Temp 58	1
40,100	+900	MKC	10-3-00	0900	11.40	39,200	66	Air Temp 72	2
38,200	-100	RUNE	10-4-00	1230	9.46	39,300	64	Air Temp 54	< 1
40,300	+500	WVMO	10-4-00	1100	10.91	39,800	64	Air Temp 56	1
39,500	-700	STJ	10-5-00	0915	9.27	40,200	63	Air Temp 60	2
34,900	-1,800	SUX	10-10-00	0950	15.98	36,700	51	Air Temp 35	5
34,900	-700	DENE	10-10-00	1120	23.24	35,600	54	Air Temp 50	2
35,200	-1,400	OMA	10-10-00	1405	16.96	36,600	54	Air Temp 52	4
38,900	-1,500	NCNE	10-10-00	1615	10.04	40,400	63	Air Temp 62	4
39,700	-1,200	STJ	10-10-00	1030	9.32	40,900	54	Air Temp 54	3
38,900	-1,600	RUNE	10-11-00	1020	9.35	40,500	54	Air Temp 64	4
40,600	+600	MKC	10-11-00	1100	11.56	40,000	57	Air Temp 54	2
42,900	+500	BNMO	10-12-00	0845	7.98	42,400	58	Air Temp 58	1
45,000	-1,200	HEMO	10-13-00	1130	5.84	46,200	64	Air Temp	3
34,500	-1,600	SUX	10-16-00	1100	15.88	36,100	56	Air Temp 55	5
34,900	-300	DENE	10-17-00	1430	23.25	35,200	57	Air Temp 64	< 1
35,000	-800	OMA	10-17-00	1200	16.91	35,800	57	Air Temp 73	2
39,200	0	NCNE	10-17-00	0950	10.11	39,200	57	Air Temp 56	0
40,000	-500	MKC	10-17-00	1000	11.54	40,500	58	Air Temp 61	1
39,400	-1,300	STJ	10-18-00	0845	9.25	40,700	56	Air Temp 59	3
42,300	-200	WVMO	10-19-00	1045	11.23	42,500	64	Air Temp 78	< 1
39,300	-600	RUNE	10-20-00	1215	9.43	39,900	59	Air Temp 59	2
43,600	+900	BNMO	10-20-00	1145	8.13	42,700	63	Air Temp 70	2
34,500	-600	SUX	10-23-00	1125	15.90	35,100	61	Air Temp 65	2
35,100	-200	DENE	10-23-00	1350	23.28	35,300	65	Air Temp 73	1
36,000	-400	OMA	10-24-00	1420	17.14	36,400	60	Air Temp 68	1
40,000	-400	NCNE	10-24-00	1145	10.29	40,400	61	Air Temp 63	1

41,600	+500	MKC	10-24-00	0830	11.77	41,100	62	Air Temp 65	1
47,000	-200	BNMO	10-25-00	1015	8.72	47,200	64	Air Temp 68	< 1
42,200	-200	WVMO	10-26-00	1115	11.22	42,400	65	Air Temp 73	< 1
33,600	-100	SUX	10-30-00	1035	15.66	33,700	57	Air Temp 61	1
34,100	+100	DENE	10-30-00	1245	23.07	34,000	57	Air Temp 64	< 1
43,200	-600	BNMO	10-30-00	0900	8.05	43,800	65	Air Temp 77	1
35,300	-800	OMA	10-31-00	1310	16.97	36,100	58	Air Temp 64	2
40,500	-100	NCNE	10-31-00	0920	10.43	40,600	58	Air Temp 65	< 1



## Discharge Measurements For November 2000

COE Discharge	Difference	Station	Date	Time	Gage Height	Measured Discharge	Water Temp (F)	Remarks	% Diff
41,000	-3,000	STJ	11-1-00	0830	9.64	44,000	63	Air Temp 71	8
41,100	-1,100	RUNE	11-2-00	1050	9.88	42,200	60	Air Temp 66	3
45,400	-300	MKC	11-2-00	0845	12.54	45,700	60	Air Temp 65	1
44,400	-1,300	HEMO	11-2-00	1230	5.75	45,700	66	Air Temp	3
33,200	-900	SUX	11-6-00	1035	15.45	34,100	51	Air Temp 45	3
33,100	-500	DENE	11-6-00	1250	22.72	33,600	54	Air Temp 38	2
34,600	-700	OMA	11-7-00	1340	16.67	35,300	50	Air Temp 36	2
42,200	-1,500	NCNE	11-7-00	1015	10.75	43,700	50	Air Temp 36	4
50,300	+900	MKC	11-7-00	1015	13.52	49,400	51	Air Temp 40	2
42,600	-3,000	RUNE	11-8-00	0950	10.17	45,600	50	Air Temp 36	7
43,400	-2,200	STJ	11-8-00	0900	10.16	45,600	47	Air Temp 30	5
30,100	-1,500	SUX	11-13-00	1110	14.39	31,600	37	Air Temp 29	5
30,000	-2,400	DENE	11-13-00	1430	21.93	32,400	39	Air Temp 29	8
35,500	-2,000	NCNE	11-14-00	1000	9.08	37,500	39	Air Temp 31	6
41,100	-1,500	WVMO	11-14-00	1130	11.05	42,600	44	Air Temp 35	4
30,200	-2,800	OMA	11-15-00	1315	15.56	33,000	39	Air Temp 35	9
42,600	-3,200	BNMO	11-15-00	1130	7.94	45,800	45	Air Temp 50	8
36,500	-1,900	RUNE	11-16-00	1030	8.55	38,400	37	Air Temp 31	5
40,200	-2,500	BNMO	11-20-00	1345	7.19	42,700	37	Air Temp 31	6
33,100	-2,300	DENE	11-20-00	1315	22.46	35,400	34	Air Temp 23	7
31,800	-3,600	OMA	11-21-00	1245	15.48	35,400	34	Air Temp 36	11
38,100	-2,600	NCNE	11-21-00	1020	9.51	40,700	33	Air Temp 28	7
38,600	-3,700	WVMO	11-21-00		10.64	42,300	38	Air Temp	10
42,500	-3,300	HEMO	11-21-00	1145	5.46	45,800	41	Air Temp	8
38,400	-1,300	MKC	11-22-00	1030	10.66	39,700	36	Air Temp 36	3
38,800	-1,800	RUNE	11-22-00	1120	8.81	40,600	34	Air Temp 34	4
25,000	-600	SUX	11-27-00	1210	12.84	25,600	33	Air Temp 46	2
28,100	+400	DENE	11-27-00	1450	20.87	27,700	34	Air Temp 43	1
28,000	+500	OMA	11-28-00	1320	14.38	27,500	36	Air Temp 39	2
37,900	-1,600	MKC	11-28-00	1015	10.48	39,500	38	Air Temp 54	4
42,800	+1,300	HEMO	11-28-00	1200	5.52	44,100	41	Air Temp	3

33,500	+500	NCNE	11-29-00	1340	8.27	33,000	36	Air Temp 39	< 2
35,200	+400	RUNE	11-29-00	1040	7.92	34,800	36	Air Temp 40	1
35,900	-2,100	WVMO	11-30-00	1045	10.15	38,000	37	Air Temp 38	6

## Discharge Measurements For December 2000

COE Discharge	Difference	Station	Date	Time	Gage Height	Measured Discharge	Water Temp (F)	Remarks	% Diff
12,000	-2,200	SUX	12-4-00	1615	8.72	14,200	33	Air Temp 34	18
13,900	-200	DENE	12-5-00	1350	16.38	14,100	34	Air Temp 21	1
15,800	-800	OMA	12-5-00	0950	10.47	16,600\	36	Air Temp 21	5
27,200	-100	MKC	12-6-00	1300	7.98	27,300	34	Air Temp 28	< 1
23,400	+1,600	NCNE	12-7-00	1350	5.71	21,800	34	Air Temp 62	7
24,600	+1,300	RUNE	12-7-00	1150	5.3	23,300	36	Air Temp 52	5
9,600	-600	SUX	12-13-00	1230	7.64	10,200	0	Air Temp 21	7
17,700	+1,000	SUX	12-27-00	1445	11.37	16,700	0	Air Temp 18	6