



**EXPLANATION**

- 04024400 Station number
- △ Stream gage
- △ Stream gage equipped with telephone or data collection platform
- △ Crest-stage partial-record station

Base from U.S. Geological Survey 1:100,000 digital data; modified by Wisconsin Department of Natural Resources. Wisconsin Transverse Mercator projection.

**LAKE SUPERIOR BASIN**

STREAMS TRIBUTARY TO LAKE SUPERIOR

46

04024430 NEMADJI RIVER NEAR SOUTH SUPERIOR, WI

LOCATION.--Lat 46°38'00", long 92°05'38", in SW ¼ sec.14, T.48 N., R.14 W., Douglas County, Hydrologic Unit 04010301, on right bank at downstream side of bridge on County Trunk Highway C, 2.0 mi south of South Superior and 7.8 mi downstream from Black River.

DRAINAGE AREA.--420 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1973 to current year.

REVISED RECORDS.--WDR WI-75-1: 1974(M). WDR WI-82-1: Drainage area and 1981.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 601.13 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see page 11). Gage-height telemeter at station.

EXTREMES OUTSIDE THE PERIOD OF RECORD.--A flood of Aug. 17, 1972, may have exceeded floods at this location since then.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	128	e84	e67	e52	e79	e2,200	350	3,590	86	101	82
2	62	117	e84	e65	e53	e79	e2,200	304	1,840	80	89	79
3	61	107	e82	e63	e52	e79	e2,500	270	1,200	76	79	77
4	58	107	e82	e60	e52	e80	2,500	245	868	77	72	72
5	57	111	e85	e60	e52	e84	1,670	225	697	94	67	75
6	59	e110	e90	e60	e52	e87	1,340	207	713	117	62	348
7	56	e110	e90	e60	e52	e89	1,290	192	611	104	59	568
8	55	e100	e87	e60	e52	e89	1,190	e180	482	100	79	271
9	54	e100	e87	e61	e51	e90	976	e180	439	98	223	196
10	54	e110	e86	e62	e51	e92	772	e170	366	88	367	165
11	55	e110	e81	e62	e53	e92	619	160	307	298	438	150
12	69	e110	e75	e58	e53	e92	514	151	311	945	515	165
13	82	e120	e75	e56	e54	e92	452	148	357	522	358	160
14	84	e130	e80	e54	e51	e92	405	151	289	361	258	141
15	79	e120	e80	e53	e51	e92	368	150	245	279	206	149
16	81	e120	e80	e52	e51	e93	336	146	215	214	175	488
17	75	e130	e80	e52	e51	e93	321	782	204	178	153	383
18	69	e120	e77	e51	e52	e98	372	1,470	185	151	137	247
19	65	e110	e75	e51	e53	e100	1,810	825	163	237	123	198
20	64	e100	e70	e51	e53	e110	1,630	579	145	200	108	170
21	61	e90	e70	e51	e53	e110	1,070	456	132	154	98	156
22	60	e86	e76	e51	e53	e110	1,020	377	123	123	94	275
23	59	e86	e76	e49	e58	e110	786	638	114	106	91	374
24	59	e90	e76	e49	e61	e120	621	725	116	95	88	459
25	62	e89	e70	e49	e70	e140	565	638	121	85	82	497
26	62	e88	e70	e50	e77	e180	744	595	116	78	94	318
27	61	e87	e73	e49	e78	e400	609	494	106	71	128	238
28	70	e86	e76	e49	e79	e500	511	454	100	68	115	198
29	75	e85	e80	e48	e79	e1,100	470	388	94	99	99	179
30	86	e84	e76	e49	---	e3,000	409	519	89	131	91	163
31	107	---	e71	e50	---	e2,400	---	3,700	---	116	86	---
TOTAL	2,066	3,141	2,444	1,702	1,649	9,972	30,270	15,869	14,338	5,431	4,735	7,041
MEAN	66.6	105	78.8	54.9	56.9	322	1,009	512	478	175	153	235
MAX	107	130	90	67	79	3,000	2,500	3,700	3,590	945	515	568
MIN	54	84	70	48	51	79	321	146	89	68	59	72
CFSM	0.16	0.25	0.19	0.13	0.14	0.77	2.40	1.22	1.14	0.42	0.36	0.56
IN.	0.18	0.28	0.22	0.15	0.15	0.88	2.68	1.41	1.27	0.48	0.42	0.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2004, BY WATER YEAR (WY)

	305	295	137	80.2	99.5	440	1,393	606	474	354	217	316
MAX	1,082	1,200	418	177	336	1,088	3,474	1,355	1,357	1,145	1,047	1,485
(WY)	(1983)	(1992)	(1992)	(1984)	(1984)	(1995)	(2001)	(1979)	(1993)	(1999)	(1999)	(1986)
MIN	41.0	33.9	28.2	27.3	29.8	96.6	244	119	82.9	46.6	40.6	34.4
(WY)	(1977)	(1977)	(1977)	(1977)	(1977)	(2002)	(1987)	(1998)	(1988)	(1988)	(1976)	(1976)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1974 - 2004

ANNUAL TOTAL	106,633	98,658	
ANNUAL MEAN	292	270	392
HIGHEST ANNUAL MEAN			786
LOWEST ANNUAL MEAN			200
HIGHEST DAILY MEAN	3,670	May 10	11,900
LOWEST DAILY MEAN	(a)36	Feb 26, 27	(a)19
ANNUAL SEVEN-DAY MINIMUM	(a)37	Feb 23	(a)26
MAXIMUM PEAK FLOW		5,000	(b)15,800
MAXIMUM PEAK STAGE		19.15	(c)25.97
ANNUAL RUNOFF (CFSM)	0.696	0.642	0.934
ANNUAL RUNOFF (INCHES)	9.44	8.74	12.69
10 PERCENT EXCEEDS	739	610	951
50 PERCENT EXCEEDS	89	98	146
90 PERCENT EXCEEDS	40	53	56

(a) Ice affected

(b) Gage height, 25.18 ft

(c) Discharge 13,700 ft<sup>3</sup>/s, rating then in use

(e) Estimated due to ice effect or missing record

STREAMS TRIBUTARY TO LAKE SUPERIOR

04025500 BOIS BRULE RIVER AT BRULE, WI

47

LOCATION.--Lat 46°32'16", long 91°35'43", in NW 1/4 SW 1/4 sec.23, T.47 N., R.10 W., Douglas County, Hydrologic Unit 04010301, on right bank, 1.4 mi southwest of Brule Post Office, 1.4 mi downstream from Nebagamon Creek, and 1.7 mi upstream from Little Bois Brule River.

DRAINAGE AREA.--118 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1942 to September 1981, January 1984 to current year. Prior to January 1943, monthly discharge published in WSP 1307. January 1984 to September 1994, incorrectly published as "near Brule."

REVISED RECORDS.--WSP 1337: 1943(M), 1944, 1945-50(M). WDR WI-92-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 948.49 ft above NGVD of 1929. Prior to October 1964, nonrecording gage at same site and datum, supplemented by water-stage recorder part of 1959-62.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see page 11). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	142	138	e130	e120	129	286	197	314	134	161	126
2	121	137	e140	e130	e120	129	284	189	285	129	149	125
3	120	133	e140	e130	e120	129	294	184	258	127	138	124
4	120	138	136	e130	e120	129	279	178	238	128	129	122
5	120	140	136	e130	e120	131	266	174	227	128	123	138
6	119	136	135	e120	e120	131	263	170	242	125	120	200
7	119	e130	135	e130	e120	132	261	165	233	129	119	196
8	120	e130	134	e130	e120	130	264	161	221	125	139	184
9	120	e130	134	e130	e120	129	251	158	207	121	148	171
10	121	129	134	e130	e120	132	236	156	197	120	156	158
11	124	133	e130	e130	e120	e120	223	152	191	172	178	148
12	143	145	e130	e130	e120	e120	213	152	198	188	184	141
13	139	148	e130	e130	e120	e120	206	161	196	177	174	138
14	132	143	e130	e130	e120	132	201	171	189	172	165	142
15	128	140	e130	e130	e120	131	199	164	180	159	155	159
16	125	140	e130	e130	e120	130	197	161	184	145	153	163
17	123	142	e130	e130	e120	132	194	246	178	135	151	155
18	122	145	e130	e120	e120	132	228	258	168	131	146	150
19	122	146	e130	e120	e130	131	328	241	159	129	139	144
20	120	144	e130	e120	e130	130	316	232	153	128	133	140
21	119	140	e130	e120	128	131	319	210	148	126	129	140
22	120	137	131	e120	126	131	305	208	143	123	136	144
23	119	141	131	e120	128	131	278	227	147	120	131	144
24	122	e140	e130	e120	127	133	255	231	153	118	129	152
25	123	e140	e130	e120	126	141	252	222	147	118	128	148
26	123	142	e130	e120	126	161	244	210	142	116	134	143
27	122	142	e130	e120	126	170	232	207	138	115	131	140
28	129	143	e130	e120	127	215	222	200	135	123	129	137
29	136	142	e130	e120	128	243	212	190	131	167	127	135
30	140	141	e130	e120	---	243	206	192	129	162	128	133
31	147	---	e130	e120	---	256	---	308	---	182	127	---
TOTAL	3,880	4,179	4,094	3,880	3,562	4,534	7,514	6,075	5,631	4,272	4,389	4,440
MEAN	125	139	132	125	123	146	250	196	188	138	142	148
MAX	147	148	140	130	130	256	328	308	314	188	184	200
MIN	119	129	130	120	120	120	194	152	129	115	119	122
CFSM	1.06	1.18	1.12	1.06	1.04	1.24	2.12	1.66	1.59	1.17	1.20	1.25
IN.	1.22	1.32	1.29	1.22	1.12	1.43	2.37	1.92	1.78	1.35	1.38	1.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2004, BY WATER YEAR (WY)

MEAN	158	161	143	133	133	155	282	233	193	168	149	156
MAX	259	295	205	164	187	265	611	495	416	345	289	297
(WY)	(1978)	(1972)	(1972)	(1984)	(1966)	(1945)	(2001)	(1950)	(1944)	(1952)	(1999)	(1951)
MIN	110	119	113	104	104	105	157	140	122	108	114	108
(WY)	(1949)	(1949)	(1948)	(1948)	(1948)	(1943)	(1959)	(1958)	(1948)	(1964)	(1948)	(1948)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1943 - 2004

ANNUAL TOTAL	57,501	56,450	
ANNUAL MEAN	158	154	172
HIGHEST ANNUAL MEAN			223
LOWEST ANNUAL MEAN			133
HIGHEST DAILY MEAN	462	May 12	1,700
LOWEST DAILY MEAN	107	(a)Sep 3	74
ANNUAL SEVEN-DAY MINIMUM	107	Sep 2	89
MAXIMUM PEAK FLOW		(b)342	1,860
MAXIMUM PEAK STAGE		(c)3.74	7.24
INSTANTANEOUS LOW FLOW		113	67
ANNUAL RUNOFF (CFSM)	1.34	1.31	1.45
ANNUAL RUNOFF (INCHES)	18.13	17.80	19.76
10 PERCENT EXCEEDS	225	227	253
50 PERCENT EXCEEDS	134	134	146
90 PERCENT EXCEEDS	118	120	120

(a) Also occurred additional days

(b) Gage height, 2.60 ft

(c) Ice affected

(d) Also occurred July 28

(e) Estimated due to ice effect or missing record

STREAMS TRIBUTARY TO LAKE SUPERIOR

040263205 WHITTLESEY CREEK NEAR ASHLAND, WI

48

LOCATION.--Lat 46°35'40", long 90°57'47", in SE 1/4 NW 1/4 sec.35, T.48 N., R.5 W., Bayfield County, Hydrologic Unit 04010301, at Cherryville road, 3.7 mi west of courthouse in Ashland.

DRAINAGE AREA.--37.6 mi<sup>2</sup>, of which 30.2 mi<sup>2</sup> is noncontributing.

PERIOD OF RECORD.--April 1999 to current year.

REVISED RECORDS.--WDR WI-02-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 615 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good (see page 11). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	18	18	18	18	18	32	18	27	18	18	18
2	18	18	18	18	18	18	33	18	22	18	18	18
3	18	18	18	18	18	18	38	18	20	18	17	18
4	18	20	18	18	18	18	32	18	19	18	18	18
5	18	20	18	18	18	18	27	18	19	18	18	19
6	18	19	18	18	18	18	32	18	20	18	18	19
7	18	18	18	18	18	18	31	18	19	18	18	18
8	18	18	18	18	18	18	29	18	19	18	18	18
9	18	18	18	18	18	18	24	18	18	17	20	18
10	18	19	18	18	18	18	22	18	18	17	19	18
11	19	19	18	18	18	18	21	18	18	18	19	18
12	18	20	18	18	18	18	20	18	18	18	18	18
13	18	19	18	18	18	18	20	19	18	18	18	18
14	18	19	18	18	18	18	20	19	18	17	17	19
15	18	19	18	18	18	18	20	18	18	17	17	21
16	18	19	18	18	18	18	20	18	18	18	18	20
17	18	19	18	18	18	18	19	46	18	17	17	19
18	18	20	18	18	18	18	37	26	18	18	18	19
19	18	19	18	18	18	18	106	21	17	17	18	18
20	18	19	18	18	18	18	30	24	17	17	18	18
21	18	18	18	18	18	17	39	20	17	17	18	19
22	18	19	18	18	18	18	28	20	17	17	19	19
23	18	19	18	18	18	18	23	34	18	17	18	19
24	18	19	18	18	18	18	21	46	18	17	18	19
25	18	19	18	18	18	19	27	26	17	17	18	19
26	18	18	18	17	18	31	24	22	17	17	21	18
27	18	18	18	18	18	42	21	21	17	17	18	19
28	19	18	18	18	18	110	20	20	17	18	18	19
29	19	19	18	18	18	79	20	19	17	19	18	19
30	19	18	18	18	---	43	19	35	18	18	19	19
31	19	---	18	18	---	34	---	62	---	18	18	---
TOTAL	563	563	558	557	522	789	855	732	552	545	563	559
MEAN	18.2	18.8	18.0	18.0	18.0	25.5	28.5	23.6	18.4	17.6	18.2	18.6
MAX	19	20	18	18	18	110	106	62	27	19	21	21
MIN	18	18	18	17	18	17	19	18	17	17	17	18
CFSM	2.45	2.54	2.43	2.43	2.43	3.44	3.85	3.19	2.49	2.38	2.45	2.52
IN.	2.83	2.83	2.81	2.80	2.62	3.97	4.30	3.68	2.77	2.74	2.83	2.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

	(2003)	(2001)	(2002)	(2003)	(2000)	(2004)	(2001)	(2003)	(1999)	(1999)	(1999)	(2002)
MEAN	20.4	20.2	18.7	18.0	18.7	22.4	39.7	24.0	19.6	21.7	19.4	19.7
MAX	25.5	25.1	19.8	18.4	21.4	25.5	76.5	31.5	22.6	36.6	22.8	22.4
(WY)	(2003)	(2001)	(2002)	(2003)	(2000)	(2004)	(2001)	(2003)	(1999)	(1999)	(1999)	(2002)
MIN	18.2	18.5	18.0	17.5	17.7	18.2	19.2	19.4	18.4	17.6	17.1	17.6
(WY)	(2004)	(2002)	(2000)	(2001)	(2001)	(2002)	(2000)	(1999)	(2004)	(2004)	(2003)	(2003)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1999 - 2004

ANNUAL TOTAL	7,744	7,358	
ANNUAL MEAN	21.2	20.1	21.8
HIGHEST ANNUAL MEAN			24.3
LOWEST ANNUAL MEAN			19.8
HIGHEST DAILY MEAN	192	May 11	370
LOWEST DAILY MEAN	16	Jul 28, 29	16
ANNUAL SEVEN-DAY MINIMUM	17	(a)Jul 23	17
MAXIMUM PEAK FLOW			777
MAXIMUM PEAK STAGE			(c)6.44
INSTANTANEOUS LOW FLOW			16
ANNUAL RUNOFF (CFSM)	2.87	2.72	2.95
ANNUAL RUNOFF (INCHES)	38.93	36.99	40.07
10 PERCENT EXCEEDS	23	21	24
50 PERCENT EXCEEDS	18	18	19
90 PERCENT EXCEEDS	17	18	18

(a) Also occurred additional days

(b) Also occurred July 28, 29, 2003, and Feb. 17, 2000, estimated

(c) 7.18 ft, July 5, 1999, from crest-stage gage

STREAMS TRIBUTARY TO LAKE SUPERIOR

040263491 NORTH FISH CREEK NEAR MOQUAH, WI

LOCATION.--Lat 46°32'56", long 91°03'43", in SW ¼ SE ¼ sec.13, T.47 N., R.6 W., Bayfield County, Hydrologic Unit 04010301, on left bank just downstream from bridge on old U.S. Highway 2, and 1.3 mi southeast of Moquah.

DRAINAGE AREA.--65.4 mi<sup>2</sup>, of which 27.1 mi<sup>2</sup> is noncontributing (revised).

PERIOD OF RECORD.--October 1989 to September 1991, October 1994 to September 1997, July 2000 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 660 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good (see page 13). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	51	50	51	51	52	153	62	140	52	51	54
2	51	51	50	51	51	52	155	60	94	52	50	53
3	51	51	50	50	49	52	168	59	76	52	50	52
4	50	54	50	49	50	51	140	58	67	54	49	51
5	50	52	50	46	49	53	117	58	83	52	49	57
6	50	51	50	51	50	52	122	57	156	51	49	57
7	50	50	51	52	50	52	109	57	91	52	50	55
8	50	50	52	51	49	51	109	57	81	51	51	53
9	50	50	51	50	50	52	93	57	76	50	53	52
10	50	51	52	50	50	54	84	55	68	50	52	52
11	52	52	51	50	50	55	81	55	63	53	53	51
12	52	56	50	49	50	54	76	59	64	51	51	52
13	51	54	51	49	50	54	73	63	61	51	50	51
14	51	53	51	51	49	53	72	66	60	50	49	54
15	50	52	51	50	53	53	71	62	59	50	49	65
16	50	52	51	50	51	53	70	62	73	50	52	69
17	50	52	50	50	50	53	68	240	65	50	51	61
18	50	53	50	49	50	53	181	137	59	50	51	55
19	50	53	50	49	50	53	515	93	56	50	50	54
20	50	52	50	50	51	54	172	83	55	50	50	53
21	50	51	51	50	50	53	170	73	55	50	50	54
22	50	52	50	50	51	54	128	69	54	49	53	53
23	50	55	50	53	50	54	93	112	56	49	51	52
24	51	53	50	50	50	57	79	167	55	49	51	52
25	50	52	50	49	50	67	112	101	54	49	51	51
26	50	52	50	49	50	157	100	82	53	49	82	52
27	50	51	51	50	50	208	81	79	53	49	77	51
28	53	51	52	46	51	671	76	72	53	53	62	51
29	51	51	52	52	51	429	69	66	52	57	57	51
30	53	51	51	54	---	222	65	199	53	53	57	51
31	52	---	51	54	---	164	---	329	---	53	55	---
TOTAL	1,568	1,559	1,569	1,555	1,456	3,192	3,602	2,849	2,085	1,581	1,656	1,619
MEAN	50.6	52.0	50.6	50.2	50.2	103	120	91.9	69.5	51.0	53.4	54.0
MAX	53	56	52	54	53	671	515	329	156	57	82	69
MIN	50	50	50	46	49	51	65	55	52	49	49	51
CFSM	1.32	1.36	1.32	1.31	1.31	2.69	3.13	2.40	1.81	1.33	1.39	1.41
IN.	1.52	1.51	1.52	1.51	1.41	3.10	3.50	2.77	2.03	1.54	1.61	1.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2004, BY WATER YEAR (WY)

MEAN	70.0	65.0	55.2	53.8	54.6	91.6	180	87.6	68.0	72.3	56.7	69.1
MAX	110	102	68.6	63.7	64.1	141	374	114	97.6	155	74.4	135
(WY)	(1991)	(1997)	(2002)	(1997)	(1997)	(1990)	(2001)	(2003)	(1991)	(1996)	(1990)	(1990)
MIN	50.6	52.0	49.0	49.4	49.5	59.3	87.8	59.6	54.6	51.0	49.6	50.4
(WY)	(2004)	(2004)	(2001)	(2001)	(2003)	(2001)	(1990)	(1990)	(2003)	(2004)	(2003)	(2003)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1990 - 2004

ANNUAL TOTAL	23,156	24,291		
ANNUAL MEAN	63.4	66.4	77.3	
HIGHEST ANNUAL MEAN			87.9	1996
LOWEST ANNUAL MEAN			66.4	2004
HIGHEST DAILY MEAN	661	May 11	671	Mar 28
LOWEST DAILY MEAN	48	(a)Jan 13	46	Jan 5, 28
ANNUAL SEVEN-DAY MINIMUM	48	Mar 7	49	Jul 21
MAXIMUM PEAK FLOW			1,120	Apr 19
MAXIMUM PEAK STAGE			10.75	Apr 19
INSTANTANEOUS LOW FLOW			(d)36	Feb 4
ANNUAL RUNOFF (CFSM)	1.66	1.73		
ANNUAL RUNOFF (INCHES)	22.49	23.59		
10 PERCENT EXCEEDS	70	83		99
50 PERCENT EXCEEDS	51	52		56
90 PERCENT EXCEEDS	49	50		50

(a) Also occurred additional days

(b) Also occurred Jan. 2, 1995, estimated

(c) Also occurred Mar. 7, 2003, and Dec. 29, 1994, estimated

(d) Result of freezeup

(f) Also occurred Feb. 21, 2001

## STREAMS TRIBUTARY TO LAKE SUPERIOR

## 04027000 BAD RIVER NEAR ODANAH, WI

LOCATION.--Lat 46°29'12", long 90°41'46", in NE ¼ NE ¼ sec.11 (revised), T.46 N., R.3 W., Ashland County, Hydrologic Unit 04010302, Bad River Indian Reservation, on left bank just downstream from Elm Hoist bridge, 5.0 mi downstream from Potato River, 8.5 mi south of Odanah, and 23 mi from mouth.

DRAINAGE AREA.--597 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1914 to December 1922 (monthly discharge for some periods published in WSP 1307) May 1948 to current year.

REVISED RECORDS.--WSP 1337: 1922. WDR WI-82-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 668.3 ft above NGVD of 1929. May 17, 1948, to Nov. 6, 1959, and Oct. 19, 1960, to Nov. 23, 1961, water-stage recorder. Nov. 7, 1959, to Oct. 18, 1960, and Nov. 24, 1961, to July 12, 1962, nonrecording gage. Prior to Nov. 11, 1922, water-stage recorder at site 2 mi downstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see page 11). Gage-height telemeter at station.

EXTREMES OUTSIDE THE PERIOD OF RECORD.--Flood of June 24, 1946, reached a stage of at least 22.2 ft, top of former downstream bridge submerged, information from Indian Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	446	e210	e230	e120	e150	2,810	761	1,710	184	256	334
2	194	397	e190	e240	e130	e160	2,380	657	1,450	175	217	296
3	181	344	e180	e250	e140	e180	2,270	573	1,120	164	183	257
4	177	317	e190	e220	e130	e250	2,080	519	839	407	162	226
5	170	320	e200	e200	e130	e330	1,840	471	681	645	145	223
6	165	305	e210	e180	e130	e320	1,790	435	1,540	494	134	777
7	161	e220	e210	e160	e130	e330	1,920	398	1,420	420	126	911
8	158	e200	e210	e150	e130	e310	1,960	363	1,010	377	126	661
9	149	e200	e220	e140	e130	e300	1,900	340	872	321	165	491
10	142	e260	e220	e140	e130	e300	1,620	326	876	275	269	383
11	141	262	e210	e150	e130	e330	1,370	310	708	242	423	319
12	170	261	e200	e150	e130	e320	1,130	291	630	254	859	278
13	213	241	e200	e140	e130	e340	947	323	602	225	659	243
14	215	280	e210	e130	e140	e360	837	1,030	569	207	467	217
15	201	284	e220	e130	e130	e370	771	1,170	540	187	348	256
16	186	285	e230	e130	e120	e360	735	928	480	171	282	674
17	176	310	e230	e130	e120	e350	719	1,440	463	159	251	564
18	171	359	e220	e140	e120	e340	1,290	1,840	404	149	230	441
19	167	420	e220	e130	e120	e330	6,300	1,320	347	143	215	354
20	163	413	e210	e120	e120	e330	6,830	1,040	302	241	198	297
21	161	373	e210	e120	e120	e320	4,790	901	269	239	176	261
22	161	334	e220	e120	e120	e300	3,400	750	249	186	168	240
23	163	303	e210	e120	e120	e330	2,350	758	240	160	159	223
24	162	e230	e200	e120	e130	e330	1,700	2,600	269	143	150	211
25	167	e230	e180	e120	e140	e420	1,570	2,220	279	131	150	207
26	176	e280	e190	e120	e130	e1,700	1,750	1,620	258	123	1,540	198
27	182	e280	e200	e120	e130	e3,000	1,500	1,370	234	116	1,200	192
28	192	e270	e250	e120	e140	e5,600	1,260	1,330	216	113	707	185
29	233	e250	e300	e120	e150	7,650	1,060	1,060	199	155	493	178
30	301	e230	e330	e110	---	5,580	890	896	184	286	397	170
31	418	---	e300	e120	---	3,540	---	1,520	---	263	383	---
TOTAL	5,829	8,904	6,780	4,570	3,740	34,830	61,769	29,560	18,960	7,355	11,238	10,267
MEAN	188	297	219	147	129	1,124	2,059	954	632	237	363	342
MAX	418	446	330	250	150	7,650	6,830	2,600	1,710	645	1,540	911
MIN	141	200	180	110	120	150	719	291	184	113	126	170
CFSM	0.31	0.50	0.37	0.25	0.22	1.88	3.45	1.60	1.06	0.40	0.61	0.57
IN.	0.36	0.55	0.42	0.28	0.23	2.17	3.85	1.84	1.18	0.46	0.70	0.64

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2004, BY WATER YEAR (WY)

MEAN	468	512	293	189	198	678	2,223	1,064	637	478	301	346
MAX	1,861	2,151	638	410	713	2,494	4,320	2,752	2,054	2,311	1,565	1,775
(WY)	(1986)	(1992)	(1992)	(1992)	(1984)	(1973)	(2001)	(1950)	(1951)	(1949)	(1972)	(1977)
MIN	67.1	95.2	107	95.0	69.3	113	513	202	121	77.9	68.2	74.3
(WY)	(1949)	(1949)	(1977)	(1917)	(1964)	(1917)	(1987)	(1998)	(1948)	(1964)	(1948)	(1976)

## STREAMS TRIBUTARY TO LAKE SUPERIOR

04027000 BAD RIVER NEAR ODANAH, WI—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1914 - 2004	
ANNUAL TOTAL	204,763		203,802			
ANNUAL MEAN	561		557		618	
HIGHEST ANNUAL MEAN					942 1983	
LOWEST ANNUAL MEAN					346 1990	
HIGHEST DAILY MEAN	18,800	May 12	7,650	Mar 29	22,000	Apr 24, 1960
LOWEST DAILY MEAN	93	Sep 11	(a)110	Jan 30	52	(b)Oct 1, 1948
ANNUAL SEVEN-DAY MINIMUM	98	Sep 6	(a)119	Jan 24	54	Feb 19, 1964
MAXIMUM PEAK FLOW			8,020	Mar 29	(c)27,700	Apr 24, 1960
MAXIMUM PEAK STAGE			11.30	Mar 29	(d)21.70	Apr 24, 1960
INSTANTANEOUS LOW FLOW			108	Jul 28	(f)34	Nov 8, 1976
ANNUAL RUNOFF (CFSM)	0.940		0.933		1.03	
ANNUAL RUNOFF (INCHES)	12.76		12.70		14.06	
10 PERCENT EXCEEDS	1,040		1,380		1,420	
50 PERCENT EXCEEDS	202		250		275	
90 PERCENT EXCEEDS	120		130		120	

(a) Ice affected

(b) Also occurred Aug. 6, 7, 1964

(c) From rating curve extended above 12,000 ft<sup>3</sup>/s and a comparison with contracted-opening measurement of peak flow 45,600 ft<sup>3</sup>/s at Odanah, drainage area, 990 mi<sup>2</sup>

(d) From floodmarks

(e) Estimated due to ice effect or missing record

(f) Result of freezeup

STREAMS TRIBUTARY TO LAKE SUPERIOR

04027500 WHITE RIVER NEAR ASHLAND, WI

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LOCATION.--Lat 46°29'54", long 90°54'11"(revised), in NE 1/4 NE 1/4 sec.6, T.46 N., R.4 W., Ashland County, Hydrologic Unit 04010302, at downstream end of powerplant of Lake Superior District Power Co., 0.3 mi downstream from bridge on State Highway 112 over dam, and 4.5 mi south of Ashland city limits.

DRAINAGE AREA.--301 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1948 to current year.

REVISED RECORDS.--WDR WI-82-1: Drainage area. WDR WI-92-1: 1952-53(M), 1960(M), 1967(M), 1972(M), and 1978(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 660.15 ft above NGVD of 1929 (Lake Superior District Power Co. bench mark). Prior to May 20, 1976, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair (see page 11). Diurnal fluctuation caused by hydroelectric plant at gage. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	199	186	154	e170	203	864	224	523	161	e160	189
2	167	191	148	161	e180	220	660	227	603	180	e170	158
3	173	186	136	202	e180	209	626	200	542	170	e170	198
4	166	186	179	171	e180	215	585	194	411	171	e160	182
5	173	189	200	100	e170	206	531	190	323	174	e160	179
6	169	189	204	139	e170	202	517	186	499	235	e160	194
7	166	182	192	152	e180	193	474	159	448	181	e160	224
8	169	143	187	190	e170	196	482	171	551	189	e160	217
9	167	147	188	186	e170	197	453	172	490	166	e180	199
10	166	192	213	180	e170	211	392	172	393	166	e180	184
11	168	198	150	179	e170	205	358	175	335	166	e200	179
12	178	193	115	182	e170	200	321	166	299	164	e210	175
13	178	194	130	183	e180	201	290	163	265	190	e210	171
14	179	192	187	181	e180	200	256	187	245	159	e210	e180
15	180	187	222	174	e170	198	262	203	229	156	e210	e180
16	179	186	206	182	e150	197	248	191	231	155	e180	238
17	165	187	186	181	e160	198	227	360	202	149	e180	267
18	178	191	186	181	e170	197	407	421	209	145	e180	254
19	178	199	196	e130	e170	197	1,920	433	201	151	e180	217
20	169	195	172	e150	e180	197	861	421	189	140	e170	194
21	168	189	163	e160	194	180	1,020	350	175	139	e170	183
22	176	186	184	e160	189	195	857	283	165	139	e170	167
23	172	188	200	e160	185	179	645	331	184	139	e170	174
24	179	160	175	e160	190	195	474	675	184	e150	e170	178
25	169	136	130	e160	190	199	426	465	186	e150	e170	180
26	179	182	148	e170	191	596	423	492	184	e150	e180	178
27	170	233	200	e180	205	738	386	430	181	e150	e240	173
28	179	217	229	e180	189	1,870	338	383	157	e160	e240	161
29	161	198	243	e170	202	1,490	304	350	175	e170	e240	168
30	182	192	214	e160	---	1,250	271	334	161	e160	e260	163
31	192	---	210	e160	---	980	---	677	---	e160	e260	---
TOTAL	5,366	5,607	5,679	5,178	5,175	11,914	15,878	9,385	8,940	5,035	5,860	5,704
MEAN	173	187	183	167	178	384	529	303	298	162	189	190
MAX	192	233	243	202	205	1,870	1,920	677	603	235	260	267
MIN	161	136	115	100	150	179	227	159	157	139	160	158
CFSM	0.58	0.62	0.61	0.55	0.59	1.28	1.76	1.01	0.99	0.54	0.63	0.63
IN.	0.66	0.69	0.70	0.64	0.64	1.47	1.96	1.16	1.10	0.62	0.72	0.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2004, BY WATER YEAR (WY)

	235	246	203	186	194	307	593	360	283	264	226	234
MEAN	235	246	203	186	194	307	593	360	283	264	226	234
MAX	445	509	311	248	318	666	1,330	867	707	697	744	635
(WY)	(1983)	(1992)	(2002)	(1952)	(1984)	(1973)	(2001)	(1950)	(1952)	(1953)	(1972)	(1960)
MIN	152	160	150	146	136	178	231	175	140	142	147	146
(WY)	(1949)	(1977)	(1964)	(1991)	(1968)	(1965)	(2000)	(1998)	(1948)	(1988)	(1948)	(1948)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1948 - 2004

ANNUAL TOTAL	90,114	89,721	
ANNUAL MEAN	247	245	278
HIGHEST ANNUAL MEAN			426
LOWEST ANNUAL MEAN			210
HIGHEST DAILY MEAN	2,070	May 11	4,100
LOWEST DAILY MEAN	95	Jan 12	61
ANNUAL SEVEN-DAY MINIMUM	(a)147	Jan 11	68
MAXIMUM PEAK FLOW			(b)8,100
MAXIMUM PEAK STAGE			7.90
ANNUAL RUNOFF (CFSM)	0.820		0.924
ANNUAL RUNOFF (INCHES)	11.14		12.56
10 PERCENT EXCEEDS	372		463
50 PERCENT EXCEEDS	187		208
90 PERCENT EXCEEDS	160		160

(a) Ice affected

(b) From rating curve extended above 3,000 ft<sup>3</sup>/s

(c) Estimated due to ice effect or missing record



04029990 MONTREAL RIVER AT SAXON FALLS NEAR SAXON, WI

LOCATION.--Lat 46°32'13", long 90°22'47", in SW ¼ NW ¼ sec.21, T.47 N., R.1 E., Iron County, Hydrologic Unit 04010302, at Saxon Falls powerhouse, 3.4 mi northeast of Saxon, and 3.8 mi upstream from mouth.

DRAINAGE AREA.--262 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1938 to September 1970, October 1986 to current year. Published as "Montreal River near Saxon" (04030000), September 1938 to September 1970.

REVISED RECORDS.--WSP 894: 1938-39. WSP 924: 1939-40. WSP 1307: 1948(M). WSP 1627: 1958.

GAGE.--Headwater and tailwater gages read by Northern States Power Company. September 1938 to September 1970, water-stage recorder at site 1.8 mi downstream at elevation of 760 ft above NGVD of 1929 (from Power Company data).

REMARKS.--Diurnal fluctuation caused by Saxon Falls powerplant. Flow regulated by Gile Reservoir on West Branch Montreal River (capacity 1,290,000,000 ft<sup>3</sup>/s) since April 1941.

COOPERATION.--Records were provided by Northern States Power Company and reviewed by the Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	188	83	173	83	101	1,220	470	1,130	195	142	121
2	71	188	109	110	89	129	1,110	470	950	190	129	106
3	65	124	48	131	95	165	1,120	371	745	190	122	100
4	65	112	89	131	95	169	1,120	325	678	190	120	100
5	65	112	102	149	89	174	862	220	526	190	120	100
6	65	112	95	149	95	165	869	205	526	210	119	100
7	65	106	95	131	95	165	1,120	200	795	205	119	141
8	59	71	71	109	95	161	1,180	205	585	205	119	123
9	59	71	89	101	95	149	1,180	205	475	185	107	88
10	53	96	93	101	102	149	995	205	530	190	184	106
11	47	95	95	101	102	171	995	188	375	190	189	106
12	47	89	83	101	102	155	617	183	375	195	359	106
13	47	105	83	95	102	183	530	220	375	203	249	59
14	59	95	83	101	89	155	470	649	235	205	249	59
15	59	105	101	95	89	177	470	498	235	190	249	71
16	59	105	101	95	102	173	455	498	205	190	106	107
17	53	129	101	95	83	167	505	435	220	190	112	82
18	96	125	95	95	95	167	505	585	205	190	160	82
19	53	189	89	101	101	155	2,800	470	205	188	136	82
20	58	205	77	95	102	155	3,140	395	205	200	107	76
21	53	188	77	95	95	155	2,510	345	190	183	107	65
22	53	167	77	102	95	125	1,920	345	190	183	107	53
23	47	167	83	77	101	143	1,500	345	198	178	103	55
24	53	95	83	89	95	155	1,140	905	205	178	107	53
25	56	89	83	89	101	167	1,140	950	198	178	101	53
26	56	131	60	95	95	486	1,120	720	198	193	507	53
27	64	131	83	95	95	870	955	615	198	178	383	59
28	70	131	83	71	95	870	795	605	195	190	383	53
29	107	89	230	83	95	3,130	720	530	195	148	383	41
30	132	89	167	83	---	2,500	545	530	195	142	183	52
31	168	---	173	83	---	1,500	---	530	---	142	130	---
TOTAL	2,080	3,699	2,981	3,221	2,767	13,286	33,608	13,417	11,537	5,784	5,691	2,452
MEAN	67.1	123	96.2	104	95.4	429	1,120	433	385	187	184	81.7
MAX	168	205	230	173	102	3,130	3,140	950	1,130	210	507	141
MIN	47	71	48	71	83	101	455	183	190	142	101	41
CFSM	0.26	0.47	0.37	0.40	0.36	1.64	4.28	1.65	1.47	0.71	0.70	0.31
IN.	0.30	0.53	0.42	0.46	0.39	1.89	4.77	1.91	1.64	0.82	0.81	0.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

MEAN	200	242	176	160	157	318	1,016	530	359	283	193	187
MAX	566	800	391	295	321	888	2,388	1,180	1,172	1,068	432	894
(WY)	(2003)	(1992)	(1952)	(1969)	(1969)	(1945)	(2002)	(1954)	(1939)	(1992)	(1953)	(1941)
MIN	38.2	34.2	38.1	27.8	21.0	55.4	213	127	101	74.1	36.1	33.6
(WY)	(1949)	(1949)	(1949)	(1949)	(1949)	(1940)	(1987)	(1941)	(1987)	(1987)	(1987)	(1939)

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL TOTAL	118,380		100,523			
ANNUAL MEAN	324		275		318	
HIGHEST ANNUAL MEAN					487	
LOWEST ANNUAL MEAN					85.7	
HIGHEST DAILY MEAN	8,520	May 12	3,140	Apr 20	9,880	Jul 3, 1992
LOWEST DAILY MEAN	20	Sep 4	41	Sep 29	7.2	Oct 24, 1948
ANNUAL SEVEN-DAY MINIMUM	49	Sep 4	52	Sep 24	7.7	Oct 29, 1948
ANNUAL RUNOFF (CFSM)	1.24		1.05		1.21	
ANNUAL RUNOFF (INCHES)	16.81		14.27		16.51	
10 PERCENT EXCEEDS	480		627		643	
50 PERCENT EXCEEDS	119		131		191	
90 PERCENT EXCEEDS	59		65		85	

STREAMS TRIBUTARY TO LAKE SUPERIOR

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04037500 CISCO BRANCH ONTONAGON RIVER AT CISCO LAKE OUTLET, MI

LOCATION.--Lat 46°15'12", long 89°27'05", in NE ¼ sec.32, T.45 N., R.41 W., Gogebic County, Hydrologic Unit 04020102, on left bank 80 ft downstream from Cisco Lake Dam, 2.5 mi upstream from Langford Creek, 5.0 mi upstream from U.S. Highway 2, and 13 mi west of Watersmeet.

DRAINAGE AREA.--50.7 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1944 to current year.

REVISED RECORDS.--WSP 1911: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,672.69 ft above sea level. Prior to Oct. 1, 1968, nonrecording gage at same site and at datum 4.00 ft higher.

REMARKS.--Records good except for discharges below 3.0 ft<sup>3</sup>/s, which are poor (see page 11). Flow regulated by Cisco Lake (station 04037400). Several measurements of water temperature were made during the year. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	93	17	2.2	12	12	41	178	91	e6.0	0.68	e0.07
2	54	61	17	2.2	27	16	19	172	53	21	0.69	e0.07
3	38	45	17	2.1	53	21	20	167	15	21	0.57	e0.07
4	13	37	17	2.1	63	43	21	119	15	20	0.50	e0.07
5	13	42	17	15	61	89	47	68	43	21	0.43	e0.07
6	14	42	17	37	40	114	88	47	92	21	0.40	28
7	14	40	17	42	19	112	124	23	125	20	0.37	62
8	18	41	17	41	19	78	147	23	124	20	0.37	61
9	31	40	29	41	19	24	157	24	44	21	0.37	59
10	36	27	86	41	20	11	153	22	5.5	21	0.40	59
11	32	11	115	40	20	12	152	56	4.3	21	5.5	40
12	32	11	80	40	20	29	95	90	3.6	21	15	16
13	32	11	43	40	20	44	58	105	2.7	33	20	17
14	30	11	42	41	20	45	31	116	2.2	29	19	16
15	23	12	33	41	21	67	13	116	8.0	8.0	19	58
16	6.2	12	21	40	34	87	17	115	17	3.6	18	79
17	1.9	38	21	40	41	85	22	83	20	3.5	19	18
18	1.5	110	21	40	30	59	e70	44	19	3.2	31	17
19	0.44	153	23	40	15	24	204	21	18	2.7	25	19
20	0.41	162	25	35	28	11	217	22	18	1.8	4.2	18
21	0.32	92	25	29	42	11	219	22	11	1.2	0.63	13
22	0.33	42	25	29	42	11	213	22	1.7	0.95	0.22	8.1
23	0.33	43	25	29	67	11	212	24	1.3	0.73	0.19	4.7
24	0.32	44	25	29	76	11	207	55	1.3	0.73	e0.07	e0.07
25	0.34	44	25	29	54	16	207	100	1.1	0.70	e0.07	e0.07
26	0.32	43	47	29	34	57	201	116	0.99	0.64	e0.07	e0.07
27	9.1	43	63	29	18	103	198	116	0.91	0.58	e0.07	e0.07
28	37	43	62	19	11	139	196	86	0.82	0.61	e0.07	e0.07
29	73	43	41	11	11	158	188	65	0.76	0.61	e0.07	e0.07
30	112	33	15	11	---	155	186	78	0.70	0.63	e0.07	e0.07
31	137	---	8.4	11	---	103	---	91	---	0.70	e0.07	---
TOTAL	801.51	1,469	1,036.4	877.6	937	1,758	3,723	2,386	740.88	326.88	182.08	593.64
MEAN	25.9	49.0	33.4	28.3	32.3	56.7	124	77.0	24.7	10.5	5.87	19.8
MAX	137	162	115	42	76	158	219	178	125	33	31	79
MIN	0.32	11	8.4	2.1	11	11	13	21	0.70	0.58	0.07	0.07
CFSM	0.51	0.97	0.66	0.56	0.64	1.12	2.45	1.52	0.49	0.21	0.12	0.39
IN.	0.59	1.08	0.76	0.64	0.69	1.29	2.73	1.75	0.54	0.24	0.13	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2004, BY WATER YEAR (WY)

MEAN	66.2	65.1	46.8	38.5	34.9	44.2	64.6	49.6	44.2	31.7	24.8	35.8
MAX	151	116	84.1	62.6	81.0	92.1	156	160	123	113	99.7	104
(WY)	(1986)	(1968)	(1961)	(1983)	(1945)	(1973)	(2002)	(1996)	(1953)	(1953)	(1978)	(1977)
MIN	13.1	14.5	23.5	23.1	20.6	24.1	2.02	0.17	0.11	0.25	0.15	0.23
(WY)	(1958)	(1945)	(1990)	(1959)	(1950)	(1956)	(1948)	(1977)	(1977)	(1977)	(1970)	(1976)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1945 - 2004

ANNUAL TOTAL	15,025.76		14,831.99		
ANNUAL MEAN	41.2		40.5		45.5
HIGHEST ANNUAL MEAN					65.9
LOWEST ANNUAL MEAN					25.2
HIGHEST DAILY MEAN	239	May 13	219	Apr 21	288
LOWEST DAILY MEAN	0.24	Sep 4	0.07	(a)	0.07
ANNUAL SEVEN-DAY MINIMUM	0.24	Sep 3	0.07	Aug 24	0.07
MAXIMUM PEAK FLOW			223	Apr 20	288
MAXIMUM PEAK STAGE			5.78	Apr 20	(b)6.10
ANNUAL RUNOFF (CFSM)	0.812		0.799		0.898
ANNUAL RUNOFF (INCHES)	11.02		10.88		12.20
10 PERCENT EXCEEDS	111		113		103
50 PERCENT EXCEEDS	23		22		36
90 PERCENT EXCEEDS	0.41		0.48		0.90

(a) Aug. 24 to Sept. 5, Sept. 24-30, 2004.

(b) Present datum.

(c) Estimated.