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# CENTRAL WISCONSIN RIVER BASIN

## 05394500 PRAIRIE RIVER NEAR MERRILL, WI

LOCATION.--Lat 45°14'09", long 89°38'59", in SW ¼ SW ¼ sec. 20, T.32 N., R.7 E., Lincoln County, Hydrologic Unit 07070002, on left bank 40 ft upstream from bridge on County Trunk Highway C, 1.5 mi upstream from Meadow Creek, 4.5 mi northeast of Merrill, and 8.0 mi upstream from mouth.

DRAINAGE AREA.--184 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1914 to September 1931, August 1939 to current year. Monthly discharge for some periods published in WSP 1308.

REVISED RECORDS.--WSP 1308: 1915-17(M), 1919-21(M), 1923-31(M), 1942-43(M), 1945(M), 1948-50(M). WDR WI-77-1: Drainage area. WDR WI-79-1: 1972.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,297.22 ft above NGVD of 1929. Prior to Oct. 9, 1968, nonrecording gage 40 ft downstream at same datum.

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	106	107	e89	e84	e68	99	896	200	576	97	102	79
2	102	106	e75	e98	e70	113	842	182	503	95	123	79
3	104	105	e87	e85	e70	112	781	165	386	97	111	77
4	106	116	e90	e70	e68	103	665	154	274	127	115	76
5	104	131	e90	e72	e70	e100	542	145	219	127	101	76
6	101	131	e90	e62	e70	e92	503	138	212	133	92	79
7	100	110	e85	e66	e70	e94	521	132	194	171	88	80
8	98	100	e84	e68	e68	e90	544	172	175	158	88	80
9	97	109	e84	e66	e70	e94	515	210	232	135	106	78
10	96	108	e86	e64	e70	e90	453	285	307	122	106	77
11	97	106	e63	e66	e68	e96	386	278	275	113	106	76
12	112	108	e94	e68	e66	e100	323	230	346	111	109	76
13	118	104	e92	e68	e64	e98	275	258	480	107	104	75
14	113	104	e91	e66	e64	e90	249	334	657	104	99	75
15	106	109	e88	e64	e64	e100	236	350	528	95	91	170
16	102	103	e86	e62	e66	100	234	295	360	93	89	235
17	100	105	e91	e64	e68	98	282	242	289	92	92	191
18	100	152	e93	e62	e70	97	323	210	264	91	92	143
19	98	197	e96	e64	e70	97	401	181	209	89	91	119
20	98	178	94	e66	e68	96	445	161	172	120	88	106
21	97	153	100	e66	e70	95	434	148	155	104	85	98
22	97	139	100	e64	82	93	398	145	146	97	83	92
23	99	133	100	e64	83	99	339	285	134	92	82	88
24	98	132	87	e66	85	100	281	545	128	89	81	89
25	97	e106	86	e66	87	111	267	460	126	85	82	88
26	97	e123	92	e66	85	208	280	344	120	84	84	86
27	96	e110	100	e68	83	455	262	294	119	83	86	87
28	103	e106	112	e68	85	1,060	239	289	118	81	83	86
29	111	e103	113	e66	91	1,500	218	238	108	80	81	83
30	113	e97	103	e68	---	1,260	208	245	101	81	81	83
31	110	---	93	e68	---	992	---	456	---	96	80	---
TOTAL	3,176	3,591	2,834	2,115	2,113	7,932	12,342	7,771	7,913	3,249	2,901	2,927
MEAN	102	120	91.4	68.2	72.9	256	411	251	264	105	93.6	97.6
MAX	118	197	113	98	91	1,500	896	545	657	171	123	235
MIN	96	97	63	62	64	90	208	132	101	80	80	75
CFSM	0.56	0.65	0.50	0.37	0.40	1.39	2.24	1.36	1.43	0.57	0.51	0.53
IN.	0.64	0.73	0.57	0.43	0.43	1.60	2.50	1.57	1.60	0.66	0.59	0.59

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

MEAN	166	167	112	91.5	89.8	188	434	259	209	136	131	170
MAX	527	388	199	169	158	676	899	723	598	401	494	656
(WY)	(1942)	(1920)	(1992)	(1960)	(1930)	(1973)	(1916)	(1960)	(1993)	(1978)	(1926)	(1941)
MIN	70.8	76.7	66.1	60.5	63.0	68.2	106	98.8	70.6	68.3	68.1	65.1
(WY)	(1990)	(1951)	(1990)	(1925)	(2003)	(1956)	(1990)	(1931)	(1988)	(1989)	(1957)	(1989)

## 05394500 PRAIRIE RIVER NEAR MERRILL, WI—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1914 - 2004	
ANNUAL TOTAL	59,171		58,864		179	
ANNUAL MEAN	162		161		272	
HIGHEST ANNUAL MEAN					108	
LOWEST ANNUAL MEAN					1931	
HIGHEST DAILY MEAN	1,360	Apr 17	1,500	Mar 29	4,200	Aug 31, 1941
LOWEST DAILY MEAN	(a)54	Jan 20-24	(a)62	(b)Jan 6	35	Oct 26, 1947
ANNUAL SEVEN-DAY MINIMUM	(a)55	Jan 18	(a)64	Jan 14	52	Dec 28, 1948
MAXIMUM PEAK FLOW			1,580	Mar 29	(c)5,800	Aug 31, 1941
MAXIMUM PEAK STAGE			6.02	Mar 29	(d)9.45	Aug 31, 1941
INSTANTANEOUS LOW FLOW			59	Jan 6	34	Oct 26, 1947
ANNUAL RUNOFF (CFSM)	0.881		0.874		0.974	
ANNUAL RUNOFF (INCHES)	11.96		11.90		13.24	
10 PERCENT EXCEEDS	308		323		344	
50 PERCENT EXCEEDS	100		100		115	
90 PERCENT EXCEEDS	62		68		76	

(a) Ice affected

(b) Also occurred Jan. 16, 18

(c) Based on rating curve extended above 2,200 ft<sup>3</sup>/s

(d) From floodmarks

(e) Estimated due to ice effect or missing record

WISCONSIN RIVER BASIN

05395000 WISCONSIN RIVER AT MERRILL, WI

463

LOCATION (revised).--Lat 45°10'42", long 89°40'54", SW ¼ SE ¼ sec 12, T.31 N., R.6 E., Lincoln County, Hydrologic Unit 07070002, on left bank 300 ft downstream from U.S. Highway 51 bridge at east end of Merrill, and 0.5 mi downstream from Prairie River.

DRAINAGE AREA.--2,760 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1902 to current year. Monthly discharge data for some periods from December 1902 to September 1909 published in WSP 1308. Mostly seasonal unpublished daily discharge records from December 1902 to September 1905 in District files.

REVISED RECORDS.--WSP 1308: 1904-7, 1909-11, 1913. WSP 1508: 1908, 1915-16(M), 1917, 1920-21(M), 1925(M), 1930, 1935-36. WDR WI-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,228.85 ft above NGVD of 1929. Prior to June 18, 1903, nonrecording gage at different datum. June 18, 1903, to Sept. 10, 1914, non recording gage at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair (see page 11). Flow regulated by 20 reservoirs and 9 powerplants upstream from station. 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	1,560	1,330	1,270	1,780	e1,600	e1,800	7,230	3,850	5,100	1,530	1,290	1,300
2	1,110	1,250	1,420	1,700	e1,700	e1,500	7,790	3,240	5,610	1,800	1,660	1,270
3	1,070	1,270	1,350	1,670	e1,700	e1,400	8,090	2,930	4,250	1,680	1,600	1,190
4	1,320	1,710	1,430	1,680	e1,700	e1,800	7,800	2,490	4,460	1,720	1,590	1,150
5	1,370	1,610	1,420	1,310	e1,600	e2,000	6,390	2,430	3,650	1,880	1,430	1,360
6	1,040	1,430	1,580	1,420	e1,600	e2,000	5,790	2,460	3,610	1,920	1,290	1,320
7	1,240	1,200	1,360	1,440	e1,400	e1,700	5,880	2,450	3,160	2,120	1,480	1,350
8	1,230	1,180	1,570	1,760	e1,500	e1,800	5,980	2,570	3,060	1,760	1,610	1,220
9	1,340	1,340	1,730	1,780	e1,700	e1,600	5,190	2,670	3,960	1,900	1,680	1,240
10	1,260	1,250	1,870	1,550	e1,600	e1,800	4,460	3,270	4,800	1,670	1,480	1,280
11	1,180	1,440	1,580	1,440	e1,600	e1,600	4,280	3,300	4,270	1,860	1,490	1,170
12	1,570	1,320	1,630	1,470	e1,700	e1,600	3,660	2,890	4,880	1,910	1,640	1,210
13	1,260	1,560	1,420	1,500	e1,800	e1,600	2,760	3,920	4,860	1,580	1,500	1,220
14	1,330	1,280	1,710	1,750	e1,700	e1,600	3,050	5,200	5,230	1,800	1,430	1,200
15	958	1,250	1,670	1,670	e1,600	e1,500	2,710	4,870	4,140	1,610	1,450	2,160
16	941	1,270	1,930	1,770	e1,600	e1,600	2,680	4,490	3,730	1,550	1,430	2,120
17	1,190	1,290	1,480	1,680	e1,600	e1,500	3,010	3,990	3,440	1,350	1,610	1,510
18	1,170	1,680	1,730	1,730	e1,600	e1,700	2,760	3,300	2,560	1,480	1,400	1,500
19	1,270	2,030	1,580	1,770	e1,600	e1,600	3,970	3,050	2,760	1,370	1,570	1,300
20	1,280	1,730	1,800	e1,800	e1,900	e1,700	4,530	2,950	2,110	1,600	1,330	984
21	1,360	1,780	1,730	e1,600	e1,800	e1,700	4,410	2,450	1,670	1,460	1,210	1,250
22	1,270	1,560	1,350	e1,700	e1,800	1,540	4,630	2,660	1,980	1,610	1,520	1,280
23	1,160	1,730	1,910	e1,700	e1,700	1,940	4,130	3,760	2,120	1,320	1,270	1,300
24	1,140	1,710	1,560	e1,700	e1,700	2,200	3,620	6,650	1,910	1,370	1,480	1,200
25	1,300	1,610	1,460	e1,800	e1,600	2,000	3,590	6,410	1,920	1,440	1,190	1,200
26	1,050	1,520	1,670	e1,700	e1,800	2,930	4,000	5,190	1,820	1,540	1,350	1,180
27	1,260	1,450	1,660	e1,700	e1,700	4,350	4,230	4,160	1,860	1,470	1,530	1,100
28	1,320	1,490	1,730	e1,800	e1,600	7,120	3,930	4,090	1,880	1,360	1,320	1,210
29	1,530	1,340	1,730	e1,600	e1,700	9,120	3,950	3,830	1,820	1,180	1,220	1,120
30	1,330	1,280	1,700	e1,700	---	9,650	4,030	3,570	1,810	1,450	1,220	1,030
31	1,370	---	1,600	e1,700	---	8,240	---	4,820	---	1,480	1,430	---
TOTAL	38,779	43,890	49,630	51,370	48,200	84,190	138,750	113,910	98,430	49,770	44,700	38,924
MEAN	1,251	1,463	1,601	1,657	1,662	2,716	4,625	3,675	3,281	1,605	1,442	1,297
MAX	1,570	2,030	1,930	1,800	1,900	9,650	8,090	6,650	5,610	2,120	1,680	2,160
MIN	941	1,180	1,270	1,310	1,400	1,400	2,680	2,430	1,670	1,180	1,190	984

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2004, BY WATER YEAR (WY)

MEAN	2,534	2,386	2,086	1,982	1,928	2,580	4,750	3,682	3,091	2,335	2,072	2,510
MAX	8,654	4,632	3,887	3,138	3,063	6,275	11,500	8,931	9,923	5,862	5,451	9,069
(WY)	(1912)	(1939)	(1992)	(1939)	(1932)	(1935)	(1916)	(1904)	(1905)	(1968)	(1912)	(1903)
MIN	760	775	913	957	961	1,071	1,348	1,082	810	724	719	873
(WY)	(1977)	(1977)	(1977)	(1990)	(1990)	(1908)	(1990)	(1987)	(1988)	(1988)	(1934)	(1987)

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1903 - 2004	
ANNUAL TOTAL	848,879		800,543			
ANNUAL MEAN	2,326		2,187		2,648	
HIGHEST ANNUAL MEAN					4,558	
LOWEST ANNUAL MEAN					1,348	
HIGHEST DAILY MEAN	17,500	May 12	9,650	Mar 30	36,400	Sep 1, 1941
LOWEST DAILY MEAN	941	Oct 16	941	Oct 16	90	Sep 26, 1908
ANNUAL SEVEN-DAY MINIMUM	1,160	Oct 13	1,150	(a)Sep 24	194	Sep 21, 1908
MAXIMUM PEAK FLOW			10,000	Apr 4	(b)49,400	Aug 31, 1941
MAXIMUM PEAK STAGE			9.04	Apr 4	18.26	Aug 31, 1941
10 PERCENT EXCEEDS	3,600		4,180		4,430	
50 PERCENT EXCEEDS	1,730		1,660		2,100	
90 PERCENT EXCEEDS	1,270		1,250		1,280	

(a) Also occurred Sept. 24

(b) From rating curve extended above 20,000 ft<sup>3</sup>/s

(c) Estimated due to ice effect or missing record

## WISCONSIN RIVER BASIN

05397500 EAU CLAIRE RIVER AT KELLY, WI

LOCATION (revised).--Lat 44°55'08", long 89°33'07", SE ¼ NE ¼ SE ¼ of sec. 9, T.28 N., R.8 E., Marathon County, Hydrologic Unit 07070002, directly under County Highway SS bridge on right edge of water, 0.7 mi northeast of Kelly, 1.3 mi upstream from Big Sandy Creek, 4.5 mi upstream from mouth, and 5.0 mi southeast of Wausau.

DRAINAGE AREA.--375 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1914 to November 1926, August 1939 to current year.

REVISED RECORDS.--WSP 1508: 1915, 1916-17(M), 1919-26(M), 1940(M), 1945(M), 1950(M). WDR WI-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,177.88 ft above NGVD of 1929. Prior to Sept. 17, 1953, nonrecording gage at site 50 ft upstream at datum 1.00 ft higher.

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	81	86	e130	e110	e51	e68	2,160	270	1,010	131	89	e93
2	78	84	e150	e110	e51	e73	1,660	254	958	121	122	e91
3	78	84	e140	e110	e49	e79	1,360	226	665	118	191	e87
4	79	96	e120	e110	e50	e82	1,130	206	409	160	149	e84
5	79	119	e110	e100	e50	e84	889	189	293	180	114	e81
6	78	122	e100	e90	e50	e84	744	177	240	216	96	e78
7	75	e110	e93	e85	e49	e84	672	166	211	308	90	e75
8	74	e100	e90	e83	e49	e86	652	171	186	273	92	e72
9	81	e94	e87	e79	e49	e86	607	246	279	219	105	e69
10	80	e92	e86	e78	e48	e89	537	393	409	185	98	e66
11	76	e90	e87	e76	e50	e90	458	480	404	161	96	e66
12	85	e90	e86	e75	e50	e90	402	438	610	154	91	e63
13	87	e94	e85	e73	e51	e90	355	382	745	141	88	e63
14	90	e97	e85	e68	e52	e92	321	400	1,080	128	86	64
15	84	e95	e88	e64	e51	e93	297	442	1,010	117	86	87
16	84	93	e90	e63	e51	e95	284	399	1,110	109	86	84
17	78	86	e90	e62	e51	e95	296	328	1,860	106	86	95
18	76	95	e87	e58	e51	e95	335	275	1,280	102	86	91
19	75	118	e86	e56	e52	e97	454	235	930	98	89	82
20	74	140	e89	e56	e53	e100	548	217	516	95	91	77
21	74	130	e91	e56	e54	e100	572	195	327	96	93	72
22	74	118	e91	e55	e54	e100	571	179	286	98	95	70
23	78	115	e90	e55	e54	e120	497	271	242	92	95	69
24	78	104	e87	e54	e55	e160	405	980	223	90	95	70
25	76	e120	e91	e53	e55	e240	348	1,150	204	91	95	70
26	76	e130	e91	e53	e56	e800	344	955	185	93	95	70
27	74	e140	e94	e52	e58	e2,600	336	551	171	95	95	69
28	80	e130	e110	e52	e59	e3,600	309	454	164	95	96	67
29	82	e120	e130	e52	e63	5,100	282	394	155	90	92	65
30	86	e110	e140	e52	---	5,020	258	374	143	88	86	65
31	88	---	e130	e52	---	3,180	---	744	---	88	91	---
TOTAL	2,458	3,202	3,124	2,192	1,516	22,772	18,083	12,141	16,305	4,138	3,059	2,255
MEAN	79.3	107	101	70.7	52.3	735	603	392	544	133	98.7	75.2
MAX	90	140	150	110	63	5,100	2,160	1,150	1,860	308	191	95
MIN	74	84	85	52	48	68	258	166	143	88	86	63
CFSM	0.21	0.28	0.27	0.19	0.14	1.96	1.61	1.04	1.45	0.36	0.26	0.20
IN.	0.24	0.32	0.31	0.22	0.15	2.26	1.79	1.20	1.62	0.41	0.30	0.22

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

MEAN	206	229	138	89.9	89.5	351	740	367	302	160	150	203
MAX	900	784	650	217	227	1,456	1,672	1,146	1,119	691	789	1,095
(WY)	(1942)	(1920)	(1966)	(1946)	(1981)	(1973)	(1922)	(1960)	(1943)	(1978)	(1926)	(1941)
MIN	46.9	68.6	48.2	31.5	41.0	51.1	149	94.4	52.8	64.6	51.9	48.5
(WY)	(1949)	(1977)	(1926)	(1926)	(1957)	(1956)	(1990)	(1977)	(1988)	(1989)	(1948)	(1989)

## WISCONSIN RIVER BASIN

05397500 EAU CLAIRE RIVER AT KELLY, WI—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1914 - 2004	
ANNUAL TOTAL	75,521		91,245		251	
ANNUAL MEAN	207		249		131	1942
HIGHEST ANNUAL MEAN					440	1925
LOWEST ANNUAL MEAN					131	1925
HIGHEST DAILY MEAN	2,590	Apr 17	5,100	Mar 29	7,180	Aug 21, 1926
LOWEST DAILY MEAN	54	Sep 7-11	(a)48	Feb 10	(a)25	(b)Jan 6, 1926
ANNUAL SEVEN-DAY MINIMUM	54	Sep 5	(a)49	Feb 4	(a)26	Jan 10, 1926
MAXIMUM PEAK FLOW			5,820	Mar 29	(c)8,300	Aug 21, 1926
MAXIMUM PEAK STAGE			8.72	Mar 29	(d)10.14	Mar 24, 1991
INSTANTANEOUS LOW FLOW			(a)		(f)8.0	Jul 17, 1944
ANNUAL RUNOFF (CFSM)	0.552		0.665		0.670	
ANNUAL RUNOFF (INCHES)	7.49		9.05		9.11	
10 PERCENT EXCEEDS	452		503		528	
50 PERCENT EXCEEDS	90		94		129	
90 PERCENT EXCEEDS	67		56		60	

(a) Ice affected

(b) Also occurred Jan. 10-15, 17, 18, 1926, ice affected, and Oct. 3, 1948

(c) From rating curve extended above 6,000 ft<sup>3</sup>/s, gage height, 8.4 ft, from graph based on gage readings

(d) Ice jam

(e) Estimated due to ice effect or missing record

(f) Probably result of temporary regulation

WISCONSIN RIVER BASIN

05398000 WISCONSIN RIVER AT ROTHSCHILD, WI

466

LOCATION.--Lat 44°53'09", long 89°38'05", in sec.26, T.28 N., R.7 E., Marathon County, Hydrologic Unit 07070002, on left bank at Rothschild, 0.5 mi downstream from Rothschild Dam, 1.7 mi north of bridge on U.S. Highway 51, 2.0 mi downstream from Eau Claire River, and 5.0 mi upstream from Black Creek.

DRAINAGE AREA.--4,020 mi<sup>2</sup>.

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

REVISED RECORDS.--WDR WI-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,125.86 ft above NGVD of 1929. Prior to Oct. 1, 1975, at datum 10.00 ft higher. Auxiliary water-stage recorder in Mosinee Pond 8 mi downstream. Prior to July 23, 1964, nonrecording auxiliary gage at same site and datum, read hourly.

REMARKS.--Records good except those for estimated daily discharges, which are fair (see page 11). Flow regulated by 20 reservoirs and 12 powerplants upstream from station. Gage-height telemeter at station.

EXTREMES OUTSIDE THE PERIOD OF RECORD.--Flood of Sept. 1, 1941, reached stage of 22.3 ft, datum then in use, from tailwater data at Rothschild dam, discharge, 75,000 ft<sup>3</sup>/s from rating curve extended above 45,000 ft<sup>3</sup>/s.

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	1,800	1,940	1,610	1,780	e1,800	e1,800	13,800	5,250	9,620	2,100	1,680	1,690
2	1,570	1,610	1,690	2,210	e1,700	e1,900	12,700	4,620	9,520	2,200	1,840	1,660
3	1,340	1,550	1,740	2,090	e1,700	e1,700	12,400	4,090	8,080	2,420	2,250	1,490
4	1,520	1,920	1,680	e1,700	e1,900	e1,900	11,800	3,700	6,080	2,440	1,970	1,480
5	1,660	2,230	1,620	e1,600	e1,800	e2,300	9,730	3,260	5,160	2,590	1,740	1,570
6	1,460	1,910	2,060	e1,400	e1,600	e2,200	8,660	3,270	4,900	2,790	1,830	1,760
7	1,310	1,620	1,760	e1,400	e1,700	e2,200	8,490	2,970	4,470	3,370	1,700	1,560
8	1,690	1,610	1,790	e1,600	e1,600	e2,200	8,250	3,350	4,050	2,960	1,970	1,460
9	1,470	1,620	2,080	e1,700	e1,800	e2,100	7,580	3,780	6,630	2,530	2,610	1,460
10	1,720	1,660	2,050	e1,500	e1,700	e2,200	6,760	4,800	8,770	2,650	2,280	1,640
11	1,580	1,850	2,030	e1,300	e1,600	e1,900	6,300	5,540	7,810	2,490	1,870	1,480
12	1,710	1,600	1,740	e1,500	e1,800	e2,100	5,600	4,900	9,350	2,880	2,100	1,450
13	1,570	1,960	1,520	e1,600	e1,600	e2,200	4,720	5,540	10,800	2,610	1,880	1,570
14	1,620	1,670	1,960	e1,600	e1,700	e2,100	4,380	7,870	13,300	2,180	1,840	1,520
15	1,370	1,600	1,790	e1,700	e1,700	e2,000	4,100	7,850	8,900	2,230	1,790	2,350
16	1,270	1,640	2,120	e1,500	e1,700	e2,100	4,010	6,690	7,230	1,890	1,760	3,380
17	1,390	1,570	1,980	e1,500	e1,600	e2,000	4,330	5,840	8,780	1,800	1,850	2,460
18	1,520	2,080	1,820	e1,800	e1,600	e2,000	4,480	4,910	6,620	1,820	2,160	1,930
19	1,460	2,590	1,890	e1,700	e1,700	e2,100	e6,000	4,330	5,320	1,790	2,090	1,950
20	1,650	2,410	1,820	e1,700	e1,600	e2,000	e7,100	4,110	4,100	1,890	1,750	1,450
21	1,510	2,270	e2,000	e1,800	e1,800	e2,100	e6,900	3,510	3,300	1,980	1,550	1,510
22	1,500	2,070	1,870	e1,800	e1,700	e2,100	e7,200	3,590	2,980	1,780	1,820	1,720
23	1,490	2,090	1,920	e1,900	e1,700	2,110	e6,300	5,180	3,360	1,770	1,540	1,590
24	1,400	2,220	1,870	e1,800	e1,800	2,560	e5,300	12,000	3,080	1,570	1,740	1,530
25	1,650	1,970	1,590	e1,800	e1,700	2,810	e5,200	11,300	2,720	1,850	1,600	1,470
26	1,420	1,800	1,690	e1,900	e1,600	7,520	e5,700	8,560	2,830	1,880	1,650	1,510
27	1,490	1,930	1,860	e1,800	e1,800	17,100	6,090	6,640	2,520	1,690	2,070	1,400
28	1,610	1,780	2,290	e2,000	e1,700	19,800	5,720	6,740	2,570	1,870	1,620	1,490
29	1,830	2,000	2,080	e1,700	e1,700	30,300	5,440	5,910	2,490	1,480	1,640	1,460
30	1,700	1,570	2,080	e1,500	---	27,400	5,460	5,340	2,460	1,780	1,570	1,480
31	1,590	---	2,200	e1,900	---	18,700	---	8,090	---	1,780	1,690	---
TOTAL	47,870	56,340	58,200	52,780	49,400	173,500	210,500	173,530	177,800	67,060	57,450	50,470
MEAN	1,544	1,878	1,877	1,703	1,703	5,597	7,017	5,598	5,927	2,163	1,853	1,682
MAX	1,830	2,590	2,290	2,210	1,900	30,300	13,800	12,000	13,300	3,370	2,610	3,380
MIN	1,270	1,550	1,520	1,300	1,600	1,700	4,010	2,970	2,460	1,480	1,540	1,400

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

	3,237	3,242	2,699	2,424	2,366	4,172	7,570	4,727	3,882	2,796	2,450	3,107
MEAN	3,237	3,242	2,699	2,424	2,366	4,172	7,570	4,727	3,882	2,796	2,450	3,107
MAX	10,020	7,262	5,484	3,787	4,051	13,300	14,640	13,930	11,920	7,219	6,973	9,079
(WY)	(1986)	(1986)	(1992)	(1973)	(1984)	(1973)	(1967)	(1960)	(1993)	(1978)	(1995)	(1980)
MIN	837	863	973	1,025	1,024	1,613	2,081	1,515	924	933	932	1,000
(WY)	(1949)	(1977)	(1977)	(1990)	(1977)	(1956)	(1990)	(1987)	(1988)	(1988)	(1988)	(1989)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1945 - 2004

ANNUAL TOTAL	1,158,560	1,162,950	
ANNUAL MEAN	3,174	3,177	3,555
HIGHEST ANNUAL MEAN			5,953
LOWEST ANNUAL MEAN			1,686
HIGHEST DAILY MEAN	32,500	May 12	30,300
LOWEST DAILY MEAN	1,110	Aug 31	1,240
ANNUAL SEVEN-DAY MINIMUM	1,220	Sep 4	1,410
MAXIMUM PEAK FLOW			34,000
MAXIMUM PEAK STAGE			25.21
10 PERCENT EXCEEDS	5,950	6,710	6,550
50 PERCENT EXCEEDS	1,900	1,870	2,600
90 PERCENT EXCEEDS	1,400	1,490	1,500

(a) Also occurred Mar. 31, 1967

(b) Datum then in use

(c) Estimated due to ice effect or missing record

## 05399500 BIG EAU PLEINE RIVER AT STRATFORD, WI

LOCATION.--Lat 44°49'19", long 90°04'46", NE ¼ NE ¼ SE ¼ sec.13, T.27 N., R.4 E., Marathon County, Hydrologic Unit 07070002, on left bank 15 ft upstream from bridge on State Highway 97, 1.0 mi north of Stratford, and 1.4 mi downstream from small tributary.

DRAINAGE AREA.--224 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1914 to December 1925, April 1937 to current year. Monthly discharge for some periods published in WSP 1308. Published as "near Stratford, WI" prior to October 2002.

REVISED RECORDS.--WSP 1308: 1917, 1920-22, 1926, 1946, 1948, 1950. WSP 1508: 1915-25(M), 1937, 1946(M), 1948(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,154.24 ft above NGVD of 1929. July 24, 1914, to Dec. 31, 1925, nonrecording gage at site 0.5 mi upstream at different datum. Apr. 30, 1937, to Sept. 15, 1938, nonrecording gage at present site and datum.

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

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of June 5, 1914, reached a stage of 20.7 ft, from floodmarks; discharge, 40,000 ft<sup>3</sup>/s, former site and datum.

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	7.3	7.4	11	e40	e3.4	e20	392	75	1,010	32	3.7	5.1
2	5.8	7.4	9.4	e34	e3.4	e62	290	65	703	20	3.7	4.5
3	5.8	7.8	8.5	e30	e3.2	e280	234	57	352	16	4.2	3.9
4	6.0	14	7.8	e20	e3.0	e460	187	46	208	15	4.8	4.2
5	5.8	19	7.8	e16	e3.0	e460	150	39	140	13	4.7	4.2
6	5.7	24	7.9	e9.2	e3.0	e340	134	36	107	24	4.1	4.6
7	6.7	20	8.0	e6.6	e3.0	e260	123	32	84	23	3.9	4.6
8	5.9	14	8.4	e6.2	e3.0	e180	111	36	68	14	4.2	4.1
9	5.3	11	e9.2	e6.0	e3.0	e140	98	39	507	10	62	3.8
10	5.3	9.1	e12	e6.0	e3.0	e100	84	274	1,270	9.0	229	3.7
11	5.9	8.9	e12	e6.4	e3.0	e94	74	223	911	9.7	77	3.7
12	8.5	9.3	e9.0	e6.4	e3.2	e86	66	132	1,910	12	41	3.7
13	6.8	9.6	e7.4	e6.2	e3.2	e78	59	363	1,040	9.2	24	3.6
14	20	9.2	e5.8	e5.9	e3.2	e72	53	396	619	8.0	14	3.9
15	11	9.2	e6.0	e5.5	e3.2	e66	49	327	294	6.2	9.7	15
16	7.4	9.4	e6.6	e5.5	e3.2	e60	50	207	199	5.4	8.2	615
17	5.9	9.3	e8.0	e5.1	e3.2	e56	62	145	690	4.9	7.8	261
18	5.4	19	e8.8	e4.9	e3.6	e54	66	110	283	4.6	7.3	110
19	5.4	34	e8.0	e4.7	e3.6	e52	103	89	152	4.3	7.0	71
20	5.8	41	e7.8	e4.7	e3.6	e52	142	111	102	4.2	7.5	51
21	6.2	32	e7.6	e4.7	e3.6	e52	137	88	78	4.2	8.2	36
22	13	25	e8.0	e4.6	e3.8	e52	161	76	62	18	6.7	25
23	6.4	21	e8.0	e4.5	e3.8	e60	130	597	51	14	5.7	19
24	5.6	20	e7.8	e4.4	e3.8	e90	99	1,080	52	7.5	5.2	16
25	7.4	17	e7.2	e4.3	e4.0	e800	101	494	56	5.8	5.1	12
26	6.6	15	e7.0	e4.3	e4.2	e6,000	136	308	45	4.9	5.3	9.8
27	5.8	13	e8.0	e4.0	e4.8	5,500	127	227	37	4.4	8.6	9.5
28	6.1	13	e18	e3.8	e5.6	6,390	105	365	36	4.0	7.5	8.3
29	6.3	12	e30	e3.6	e9.0	3,470	88	273	33	3.7	6.1	7.3
30	6.7	11	e40	e3.4	---	1,280	79	595	38	3.4	6.4	6.6
31	6.8	---	e42	e3.4	---	595	---	2,080	---	3.4	5.8	---
TOTAL	218.6	471.6	353.0	274.3	106.6	27,261	3,690	8,985	11,137	317.8	598.4	1,330.1
MEAN	7.05	15.7	11.4	8.85	3.68	879	123	290	371	10.3	19.3	44.3
MAX	20	41	42	40	9.0	6,390	392	2,080	1,910	32	229	615
MIN	5.3	7.4	5.8	3.4	3.0	20	49	32	33	3.4	3.7	3.6
CFSM	0.03	0.07	0.05	0.04	0.02	3.93	0.55	1.29	1.66	0.05	0.09	0.20
IN.	0.04	0.08	0.06	0.05	0.02	4.53	0.61	1.49	1.85	0.05	0.10	0.22

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

MEAN	109	127	47.6	19.5	34.2	412	594	235	217	75.3	79.9	160
MAX	728	695	446	138	372	1,202	1,551	1,016	1,203	642	691	1,572
(WY)	(1942)	(1992)	(1966)	(1973)	(1984)	(1976)	(1951)	(1973)	(1980)	(1978)	(2002)	(1938)
MIN	2.26	4.34	2.50	0.40	0.52	8.77	51.7	15.8	5.16	2.71	2.58	1.50
(WY)	(1954)	(1954)	(1990)	(1977)	(1977)	(1956)	(1946)	(1977)	(1988)	(1988)	(1937)	(1953)



05399500 BIG EAU PLEINE RIVER AT STRATFORD, WI—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1914 - 2004	
ANNUAL TOTAL	47,658.8		54,743.4			
ANNUAL MEAN	131		150		176	
HIGHEST ANNUAL MEAN					355	1980
LOWEST ANNUAL MEAN					47.6	1977
HIGHEST DAILY MEAN	7,400	Apr 16	6,390	Mar 28	26,100	Sep 9, 1938
LOWEST DAILY MEAN	1.1	Sep 10	(a)3.0	Feb 4	(a)0.00	(b)Jan 22, 1961
ANNUAL SEVEN-DAY MINIMUM	1.3	Sep 5	(a)3.0	Feb 4	(a)0.00	Jan 22, 1961
MAXIMUM PEAK FLOW			(c)7,690	Mar 26	(d)41,000	Sep 9, 1938
MAXIMUM PEAK STAGE			(a)15.28	Mar 26	(f)24.50	Sep 9, 1938
INSTANTANEOUS LOW FLOW			(a)		0.00	(g)Aug 17, 1947
ANNUAL RUNOFF (CFSM)	0.583		0.668		0.788	
ANNUAL RUNOFF (INCHES)	7.91		9.09		10.70	
10 PERCENT EXCEEDS	238		276		372	
50 PERCENT EXCEEDS	9.2		11		25	
90 PERCENT EXCEEDS	2.4		3.8		4.8	

- (a) Ice affected
- (b) Also occurred Jan. 23 to Feb. 5, 1961
- (c) Gage height, 14.55 ft
- (d) Based on rating curve extended above 24,000 ft<sup>3</sup>/s
- (e) Estimated due to ice effect or missing record
- (f) From floodmarks
- (g) Also occurred Jan. 22 to Feb. 5, 1961, ice-affected period

WISCONSIN RIVER BASIN

05400760 WISCONSIN RIVER AT WISCONSIN RAPIDS, WI

LOCATION.--Lat 44°23'41", long 89°49'31", in SW 1/4 sec.8, T.22 N., R.6 E., Wood County, Hydrologic Unit 07070003, at Consolidated Water Power Company, 0.2 mi upstream from U.S. Highway 13 bridge in Wisconsin Rapids.

DRAINAGE AREA.--5,420 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1914 to March 1950 published as Wisconsin River near Nekoosa (05400980), October 1957 to current year. October 1957 to September 1981, published under station number 05400800 with same name.

REVISED RECORDS.--WSP 1308: 1915(M).

GAGE.--Water-stage recorders on headwater and tailwater. Elevation of powerplant pond is 1,010 ft and datum of powerplant gages is 0.00 ft above NGVD of 1929 (levels by Wisconsin Valley Improvement Co.). May 1914 to March 1950, at site 9.6 mi downstream at different datum. March 1950 to Sept. 30, 1981, at Centralia Powerplant at Nekoosa Papers, Inc., 2.6 mi downstream. March 1950 to Dec. 31, 1973, datum was 887.83 ft above NGVD of 1929. Jan. 1, 1974, changed to present datum.

REMARKS.--Discharge computed from powerplant records on basis of load-discharge rating of hydroelectric units as developed by manufacturer and tainter-gate ratings based on theoretical formulas. Flow regulated by 22 reservoirs and many powerplants upstream from station. Water diverted periodically from pond on Wisconsin Rapids powerplant into Cranberry Creek, a tributary of Yellow River, for cranberry culture.

COOPERATION.--Figures of daily discharges were provided by Consolidated Water Power Company and Wisconsin Valley Improvement Company. Records were 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	2,250	1,500	1,970	2,260	1,900	2,250	20,400	5,400	15,900	2,090	2,340	1,940
2	1,820	1,860	1,790	2,280	2,080	2,500	17,500	4,910	12,800	2,270	2,580	2,050
3	1,400	2,020	1,310	2,540	2,600	2,390	17,000	4,350	11,500	3,150	2,520	2,230
4	1,400	1,930	1,470	2,520	2,390	2,640	15,000	3,460	8,480	4,100	2,510	2,090
5	1,410	2,020	1,710	1,970	2,040	3,420	11,200	3,350	7,170	3,460	2,460	1,410
6	1,410	2,060	1,840	1,590	2,360	3,410	9,790	3,720	6,240	4,400	1,740	1,380
7	1,350	2,000	1,690	1,510	2,020	3,010	8,960	2,670	5,780	4,000	1,810	2,180
8	1,300	1,430	2,380	1,570	1,980	2,870	12,600	3,440	5,720	4,030	1,690	1,500
9	1,300	1,320	2,270	2,320	1,960	2,940	8,720	4,230	9,590	3,540	2,780	1,930
10	1,320	1,450	2,690	2,230	2,220	2,930	8,460	7,340	14,300	3,170	2,920	1,530
11	1,820	2,150	1,870	1,980	2,260	3,940	6,770	7,710	16,200	3,020	2,260	1,410
12	1,950	1,770	1,970	1,930	1,820	2,970	6,430	7,520	17,300	2,870	2,200	1,690
13	1,980	2,690	1,900	1,520	2,240	2,850	5,150	8,410	20,300	2,960	2,090	1,930
14	1,650	1,890	1,700	2,000	2,340	3,080	5,160	11,500	19,600	3,380	2,050	1,940
15	1,580	1,890	2,270	2,230	2,130	3,150	3,910	11,000	16,000	2,660	1,900	2,980
16	1,580	1,430	2,800	2,240	1,970	2,730	3,370	9,060	11,600	2,440	1,840	3,060
17	1,390	1,360	2,240	2,510	1,980	2,770	3,570	8,280	13,100	2,470	1,850	2,480
18	1,310	1,520	2,360	2,040	2,200	2,850	3,420	5,660	11,400	2,230	1,900	2,210
19	1,130	2,640	2,000	2,060	2,160	2,380	6,850	5,060	7,200	2,420	1,950	2,290
20	925	2,620	1,620	2,280	2,210	2,900	6,570	6,220	6,360	2,460	2,250	1,920
21	1,360	2,750	1,690	2,290	2,490	2,580	8,290	5,570	4,000	2,290	1,740	1,460
22	1,580	2,400	2,770	2,370	2,440	2,660	7,580	4,530	4,240	2,280	1,520	1,670
23	1,780	2,510	2,440	1,840	1,790	3,000	7,960	9,000	3,630	2,010	1,510	1,680
24	1,280	2,740	2,000	2,490	1,780	3,200	5,970	17,300	3,790	2,060	1,640	1,750
25	1,180	2,210	2,020	2,320	2,190	4,160	5,140	17,700	4,020	1,840	2,750	1,830
26	1,240	2,110	2,070	1,860	2,210	9,280	4,840	12,700	3,230	1,840	1,940	1,590
27	1,250	1,900	1,760	2,190	2,580	20,700	4,390	10,700	2,940	2,110	1,960	1,610
28	1,200	2,040	2,500	1,830	2,390	25,300	5,780	7,780	3,100	2,140	2,410	1,650
29	1,520	2,140	2,700	2,340	1,780	32,400	6,400	8,990	3,100	2,490	2,190	1,590
30	1,470	1,950	2,890	2,140	---	37,900	5,440	7,420	2,850	1,890	2,030	1,540
31	1,270	---	2,610	1,830	---	29,900	---	12,700	---	1,850	1,960	---
TOTAL	45,405	60,300	65,300	65,080	62,510	229,060	242,620	237,680	271,440	83,920	65,290	56,520
MEAN	1,465	2,010	2,106	2,099	2,156	7,389	8,087	7,667	9,048	2,707	2,106	1,884
MAX	2,250	2,750	2,890	2,540	2,600	37,900	20,400	17,700	20,300	4,400	2,920	3,060
MIN	925	1,320	1,310	1,510	1,780	2,250	3,370	2,670	2,850	1,840	1,510	1,380

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

MEAN	4,106	4,315	3,288	3,019	3,136	6,309	11,030	6,960	6,114	3,528	3,134	4,255
MAX	13,070	10,270	7,928	5,589	6,368	19,180	25,940	19,730	19,560	10,820	9,199	17,670
(WY)	(1987)	(1920)	(1966)	(1973)	(1984)	(1973)	(1922)	(1960)	(1943)	(1978)	(1926)	(1938)
MIN	1,075	1,072	1,141	1,272	1,333	1,547	2,579	1,669	1,308	1,123	1,173	1,227
(WY)	(1977)	(1977)	(1990)	(1990)	(1977)	(1924)	(1990)	(1987)	(1988)	(1988)	(1934)	(1976)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1914 - 2004

ANNUAL TOTAL	1,458,615	1,485,125		
ANNUAL MEAN	3,996	4,058		4,925
HIGHEST ANNUAL MEAN				8,499
LOWEST ANNUAL MEAN				2,107
HIGHEST DAILY MEAN	41,100	May 13	37,900	Mar 30
LOWEST DAILY MEAN	925	Oct 20	925	Oct 20
ANNUAL SEVEN-DAY MINIMUM	1,300	Oct 25	1,300	Oct 25
MAXIMUM PEAK FLOW			38,000	Mar 30
10 PERCENT EXCEEDS	7,670		8,970	(a)70,400
50 PERCENT EXCEEDS	2,420		2,320	9,560
90 PERCENT EXCEEDS	1,470		1,520	3,340
				1,790

(a) From rating curve extended above 58,000 ft<sup>3</sup>/s

## 05401050 TENMILE CREEK NEAR NEKOOSA, WI

LOCATION.--Lat 44°15'45", long 89°48'37" in NE ¼ NE ¼ sec.32, T.21 N., R.6 E., Wood County, Hydrologic Unit 07070003, on left bank upstream from bridge on State Highway 13, 5.8 mi southeast of Nekoosa.

DRAINAGE AREA.--73.3 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1962-63. October 1963 to September 1979, October 1987 to September 1994, February 1998 to current year.

REVISED RECORDS.--WDR WI-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 967.39 ft above NGVD of 1929. Prior to May 13, 1964, and June 2, 1988 to May 2, 1989, non-recording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see page 11). Approximately 40 mi of drainage ditches and 22 check dams are used to control the water table in the basin. Sprinkler irrigation from ground-water sources affects natural flow of creek. 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	19	18	25	e23	17	20	93	51	136	130	79	64
2	18	18	21	e23	17	29	85	48	138	125	77	63
3	20	20	21	e23	16	37	72	46	133	121	76	61
4	19	24	22	22	e16	45	70	60	124	133	75	59
5	18	21	20	e21	16	56	67	59	118	139	73	58
6	18	20	21	e16	16	75	65	59	115	144	71	58
7	18	19	21	20	16	75	80	57	111	149	69	57
8	18	19	24	20	15	72	87	61	107	141	69	55
9	18	19	29	20	e15	73	78	67	105	133	68	53
10	18	19	e24	20	15	76	73	74	108	127	67	53
11	18	20	e21	20	15	78	55	77	154	123	66	52
12	18	21	e17	22	15	63	52	78	219	119	65	51
13	18	19	e20	23	15	65	65	85	240	117	63	50
14	18	18	e23	22	15	72	75	92	269	114	62	50
15	17	22	25	20	e15	70	68	95	269	110	60	57
16	17	22	25	20	e15	70	66	95	241	107	61	56
17	17	22	24	20	e15	69	63	93	293	105	62	55
18	17	24	25	e19	16	68	63	89	410	102	60	53
19	17	29	24	e18	16	66	65	83	363	99	59	52
20	16	24	24	e19	16	67	62	92	304	97	57	50
21	16	22	23	19	16	67	66	102	255	95	55	49
22	16	24	24	e17	16	61	67	109	230	92	55	49
23	16	27	24	e18	16	64	63	121	215	89	55	48
24	17	26	23	e18	16	54	61	134	196	87	58	49
25	18	22	22	17	15	55	63	134	179	86	65	48
26	19	27	23	17	16	73	61	125	169	84	65	47
27	18	28	23	17	16	89	59	120	159	82	73	46
28	19	29	26	e17	16	93	60	114	151	80	72	46
29	19	27	26	e16	17	99	61	112	142	79	69	44
30	19	29	e25	e16	---	102	60	116	137	77	67	42
31	19	---	e24	e17	---	96	---	127	---	79	66	---
TOTAL	553	679	719	600	456	2,099	2,025	2,775	5,790	3,365	2,039	1,575
MEAN	17.8	22.6	23.2	19.4	15.7	67.7	67.5	89.5	193	109	65.8	52.5
MAX	20	29	29	23	17	102	93	134	410	149	79	64
MIN	16	18	17	16	15	20	52	46	105	77	55	42
CFSM	0.24	0.31	0.32	0.26	0.21	0.92	0.92	1.22	2.63	1.48	0.90	0.72
IN.	0.28	0.34	0.36	0.30	0.23	1.07	1.03	1.41	2.94	1.71	1.03	0.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	50.0	51.1	47.0	34.8	34.0	65.9	101	89.7	83.5	63.7	48.2	51.0
MAX	129	100	107	79.8	90.5	192	170	205	193	139	98.1	100
(WY)	(1973)	(1973)	(1966)	(1973)	(1966)	(1973)	(1979)	(1973)	(2004)	(1993)	(1990)	(1965)
MIN	17.8	19.5	14.6	12.6	11.2	16.1	47.3	44.7	37.4	23.6	17.4	20.3
(WY)	(2004)	(1977)	(1965)	(1965)	(1965)	(1964)	(1964)	(1977)	(1964)	(1988)	(1964)	(2003)

## WISCONSIN RIVER BASIN

05401050 TENMILE CREEK NEAR NEKOOSA, WI—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	13,549		22,675		60.2	
ANNUAL MEAN	37.1		62.0		113	
HIGHEST ANNUAL MEAN					1973	
LOWEST ANNUAL MEAN					30.2	
HIGHEST DAILY MEAN	101	May 13	410	Jun 18	427	Mar 31, 1979
LOWEST DAILY MEAN	16	Oct 20-23	15	(a)Feb 8	10	(b)Feb 13, 1964
ANNUAL SEVEN-DAY MINIMUM	16	Oct 17	(c)15	Feb 8	10	Feb 22, 1964
MAXIMUM PEAK FLOW			420	Jun 18	456	Mar 31, 1979
MAXIMUM PEAK STAGE			7.20	Jun 18	7.20	Jun 18, 2004
INSTANTANEOUS LOW FLOW			12	(d)Feb 8	9.5	Dec 16, 1964
ANNUAL RUNOFF (CFSM)	0.506		0.845		0.821	
ANNUAL RUNOFF (INCHES)	6.88		11.51		11.15	
10 PERCENT EXCEEDS	71		124		106	
50 PERCENT EXCEEDS	24		55		52	
90 PERCENT EXCEEDS	19		17		23	

- (a) Also occurred Feb. 9-17, 25 (Feb. 9, 15-17 ice affected)  
 (b) Also occurred Feb. 14, 15, Feb. 22 to Mar. 2, 1964, and Feb. 2-4, 11, 12, 1965  
 (c) Ice affected  
 (d) Also occurred Feb. 14 and 15  
 (e) Estimated due to ice effect or missing record

LOCATION.--Lat 44°18'08", long 90°07'19" in SE ¼ NE ¼ sec.15, T.21 N., R.3 E., Wood County, Hydrologic Unit 07070003, on right bank, 600 ft upstream of bridge on State Highway 80 at Babcock, 2.0 mi upstream from Hemlock Creek.

DRAINAGE AREA.--215 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1944 to September 1996, September 1997 to current year.

REVISED RECORDS.--WSP 1308: 1944(M), 1946-47(M), 1949(M). WDR WI-77-1: Drainage area. WDR WI-82-1: 1981 (P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 954.75 ft above NGVD of 1929. Prior to Oct. 28, 1948, nonrecording gage at site 600 ft downstream at same datum. Oct. 28, 1948 to Apr. 9, 1996, water-stage recorder at site 600 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see page 11). There is a large recreation dam about 5.0 mi upstream. 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	4.1	8.9	16	e9.0	e6.0	e18	491	66	1,650	57	13	11
2	3.9	14	e16	e8.0	e6.0	e32	321	67	1,230	50	15	11
3	5.2	14	15	e7.0	e7.0	e70	252	62	733	44	18	11
4	5.2	18	14	e6.0	e7.0	e160	206	57	381	49	19	10
5	5.0	24	14	e5.0	e8.0	e260	169	62	266	64	17	10
6	4.8	18	13	e6.0	e8.0	e230	145	59	174	85	14	11
7	4.5	11	13	e7.0	e9.0	e200	129	50	155	171	12	11
8	4.6	8.1	13	e7.0	e9.0	e180	116	53	125	190	11	12
9	4.5	7.9	13	e7.0	e8.0	e160	107	104	696	135	12	11
10	4.7	13	e13	e7.0	e8.0	e160	96	465	1,380	96	13	9.9
11	4.6	23	e11	e7.0	e7.0	e170	88	909	2,400	74	13	9.3
12	5.9	27	e12	e7.0	e7.0	e210	80	513	3,250	62	13	9.1
13	6.6	25	e12	e7.0	e7.0	e250	75	710	2,480	52	11	8.7
14	8.7	19	e12	e8.0	e7.0	245	70	1,120	1,940	46	9.9	9.6
15	7.6	15	e12	e8.0	e7.0	196	65	847	1,020	38	9.0	17
16	7.6	15	e11	e8.0	e7.0	148	62	621	556	33	8.9	24
17	7.4	15	e11	e8.0	e8.0	98	61	373	680	30	9.6	20
18	6.6	16	e11	e8.0	e8.0	111	58	226	1,220	27	10	16
19	6.2	19	e11	e7.0	e7.0	104	61	186	691	24	12	14
20	5.9	20	e11	e7.0	e7.0	97	67	182	336	22	11	13
21	6.0	23	e10	e7.0	e7.0	142	79	251	224	21	9.7	13
22	6.3	27	e10	e7.0	e8.0	154	102	344	182	20	8.9	13
23	6.7	27	e9.0	e8.0	e8.0	170	115	626	139	19	8.3	13
24	6.8	26	e9.0	e7.0	e8.0	182	111	1,900	135	17	8.7	13
25	6.8	33	e9.0	e7.0	e8.0	431	102	1,690	226	15	9.9	13
26	6.6	21	e9.0	e6.0	e8.0	2,180	102	1,060	161	14	12	13
27	6.3	19	e9.0	e6.0	e7.0	3,710	107	610	114	13	13	13
28	6.3	18	e9.0	e6.0	e7.0	2,120	104	358	93	12	13	12
29	6.4	17	e9.0	e5.0	e8.0	1,860	90	286	76	12	12	13
30	6.4	17	e9.0	e6.0	---	1,340	68	342	65	11	12	12
31	6.5	---	e9.0	e6.0	---	786	---	1,450	---	11	11	---
TOTAL	184.7	558.9	355.0	215.0	217.0	16,174	3,699	15,649	22,778	1,514	369.9	376.6
MEAN	5.96	18.6	11.5	6.94	7.48	522	123	505	759	48.8	11.9	12.6
MAX	8.7	33	16	9.0	9.0	3,710	491	1,900	3,250	190	19	24
MIN	3.9	7.9	9.0	5.0	6.0	18	58	50	65	11	8.3	8.7
CFSM	0.03	0.09	0.05	0.03	0.03	2.43	0.57	2.35	3.53	0.23	0.06	0.06
IN.	0.03	0.10	0.06	0.04	0.04	2.80	0.64	2.71	3.94	0.26	0.06	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2004, BY WATER YEAR (WY)

	106	110	61.5	25.7	45.4	379	544	240	202	66.7	51.3	122
MEAN	106	110	61.5	25.7	45.4	379	544	240	202	66.7	51.3	122
MAX	561	508	374	132	373	1,353	1,319	1,183	1,516	453	371	1,169
(WY)	(1987)	(1983)	(1966)	(1973)	(1966)	(1973)	(1952)	(1973)	(1993)	(1978)	(1980)	(1986)
MIN	3.68	4.62	7.35	5.03	4.56	8.13	85.9	28.0	8.56	4.68	4.01	2.23
(WY)	(1949)	(1977)	(1951)	(1945)	(2003)	(1956)	(1946)	(1977)	(1988)	(1988)	(1988)	(1948)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1944 - 2004

ANNUAL TOTAL	34,193.4			62,091.1					
ANNUAL MEAN	93.7			170			163		
HIGHEST ANNUAL MEAN							376		
LOWEST ANNUAL MEAN							37.4		
HIGHEST DAILY MEAN	2,040			Apr 18			3,710		
LOWEST DAILY MEAN	(b)3.2			Sep 7			3.9		
ANNUAL SEVEN-DAY MINIMUM	3.3			Sep 5			4.7		
MAXIMUM PEAK FLOW							3,950		
MAXIMUM PEAK STAGE							12.81		
INSTANTANEOUS LOW FLOW							3.7		
ANNUAL RUNOFF (CFSM)	0.436						0.789		
ANNUAL RUNOFF (INCHES)	5.92						10.74		
10 PERCENT EXCEEDS	205						375		
50 PERCENT EXCEEDS	12						14		
90 PERCENT EXCEEDS	4.3						6.8		

(a) Also occurred Sept. 15-19, 25, 26, 1948

(b) Also occurred Sept. 8-11

(c) Estimated due to ice effect or missing record

WISCONSIN RIVER BASIN

05404000 WISCONSIN RIVER NEAR WISCONSIN DELLS, WI

473

LOCATION.--Lat 43°36'22", long 89°45'25" in NW ¼ sec.14, T.13 N., R.6 E., Sauk County, Hydrologic Unit 07070003, on right bank 0.5 mi downstream from Dell Creek and 1.8 mi southeast of Wisconsin Dells.

DRAINAGE AREA.--8,090 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1934 to current year.

REVISED RECORDS.--WSP 1728: 1936(M). WSP 1914: 1951, 1953-55. WDR WI-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 801.48 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1963, water-stage recorder at same site at datum 5.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair (see page 11). Flow regulated by 24 reservoirs above station. In 1938, when the maximum of record occurred, there were 21 reservoirs above station, the two large reservoirs, Petenwell and Castle Rock, were not in existence. Diurnal fluctuation is caused by powerplant of Alliant Energy Company at Wisconsin Dells. 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	2,660	2,320	3,030	3,070	e4,200	4,110	29,200	10,200	16,600	6,560	4,020	3,670
2	2,770	2,390	3,280	3,170	e3,800	4,520	19,100	7,620	21,900	4,630	4,470	3,590
3	2,610	2,700	3,090	3,120	e4,300	5,840	8,250	6,110	21,200	4,810	5,540	3,330
4	2,640	3,370	3,340	3,040	e4,300	4,930	10,400	5,290	16,700	6,130	5,330	3,070
5	2,650	3,290	3,300	3,360	e5,800	6,640	14,700	4,330	16,200	9,400	5,310	2,790
6	2,690	3,150	3,270	4,540	e4,900	8,060	14,200	4,940	15,800	9,230	3,580	2,820
7	2,640	2,960	2,820	4,010	e4,700	7,540	11,500	5,080	11,300	8,450	3,230	2,550
8	2,370	2,930	2,810	3,560	e4,100	7,070	9,680	5,170	10,900	8,680	3,010	2,820
9	1,790	2,900	2,810	3,600	e4,300	7,380	9,980	5,100	11,000	6,540	3,100	2,740
10	2,010	2,870	2,910	3,970	e4,800	6,500	10,900	6,390	16,000	8,550	3,340	2,630
11	2,210	2,860	e2,200	3,860	e5,700	6,980	11,400	9,260	24,100	8,110	4,550	2,830
12	2,210	2,970	e2,300	4,890	6,310	6,560	9,710	9,890	30,000	6,310	4,190	2,660
13	2,600	2,770	2,960	3,690	5,530	6,900	6,970	10,100	32,800	5,800	3,010	2,770
14	2,700	2,840	3,160	3,960	4,180	6,890	6,300	12,800	33,600	5,740	2,960	2,800
15	2,760	2,870	3,150	3,620	4,160	6,180	5,920	15,500	35,300	6,660	2,980	3,080
16	2,600	2,890	3,270	4,620	3,830	6,080	6,340	15,900	35,700	6,460	2,950	5,330
17	2,650	2,890	3,480	4,860	3,420	5,930	5,670	15,500	27,100	4,460	2,960	4,020
18	2,490	3,080	3,590	4,190	3,520	5,610	5,510	12,800	22,400	5,530	3,220	4,890
19	2,310	3,020	3,530	3,950	3,540	5,230	5,950	10,800	24,800	3,820	3,880	3,630
20	2,120	2,920	3,200	3,690	3,540	5,450	8,690	10,400	15,100	3,320	3,850	3,240
21	2,200	3,310	3,130	4,180	3,940	5,190	7,190	11,700	12,900	4,040	2,890	2,880
22	2,120	3,450	3,060	e2,800	4,410	6,160	8,720	13,400	12,500	3,880	3,310	2,800
23	2,130	3,620	2,920	e3,600	3,880	4,400	9,490	14,200	12,900	4,030	2,910	2,670
24	2,490	3,550	2,750	e4,400	4,060	4,620	9,840	15,300	11,000	4,060	3,100	2,750
25	2,400	3,350	2,910	e4,800	3,290	5,910	9,590	22,600	9,780	4,160	3,440	2,710
26	2,440	3,370	2,960	e3,300	3,370	6,870	6,590	23,500	9,840	3,610	3,330	2,810
27	2,390	3,210	2,890	e3,500	3,900	8,210	6,570	23,600	8,500	3,060	4,100	2,630
28	1,980	3,180	2,940	e3,700	3,540	8,580	6,590	22,600	6,360	3,450	5,210	2,630
29	2,390	3,450	2,900	e3,500	3,930	15,500	6,300	14,600	6,800	3,250	4,900	2,640
30	2,170	3,090	2,930	e2,900	---	27,900	8,930	15,900	7,170	3,390	4,100	2,530
31	2,280	---	2,960	e4,400	---	31,000	---	15,300	---	3,350	3,930	---
TOTAL	74,470	91,570	93,850	117,850	123,250	248,740	290,180	375,880	536,250	169,470	116,700	92,310
MEAN	2,402	3,052	3,027	3,802	4,250	8,024	9,673	12,130	17,880	5,467	3,765	3,077
MAX	2,770	3,620	3,590	4,890	6,310	31,000	29,200	23,600	35,700	9,400	5,540	5,330
MIN	1,790	2,320	2,200	2,800	3,290	4,110	5,510	4,330	6,360	3,060	2,890	2,530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2004, BY WATER YEAR (WY)

MEAN	5,859	6,160	5,054	4,768	5,028	8,051	12,990	9,598	8,822	5,377	4,366	5,811
MAX	19,120	13,900	10,740	7,831	9,614	25,620	25,050	26,990	27,090	13,350	10,700	25,900
(WY)	(1987)	(1983)	(1966)	(1992)	(1984)	(1973)	(1951)	(1960)	(1993)	(1978)	(1995)	(1938)
MIN	1,683	1,688	1,746	2,434	2,432	2,945	2,939	3,361	1,826	1,713	1,634	1,754
(WY)	(1977)	(1977)	(1990)	(1945)	(1945)	(1940)	(1964)	(1977)	(1988)	(1988)	(1988)	(1976)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1935 - 2004

ANNUAL TOTAL	1,967,190	2,330,520	
ANNUAL MEAN	5,390	6,368	6,819
HIGHEST ANNUAL MEAN			12,420
LOWEST ANNUAL MEAN			2,993
HIGHEST DAILY MEAN	40,300	May 15	35,700
LOWEST DAILY MEAN	(e)1,400	(a)Sep 7, 8	1,790
ANNUAL SEVEN-DAY MINIMUM	(e)1,950	(a)Sep 5	2,250
MAXIMUM PEAK FLOW			36,500
MAXIMUM PEAK STAGE			13.74
10 PERCENT EXCEEDS	9,690	13,600	12,200
50 PERCENT EXCEEDS	3,450	4,020	5,180
90 PERCENT EXCEEDS	2,600	2,660	2,900

(a) Regulation at dam upstream

(c) Present datum

(e) Estimated due to ice effect or missing record