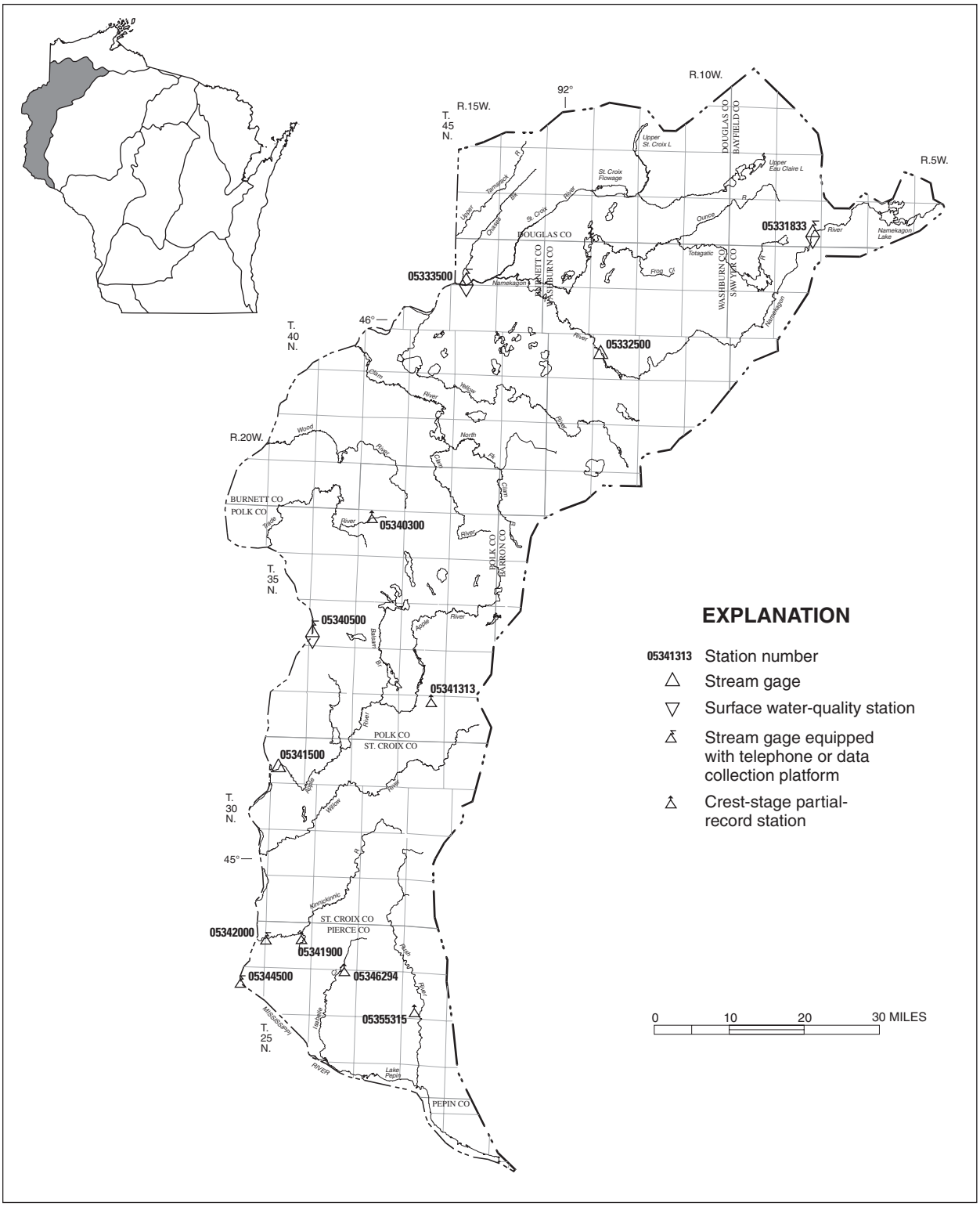
UPPER MISSISSIPPI RIVER BASIN RECORDS



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

ST. CROIX RIVER BASIN

05331833 NAMEKAGON RIVER AT LEONARDS, WI

LOCATION.--Lat 46°10'17", long 91°19'45", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.26, T.43 N., R.8 W., Bayfield County, Hydrologic Unit 07030002, on left bank 15 ft upstream from Squaw Bend Road, and 0.4 mi west of U.S. Highway 63 at Leonards.

DRAINAGE AREA.--126 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1996 to September 2001, May to September 2005.

GAGE.--Water-stage recorder. Elevation of gage is 1,275 ft above NGVD of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e136	127	138	65	53
2	---	---	---	---	---	---	---	e138	124	133	64	51
3	---	---	---	---	---	---	---	e138	120	121	65	51
4	---	---	---	---	---	---	---	e138	122	116	69	50
5	---	---	---	---	---	---	---	e135	136	112	63	51
6	---	---	---	---	---	---	---	136	137	110	61	51
7	---	---	---	---	---	---	---	135	130	116	59	48
8	---	---	---	---	---	---	---	139	130	108	58	49
9	---	---	---	---	---	---	---	142	130	103	66	49
10	---	---	---	---	---	---	---	177	126	98	69	49
11	---	---	---	---	---	---	---	181	131	94	66	47
12	---	---	---	---	---	---	---	169	166	90	65	52
13	---	---	---	---	---	---	---	172	172	88	62	75
14	---	---	---	---	---	---	---	174	215	85	60	71
15	---	---	---	---	---	---	---	172	222	82	59	61
16	---	---	---	---	---	---	---	165	199	80	59	57
17	---	---	---	---	---	---	---	159	179	e78	60	54
18	---	---	---	---	---	---	---	155	167	e78	64	53
19	---	---	---	---	---	---	---	158	155	e77	65	59
20	---	---	---	---	---	---	---	157	153	77	63	60
21	---	---	---	---	---	---	---	150	164	75	61	55
22	---	---	---	---	---	---	---	145	145	74	59	53
23	---	---	---	---	---	---	---	141	137	72	58	50
24	---	---	---	---	---	---	---	140	127	72	58	48
25	---	---	---	---	---	---	---	136	122	69	58	53
26	---	---	---	---	---	---	---	141	118	70	61	61
27	---	---	---	---	---	---	---	142	118	67	60	55
28	---	---	---	---	---	---	---	148	143	69	58	53
29	---	---	---	---	---	---	---	141	137	69	57	52
30	---	---	---	---	---	---	---	136	153	67	55	50
31	---	---	---	---	---	---	---	130	---	66	54	---
TOTAL	---	---	---	---	---	---	---	4,626	4,405	2,754	1,901	1,621
MEAN	---	---	---	---	---	---	---	149	147	88.8	61.3	54.0
MAX	---	---	---	---	---	---	---	181	222	138	69	75
MIN	---	---	---	---	---	---	---	130	118	66	54	47
CFSM	---	---	---	---	---	---	---	1.18	1.17	0.71	0.49	0.43
IN.	---	---	---	---	---	---	---	1.37	1.30	0.81	0.56	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	104	124	113	102	106	126	244	175	140	139	110	96.7
MAX	158	210	158	141	128	174	366	265	161	226	178	158
(WY)	(1997)	(1997)	(1997)	(1997)	(1997)	(1998)	(2001)	(1996)	(1998)	(1996)	(1999)	(1996)
MIN	67.7	96.6	93.9	89.1	90.6	94.6	129	110	114	88.8	61.3	52.9
(WY)	(2001)	(2002)	(1998)	(1998)	(2001)	(2001)	(2000)	(1998)	(2000)	(2005)	(2005)	(1998)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL TOTAL	15,307			
ANNUAL MEAN	100		133	
HIGHEST ANNUAL MEAN			184	1996
LOWEST ANNUAL MEAN			97.2	2002
HIGHEST DAILY MEAN	222	Jun 15	856	Apr 24, 2001
LOWEST DAILY MEAN	47	Sep 11	47	Sep 11, 2005
ANNUAL SEVEN-DAY MINIMUM	49	Sep 5	49	Sep 5, 2005
MAXIMUM PEAK FLOW	227	Jun 15	952	Apr 24, 2001
MAXIMUM PEAK STAGE	2.24	Jun 15	4.73	Apr 24, 2001
INSTANTANEOUS LOW FLOW	44	Sep 11	44	Sep 11, 2005
ANNUAL RUNOFF (CFSM)	0.794		1.05	
ANNUAL RUNOFF (INCHES)	4.52		14.30	
10 PERCENT EXCEEDS	162		201	
50 PERCENT EXCEEDS	80		115	
90 PERCENT EXCEEDS	52		76	

(e) Estimated

05331833 NAMEKAGON RIVER AT LEONARDS, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1996 to September 2001; May to September 2005.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1996 to September 2001; May to September 2005.
SPECIFIC CONDUCTANCE: June 1996 to September 2001 (discontinued).

INSTRUMENTATION.--Water temperature recorder provides hourly readings.

REMARKS.--Records represent water temperature at sensor located near the orifice.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum temperature, 27.0°C, Aug. 6, 2001; minimum, 0.0°C, for many days.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum temperature, during period May to September, 26.3°C, June 23; minimum, 6.1°C, Sept. 29.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

05331833 NAMEKAGON RIVER AT LEONARDS, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	17.5	10.5	13.5
7	---	---	---	---	---	---	---	---	---	14.5	10.6	12.8
8	---	---	---	---	---	---	---	---	---	15.6	11.5	13.4
9	---	---	---	---	---	---	---	---	---	16.3	13.5	14.7
10	---	---	---	---	---	---	---	---	---	15.1	13.3	14.2
11	---	---	---	---	---	---	---	---	---	14.0	9.4	11.9
12	---	---	---	---	---	---	---	---	---	9.4	7.0	8.3
13	---	---	---	---	---	---	---	---	---	8.4	7.5	7.9
14	---	---	---	---	---	---	---	---	---	10.3	7.4	8.7
15	---	---	---	---	---	---	---	---	---	9.9	7.5	8.8
16	---	---	---	---	---	---	---	---	---	13.5	7.7	10.3
17	---	---	---	---	---	---	---	---	---	13.1	10.3	11.8
18	---	---	---	---	---	---	---	---	---	12.8	11.5	12.1
19	---	---	---	---	---	---	---	---	---	12.3	11.5	11.9
20	---	---	---	---	---	---	---	---	---	16.5	10.9	13.5
21	---	---	---	---	---	---	---	---	---	15.8	12.2	14.2
22	---	---	---	---	---	---	---	---	---	14.6	12.8	13.5
23	---	---	---	---	---	---	---	---	---	14.3	11.9	12.7
24	---	---	---	---	---	---	---	---	---	18.3	10.0	13.8
25	---	---	---	---	---	---	---	---	---	15.7	13.6	14.3
26	---	---	---	---	---	---	---	---	---	15.8	11.9	13.8
27	---	---	---	---	---	---	---	---	---	14.9	11.9	13.3
28	---	---	---	---	---	---	---	---	---	15.5	11.3	13.1
29	---	---	---	---	---	---	---	---	---	17.2	10.7	13.9
30	---	---	---	---	---	---	---	---	---	19.5	11.9	15.4
31	---	---	---	---	---	---	---	---	---	19.4	12.5	16.0
MONTH	---	---	---	---	---	---	---	---	---	19.5	7.0	12.6
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.0	13.8	16.6	20.5	15.1	17.5	23.7	17.7	20.4	18.2	12.8	15.2
2	21.2	14.7	17.9	21.8	15.0	18.3	24.1	17.6	20.7	18.0	12.9	14.8
3	20.5	15.4	18.1	19.5	16.7	18.2	21.5	18.8	20.0	15.0	10.5	12.9
4	18.5	16.2	16.8	21.6	16.5	18.8	22.2	16.8	19.2	17.4	11.2	14.0
5	20.1	15.4	17.6	19.2	15.8	17.3	21.1	13.8	17.3	20.0	13.8	16.4
6	21.4	16.0	18.4	18.7	13.7	16.0	21.4	13.6	17.3	20.6	15.8	17.6
7	20.7	15.7	17.7	21.8	14.6	17.9	22.5	14.8	18.4	16.8	12.4	14.5
8	18.7	13.6	16.1	21.6	16.5	19.1	23.8	17.5	20.2	16.3	10.1	12.7
9	20.6	14.5	17.4	24.5	17.6	20.8	20.5	16.2	18.0	16.8	12.5	14.4
10	20.2	15.6	18.0	25.5	18.9	22.1	20.9	14.4	17.4	20.3	14.2	16.8
11	20.7	16.7	18.6	25.4	18.7	22.0	18.1	15.2	16.4	21.1	15.7	17.8
12	22.4	17.4	19.6	23.6	18.3	21.0	20.0	15.0	17.0	17.4	15.0	16.1
13	20.1	17.2	18.3	25.6	18.8	21.9	18.1	13.1	15.7	16.5	14.3	15.4
14	18.0	16.6	17.5	25.2	17.8	21.3	17.9	11.7	14.7	15.7	11.3	13.4
15	19.7	15.3	17.1	24.6	17.6	20.9	18.6	11.6	15.1	15.7	9.8	12.6
16	20.9	14.5	17.6	25.6	18.9	22.1	19.5	13.2	16.1	17.1	11.2	13.7
17	21.6	15.1	18.3	25.4	19.5	22.5	17.1	14.5	15.8	14.3	11.4	13.1
18	22.3	15.2	18.7	22.8	17.8	20.0	16.5	14.1	15.3	16.9	11.4	13.9
19	24.0	17.0	20.4	22.5	15.5	18.7	19.1	14.8	16.5	15.5	12.8	13.9
20	21.5	18.2	19.6	23.5	17.1	20.0	19.6	14.2	16.6	16.8	10.5	13.3
21	24.0	17.2	20.3	22.9	16.7	19.6	16.5	12.6	14.5	16.3	10.9	13.7
22	24.3	17.4	20.9	22.8	15.9	19.1	17.3	11.8	14.1	15.7	11.3	13.7
23	26.3	19.0	22.5	19.7	17.0	18.0	17.9	10.0	13.7	14.3	8.1	10.8
24	23.9	20.3	22.0	22.9	17.1	19.7	15.7	12.1	14.1	11.2	9.6	10.5
25	23.4	17.5	20.4	19.6	16.4	18.1	18.6	13.4	15.4	11.5	10.9	11.1
26	22.6	17.7	20.2	17.8	14.9	16.5	16.5	14.0	15.2	14.6	9.8	11.5
27	23.5	19.4	21.1	19.9	12.2	15.9	17.2	11.8	14.4	14.7	8.7	11.5
28	21.7	18.9	20.0	17.7	14.7	15.9	16.2	12.2	14.3	12.7	8.5	10.9
29	19.4	17.1	18.2	19.8	11.9	15.7	15.7	11.9	13.8	10.3	6.1	8.2
30	19.8	17.1	18.2	21.5	14.2	17.5	16.3	11.8	14.0	13.6	8.0	10.2
31	---	---	---	23.7	16.5	19.8	18.8	12.7	15.3	---	---	---
MONTH	26.3	13.6	18.8	25.6	11.9	19.1	24.1	10.0	16.4	21.1	6.1	13.5
YEAR	26.3	6.1	16.2									

05332500 NAMEKAGON RIVER NEAR TREGO, WI

LOCATION.--Lat 45°56'53", long 91°53'17", in NW ¼ SW ¼ sec.17, T.40 N., R.12 W., Washburn County, Hydrologic Unit 07030002, at powerplant of Northern States Power Co., 4.0 mi downstream from Potato Creek, and 4.4 mi northwest of Trego.

DRAINAGE AREA.--488 mi^2.

PERIOD OF RECORD.--October 1927 to September 1970. October 1987 to current year.

REVISED RECORD.--WDR WI-88-1: Drainage area.

GAGE.--Headwater and tailwater read hourly.

REMARKS.--Diurnal fluctuation caused by Trego powerplant.

COOPERATION.--Records of daily discharge furnished by Northern States Power Company and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	360	340	400	375	400	1,230	490	415	450	270	280
2	380	360	340	400	375	400	1,230	500	430	450	270	280
3	380	556	340	410	375	400	1,230	500	430	395	270	280
4	470	556	460	410	375	400	880	500	430	395	270	280
5	470	570	460	410	375	400	880	460	430	375	270	290
6	470	570	460	410	375	400	755	460	375	375	270	300
7	470	570	460	410	375	380	830	460	375	375	752	300
8	470	570	460	410	400	380	850	460	516	365	305	300
9	470	570	460	410	400	380	850	460	516	365	305	260
10	470	450	450	410	400	380	850	460	545	365	300	260
11	470	450	450	410	400	380	850	580	545	370	300	260
12	470	450	450	410	400	280	858	580	545	370	235	260
13	470	450	450	370	400	380	858	650	620	360	235	290
14	360	450	560	370	400	380	858	650	620	325	235	290
15	360	420	230	370	400	360	650	650	660	325	250	260
16	360	420	230	370	400	360	650	600	660	325	250	270
17	360	420	460	340	340	360	650	600	660	325	250	270
18	360	450	370	340	340	378	550	600	660	310	250	270
19	360	450	370	340	340	378	570	600	660	310	260	320
20	360	450	460	335	340	378	570	540	500	300	260	320
21	360	450	460	335	340	378	570	540	560	315	260	320
22	360	450	460	335	340	378	585	540	560	300	260	280
23	360	450	460	335	340	378	585	500	560	300	260	280
24	360	450	460	350	340	378	585	500	375	300	260	280
25	360	350	460	350	400	480	530	500	375	315	260	280
26	360	350	460	350	400	480	530	500	375	250	260	280
27	360	350	460	350	400	480	530	500	375	250	260	365
28	360	350	460	375	400	480	530	500	435	310	260	365
29	360	420	400	375	---	480	490	500	450	270	290	260
30	360	420	400	375	---	600	490	500	450	270	290	260
31	360	---	400	375	---	950	---	415	---	270	280	---
TOTAL	12,320	13,582	13,140	11,640	10,545	13,016	22,074	16,295	15,107	10,380	8,747	8,610
MEAN	397	453	424	375	377	420	736	526	504	335	282	287
MAX	470	570	560	410	400	950	1,230	650	660	450	752	365
MIN	360	350	230	335	340	280	490	415	375	250	235	260
CFSM	0.81	0.93	0.87	0.77	0.77	0.86	1.51	1.08	1.03	0.69	0.58	0.59
IN.	0.94	1.04	1.00	0.89	0.80	0.99	1.68	1.24	1.15	0.79	0.67	0.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005, BY WATER YEAR (WY)

MEAN	446	446	390	354	350	445	734	649	561	492	417	471
MAX	909	814	581	531	512	778	1,827	1,156	1,093	1,026	728	1,834
(WY)	(2003)	(1997)	(2002)	(1969)	(1969)	(1945)	(2001)	(1950)	(1944)	(1958)	(1999)	(1941)
MIN	252	288	251	245	241	282	408	389	276	235	195	214
(WY)	(1949)	(1934)	(1933)	(1933)	(1933)	(1934)	(1931)	(1934)	(1934)	(1934)	(1933)	(1933)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005	
ANNUAL TOTAL	181,807		155,456			
ANNUAL MEAN	497		426		480	
HIGHEST ANNUAL MEAN					654	2002
LOWEST ANNUAL MEAN					300	1934
HIGHEST DAILY MEAN	1,550	Apr 20	1,230	Apr 1	5,200	Sep 2, 1941
LOWEST DAILY MEAN	230	Dec 15	230	Dec 15, 16	113	(a)Aug 17, 1930
ANNUAL SEVEN-DAY MINIMUM	310	Jan 5	244	Aug 12	159	Dec 1, 1927
ANNUAL RUNOFF (CFSM)	1.02		0.873		0.983	
ANNUAL RUNOFF (INCHES)	13.86		11.85		13.36	
10 PERCENT EXCEEDS	860		585		735	
50 PERCENT EXCEEDS	420		400		418	
90 PERCENT EXCEEDS	330		270		288	

(a) Also occurred Sept. 7, 1930

05333500 ST. CROIX RIVER NEAR DANBURY, WI

LOCATION.--Lat 46°04'30", long 92°14'50", in NW $^1/_4$ SE $^1/_4$ sec.33, T.42 N., R.15 W., Burnett County, Hydrologic Unit 07030001, St. Croix National Scenic Waterway, on left bank at downstream side of bridge on State Highway 35, 3.5 mi downstream from Namekagon River, 10 mi northeast of Danbury, and at mile 129.2.

DRAINAGE AREA.--1,580 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1914 to September 1981, October 1984 to current year. Prior to October 1933, published as "at Swiss".

REVISED RECORDS.--WSP 1438: 1915(M), 1919-20, 1923-24(M), 1927(M), 1931(M), 1934, 1935-37(M). WSP 1628: 1918. WDR WI-85-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 882.21 ft above NGVD of 1929. Prior to Apr. 23, 1937, nonrecording gage 40 ft downstream at same datum. Apr. 23, 1937, to Jan. 5, 1939, nonrecording gage at present site and datum.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,060	e2,000	e1,030	e1,010	e957	e994	5,370	1,360	1,130	1,170	577	606
2	1,290	e1,900	e947	e1,020	e950	e1,010	4,950	1,270	1,090	1,140	549	529
3	1,240	e1,850	e949	e1,060	e935	e1,010	4,300	1,250	1,060	1,080	564	510
4	1,190	1,740	e1,000	e1,060	e950	e1,020	3,860	1,220	1,040	990	561	571
5	1,210	1,530	1,060	e1,050	e979	e1,030	3,540	1,200	1,230	933	519	593
6	1,090	1,490	1,100	e1,060	e972	e999	3,740	1,220	1,450	921	546	593
7	1,100	1,440	1,090	e1,120	e1,010	e981	4,320	1,250	1,490	895	544	573
8	1,080	e1,400	1,100	e1,120	e1,020	e920	3,990	1,180	1,510	865	534	582
9	1,060	e1,300	1,110	e1,050	e1,010	e920	3,540	1,190	1,530	846	537	579
10	1,040	e1,240	1,130	e1,000	e1,020	e932	3,240	1,340	1,450	832	627	584
11	1,020	1,210	1,140	e950	e1,030	e951	3,070	1,490	1,750	800	640	551
12	1,000	1,200	1,120	e922	e1,040	e908	2,740	1,470	1,780	769	617	590
13	988	1,190	e883	e920	e1,050	e884	2,410	1,420	1,670	785	542	1,110
14	976	1,170	e758	e925	e1,070	e945	2,100	1,500	2,060	776	521	1,230
15	1,020	1,160	e735	e912	e1,040	e914	1,830	1,480	2,390	761	526	1,020
16	1,010	1,150	e758	e970	e972	e890	1,710	1,470	2,390	722	534	833
17	943	1,120	e941	e877	e899	e908	1,620	1,370	2,050	717	544	768
18	955	1,120	e1,080	e865	e877	e932	1,630	1,390	1,800	683	558	737
19	956	1,140	e1,020	e853	e841	e945	1,640	1,510	1,560	650	581	750
20	951	1,270	e1,080	e900	e855	e939	1,700	1,580	1,490	647	593	794
21	943	1,280	e1,150	e877	e884	e932	1,650	1,520	1,550	639	574	769
22	925	1,200	e1,170	e889	e884	e926	1,650	1,410	1,420	638	575	714
23	1,010	1,140	e1,190	e900	e841	e950	1,660	1,330	1,280	644	536	698
24	1,100	e1,060	e1,190	e912	e913	e1,070	1,570	1,380	1,190	652	549	720
25	1,150	e1,000	e1,170	e889	e935	e1,150	1,430	1,330	1,100	605	565	747
26	1,090	e1,000	e1,230	e935	e986	e1,240	1,420	1,370	1,120	607	587	898
27	1,080	e1,040	e1,250	e912	e964	1,260	1,460	1,250	999	588	599	898
28	1,130	1,100	e1,200	e959	e986	1,210	1,460	1,250	1,020	612	589	816
29	1,540	1,120	e1,170	e924	---	1,440	1,440	1,240	1,070	624	593	765
30	1,970	e1,070	e1,090	e935	---	2,260	1,390	1,210	1,150	620	598	739
31	e2,020	---	e1,030	e943	---	4,200	---	1,170	---	605	606	---
TOTAL	35,137	38,630	32,871	29,719	26,870	35,670	76,430	41,620	43,819	23,816	17,585	21,867
MEAN	1,133	1,288	1,060	959	960	1,151	2,548	1,343	1,461	768	567	729
MAX	2,020	2,000	1,250	1,120	1,070	4,200	5,370	1,580	2,390	1,170	640	1,230
MIN	925	1,000	735	853	841	884	1,390	1,170	999	588	519	510
CFSM	0.72	0.81	0.67	0.61	0.61	0.73	1.61	0.85	0.92	0.49	0.36	0.46
IN.	0.83	0.91	0.77	0.70	0.63	0.84	1.80	0.98	1.03	0.56	0.41	0.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

MEAN	1,187	1,211	1,020	907	903	1,331	2,378	1,839	1,513	1,291	1,066	1,196
MAX	2,489	2,216	1,910	1,555	1,518	2,930	4,944	4,023	3,797	3,230	2,223	4,759
(WY)	(1969)	(1997)	(1992)	(1997)	(1997)	(1973)	(2001)	(1950)	(1944)	(1958)	(1955)	(1941)
MIN	590	631	551	600	535	703	939	889	626	514	432	564
(WY)	(1933)	(1926)	(1933)	(1924)	(1936)	(1934)	(1931)	(1931)	(1934)	(1934)	(1934)	(1933)

05333500 ST. CROIX RIVER NEAR DANBURY, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1914 - 2005	
ANNUAL TOTAL	471,780		424,034			
ANNUAL MEAN	1,289		1,162		1,319	
HIGHEST ANNUAL MEAN					1,982	1986
LOWEST ANNUAL MEAN					795	1934
HIGHEST DAILY MEAN	4,030	Apr 22	5,370	Apr 1	10,600	Apr 24, 2001
LOWEST DAILY MEAN	(a)680	Jan 29, 30	510	Sep 3	405	(b)Aug 6, 1934
ANNUAL SEVEN-DAY MINIMUM	(a)694	Jan 27	544	Aug 3	417	Aug 12, 1934
MAXIMUM PEAK FLOW			5,430	Apr 1	11,000	Apr 24, 2001
MAXIMUM PEAK STAGE			5.02	Apr 1	8.72	Apr 24, 2001
INSTANTANEOUS LOW FLOW			495	(c)Aug 5	393	Aug 6, 13, 1934
ANNUAL RUNOFF (CFSM)	0.816		0.735		0.835	
ANNUAL RUNOFF (INCHES)	11.11		9.98		11.34	
10 PERCENT EXCEEDS	2,080		1,640		2,180	
50 PERCENT EXCEEDS	1,100		1,030		1,080	
90 PERCENT EXCEEDS	758		593		730	

(a) Ice affected
(b) Also occurred Aug. 13, 16, 17, 1934
(c) Also occurred Sept. 2, 3
(e) Estimated

05333500 ST. CROIX RIVER NEAR DANBURY, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1995 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April to September 1997, December 1999 to current year.

INSTRUMENTATION.--Continuous water temperature recorder April to September 1997 and December 1999 to current year.

REMARKS.--Records represent water temperature at sensor within 0.5°C.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum temperature, 30.5°C, Aug. 6, 2001; minimum, 0.0°C on many days.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum temperature, 28.4°C, Aug. 1; minimum 0.0° on Jan. 17.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	14.6	11.8	13.7	---	---	---	0.2	0.1	0.1	0.1	0.1	0.1
2	11.8	9.6	10.8	---	---	---	0.2	0.1	0.1	0.1	0.1	0.1
3	12.5	9.8	11.0	---	---	---	0.2	0.1	0.1	0.1	0.1	0.1
4	11.0	9.1	10.1	7.6	6.5	7.0	0.9	0.1	0.5	0.1	0.1	0.1
5	10.9	7.9	9.5	7.4	5.8	6.5	0.5	0.1	0.2	0.1	0.1	0.1
6	13.5	10.0	11.5	7.7	6.1	6.8	0.5	0.1	0.2	0.1	0.1	0.1
7	14.4	12.3	13.3	6.8	5.0	6.2	1.6	0.5	1.1	0.1	0.1	0.1
8	14.4	12.9	13.9	---	---	---	1.7	1.2	1.5	0.1	0.1	0.1
9	12.9	10.6	11.8	---	---	---	1.8	1.1	1.5	0.1	0.1	0.1
10	12.2	9.3	10.9	---	---	---	2.2	1.6	1.8	0.1	0.1	0.1
11	12.6	9.6	11.1	5.1	2.4	3.7	1.6	1.2	1.4	0.1	0.1	0.1
12	12.4	10.0	11.3	2.8	1.4	2.1	1.3	0.1	0.8	0.1	0.1	0.1
13	11.3	9.7	10.4	2.6	0.9	1.8	0.2	0.1	0.1	0.1	0.1	0.1
14	9.7	8.4	9.0	3.0	1.2	2.1	0.2	0.1	0.1	0.1	0.1	0.1
15	9.1	8.2	8.7	3.8	1.9	2.8	0.2	0.1	0.1	0.1	0.1	0.1
16	8.5	6.6	7.6	4.7	2.8	3.9	0.2	0.1	0.1	0.1	0.1	0.1
17	7.3	5.8	6.6	5.9	4.7	5.4	0.1	0.1	0.1	0.1	0.0	0.1
18	8.3	6.8	7.5	6.1	4.5	5.6	0.1	0.1	0.1	0.1	0.1	0.1
19	7.8	7.3	7.6	4.5	3.8	4.1	0.1	0.1	0.1	0.1	0.1	0.1
20	9.0	7.0	7.8	4.6	3.9	4.4	0.1	0.1	0.1	0.1	0.1	0.1
21	9.2	7.1	8.1	3.9	2.5	3.1	0.1	0.1	0.1	0.1	0.1	0.1
22	9.1	7.9	8.3	3.3	1.9	2.7	0.1	0.1	0.1	0.1	0.1	0.1
23	11.3	8.9	10.2	3.2	1.9	2.8	0.1	0.1	0.1	0.2	0.1	0.1
24	10.8	9.3	10.1	1.9	0.2	0.9	0.1	0.1	0.1	0.1	0.1	0.1
25	10.1	8.8	9.5	0.6	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1
26	8.9	7.8	8.3	1.3	0.2	0.8	0.1	0.1	0.1	0.1	0.1	0.1
27	8.4	7.7	8.0	2.2	1.3	1.8	0.1	0.1	0.1	0.2	0.1	0.1
28	9.3	8.3	8.7	1.4	0.4	0.8	0.1	0.1	0.1	0.1	0.1	0.1
29	11.4	9.3	10.2	0.9	0.2	0.7	0.1	0.1	0.1	0.1	0.1	0.1
30	11.3	9.7	10.8	0.3	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
31	---	---	---	---	---	---	0.2	0.1	0.1	0.2	0.1	0.1
MONTH	14.6	5.8	9.9	7.7	0.1	3.2	2.2	0.1	0.4	0.2	0.0	0.1

05333500 ST. CROIX RIVER NEAR DANBURY, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.2	0.1	0.1	0.3	0.1	0.2	3.8	2.6	3.0	8.6	6.9	7.6
2	0.3	0.1	0.1	0.4	0.1	0.1	4.8	2.0	3.5	7.5	6.2	6.9
3	0.4	0.1	0.1	0.4	0.1	0.2	5.8	3.5	4.7	10.5	4.8	7.5
4	0.3	0.1	0.1	0.4	0.1	0.2	6.6	4.7	5.5	13.3	7.5	10.2
5	0.5	0.1	0.2	0.5	0.2	0.2	7.4	5.7	6.5	14.7	10.0	12.1
6	0.2	0.1	0.1	0.7	0.1	0.3	6.9	5.1	6.0	16.5	11.5	13.7
7	0.1	0.1	0.1	0.4	0.1	0.2	7.1	3.9	5.5	15.1	12.1	13.5
8	0.1	0.1	0.1	0.5	0.1	0.2	8.5	6.2	7.3	16.7	12.7	14.6
9	0.1	0.1	0.1	0.5	0.1	0.2	9.7	7.6	8.6	16.9	15.3	15.9
10	0.3	0.1	0.1	0.2	0.1	0.2	9.5	8.8	9.2	16.3	14.5	15.2
11	0.3	0.1	0.1	0.3	0.1	0.2	9.6	8.7	9.1	15.0	12.1	13.9
12	0.4	0.1	0.1	0.3	0.1	0.2	9.9	8.6	9.1	12.1	10.6	11.2
13	0.2	0.1	0.1	0.4	0.1	0.2	10.7	7.6	9.1	11.2	10.4	10.7
14	0.2	0.1	0.1	0.3	0.1	0.2	12.2	8.6	10.2	12.7	10.7	11.6
15	0.2	0.1	0.1	0.3	0.2	0.2	13.1	9.9	11.4	12.5	10.6	11.5
16	0.2	0.1	0.1	0.2	0.2	0.2	12.5	10.9	12.0	13.4	10.0	11.6
17	0.3	0.1	0.1	0.3	0.1	0.2	13.5	10.2	11.6	14.8	12.3	13.5
18	0.2	0.1	0.1	0.3	0.2	0.2	16.7	12.4	14.3	13.7	12.8	13.3
19	0.5	0.1	0.1	0.4	0.2	0.2	15.8	13.7	14.8	13.4	12.5	12.8
20	0.2	0.1	0.1	0.6	0.2	0.3	15.1	12.6	13.7	16.3	12.5	14.0
21	0.3	0.1	0.1	0.6	0.2	0.3	15.2	11.6	13.3	16.9	14.7	15.5
22	0.4	0.1	0.1	0.7	0.2	0.3	13.6	10.6	12.3	15.4	14.0	14.8
23	0.3	0.1	0.1	---	---	---	12.5	9.1	10.7	16.2	13.2	14.4
24	0.2	0.1	0.1	0.8	0.2	0.5	13.8	9.8	11.6	18.5	13.5	16.0
25	0.2	0.1	0.1	2.3	0.2	1.1	12.1	10.1	11.4	17.2	15.0	16.4
26	0.3	0.1	0.1	3.4	0.2	1.6	10.5	9.3	9.8	16.8	13.7	15.3
27	0.2	0.1	0.1	4.7	1.2	2.9	9.4	8.4	8.9	16.6	14.6	15.4
28	0.2	0.1	0.2	6.5	2.8	4.5	9.4	7.3	8.5	16.3	13.9	15.1
29	---	---	---	7.1	4.0	5.4	10.6	8.1	9.2	18.4	13.8	16.0
30	---	---	---	5.6	3.6	4.9	9.0	7.5	8.3	19.6	15.5	17.5
31	---	---	---	4.5	2.7	3.7	---	---	---	21.1	15.6	18.2
MONTH	0.5	0.1	0.1	7.1	0.1	1.0	16.7	2.0	9.3	21.1	4.8	13.4
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.7	17.1	19.0	23.3	19.0	21.0	28.4	20.5	23.4	20.7	15.4	17.2
2	22.2	17.7	19.9	24.5	19.6	22.0	27.9	19.2	22.9	26.4	13.1	17.6
3	21.7	18.8	20.3	23.5	20.9	22.2	27.3	21.3	23.5	19.7	9.4	14.1
4	20.1	19.0	19.6	24.8	20.2	22.4	25.0	17.5	21.2	20.1	12.6	16.4
5	21.5	18.2	19.7	22.7	20.5	21.4	27.5	14.3	19.7	22.9	16.6	19.2
6	22.7	19.0	20.6	23.1	18.2	20.5	24.5	13.7	18.8	23.5	17.3	20.2
7	22.3	19.4	20.6	24.5	19.2	21.7	27.2	16.1	21.0	21.8	15.4	17.4
8	20.9	17.8	19.3	24.3	21.2	22.8	27.6	19.4	22.6	21.3	13.5	16.6
9	21.7	18.0	19.7	27.0	21.6	24.1	22.4	18.4	20.4	21.0	14.9	17.7
10	21.1	19.1	20.1	28.2	23.4	25.6	24.0	17.2	20.4	24.0	17.3	19.9
11	22.2	19.5	20.7	28.1	23.6	25.7	21.3	19.0	20.3	26.0	18.1	21.0
12	23.5	20.0	21.6	28.2	23.3	25.5	23.0	18.3	20.1	21.4	19.1	20.1
13	22.0	20.5	21.2	27.9	23.0	25.4	24.4	14.8	18.4	20.3	18.8	19.7
14	20.5	19.4	19.8	28.2	22.6	25.1	24.7	11.9	17.1	19.4	17.2	18.3
15	21.8	18.8	20.1	27.3	23.0	25.1	24.3	12.1	17.2	19.0	15.7	17.5
16	22.3	19.3	20.8	27.1	23.5	25.3	24.9	13.7	18.6	20.2	16.3	18.1
17	22.9	19.5	21.1	28.3	24.2	26.0	23.2	16.8	19.4	18.9	16.7	17.9
18	23.5	19.7	21.5	25.8	20.0	22.6	20.9	16.4	18.4	20.2	16.1	18.2
19	24.9	20.4	22.5	23.4	17.6	20.3	23.0	17.1	18.9	19.8	17.8	18.7
20	23.2	20.9	22.1	25.3	19.7	21.8	22.7	15.3	18.3	20.2	16.0	18.1
21	24.6	20.1	22.2	26.2	19.2	22.2	21.8	13.5	16.4	20.3	16.3	18.4
22	25.7	21.5	23.6	26.0	20.1	22.4	22.1	12.2	16.1	19.4	16.6	18.0
23	27.7	22.8	25.0	23.2	20.5	21.7	23.9	9.8	15.8	17.3	13.8	15.6
24	27.1	24.1	25.3	24.9	21.2	22.8	20.4	12.9	16.1	15.6	14.2	15.0
25	26.0	22.0	24.0	23.3	19.1	20.8	23.6	15.5	18.3	15.6	15.0	15.3
26	25.4	22.2	23.8	20.3	16.9	18.3	21.0	17.0	18.3	17.2	14.3	15.6
27	26.2	23.0	24.2	22.5	14.3	18.1	21.8	15.1	17.6	17.4	13.7	15.6
28	25.5	23.0	24.0	22.5	17.0	19.0	21.0	14.5	17.6	16.5	13.2	15.1
29	23.6	21.6	22.1	23.3	16.3	19.3	20.3	14.2	17.2	13.2	10.8	12.2
30	22.1	20.3	21.1	25.5	17.5	21.0	21.1	14.0	16.9	15.4	11.3	13.2
31	---	---	---	26.7	19.3	22.5	21.2	14.4	17.5	---	---	---
MONTH	27.7	17.1	21.5	28.3	14.3	22.4	28.4	9.8	19.0	26.4	9.4	17.3
YEAR	28.4	0.0	10.0									

05340500 ST. CROIX RIVER AT ST. CROIX FALLS, WI

LOCATION.--Lat 45°24'25", long 92°38'49", in SW $^1/_4$ NW $^1/_4$ sec.30, T.34 N., R.18 W., Polk County, Hydrologic Unit 07030005, St. Croix National Scenic Riverway, on left bank, 1,500 ft downstream from powerplant of Northern States Power Co., in St. Croix Falls, and at mile 52.2.

DRAINAGE AREA.--6,240 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1902 to current year. Prior to January 1910, monthly discharge only, published in WSP 1308. Prior to October 1939, published as "near St. Croix Falls."

REVISED RECORDS.--WSP 1115: 1929. WDR WI-82-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 689.94 ft above NGVD of 1929. Prior to July 1905, gage heights and discharge measurements were used by Loweth and Wolff, consulting engineers of St. Paul, Minn., to determine the flow. July 1905 to February 1940, records were computed from power generation at the St. Croix Falls Powerplant. February 1940 to Sept. 30, 1979, water-stage recorder at site 300 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair (see Introduction). Diurnal fluctuation caused by St. Croix Falls Powerplant 1,500 ft upstream. Gage-height telemeter and data-collection platform at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,950	8,100	3,170	2,780	2,280	2,430	19,400	5,330	6,430	4,590	1,730	1,600
2	4,070	8,030	2,980	e2,620	e2,430	2,450	22,400	5,150	5,940	5,500	1,680	1,470
3	4,370	7,490	2,450	e2,500	2,360	2,380	24,700	4,890	5,490	5,790	1,580	1,460
4	4,700	7,290	3,040	e2,480	2,410	2,470	23,300	4,690	5,200	5,360	1,430	1,460
5	4,660	6,520	3,470	e2,420	e2,650	2,330	21,400	4,480	4,880	4,890	1,450	1,630
6	4,560	6,310	3,340	2,280	2,780	2,580	20,600	4,210	4,940	4,490	1,340	1,650
7	4,190	5,940	3,270	2,420	2,720	2,920	22,100	4,190	5,410	4,020	1,350	1,720
8	4,190	5,390	3,930	2,490	2,790	3,110	21,800	4,250	5,960	3,790	1,400	1,670
9	4,080	5,430	3,710	2,370	2,840	2,810	21,700	4,220	6,360	3,500	1,370	1,470
10	3,250	5,220	3,730	2,180	2,830	2,800	20,400	4,140	7,310	3,350	1,370	1,640
11	3,460	4,530	4,220	e2,420	2,810	2,660	18,200	4,550	7,490	3,150	1,390	1,510
12	3,530	4,290	3,640	2,220	2,750	2,830	16,200	4,570	8,040	3,100	1,480	1,530
13	3,580	4,300	2,800	2,220	2,510	2,670	14,800	4,650	8,260	2,660	1,480	3,620
14	3,350	4,240	1,930	e2,200	3,130	2,550	13,400	4,770	9,060	2,520	1,370	4,350
15	3,080	4,050	1,650	e2,120	2,850	2,600	12,000	4,720	10,300	2,490	1,300	3,670
16	3,200	3,600	2,200	e2,160	2,880	2,530	10,900	4,740	11,200	2,310	1,280	3,360
17	3,210	3,850	2,620	e2,090	2,710	2,530	9,990	4,610	10,900	2,260	1,330	2,990
18	3,180	3,840	3,150	e2,060	2,650	2,530	9,270	4,540	9,780	2,140	1,440	2,670
19	3,170	4,210	2,760	e2,030	2,650	2,570	8,790	4,910	8,610	2,010	1,360	2,470
20	3,090	3,770	2,450	e1,980	2,470	2,490	8,320	5,990	7,710	1,980	1,590	2,510
21	3,230	4,300	e2,170	e1,980	2,520	2,630	7,880	7,300	7,680	2,010	1,460	2,570
22	3,140	4,260	e2,120	e2,100	2,520	2,690	7,700	7,490	7,990	1,750	1,350	2,610
23	3,380	4,160	e2,240	e2,330	2,500	2,860	7,390	7,300	7,570	1,920	1,410	2,330
24	3,640	4,060	e2,240	e2,340	2,510	3,310	7,080	6,540	6,700	1,820	1,260	2,290
25	4,090	3,760	e2,100	2,280	2,530	3,540	6,840	6,350	6,140	1,910	1,320	2,270
26	4,340	3,800	e2,120	e2,380	2,430	4,000	7,140	6,380	5,280	1,910	1,600	2,520
27	4,340	3,800	e2,100	e2,380	2,480	4,350	6,020	6,860	4,910	1,910	1,860	2,710
28	4,590	3,800	2,290	2,340	2,470	5,330	4,970	7,260	4,860	1,780	1,660	2,920
29	5,490	3,680	2,510	e2,380	---	6,770	5,240	7,200	4,450	1,550	1,680	2,730
30	6,700	3,580	e2,450	e2,390	---	9,110	5,590	6,940	4,370	1,710	1,520	2,600
31	7,520	---	e2,560	e2,430	---	14,300	---	6,740	---	1,720	1,580	---
TOTAL	125,330	145,600	85,410	71,370	73,460	111,130	405,520	169,960	209,220	89,890	45,420	70,000
MEAN	4,043	4,853	2,755	2,302	2,624	3,585	13,520	5,483	6,974	2,900	1,465	2,333
MAX	7,520	8,100	4,220	2,780	3,130	14,300	24,700	7,490	11,200	5,790	1,860	4,350
MIN	3,080	3,580	1,650	1,980	2,280	2,330	4,970	4,140	4,370	1,550	1,260	1,460
CFSM	0.65	0.78	0.44	0.37	0.42	0.57	2.17	0.88	1.12	0.46	0.23	0.37
IN.	0.75	0.87	0.51	0.43	0.44	0.66	2.42	1.01	1.25	0.54	0.27	0.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 2005, BY WATER YEAR (WY)

MEAN	3,765	3,514	2,606	2,198	2,176	4,227	10,348	7,518	5,783	4,193	2,930	3,495
MAX	14,270	11,910	5,821	4,279	6,021	14,420	29,600	21,840	19,510	17,260	9,777	14,590
(WY)	(1969)	(1972)	(1984)	(1984)	(1984)	(1945)	(2001)	(1950)	(1944)	(1952)	(1955)	(1941)
MIN	1,380	1,342	1,288	1,157	1,257	1,538	2,212	2,430	1,481	1,014	839	1,152
(WY)	(1933)	(1911)	(1911)	(1911)	(1913)	(1912)	(1902)	(1934)	(1934)	(1934)	(1934)	(1933)

05340500 ST. CROIX RIVER AT ST. CROIX FALLS, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1902 - 2005	
ANNUAL TOTAL	1,711,040		1,602,310			
ANNUAL MEAN	4,675		4,390		4,408	
HIGHEST ANNUAL MEAN					8,569	1986
LOWEST ANNUAL MEAN					1,754	1934
HIGHEST DAILY MEAN	21,400	Jun 3	24,700	Apr 3	59,500	Apr 26, 2001
LOWEST DAILY MEAN	1,650	Dec 15	1,260	Aug 24	75	Jul 17, 1910
ANNUAL SEVEN-DAY MINIMUM	2,020	Jan 6	1,370	Aug 13	754	Jul 29, 1934
MAXIMUM PEAK FLOW			31,100	Apr 3	60,900	Apr 25, 2001
MAXIMUM PEAK STAGE			14.51	Apr 3	25.88	Apr 25, 2001
ANNUAL RUNOFF (CFSM)	0.749		0.704		0.706	
ANNUAL RUNOFF (INCHES)	10.20		9.55		9.59	
10 PERCENT EXCEEDS	9,120		7,690		8,980	
50 PERCENT EXCEEDS	3,640		3,140		2,810	
90 PERCENT EXCEEDS	2,200		1,650		1,580	

(e) Estimated

05340500 ST. CROIX RIVER AT ST. CROIX FALLS, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: January 2000 to current year.

INSTRUMENTATION.--Water temperature recorder since January 21, 2000, provides 15-minute readings.

REMARKS.--Records represent water temperature at sensor, within 0.5°C, located near the orifice.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 30.5°C, Aug. 7-9, 2001; minimum 0.0°C on many days.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 30.3°C, July 17; minimum 0.0°C on many days.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.4	14.2	14.7	10.3	9.0	9.6	0.5	0.0	0.0	0.3	0.0	0.0
2	14.6	12.4	13.7	9.7	8.2	8.9	0.5	0.0	0.1	0.3	0.0	0.0
3	13.3	11.3	12.3	8.9	7.4	8.2	0.6	0.0	0.1	0.2	0.0	0.0
4	12.5	10.7	11.5	8.3	6.6	7.4	0.5	0.0	0.2	0.6	0.0	0.0
5	11.9	10.1	11.0	7.3	6.1	6.7	0.7	0.0	0.1	0.3	0.0	0.0
6	12.2	9.9	10.9	7.2	5.8	6.3	0.6	0.0	0.1	0.2	0.0	0.0
7	13.2	10.8	12.1	6.8	5.4	6.2	0.8	0.0	0.1	0.4	0.0	0.0
8	14.4	12.5	13.5	6.2	4.6	5.6	0.5	0.0	0.1	0.4	0.0	0.0
9	15.1	13.3	14.0	6.0	4.4	5.1	0.6	0.0	0.1	0.3	0.0	0.0
10	14.9	12.9	13.7	5.9	4.6	5.3	0.5	0.0	0.1	0.3	0.0	0.0
11	13.7	12.4	13.1	5.7	4.0	5.0	0.5	0.0	0.0	0.5	0.0	0.0
12	13.4	12.2	12.8	4.6	2.8	3.8	0.5	0.0	0.0	0.3	0.0	0.0
13	12.9	11.0	12.1	3.8	1.8	2.8	0.3	0.0	0.0	0.1	0.0	0.0
14	11.7	10.5	11.0	3.1	1.6	2.2	0.9	0.0	0.1	0.4	0.0	0.0
15	10.9	9.3	10.1	3.1	1.5	2.1	0.7	0.0	0.2	0.3	0.0	0.0
16	10.0	8.1	9.0	3.3	1.9	2.6	0.6	0.0	0.1	0.4	0.0	0.0
17	8.6	7.0	7.8	4.3	2.8	3.4	0.5	0.0	0.1	0.6	0.0	0.0
18	7.8	6.7	7.3	5.1	3.7	4.4	0.5	0.0	0.0	0.6	0.0	0.1
19	7.6	6.7	7.2	5.6	4.4	5.0	0.4	0.0	0.0	0.3	0.0	0.0
20	8.3	6.9	7.6	5.6	4.3	4.9	0.5	0.0	0.1	0.2	0.0	0.0
21	8.7	7.2	7.9	4.9	3.4	4.2	0.3	0.0	0.0	0.1	0.0	0.0
22	9.4	8.1	8.8	4.1	2.7	3.4	0.3	0.0	0.0	0.4	0.0	0.0
23	10.3	9.0	9.6	3.2	1.9	2.6	0.2	0.0	0.0	0.3	0.0	0.0
24	11.5	9.6	10.4	2.7	1.3	2.1	0.3	0.0	0.0	0.3	0.0	0.0
25	11.1	9.8	10.3	1.6	0.6	1.1	0.3	0.0	0.0	0.4	0.0	0.0
26	11.0	9.7	10.2	0.8	0.0	0.3	0.6	0.0	0.1	0.1	0.0	0.0
27	10.1	8.6	9.4	0.8	0.0	0.3	0.3	0.0	0.0	0.2	0.0	0.0
28	9.7	8.3	9.2	1.0	0.0	0.3	0.3	0.0	0.0	0.4	0.0	0.0
29	10.5	8.9	9.7	0.9	0.0	0.2	0.3	0.0	0.0	0.5	0.0	0.0
30	11.3	10.1	10.7	1.1	0.0	0.3	0.5	0.0	0.1	0.4	0.0	0.0
31	10.8	9.7	10.3	---	---	---	0.3	0.0	0.0	0.3	0.0	0.0
MONTH	15.4	6.7	10.7	10.3	0.0	4.0	0.9	0.0	0.1	0.6	0.0	0.0

05340500 ST. CROIX RIVER AT ST. CROIX FALLS, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.3	0.0	0.0	0.7	0.0	0.1	2.8	1.3	2.0	8.7	7.3	8.0
2	0.4	0.0	0.0	0.7	0.0	0.1	3.1	1.0	2.1	8.0	6.3	7.3
3	0.6	0.0	0.1	0.8	0.0	0.1	4.4	1.8	2.9	8.3	6.2	7.1
4	0.6	0.0	0.1	0.5	0.0	0.1	5.6	2.7	4.1	10.1	6.3	8.4
5	0.7	0.0	0.1	0.5	0.0	0.1	6.8	4.2	5.6	12.0	8.3	10.4
6	0.3	0.0	0.0	1.4	0.0	0.3	6.8	5.4	6.2	14.3	10.8	12.6
7	0.5	0.0	0.0	0.8	0.0	0.1	7.2	5.1	6.1	15.6	12.6	14.1
8	0.4	0.0	0.0	0.7	0.0	0.1	7.6	5.3	6.3	16.3	14.1	15.1
9	0.3	0.0	0.0	1.0	0.0	0.2	8.7	6.1	7.3	17.5	15.1	16.3
10	0.4	0.0	0.0	0.5	0.0	0.1	10.1	7.5	8.7	17.7	16.1	16.8
11	0.9	0.0	0.1	0.4	0.0	0.0	10.1	8.8	9.5	17.0	15.3	16.0
12	0.8	0.0	0.2	0.8	0.0	0.1	10.2	8.5	9.4	15.7	12.5	14.6
13	0.5	0.0	0.1	1.0	0.0	0.1	9.8	7.7	8.8	13.2	9.9	11.4
14	0.4	0.0	0.1	0.6	0.0	0.1	10.3	8.1	9.2	11.3	10.0	10.6
15	0.6	0.0	0.1	0.7	0.0	0.1	11.3	8.7	10	11.9	10.0	10.9
16	0.3	0.0	0.0	0.6	0.0	0.1	11.1	9.5	10.4	13.1	10.3	11.6
17	0.4	0.0	0.0	1.4	0.0	0.2	11.9	9.7	10.7	13.8	11.4	12.7
18	0.6	0.0	0.1	0.5	0.0	0.1	14.2	11.1	12.5	14.2	12.2	13.4
19	0.5	0.0	0.1	1.1	0.0	0.2	14.9	13.0	13.9	14.6	13.4	13.9
20	0.4	0.0	0.0	1.2	0.0	0.3	15.0	13.1	14.1	15.2	13.5	14.3
21	0.5	0.0	0.0	1.2	0.0	0.4	15.2	13.4	14.2	15.2	14.2	14.8
22	0.6	0.0	0.1	1.6	0.0	0.5	14.5	12.5	13.5	15.2	14.3	14.8
23	0.8	0.0	0.1	1.6	0.0	0.6	12.8	10.7	11.6	15.5	14.1	14.8
24	0.2	0.0	0.0	1.7	0.0	0.8	12.1	10.0	11.1	16.5	15.0	15.7
25	0.4	0.0	0.0	1.8	0.0	0.7	12.1	10.3	11.0	17.4	16.0	16.7
26	0.6	0.0	0.1	2.2	0.0	0.8	11.2	9.9	10.5	17.0	15.3	16.2
27	0.4	0.0	0.0	1.8	0.1	0.9	10.5	8.7	9.5	16.3	15.5	15.9
28	0.4	0.0	0.0	2.2	0.4	1.1	9.4	7.9	8.6	16.1	14.9	15.5
29	---	---	---	2.3	0.5	1.3	9.5	8.2	8.7	15.9	14.7	15.3
30	---	---	---	2.0	0.0	1.0	9.1	7.8	8.4	17.0	15.4	16.1
31	---	---	---	1.9	0.0	0.7	---	---	---	18.4	16.5	17.5
MONTH	0.9	0.0	0.1	2.3	0.0	0.4	15.2	1.0	8.9	18.4	6.2	13.5
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.1	17.6	18.5	22.9	20.9	22.0	26.8	23.9	25.1	---	---	---
2	19.8	18.6	19.1	23.3	20.8	22.0	28.0	25.2	26.2	23.2	20.7	21.8
3	20.8	19.0	20.0	23.1	21.5	22.2	28.5	26.0	27.1	21.3	19.8	20.5
4	20.7	19.4	20.0	23.1	21.5	22.3	28.8	26.4	27.4	21.2	19.4	20.0
5	20.8	19.4	20.1	23.6	21.9	22.7	---	---	---	21.2	19.6	20.1
6	22.1	19.7	20.8	23.7	21.8	22.6	---	---	---	21.4	19.7	20.4
7	23.0	21.0	21.9	24.3	21.5	22.9	---	---	---	22.9	20.6	21.6
8	22.3	20.8	21.7	25.1	22.3	23.6	---	---	---	23.4	21.2	21.8
9	22.1	20.8	21.3	25.5	23.1	24.1	---	---	---	22.9	21.2	21.7
10	21.8	20.4	21.1	26.6	24.2	25.3	---	---	---	23.2	21.1	21.7
11	21.3	20.3	20.8	27.8	25.6	26.5	---	---	---	23.3	21.5	22.1
12	22.1	20.4	21.1	28.4	26.5	27.4	---	---	---	23.2	22.1	22.6
13	22.4	21.0	21.8	29.2	26.9	27.9	---	---	---	23.4	21.9	22.7
14	22.0	20.2	21.0	29.2	27.1	28.2	---	---	---	22.1	19.4	20.7
15	20.8	19.4	20.1	29.3	27.7	28.4	---	---	---	20.2	18.8	19.3
16	21.8	19.7	20.4	29.9	28.1	28.8	---	---	---	19.4	17.9	18.7
17	22.1	19.9	20.9	30.3	28.1	29.1	---	---	---	19.1	17.9	18.5
18	22.6	20.6	21.6	29.2	27.5	28.3	---	---	---	19.7	18.4	18.9
19	23.5	21.3	22.3	28.3	25.5	27.1	---	---	---	20.2	18.9	19.4
20	23.3	22.3	22.9	26.4	24.6	25.6	24.1	22.3	23.0	20.6	19.1	19.7
21	23.2	21.3	22.4	27.0	24.6	25.6	23.3	21.7	22.4	20.5	19.3	19.8
22	24.7	22.7	23.5	27.6	25.1	26.2	23.3	21.4	22.1	20.5	19.0	19.9
23	26.0	23.7	24.6	26.9	23.0	26.0	22.7	20.5	21.5	20.1	18.3	19.3
24	26.0	24.6	25.4	27.1	25.2	26.0	22.2	20.6	21.2	18.8	17.0	18.1
25	26.1	24.9	25.5	26.4	24.4	25.3	22.3	20.7	21.2	17.6	16.1	17.0
26	25.9	24.4	25.3	25.7	23.9	24.6	21.9	20.7	21.2	17.5	15.9	16.5
27	26.4	23.6	24.9	24.9	22.2	23.8	22.3	20.5	21.8	17.0	15.6	16.3
28	25.4	23.8	24.6	23.7	22.0	22.9	---	---	---	16.9	15.5	16.2
29	24.9	23.7	24.2	24.3	21.7	22.6	---	---	---	16.3	14.6	15.6
30	23.9	22.4	23.3	24.5	21.9	23.2	---	---	---	15.0	13.7	14.3
31	---	---	---	25.2	22.8	24.1	---	---	---	---	---	---
MONTH	26.4	17.6	22.0	30.3	20.8	25.1	28.8	20.5	23.4	23.4	13.7	19.5
YEAR	30.3	0.0	10.0									

05341500 APPLE RIVER NEAR SOMERSET, WI

LOCATION.--Lat 45°09'27", long 92°42'59", in NE ¼ SE ¼ sec.21, T.31 N., R.19 W., St. Croix County, Hydrologic Unit 07030005, at powerplant of Northern States Power Co., 3.5 mi downstream from Somerset.

DRAINAGE AREA.--579 mi^2.

PERIOD OF RECORD.--January 1901 to June 1914 (monthly discharge only), July 1914 to September 1970, October 1986 to current year.

REVISED RECORDS.--WSP 1388: 1929, 1933. WDR-87-1: Drainage area.

GAGE.--Headwater and tailwater gages read hourly.

REMARKS.--Records of daily discharge computed on the basis of gate openings, head, and plant efficiency. Flow regulated by many powerplants upstream, but service ponds are small and monthly flows are only slightly affected.

COOPERATION.--Records of daily discharge furnished by Northern States Power Company and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	367	663	355	319	313	311	846	374	291	350	209	200
2	332	748	306	332	344	284	1,528	490	309	329	190	204
3	366	733	205	306	347	248	1,350	419	297	329	208	202
4	365	576	220	318	366	322	1,295	377	350	320	216	218
5	346	483	245	288	337	318	1,326	360	305	427	212	287
6	253	504	247	283	347	294	891	236	399	365	193	198
7	381	518	226	297	369	376	1,024	229	270	348	185	214
8	276	518	355	324	329	361	921	364	398	268	185	207
9	337	311	325	305	367	350	775	422	481	227	192	171
10	335	359	415	308	330	417	653	370	512	210	213	147
11	325	322	325	286	344	366	589	374	379	269	214	179
12	272	321	386	277	336	380	511	469	425	205	199	171
13	290	401	268	314	330	321	559	324	499	251	180	180
14	344	285	196	270	366	338	519	378	568	309	221	220
15	287	338	215	191	369	353	437	343	546	259	193	284
16	280	367	346	218	387	328	375	344	616	196	147	257
17	218	313	386	219	284	364	378	420	613	257	147	216
18	218	227	324	245	238	320	384	403	579	220	222	260
19	198	394	281	250	259	339	388	367	571	195	171	270
20	252	381	208	279	358	328	418	474	185	181	217	268
21	260	389	266	281	368	322	391	554	417	320	196	245
22	370	353	324	262	352	326	442	435	371	213	196	262
23	308	351	278	284	292	350	471	437	313	206	196	245
24	310	324	217	269	334	377	471	429	306	253	175	191
25	251	299	237	320	327	375	297	464	338	331	180	164
26	270	348	352	302	327	411	335	435	318	334	223	209
27	238	330	261	285	344	493	295	453	310	272	273	318
28	351	327	328	292	338	1,112	393	297	369	260	255	404
29	433	425	327	279	---	970	317	315	358	260	231	356
30	621	377	330	291	---	953	380	322	384	293	221	251
31	618	---	353	308	---	695	---	289	---	288	175	---
TOTAL	10,072	12,285	9,107	8,802	9,402	13,102	18,959	11,967	12,077	8,545	6,235	6,998
MEAN	325	410	294	284	336	423	632	386	403	276	201	233
MAX	621	748	415	332	387	1,110	1,530	554	616	427	273	404
MIN	198	227	196	191	238	248	295	229	185	181	147	147
CFSM	0.56	0.71	0.51	0.49	0.58	0.73	1.09	0.67	0.70	0.48	0.35	0.40
IN.	0.65	0.79	0.59	0.57	0.60	0.84	1.22	0.77	0.78	0.55	0.40	0.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1901 - 2005, BY WATER YEAR (WY)

MEAN	296	296	259	241	248	390	568	441	395	290	248	298
MAX	811	727	616	519	479	730	1,361	1,069	1,030	582	704	808
(WY)	(2003)	(1997)	(1997)	(1997)	(2000)	(1946)	(2001)	(2003)	(1905)	(2003)	(1995)	(1962)
MIN	104	135	123	124	120	151	197	140	81.7	69.9	74.2	89.8
(WY)	(1933)	(1934)	(1934)	(1938)	(1934)	(1934)	(1930)	(1934)	(1934)	(1934)	(1934)	(1933)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1901 - 2005	
ANNUAL TOTAL	156,058		127,551			
ANNUAL MEAN	426		349		330	
HIGHEST ANNUAL MEAN					563	1996
LOWEST ANNUAL MEAN					144	1934
HIGHEST DAILY MEAN	1,650	Apr 2	1,530	Apr 2	2,650	Apr 26, 2001
LOWEST DAILY MEAN	184	Aug 25	147	(a)Aug 16, 17	7.0	(b)Aug 21, 1927
ANNUAL SEVEN-DAY MINIMUM	212	Aug 20	181	Sep 7	49	Aug 2, 1933
ANNUAL RUNOFF (CFSM)	0.736		0.604		0.57	
ANNUAL RUNOFF (INCHES)	10.03		8.19		7.75	
10 PERCENT EXCEEDS	674		495		558	
50 PERCENT EXCEEDS	378		322		264	
90 PERCENT EXCEEDS	250		205		150	

(a) Also occurred Sept. 10
(b) Also occurred Sept. 30, 1929, July 19, 1932, and Aug. 2, 3, 1933

05342000 KINNICKINNIC RIVER NEAR RIVER FALLS, WI

LOCATION.--Lat 44°49'51", long 92°43'59", in NE ¼ NW ¼ sec.18, T.27 N., R.19 W., Pierce County, Hydrologic Unit 07030005, on left bank, 50 ft upstream from County Trunk Highway F, 1.9 mi upstream from mouth, 4.8 mi downstream from Lake Louise Dam, and 5.5 mi west of River Falls.

DRAINAGE AREA.--165 mi^2.

PERIOD OF RECORD.--October 1916 to September 1921 (monthly discharge for some periods published in WSP 1308), October 1998 to September 1999, July 2002 to current year.

REVISED RECORDS.--WSP 1308. WDR WI-99-1: Drainage area. WDR WI-02-1: Statistics table.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 690 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1921, recording gage near present site at different datum.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	113	92	91	86	82	249	87	81	99	90	85
2	104	110	91	92	87	86	123	86	80	90	90	86
3	101	109	92	93	88	85	107	85	80	90	89	89
4	98	105	93	87	90	86	101	85	82	89	117	93
5	98	103	93	95	119	95	101	85	86	87	92	86
6	99	103	93	91	395	385	100	85	86	87	89	92
7	100	102	94	93	211	722	97	85	82	86	89	91
8	109	97	95	95	125	242	96	94	130	146	96	90
9	102	100	97	89	103	131	95	90	104	212	109	87
10	100	101	101	88	92	113	95	88	93	100	116	86
11	100	98	99	88	89	102	95	87	116	91	98	82
12	99	97	96	89	95	91	101	96	127	92	95	83
13	101	96	93	91	e111	87	94	111	97	89	92	105
14	101	95	96	e90	e142	86	92	100	109	88	91	88
15	103	95	93	e89	e128	86	90	93	97	87	90	83
16	102	96	91	e85	e116	90	111	92	90	86	e91	82
17	101	97	92	e85	97	95	133	96	86	87	e91	82
18	102	97	91	e89	91	98	106	99	84	106	e92	83
19	99	113	89	e89	87	88	110	121	83	88	e91	82
20	104	122	e96	e90	87	88	110	106	92	101	91	81
21	103	105	92	92	84	108	98	93	90	93	88	84
22	103	101	84	e89	83	182	94	90	84	89	86	131
23	112	99	88	e90	84	285	91	88	82	109	86	92
24	109	97	e89	e92	83	295	89	85	92	106	86	86
25	105	94	e90	e92	83	259	90	87	85	116	85	267
26	103	96	e89	87	82	190	91	91	82	218	114	173
27	105	102	e90	89	83	159	92	90	e84	116	103	108
28	116	98	e90	85	83	151	89	88	e90	99	90	107
29	134	94	93	86	---	143	88	85	e94	96	88	102
30	146	92	e94	86	---	303	88	83	115	95	88	98
31	122	---	92	86	---	591	---	82	---	93	87	---
TOTAL	3,288	3,027	2,868	2,773	3,104	5,604	3,116	2,833	2,783	3,231	2,900	2,984
MEAN	106	101	92.5	89.5	111	181	104	91.4	92.8	104	93.5	99.5
MAX	146	122	101	95	395	722	249	121	130	218	117	267
MIN	98	92	84	85	82	82	88	82	80	86	85	81
CFSM	0.64	0.61	0.56	0.54	0.67	1.10	0.63	0.55	0.56	0.63	0.57	0.60
IN.	0.74	0.68	0.65	0.63	0.70	1.26	0.70	0.64	0.63	0.73	0.65	0.67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 2005, BY WATER YEAR (WY)

MEAN	98.9	99.6	91.3	81.3	84.9	209	103	101	118	89.7	90.6	89.3
MAX	165	131	119	108	115	469	135	166	167	133	136	126
(WY)	(2003)	(1999)	(2003)	(2003)	(1999)	(1919)	(2003)	(2003)	(1920)	(2003)	(2002)	(2002)
MIN	65.2	62.5	72.9	60.0	55.0	87.9	78.8	69.1	74.3	43.5	27.4	41.9
(WY)	(1918)	(1917)	(1917)	(1918)	(1918)	(1921)	(1918)	(1917)	(1921)	(1920)	(1920)	(1920)

05342000 KINNICKINNIC RIVER NEAR RIVER FALLS, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1917 - 2005	
ANNUAL TOTAL	40,106		38,511			
ANNUAL MEAN	110		106		104	
HIGHEST ANNUAL MEAN					133	2003
LOWEST ANNUAL MEAN					74.3	1921
HIGHEST DAILY MEAN	441	Mar 2	722	Mar 7	2,870	Mar 15, 1920
LOWEST DAILY MEAN	(a)73	Jan 6	80	Jun 2-3	13	Aug 30, 1920
ANNUAL SEVEN-DAY MINIMUM	(a)80	Jan 3	82	May 29	19	Aug 5, 1920
MAXIMUM PEAK FLOW			1,120	Mar 6	(b)4,760	Mar 15, 1920
MAXIMUM PEAK STAGE			12.84	Mar 6	(c)7.98	Mar 15, 1920
INSTANTANEOUS LOW FLOW			60	Feb 9	11	Aug 30, 1920
ANNUAL RUNOFF (CFSM)	0.664		0.639		0.630	
ANNUAL RUNOFF (INCHES)	9.04		8.68		8.56	
10 PERCENT EXCEEDS	134		118		126	
50 PERCENT EXCEEDS	102		93		92	
90 PERCENT EXCEEDS	91		85		60	

(a) Ice affected
(b) From rating curve extended above 1,000 ft^3/s, based on contracted-opening measurement of peak flow
(c) Datum then in use
(e) Estimated

05344500 MISSISSIPPI RIVER AT PRESCOTT, WI

LOCATION.--Lat 44°44'45", long 92°48'00", in sec. 9, T.26 N., R.20 W., Pierce County, Hydrologic Unit 07040001,on left bank at Prescott, 200 ft downstream from St. Croix River, 300 ft south of Chicago, Burlington & Quincy Railroad bridge, 800 ft south of bridge on U.S. Highway 10, and at mile 811.4 upstream from Ohio River.

DRAINAGE AREA.--44,800 mi^2 (approximately).

PERIOD OF RECORD.--June 1928 to current year.

REVISED RECORDS.--WSP 1508: 1941. WRD MN-74: 1973.

GAGE.--Water-stage recorder. Datum of gage is 649.50 ft above sea level (NGVD of 1929). Prior to Aug. 2, 1932, nonrecording gage at railroad bridge 300 ft upstream at following datums: June 3, 1928 to Sept. 30, 1929, 19.27 ft higher; Oct. 1, 1929 to Sept. 30, 1930, 17.68 ft higher; Oct. 1, 1930 to Aug. 1, 1932, 19.28 ft higher. Aug. 2, 1932 to Oct. 30, 1938, water-stage recorder at present site at datum 19.28 ft higher; Nov. 1, 1938 to Sept. 7, 1971, water-stage recorder at present site at datum 50.00 ft lower. Auxiliary water-stage recorder 10.7 mi downstream from base gage is used in discharge computations.

REMARKS.--Records fair except for those determined by flow routing, which are estimated and rated poor. Discharges below a stage of about 27 ft may be computed by routing flows from the Mississippi River at St. Paul (05331000) and St. Croix River at St. Croix Falls, WI (05340500). In the 2005 water year, discharges for the periods Oct. 1 to Mar. 31 and July 6 to Sep. 30 were obtained by routing. Some regulation by reservoirs, navigation dams, and power plants at low and medium stages.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e27,800	e23,800	e17,600	e10,600	e8,780	e10,900	36,700	33,300	39,300	35,500	e13,600	e9,060
2	e26,300	e25,700	e16,300	e11,100	e8,700	e10,700	42,900	31,600	39,100	34,400	e12,800	e8,880
3	e25,600	e27,800	e15,200	e11,100	e9,010	e10,400	47,900	30,400	38,100	34,200	e12,200	e9,100
4	e24,900	e28,700	e13,700	e10,600	e9,120	e10,200	52,900	28,800	36,900	34,500	e12,100	e9,120
5	e23,900	e29,000	e13,800	e10,300	e8,980	e10,200	55,200	27,700	36,300	33,900	e11,700	e10,100
6	e23,900	e28,300	e14,900	e10,000	e9,540	e9,990	54,100	26,600	35,800	e32,500	e11,200	e11,200
7	e23,400	e28,100	e15,200	e9,730	e9,750	e10,500	53,000	25,200	35,100	e30,600	e10,400	e10,100
8	e22,100	e26,800	e14,400	e9,250	e10,100	e11,000	52,500	24,100	35,900	e29,800	e9,830	e10,600
9	e21,800	e25,600	e14,900	e9,470	e9,910	e11,600	51,300	24,500	37,600	e29,100	e9,150	e10,800
10	e21,100	e24,700	e14,800	e9,790	e10,300	e12,200	50,400	24,800	39,100	e27,600	e9,570	e10,400
11	e20,000	e23,800	e14,700	e9,450	e10,300	e12,900	48,400	24,900	41,100	e25,800	e9,210	e10,600
12	e19,900	e22,800	e15,700	e9,360	e10,100	e13,000	46,900	25,100	43,500	e24,600	e9,340	e9,890
13	e19,600	e21,900	e15,300	e9,260	e10,100	e13,400	46,800	27,600	45,500	e23,300	e8,970	e9,590
14	e18,600	e21,300	e14,700	e9,420	e9,830	e13,000	48,800	29,200	48,200	e21,800	e8,810	e12,900
15	e17,900	e20,600	e10,900	e8,880	e10,700	e12,400	50,700	30,400	50,400	e21,000	e8,740	e16,300
16	e17,300	e19,800	e9,120	e7,900	e10,800	e12,400	51,700	32,100	53,000	e20,100	e8,240	e16,600
17	e17,100	e19,500	e10,400	e8,040	e11,500	e12,300	53,000	33,600	55,500	e18,400	e7,960	e17,200
18	e17,100	e19,100	e11,400	e7,970	e12,200	e12,100	52,700	34,800	56,400	e18,400	e8,020	e17,500
19	e16,200	e18,700	e12,300	e7,940	e12,500	e11,600	53,100	36,300	56,100	e17,200	e8,240	e17,200
20	e16,100	e19,300	e11,000	e8,280	e12,800	e11,500	53,100	37,300	55,000	e16,200	e8,360	e17,100
21	e15,700	e18,400	e9,950	e8,200	e13,000	e11,400	52,600	38,900	53,700	e15,900	e9,300	e17,200
22	e16,300	e18,900	e8,730	e8,280	e13,200	e11,400	52,000	40,200	51,500	e15,800	e9,160	e17,100
23	e15,900	e18,900	e8,180	e8,440	e12,600	e11,500	50,400	40,700	49,700	e15,200	e9,400	e17,200
24	e16,100	e18,900	e8,510	e8,660	e12,100	e11,800	48,600	41,100	48,500	e14,400	e9,310	e17,800
25	e16,200	e18,800	e8,440	e8,470	e11,700	e12,500	46,400	40,600	46,500	e14,700	e8,870	e16,300
26	e16,700	e18,600	e8,590	e8,490	e11,400	e13,400	44,500	40,200	44,000	e15,000	e8,340	e15,900
27	e16,700	e18,800	e8,820	e9,220	e11,100	e14,400	42,100	39,900	41,700	e14,700	e8,120	e16,500
28	e17,100	e18,200	e9,250	e8,870	e10,800	e15,800	39,400	40,100	40,600	e14,200	e9,640	e20,400
29	e18,100	e17,800	e9,900	e8,630	---	e18,900	36,700	40,300	38,600	e13,600	e10,500	e23,800
30	e20,200	e17,700	e10,100	e8,480	---	e22,400	34,400	40,300	36,600	e12,400	e9,640	e26,600
31	e22,800	---	e10,200	e8,600	---	e28,500	---	39,900	---	e13,200	e9,010	---
TOTAL	612,400	660,300	376,990	282,780	300,920	404,290	1,449,200	1,030,500	1,329,300	688,000	299,730	433,040
MEAN	19,750	22,010	12,160	9,122	10,750	13,040	48,310	33,240	44,310	22,190	9,669	14,430
MAX	27,800	29,000	17,600	11,100	13,200	28,500	55,200	41,100	56,400	35,500	13,600	26,600
MIN	15,700	17,700	8,180	7,900	8,700	9,990	34,400	24,100	35,100	12,400	7,960	8,880
AC-FT	1,215,000	1,310,000	747,800	560,900	596,900	801,900	2,874,000	2,044,000	2,637,000	1,365,000	594,500	858,900
CFSM	0.44	0.49	0.27	0.20	0.24	0.29	1.08	0.74	0.99	0.50	0.22	0.32
IN.	0.51	0.55	0.31	0.23	0.25	0.34	1.20	0.86	1.10	0.57	0.25	0.36

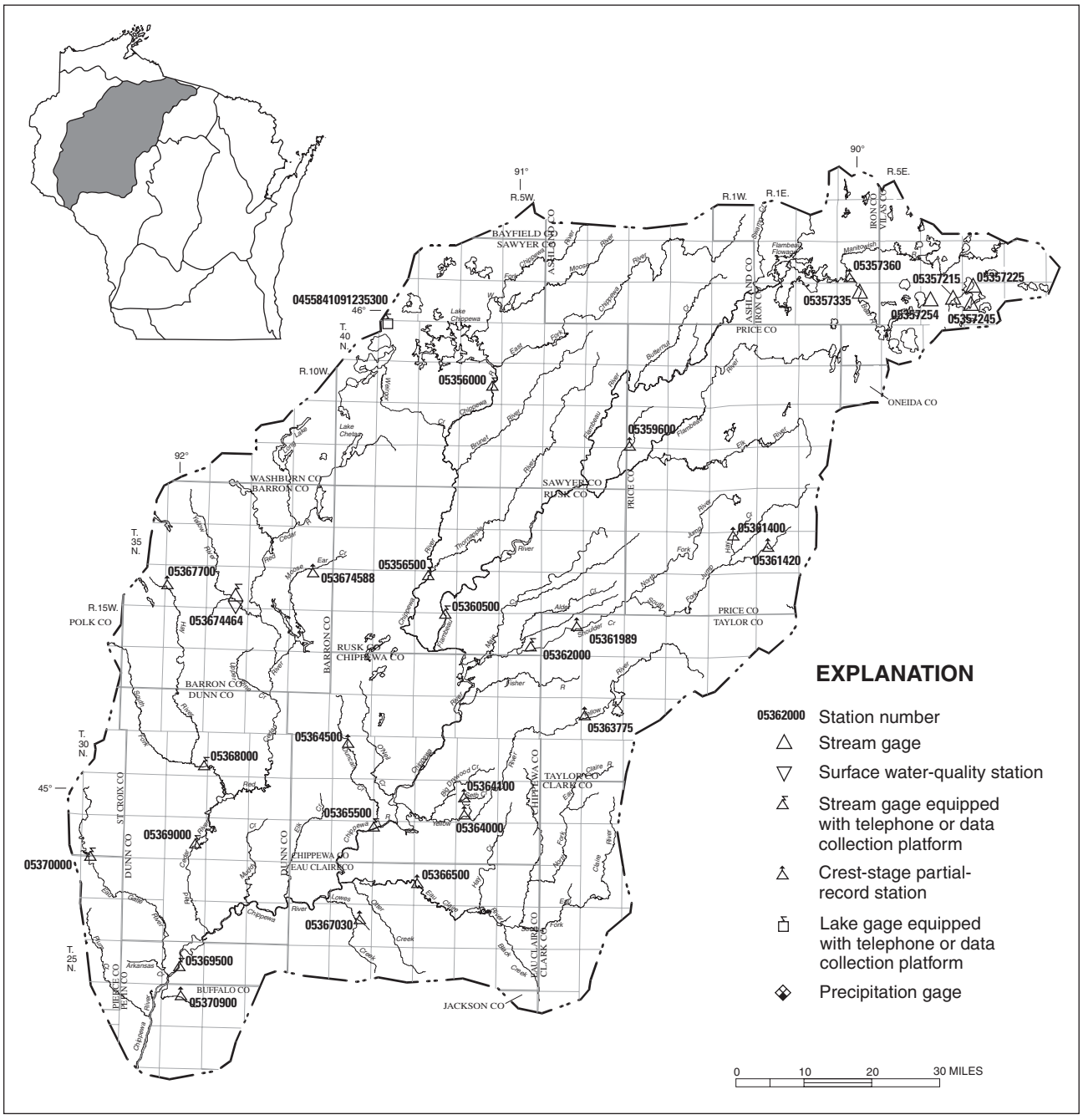
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005, BY WATER YEAR (WY)

MEAN	13,590	13,500	10,140	8,375	8,273	17,090	41,890	32,800	26,840	21,080	13,540	12,950
MAX	49,740	40,360	21,460	16,060	21,390	55,010	122,400	90,100	69,890	87,420	48,350	45,950
(WY)	(1987)	(1972)	(1983)	(1983)	(1966)	(1983)	(2001)	(1986)	(1993)	(1993)	(1993)	(1986)
MIN	3,526	3,874	3,379	3,153	3,519	4,369	7,215	6,304	4,185	3,197	2,366	3,002
(WY)	(1933)	(1977)	(1934)	(1935)	(1934)	(1934)	(1931)	(1931)	(1934)	(1934)	(1934)	(1976)

05344500 MISSISSIPPI RIVER AT PRESCOTT, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005	
ANNUAL TOTAL	6,710,030		7,867,450			
ANNUAL MEAN	18,330		21,550		a18,380	
HIGHEST ANNUAL MEAN					38,540	1986
LOWEST ANNUAL MEAN					4,367	1934
HIGHEST DAILY MEAN	58,300	Jun 6	56,400	Jun 18	226,000	Apr 18, 1965
LOWEST DAILY MEAN	5,450	Jan 21	7,900	Jan 16	1,380	Jul 13, 1940
ANNUAL SEVEN-DAY MINIMUM	5,740	Jan 31	8,090	Jan 16	2,190	Aug 11, 1936
MAXIMUM PEAK FLOW			56,600	Jun 18	228,000	Apr 18, 1965
MAXIMUM PEAK STAGE			31.75	Jun 18	43.11	Apr 18, 1965
ANNUAL RUNOFF (AC-FT)	13,310,000		15,610,000		13,320,000	
ANNUAL RUNOFF (CFSM)	0.409		0.481		0.410	
ANNUAL RUNOFF (INCHES)	5.57		6.53		5.57	
10 PERCENT EXCEEDS	31,300		44,900		39,500	
50 PERCENT EXCEEDS	16,100		16,300		12,100	
90 PERCENT EXCEEDS	6,350		8,980		5,280	

(a Median of annual mean discharges is 19,000 ft^3/s
(e Estimated



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

CHIPPEWA RIVER BASIN

05356000 CHIPPEWA RIVER AT BISHOPS BRIDGE, NEAR WINTER, WI

LOCATION.--Lat 45°50'57", long 91°04'44", in SW $^1/_4$ NE $^1/_4$ sec.23, T.39 N., R.6 W., Sawyer County, Hydrologic Unit 07050001, on right bank 15 ft upstream from highway bridge on County Trunk Highway G, 3.2 mi downstream from Lake Chippewa Dam, and 3.7 mi northwest of Winter.

DRAINAGE AREA.--790 mi^2.

PERIOD OF RECORD.--February 1912 to current year. March, April, 1912, and December 1912 to April 1913, monthly discharge only published in WSP 1308. Unpublished daily discharges stored from February 1912 to April 1913 from District records.

REVISED RECORDS.--WSP 1438: 1913(M), 1915-18(M), 1919, 1920-23(M), 1924, 1925(M), 1927(M), 1928, 1929-30(M), 1939(M). WDR WI-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,256.78 ft above NGVD of 1929 (levels by Wilhelm Engineering Co.). See WSP 1708 or 1728 for history of changes prior to July 23, 1930.

REMARKS.--Records good except those for estimated daily discharges, which are fair (see Introduction). Flow regulated by Moose Lake and Lake Chippewa. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	375	269	348	578	585	806	485	687	692	786	295	343
2	374	268	354	576	585	807	434	684	510	708	284	340
3	371	268	363	591	579	805	419	681	497	697	284	344
4	371	265	359	598	575	802	413	679	500	694	282	346
5	371	583	361	598	575	802	408	553	500	693	300	346
6	370	894	359	598	573	800	445	498	496	694	281	343
7	427	890	356	598	572	796	425	498	492	695	285	336
8	654	890	360	594	572	794	414	500	493	697	288	286
9	658	830	357	596	572	791	404	503	491	697	284	252
10	658	795	361	593	593	793	401	501	493	701	301	255
11	571	794	363	596	606	791	395	499	496	552	288	255
12	475	795	359	598	598	789	392	504	492	398	301	261
13	461	795	364	598	599	788	391	515	488	397	345	263
14	380	794	367	598	599	787	400	511	502	398	309	255
15	302	795	348	598	598	785	403	505	493	398	341	255
16	298	795	345	598	598	784	407	620	491	398	318	255
17	299	793	348	598	598	783	408	788	491	397	318	255
18	316	789	e348	598	598	782	407	935	492	345	320	255
19	276	789	e348	598	597	778	403	1,040	492	268	318	258
20	264	794	e347	598	596	775	407	1,040	493	268	308	255
21	264	790	e347	598	644	774	409	1,040	492	268	337	256
22	264	784	e347	592	788	625	408	1,030	780	268	339	255
23	274	780	e482	585	798	513	408	1,020	717	268	328	254
24	270	776	585	596	797	513	408	1,070	431	268	308	255
25	266	856	594	605	760	514	408	1,080	803	273	325	256
26	265	809	585	602	788	515	408	1,080	806	264	342	254
27	264	813	585	598	813	515	408	982	803	272	336	249
28	274	813	581	608	807	516	408	904	794	287	328	250
29	275	813	578	607	---	523	559	899	821	290	324	247
30	282	693	580	586	---	532	685	913	802	282	336	247
31	272	---	582	585	---	602	---	770	---	285	346	---
TOTAL	11,241	21,812	12,961	18,460	17,963	21,980	12,770	23,529	17,343	13,906	9,699	8,281
MEAN	363	727	418	595	642	709	426	759	578	449	313	276
MAX	658	894	594	608	813	807	685	1,080	821	786	346	346
MIN	264	265	345	576	572	513	391	498	431	264	281	247

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2005, BY WATER YEAR (WY)

MEAN	669	824	955	889	759	452	586	806	796	677	615	690
MAX	2,896	1,884	1,910	1,770	1,550	1,097	3,453	2,823	2,950	2,122	2,235	3,769
(WY)	(1986)	(1992)	(1992)	(1983)	(1928)	(1920)	(1922)	(1954)	(1939)	(1996)	(1972)	(1941)
MIN	43.6	143	234	201	194	117	20.0	24.2	39.8	40.3	146	140
(WY)	(1925)	(1925)	(2000)	(1922)	(1918)	(1923)	(1925)	(1923)	(1925)	(1925)	(1970)	(1970)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1912 - 2005	
ANNUAL TOTAL	281,445		189,945			
ANNUAL MEAN	769		520		725	
HIGHEST ANNUAL MEAN					1,174	1996
LOWEST ANNUAL MEAN					258	1923
HIGHEST DAILY MEAN	5,990	Apr 22	1,080	May 25, 26	7,520	Sep 5, 1941
LOWEST DAILY MEAN	264	Oct 20-22, 27	247	Sep 29, 30	14	(a)Apr 17-20, 1925
ANNUAL SEVEN-DAY MINIMUM	267	Oct 20	251	Sep 24	15	Apr 30, 1925
MAXIMUM PEAK FLOW			1,370	May 24	7,520	Sep 4, 1941
MAXIMUM PEAK STAGE			5.97	May 24	11.05	Sep 4, 1941
INSTANTANEOUS LOW FLOW			231	Sep 8	14	(a)Apr 17-20, 1925
10 PERCENT EXCEEDS	1,450		797		1,400	
50 PERCENT EXCEEDS	551		499		580	
90 PERCENT EXCEEDS	299		268		174	

(a) Also occurred May 1-5, 1925
(e) Estimated

05356500 CHIPPEWA RIVER NEAR BRUCE, WI

LOCATION.--Lat 45°27'06", long 91°15'40", in SE ¼ SW ¼ SE ¼ sec.5, T.34 N., R.7 W., Rusk County, Hydrologic Unit 07050001, on right bank 1.0 mi east of Bruce and 1.0 mi downstream from Thornapple River.

DRAINAGE AREA.--1,650 mi^2.

PERIOD OF RECORD.--December 1913 to current year.

REVISED RECORDS.--WSP 875: 1936-38. WSP 1308: 1922, 1937(M). WSP 1508: 1914-26(M), 1927, 1928-31(M), 1932, 1933(M), 1934-36, 1938. WDR WI-81-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,059.62 ft above NGVD of 1929. Prior to May 28, 1935, nonrecording gage at railroad bridge 0.8 mi upstream at datum 2.30 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see Introduction). Flow from 48 percent of the drainage area regulated by Moose Lake and Lake Chippewa. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	611	1,820	e946	e926	e743	e1,040	9,910	1,200	1,100	1,260	523	450
2	762	1,390	e625	e926	e743	e1,030	8,290	1,130	982	1,180	447	439
3	707	1,170	e611	e918	e745	e1,030	5,800	1,180	820	1,070	439	435
4	661	1,020	e601	e912	e750	e1,040	4,310	1,120	803	1,010	517	407
5	673	972	e629	e895	e765	e1,040	3,460	1,040	1,040	988	436	453
6	634	1,250	e700	e893	e877	e1,040	3,390	982	1,440	978	551	442
7	621	1,410	741	e899	e862	e1,070	3,960	863	1,600	969	407	407
8	760	1,360	745	e899	e839	e1,120	3,240	892	1,630	954	467	453
9	848	1,320	718	e891	e818	e1,140	2,550	908	1,650	943	470	340
10	926	1,320	767	e926	e817	e1,130	2,190	1,060	1,330	929	418	391
11	897	1,230	841	e932	e845	e1,090	1,870	1,140	1,330	914	561	322
12	790	e1,130	840	e939	e892	e1,090	1,650	1,060	1,310	770	416	395
13	736	e1,110	e611	e939	e926	e1,090	1,540	1,130	1,200	616	482	368
14	732	e1,090	e563	e873	e926	e1,090	1,320	1,480	1,340	605	474	477
15	662	e1,090	e535	e774	e922	e1,090	1,200	1,490	1,650	598	390	361
16	493	1,090	e559	e774	e902	e1,110	1,200	1,410	1,480	592	515	341
17	563	1,110	e624	e767	e846	e1,120	1,200	1,430	1,220	584	426	355
18	623	1,110	e672	e754	e840	e1,110	1,260	1,420	1,050	611	427	421
19	632	1,120	e634	e767	e832	e1,110	1,140	1,640	950	504	508	353
20	632	1,210	e602	e767	e832	e1,110	1,270	1,740	889	499	392	414
21	502	1,260	e563	e767	e847	e1,160	1,240	1,720	889	527	498	379
22	486	1,220	e521	e767	e855	e1,110	1,170	1,610	935	398	373	399
23	578	1,180	e648	e767	e1,050	e962	1,070	1,540	1,050	484	492	464
24	788	1,130	e734	e767	e1,060	e895	983	1,480	996	398	461	374
25	716	1,090	e827	e772	e1,050	e920	910	1,500	721	525	409	393
26	691	e1,080	e906	e833	e1,020	e1,100	1,020	1,520	1,050	462	403	549
27	699	e1,100	e926	e800	e1,040	e1,250	1,100	1,530	1,050	557	518	455
28	679	e1,080	e932	e750	e1,040	1,360	1,090	1,390	1,250	396	430	459
29	2,100	e1,070	e934	e745	---	1,740	1,030	1,350	1,350	531	479	480
30	2,500	e1,020	e939	e817	---	3,350	1,160	1,310	1,310	513	403	430
31	2,380	---	e926	e780	---	6,950	---	1,290	---	403	466	---
TOTAL	26,082	35,552	22,420	25,936	24,684	42,487	71,523	40,555	35,415	21,768	14,198	12,406
MEAN	841	1,185	723	837	882	1,371	2,384	1,308	1,180	702	458	414
MAX	2,500	1,820	946	939	1,060	6,950	9,910	1,740	1,650	1,260	561	549
MIN	486	972	521	745	743	895	910	863	721	396	373	322

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

MEAN	1,272	1,402	1,359	1,177	1,057	1,460	2,777	1,998	1,743	1,263	1,044	1,338
MAX	5,666	3,662	2,842	2,200	2,100	3,964	8,007	5,971	7,483	3,990	2,915	7,423
(WY)	(1986)	(1992)	(1992)	(1942)	(1971)	(1973)	(1916)	(1954)	(1943)	(1968)	(1972)	(1941)
MIN	296	459	442	356	338	404	590	390	411	317	364	338
(WY)	(1934)	(1990)	(1990)	(1922)	(1918)	(1923)	(1987)	(1925)	(1949)	(1925)	(1964)	(1976)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1914 - 2005	
ANNUAL TOTAL	550,262		373,026			
ANNUAL MEAN	1,503		1,022		1,488	
HIGHEST ANNUAL MEAN					2,290	1986
LOWEST ANNUAL MEAN					666	1934
HIGHEST DAILY MEAN	8,700	Apr 22	9,910	Apr 1	24,900	Sep 1, 1941
LOWEST DAILY MEAN	480	Jan 6, 7	322	Sep 11	155	Jun 10, 1932
ANNUAL SEVEN-DAY MINIMUM	(a)501	Jan 3	374	Sep 11	218	Aug 3, 1925
MAXIMUM PEAK FLOW			10,100	Apr 1	(b)29,000	Sep 17, 1994
MAXIMUM PEAK STAGE			10.81	Apr 1	(c)20.46	Sep 1, 1941
INSTANTANEOUS LOW FLOW			315	(d)Aug 12	155	Jun 10, 1932
10 PERCENT EXCEEDS	3,240		1,460		2,700	
50 PERCENT EXCEEDS	972		906		1,100	
90 PERCENT EXCEEDS	615		438		502	

(a) Ice affected
(b) From rating curve extended above 25,100 ft^3/s, gage height 18.12 ft
(c) From floodmarks
(d) Also occurred Sept. 11, 12
(e) Estimated

05357215 ALLEQUASH CREEK AT CTH M, NEAR BOULDER JUNCTION, WI

LOCATION.--Lat 46°01'26", long 89°39'10", in NW¼ NW¼ sec.20, T.41 N., R.7 E., Vilas County, Hydrologic Unit 07050002, on right bank approximately 400 ft downstream from County Trunk Highway M, 6.1 mi south of Boulder Junction.

DRAINAGE AREA.--8.43 mi^2.

PERIOD OF RECORD.--May 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,620 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see Introduction).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e7.4	13	10	11	9.2	9.5	14	8.8	6.3	6.9	7.4	3.5
2	e8.8	13	11	12	9.2	9.3	14	8.9	6.0	5.8	7.3	3.6
3	e9.0	12	11	11	9.2	9.3	14	8.5	5.7	4.7	7.1	3.6
4	e9.0	12	11	11	9.2	9.2	13	8.1	5.9	4.1	6.9	3.6
5	8.5	11	10	11	9.1	9.2	13	7.6	7.2	2.7	6.4	3.6
6	8.6	11	11	11	9.8	9.4	14	7.6	7.8	2.1	6.0	3.7
7	8.3	11	11	10	e10	9.4	14	7.4	7.6	4.3	5.5	3.8
8	8.6	10	11	10	e10	9.3	14	7.1	7.4	6.5	4.9	3.8
9	9.1	9.8	11	10	e9.8	9.2	13	7.2	7.0	6.0	5.1	3.8
10	9.3	9.8	12	10	e9.3	9.3	14	7.8	7.4	6.4	5.2	3.9
11	10	9.6	12	10	e9.4	9.2	13	8.2	9.6	7.1	5.1	3.8
12	10	9.4	12	10	e9.4	9.3	13	7.6	9.8	7.6	5.0	4.1
13	11	9.2	13	10	9.6	9.1	12	8.1	11	7.0	4.8	5.4
14	11	13	12	10	9.9	8.8	12	8.8	13	6.6	4.5	6.0
15	12	18	12	11	9.8	8.8	11	9.6	13	6.0	4.3	5.8
16	12	15	12	e10	9.6	8.8	10	9.5	12	5.7	4.2	5.7
17	12	14	11	e10	9.2	8.7	11	9.1	11	5.2	4.0	5.4
18	11	13	11	e10	9.2	8.5	11	8.8	9.9	5.0	4.4	5.3
19	11	12	11	e10	9.0	8.8	10	9.2	9.0	5.1	5.1	6.6
20	11	13	11	e10	9.1	9.0	11	8.9	8.1	4.9	5.1	7.1
21	11	12	11	10	9.2	9.2	10	8.2	7.5	4.7	4.9	7.1
22	11	12	11	e10	8.9	9.2	10	8.0	6.8	4.6	4.7	7.5
23	13	11	11	e10	8.8	9.1	9.7	8.5	6.2	4.6	4.5	7.2
24	12	11	10	e10	8.8	9.0	9.0	8.0	7.9	8.0	4.3	6.9
25	11	11	10	e10	8.8	8.8	8.2	7.5	9.7	8.3	4.1	7.1
26	9.8	11	10	10	8.6	8.8	8.5	7.2	8.4	8.4	3.9	8.3
27	10	11	9.9	10	9.1	8.9	8.5	7.2	7.6	7.8	3.9	7.9
28	9.8	12	9.7	9.9	9.6	9.0	8.5	6.9	9.5	8.1	3.9	8.2
29	11	e11	9.6	9.6	---	9.5	8.5	6.9	8.2	8.3	3.9	8.2
30	13	e10	10	9.5	---	11	8.7	6.8	7.9	7.9	3.8	7.8
31	14	---	12	9.2	---	13	---	6.4	---	7.6	3.7	---
TOTAL	323.2	350.8	340.2	316.2	260.8	287.6	340.6	248.4	254.4	188.0	153.9	168.3
MEAN	10.4	11.7	11.0	10.2	9.31	9.28	11.4	8.01	8.48	6.06	4.96	5.61
MAX	14	18	13	12	10	13	14	9.6	13	8.4	7.4	8.3
MIN	7.4	9.2	9.6	9.2	8.6	8.5	8.2	6.4	5.7	2.1	3.7	3.5
CFSM	1.24	1.39	1.30	1.21	1.10	1.10	1.35	0.95	1.01	0.72	0.59	0.67
IN.	1.43	1.55	1.50	1.40	1.15	1.27	1.50	1.10	1.12	0.83	0.68	0.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

MEAN	11.8	12.7	11.4	10.2	9.98	11.2	14.6	12.2	10.9	11.5	9.35	9.12
MAX	22.7	20.2	14.5	14.9	12.8	15.8	19.8	19.3	14.9	17.1	12.5	14.8
(WY)	(1992)	(1992)	(1998)	(1998)	(1998)	(1997)	(2004)	(1996)	(1993)	(1997)	(2004)	(1994)
MIN	4.84	8.55	8.36	8.77	8.80	8.53	9.50	6.75	6.53	6.06	4.96	4.53
(WY)	(2000)	(1999)	(2000)	(2002)	(1992)	(1999)	(1999)	(2000)	(2001)	(2005)	(2005)	(1999)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	4,302.6		3,232.4			
ANNUAL MEAN	11.8		8.86		11.2	
HIGHEST ANNUAL MEAN					14.4	1997
LOWEST ANNUAL MEAN					8.86	2005
HIGHEST DAILY MEAN	40	Apr 19	18	Nov 15	56	Oct 5, 1991
LOWEST DAILY MEAN	(a)5.3	Sep 30	(b)2.1	Jul 6	0.93	Aug 8, 1992
ANNUAL SEVEN-DAY MINIMUM	(a)5.8	Sep 24	3.6	Aug 31	1.1	Aug 2, 1992
MAXIMUM PEAK FLOW			(c)20	Nov 14	(d)79	Oct 5, 1991
MAXIMUM PEAK STAGE			(a)2.56	Oct 4	(f)2.77	Mar 25, 1996
INSTANTANEOUS LOW FLOW			(b)1.8	Jul 6	0.69	Aug 7, 1992
ANNUAL RUNOFF (CFSM)	1.39		1.05		1.33	
ANNUAL RUNOFF (INCHES)	18.99		14.26		18.12	
10 PERCENT EXCEEDS	16		12		16	
50 PERCENT EXCEEDS	11		9.2		10	
90 PERCENT EXCEEDS	8.5		4.9		7.2	

(a) Backwater from beaver dam
(b) Due to storage from beaver dam upstream of gage
(c) Gagi height, 1.60 ft
(d) Gage height, 2.36 ft
(e) Estimated
(f) Ice jam

05357225 STEVENSON CREEK, AT COUNTY TRUNK HIGHWAY M, NEAR BOULDER JUNCTION, WI

LOCATION.--Lat 46°03'41", long 89°38'50", in NW ¼ SE ¼ sec.5, T.41 N., R.7 E., Vilas County, Hydrologic Unit 07050002, at County Highway M, 3.6 mi south of Boulder Junction.

DRAINAGE AREA.--7.96 mi^2.

PERIOD OF RECORD.--May 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,620 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see Introduction). There is a small dam 2.5 miles upstream of the gage which occasionally affects discharge.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	4.5	e3.0	e2.8	e2.4	e1.8	5.3	3.1	1.2	1.2	1.6	e0.80
2	4.7	4.2	e3.0	e2.7	e2.3	e1.8	5.0	3.2	1.2	1.1	1.7	e0.90
3	4.2	4.0	3.1	e2.6	e2.2	e1.8	4.9	3.2	1.2	1.1	1.8	2.5
4	4.0	3.9	3.3	e2.6	e2.2	e1.7	4.7	3.1	1.8	1.1	0.94	3.1
5	3.9	3.7	3.1	e2.6	e2.1	e1.7	4.8	2.9	2.7	1.1	0.80	3.3
6	3.8	3.7	3.1	e2.6	e2.0	e1.8	5.5	2.7	2.8	1.0	0.73	3.2
7	3.8	3.5	3.1	e2.6	e2.0	e1.7	5.0	2.5	1.9	0.91	0.67	3.1
8	3.9	3.3	3.1	e2.6	e2.0	e1.7	4.6	2.3	1.6	0.89	0.65	2.8
9	3.8	3.3	2.9	e2.6	e2.0	e1.6	4.3	2.3	1.3	0.90	0.80	1.8
10	3.7	3.5	e2.9	e2.6	e1.9	e1.6	4.1	2.5	2.6	0.88	0.85	1.1
11	3.7	3.4	e2.9	e2.6	e1.9	e1.6	3.9	2.4	4.8	0.86	0.78	0.80
12	3.7	3.2	e2.8	e2.5	e1.9	e1.6	3.7	2.3	2.5	0.88	0.78	0.97
13	3.5	3.1	e2.8	e2.5	e1.9	e1.7	3.5	2.6	2.2	0.86	0.77	1.7
14	3.5	3.1	e2.8	e2.5	e2.0	e1.7	3.3	2.6	3.0	0.80	0.78	1.2
15	3.7	3.0	e2.8	e2.4	e2.0	e1.7	3.3	2.6	2.9	0.82	0.77	0.95
16	3.8	3.1	e2.7	e2.5	e1.9	e1.7	3.3	2.4	1.9	0.81	0.74	0.97
17	3.8	3.2	e2.7	e2.4	e1.9	e1.7	3.5	2.4	1.5	0.75	0.73	0.95
18	3.7	3.0	e2.6	e2.4	e1.9	e1.7	3.4	2.4	1.3	0.84	1.1	1.1
19	3.6	3.1	e2.6	e2.4	e1.9	e1.7	3.4	2.5	1.1	0.85	1.3	2.5
20	3.5	3.7	e2.6	e2.4	e1.9	e1.7	3.4	2.0	1.0	0.80	0.90	1.6
21	3.5	3.4	e2.6	e2.4	e2.0	e1.7	3.3	2.1	2.5	0.83	0.78	e0.97
22	3.6	3.2	e2.6	e2.4	e1.9	e1.7	3.2	2.5	2.6	0.81	0.79	e0.97
23	5.0	3.2	e2.6	e2.4	e1.9	e1.8	3.1	2.4	3.4	0.97	0.76	e0.97
24	4.4	3.0	e2.6	e2.4	e1.9	e1.8	3.0	2.1	4.6	3.0	0.74	e0.93
25	4.0	2.9	e2.5	e2.3	e1.9	e1.8	3.0	2.1	4.9	1.4	0.80	e1.2
26	3.9	3.0	e2.5	e2.3	e1.8	e1.8	3.1	2.2	4.5	1.1	0.79	e2.1
27	3.8	3.2	e2.5	e2.4	e1.8	e1.9	3.2	2.1	5.7	0.88	0.76	1.4
28	4.1	3.3	e2.5	e2.5	e1.9	e2.2	3.1	1.8	2.0	1.2	0.71	e1.6
29	4.9	e3.0	e2.5	e2.5	---	e3.1	3.1	2.6	2.3	1.0	0.73	e1.7
30	6.2	e3.0	e2.8	e2.5	---	e5.4	3.1	2.5	2.3	0.81	0.80	e1.7
31	5.0	---	e3.0	e2.5	---	6.6	---	1.8	---	0.86	e0.80	---
TOTAL	125.0	100.7	86.6	77.5	55.4	63.8	114.1	76.2	75.3	31.31	27.65	48.88
MEAN	4.03	3.36	2.79	2.50	1.98	2.06	3.80	2.46	2.51	1.01	0.89	1.63
MAX	6.2	4.5	3.3	2.8	2.4	6.6	5.5	3.2	5.7	3.0	1.8	3.3
MIN	3.5	2.9	2.5	2.3	1.8	1.6	3.0	1.8	1.0	0.75	0.65	0.80
CFSM	0.51	0.42	0.35	0.31	0.25	0.26	0.48	0.31	0.32	0.13	0.11	0.20
IN.	0.58	0.47	0.40	0.36	0.26	0.30	0.53	0.36	0.35	0.15	0.13	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

MEAN	3.00	3.42	2.87	2.57	2.66	2.90	3.40	3.28	3.62	3.46	3.25	3.78
MAX	4.03	6.28	4.12	3.53	3.87	4.34	5.28	6.18	8.57	7.50	4.84	6.85
(WY)	(2005)	(1994)	(2003)	(1998)	(1998)	(1992)	(2002)	(1997)	(2004)	(2003)	(1997)	(1992)
MIN	1.18	1.24	1.65	1.93	1.70	1.58	1.29	1.34	1.47	1.01	0.89	1.63
(WY)	(2004)	(2000)	(2001)	(1999)	(1997)	(1995)	(1995)	(2000)	(1992)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	1,368.1		882.44			
ANNUAL MEAN	3.74		2.42		3.14	
HIGHEST ANNUAL MEAN					3.79	2003
LOWEST ANNUAL MEAN					2.42	2005
HIGHEST DAILY MEAN	(a)35	Jun 26	6.6	Mar 31	36	Jun 29, 1991
LOWEST DAILY MEAN	1.8	May 11	0.65	Aug 8	0.54	Aug 19, 1994
ANNUAL SEVEN-DAY MINIMUM	1.9	May 2	0.75	Aug 6	0.69	Oct 18, 2003
MAXIMUM PEAK FLOW			(b)7.1	Oct 30	(c)39	Jun 29, 1991
MAXIMUM PEAK STAGE			(d)8.62	Sep 26	(d)10.31	Sep 4, 2003
INSTANTANEOUS LOW FLOW			0.55	Aug 9	0.33	Oct 19, 1991
ANNUAL RUNOFF (CFSM)	0.470		0.304		0.395	
ANNUAL RUNOFF (INCHES)	6.39		4.12		5.37	
10 PERCENT EXCEEDS	4.8		3.8		4.8	
50 PERCENT EXCEEDS	3.1		2.4		2.9	
90 PERCENT EXCEEDS	2.1		0.86		1.6	

05357225 STEVENSON CREEK, AT COUNTY TRUNK HIGHWAY M, NEAR BOULDER JUNCTION, WI—Continued

(a) Small dam failure 2.5 miles upstream of gage
(b) Gage height, 8.29 ft
(c) Gage height, 9.62 ft
(d) Beaver dams
(e) Estimated

05357245 TROUT RIVER AT TROUT LAKE NEAR BOULDER JUNCTION, WI

LOCATION.--Lat 46°02'08", long 89°42'20", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.14, T.41 N., R.6 E., Vilas County, Hydrologic Unit 07050002, on right bank 20 ft upstream from U.S. Highway 51 bridge, approximately 500 ft downstream from outlet of Trout Lake, 6.0 mi southwest of Boulder Junction.

DRAINAGE AREA.--46.2 mi^2.

PERIOD OF RECORD.--May 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,620 ft above NGVD of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	22	22	26	24	34	35	32	35	32	18	9.9
2	12	22	22	27	24	34	35	33	34	30	18	9.6
3	11	22	22	26	24	34	35	32	33	28	18	9.5
4	9.4	22	23	26	24	34	35	31	34	27	18	9.5
5	8.4	21	23	26	26	35	36	30	39	27	18	9.3
6	7.9	21	23	25	26	36	38	30	41	26	e17	9.2
7	7.8	21	23	25	26	36	39	30	41	25	e16	9.3
8	8.5	20	23	25	26	37	38	30	41	24	e15	9.3
9	8.4	20	22	25	26	36	38	31	40	24	e16	9.2
10	8.3	20	23	25	26	37	38	33	42	23	e16	9.1
11	8.3	20	23	25	26	37	39	33	47	23	e16	8.9
12	8.4	19	24	25	26	37	36	37	46	23	e15	9.1
13	8.5	19	24	25	27	37	36	42	46	22	e14	10
14	8.6	18	24	25	28	36	36	43	48	21	e14	11
15	8.7	19	23	25	28	35	35	44	49	21	e13	10
16	8.8	19	23	24	28	35	34	42	46	20	e13	9.8
17	8.3	19	23	24	29	35	36	41	44	19	e13	9.8
18	8.3	19	23	24	29	35	37	41	42	19	13	9.6
19	8.1	19	23	24	28	36	37	43	41	18	13	11
20	8.0	21	23	25	29	35	39	42	40	18	13	12
21	8.3	21	23	25	30	35	38	40	40	18	12	12
22	8.7	21	24	26	30	35	38	41	38	17	12	13
23	12	20	24	26	30	34	36	42	36	17	11	12
24	13	20	23	25	31	34	34	41	35	21	11	12
25	13	20	23	26	31	33	34	40	34	21	11	12
26	13	20	23	26	31	33	34	39	32	20	11	13
27	13	22	23	25	32	33	34	38	31	19	11	13
28	14	23	23	25	33	33	34	37	36	19	11	13
29	17	23	23	25	---	32	33	37	35	20	11	13
30	21	22	25	24	---	32	33	36	33	19	10	12
31	22	---	26	24	---	34	---	35	---	18	10	---
TOTAL	331.7	615	719	779	778	1,079	1,080	1,146	1,179	679	428	320.1
MEAN	10.7	20.5	23.2	25.1	27.8	34.8	36.0	37.0	39.3	21.9	13.8	10.7
MAX	22	23	26	27	33	37	39	44	49	32	18	13
MIN	7.8	18	22	24	24	32	33	30	31	17	10	8.9
CFSM	0.23	0.44	0.50	0.54	0.60	0.75	0.78	0.80	0.85	0.47	0.30	0.23
IN.	0.27	0.50	0.58	0.63	0.63	0.87	0.87	0.92	0.95	0.55	0.34	0.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

MEAN	29.1	34.4	37.1	37.0	35.9	36.7	45.7	51.6	44.7	41.2	31.1	26.5
MAX	46.9	55.4	58.1	60.1	47.9	44.9	62.2	74.5	59.6	57.0	49.7	44.4
(WY)	(2003)	(1997)	(1992)	(1997)	(1997)	(1992)	(2002)	(2002)	(1996)	(1996)	(1996)	(1997)
MIN	10.7	16.2	22.5	25.1	27.8	23.8	31.9	27.6	28.4	21.9	13.8	10.7
(WY)	(2005)	(2000)	(2000)	(2005)	(2005)	(1999)	(1999)	(2000)	(2000)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	12,030.7		9,133.8			
ANNUAL MEAN	32.9		25.0		37.3	
HIGHEST ANNUAL MEAN					49.8	1996
LOWEST ANNUAL MEAN					25.0	2005
HIGHEST DAILY MEAN	87	Apr 22	49	Jun 15	96	May 9, 2002
LOWEST DAILY MEAN	7.8	Oct 7	7.8	Oct 7	7.8	Oct 7, 2004
ANNUAL SEVEN-DAY MINIMUM	8.2	Oct 5	8.2	Oct 5	8.2	Oct 5, 2004
MAXIMUM PEAK FLOW			57	Jun 10	101	May 8, 2002
MAXIMUM PEAK STAGE			1.45	Jun 10	1.99	May 19, 1996
INSTANTANEOUS LOW FLOW			7.1	Oct 7	7.1	Oct 7, 2004
ANNUAL RUNOFF (CFSM)	0.711		0.542		0.808	
ANNUAL RUNOFF (INCHES)	9.69		7.35		10.98	
10 PERCENT EXCEEDS	66		38		54	
50 PERCENT EXCEEDS	31		24		36	
90 PERCENT EXCEEDS	11		10		21	

(e) Estimated

05357254 TROUT RIVER AT COUNTY TRUNK HIGHWAY H NEAR BOULDER JUNCTION, WI

LOCATION.--Lat 46°02'02", long 89°46'21", in SE ¼ NW ¼ sec.17, T.41 N., R.6 E., Vilas County, Hydrologic Unit 07050002, on left bank 18 ft upstream from County Trunk Highway H, 8.3 mi southwest of Boulder Junction.

DRAINAGE AREA.--58.9 mi^2.

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,610 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges and periods of variable backwater, Oct. 1 to Nov. 5 and June 15 to Sept. 30, which are poor (see Introduction). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	47	e49	e41	e44	e41	61	41	60	83	23	e15
2	26	47	e42	e41	e43	e39	58	45	62	77	22	e16
3	25	49	e40	e39	e42	e39	58	44	62	71	22	e15
4	24	53	e40	e40	e45	e40	56	42	67	66	22	e15
5	24	54	e40	e41	e47	e41	56	41	81	61	22	e15
6	24	52	e39	e38	e49	e41	60	41	90	56	21	e15
7	25	51	e40	e41	e49	e42	61	40	92	49	21	e15
8	23	51	e39	e42	e48	e42	59	40	95	42	20	e15
9	22	52	e41	e42	e46	e41	56	40	98	38	21	e14
10	23	54	e41	e42	e45	e39	53	44	107	34	21	e14
11	23	54	e42	e44	e44	e39	52	46	147	31	21	e14
12	23	55	e42	e43	e44	e39	48	46	151	27	21	e14
13	22	55	e42	e43	e42	e39	48	48	152	26	e20	e15
14	23	56	e40	e43	e42	e39	47	51	155	25	e19	e16
15	23	56	e40	e42	e41	e40	46	55	153	25	e19	e16
16	23	57	e41	e41	e41	e40	46	55	146	24	e19	e14
17	22	58	e39	e40	e38	e39	47	52	141	24	e18	e15
18	22	57	e39	e39	e37	e39	46	52	134	24	e17	15
19	23	60	e39	e41	e37	e40	48	54	126	24	e18	15
20	24	66	e38	e43	e38	e40	48	55	120	24	e17	31
21	23	67	e38	e43	e38	e40	47	53	117	23	e16	18
22	24	66	e38	e44	e39	e40	46	55	112	22	e16	15
23	27	65	e37	e44	e39	e39	46	57	106	21	e16	16
24	28	e64	e38	e44	e39	e40	46	57	99	24	e16	e16
25	29	e59	e38	e44	e39	e40	44	56	96	24	e16	e17
26	29	53	e38	e45	e39	e39	44	56	91	25	e16	e17
27	29	55	e40	e44	e41	e39	46	57	87	24	e17	e17
28	31	59	e40	e44	e41	e46	45	59	93	24	e16	e17
29	36	e55	e41	e44	---	e77	43	60	91	24	e16	e17
30	43	e53	e39	e44	---	e146	42	61	90	24	e16	e17
31	48	---	e40	e45	---	73	---	61	---	23	e16	---
TOTAL	815	1,680	1,240	1,311	1,177	1,418	1,503	1,564	3,221	1,089	581	481
MEAN	26.3	56.0	40.0	42.3	42.0	45.7	50.1	50.5	107	35.1	18.7	16.0
MAX	48	67	49	45	49	146	61	61	155	83	23	31
MIN	22	47	37	38	37	39	42	40	60	21	16	14
CFSM	0.45	0.95	0.68	0.72	0.71	0.78	0.85	0.86	1.82	0.60	0.32	0.27
IN.	0.51	1.06	0.78	0.83	0.74	0.90	0.95	0.99	2.03	0.69	0.37	0.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	30.1	40.4	37.1	38.1	42.7	49.1	64.8	63.8	66.6	62.1	51.7	38.7
MAX	50.3	63.9	46.5	42.3	48.4	54.3	91.8	94.1	107	83.8	85.3	54.0
(WY)	(2003)	(2003)	(2003)	(2005)	(2000)	(2004)	(2002)	(2002)	(2005)	(2000)	(2001)	(2002)
MIN	20.0	23.2	27.2	32.9	36.7	40.5	49.1	41.3	49.4	35.1	18.7	16.0
(WY)	(2000)	(2000)	(1999)	(1999)	(2003)	(1999)	(1999)	(2000)	(1999)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	18,217		16,080			
ANNUAL MEAN	49.8		44.1		48.8	
HIGHEST ANNUAL MEAN					57.3	2002
LOWEST ANNUAL MEAN					41.9	1999
HIGHEST DAILY MEAN	169	Apr 19	155	Jun 14	169	Apr 19, 2004
LOWEST DAILY MEAN	22	(a)Oct 9	14	(b)Sep 9	14	(b)Sep 9, 2005
ANNUAL SEVEN-DAY MINIMUM	23	(a)Oct 12	14	Sep 6	14	Sep 6, 2005
MAXIMUM PEAK FLOW			(c)171	Mar 30	(d)180	Apr 19, 2004
MAXIMUM PEAK STAGE			(f)7.05	Sep 20	(f)7.05	Sep 20, 2005
ANNUAL RUNOFF (CFSM)	0.845		0.748		0.828	
ANNUAL RUNOFF (INCHES)	11.51		10.16		11.25	
10 PERCENT EXCEEDS	70		66		74	
50 PERCENT EXCEEDS	48		41		45	
90 PERCENT EXCEEDS	29		17		26	

05357254 TROUT RIVER AT COUNTY TRUNK HIGHWAY H NEAR BOULDER JUNCTION, WI—Continued

(a) Also occurred additional days
(b) Also occurred Sept. 10-12, 16
(c) Gage height, 6.21 ft
(d) Gage height, 6.20 ft
(e) Estimated
(f) Beaver dam

05357335 BEAR RIVER NEAR MANITOWISH WATERS, WI

LOCATION.--Lat 46°02'56", long 89°59'04", in SE ¼ NW ¼ sec.10, T.41 N., R.4 E., Iron County, Hydrologic Unit 07050002, on right bank 10 ft upstream from East River Trail bridge, 2.3 mi upstream from Little Bear Creek, 7.7 mi southwest of Manitowish Waters, and 5.3 mi upstream from mouth.

DRAINAGE AREA.--81.3 mi^2.

PERIOD OF RECORD.--May 1991 to current year.

GAGE.--Water-stage recorder and Doppler velocity meter. Elevation of gage is 1,580 ft above NGVD of 1929, from topographic map. Prior to October 1, 2004 datum of gage was 2.00 ft lower.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	e29	26	e34	e37	e37	175	52	50	71	25	7.7
2	25	e29	26	e34	e36	e35	158	52	48	68	24	6.7
3	25	e27	27	e33	e35	e36	141	51	46	66	23	5.9
4	25	e27	27	e33	e36	e36	124	49	48	63	23	5.2
5	24	e26	28	e33	e37	e37	102	47	61	61	22	4.8
6	23	e26	28	e33	e40	e38	98	46	85	60	21	4.4
7	22	e26	28	e33	e41	e39	99	45	84	57	20	3.8
8	22	e26	29	e34	e40	e39	93	45	77	54	19	3.0
9	21	e26	28	e35	e39	e38	86	48	71	50	18	2.3
10	21	e26	28	e35	e39	e37	81	55	67	46	18	1.8
11	20	e26	28	e35	e38	e37	77	56	66	42	18	1.4
12	20	25	29	e37	e37	e36	73	56	65	38	17	1.2
13	19	25	29	e37	e36	e36	69	61	66	35	16	2.0
14	19	24	29	e36	e36	e36	66	66	73	33	15	2.1
15	19	24	e29	e36	e35	e36	64	67	77	32	15	2.0
16	19	23	e29	e34	e35	e37	62	65	75	32	14	1.6
17	19	23	e29	e33	e33	e36	63	63	72	31	14	1.1
18	19	23	e29	e33	e32	e35	63	63	69	31	13	e0.9
19	19	24	e29	e33	e32	e36	66	64	67	31	13	e1.5
20	18	24	e28	e35	e32	e35	75	63	64	30	13	2.2
21	17	25	e29	e37	e33	e36	71	60	62	29	12	2.3
22	17	25	e29	e38	e33	e36	65	59	59	28	12	5.2
23	19	25	e30	e38	e34	e37	61	58	57	27	11	9.9
24	21	24	e29	e38	e35	e37	58	56	54	28	11	10
25	22	24	e29	e38	e36	e37	57	55	52	27	11	8.5
26	22	24	e28	e37	e36	e37	56	54	50	27	11	7.5
27	22	24	e30	e36	e36	e37	57	52	49	26	10	6.0
28	e21	26	e31	e37	e36	e39	57	52	64	26	9.6	5.0
29	e24	26	e32	e36	---	e71	55	52	65	27	9.2	e4.6
30	e27	26	e32	e35	---	144	53	52	70	27	8.7	e4.2
31	e30	---	e32	e36	---	182	---	52	---	26	8.4	---
TOTAL	665	758	894	1,092	1,005	1,425	2,425	1,716	1,913	1,229	474.9	124.8
MEAN	21.5	25.3	28.8	35.2	35.9	46.0	80.8	55.4	63.8	39.6	15.3	4.16
MAX	30	29	32	38	41	182	175	67	85	71	25	10
MIN	17	23	26	33	32	35	53	45	46	26	8.4	0.90
CFSM	0.26	0.31	0.35	0.43	0.44	0.57	0.99	0.68	0.78	0.49	0.19	0.05
IN.	0.30	0.35	0.41	0.50	0.46	0.65	1.11	0.79	0.88	0.56	0.22	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)

MEAN	52.1	60.8	54.6	46.7	51.4	73.3	133	115	82.7	73.1	59.5	47.1
MAX	130	151	118	105	110	187	275	230	129	131	198	159
(WY)	(1995)	(1992)	(2002)	(1992)	(1992)	(1992)	(2002)	(2002)	(1993)	(2001)	(2001)	(1994)
MIN	6.13	8.52	8.20	7.92	12.2	26.6	44.1	36.9	54.4	38.1	8.08	4.16
(WY)	(1999)	(1999)	(1999)	(1999)	(1999)	(1999)	(1999)	(1998)	(1992)	(2004)	(1998)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005	
ANNUAL TOTAL	19,577		13,721.7			
ANNUAL MEAN	53.5		37.6		70.8	
HIGHEST ANNUAL MEAN					107	2002
LOWEST ANNUAL MEAN					34.3	1999
HIGHEST DAILY MEAN	254	Apr 20	182	Mar 31	570	Sep 23, 1994
LOWEST DAILY MEAN	17	Oct 21	0.90	Sep 18	(a)0.72	Oct 11, 2003
ANNUAL SEVEN-DAY MINIMUM	18	Oct 16	1.6	Sep 12	1.6	Sep 12, 2005
MAXIMUM PEAK FLOW			184	Mar 31	(b)589	Sep 23, 1994
MAXIMUM PEAK STAGE			4.32	Mar 31	(c)3.62	Apr 17, 2002
ANNUAL RUNOFF (CFSM)	0.658		0.462		0.871	
ANNUAL RUNOFF (INCHES)	8.96		6.28		11.83	
10 PERCENT EXCEEDS	123		66		137	
50 PERCENT EXCEEDS	32		33		56	
90 PERCENT EXCEEDS	23		11		20	

05357335 BEAR RIVER NEAR MANITOWISH WATERS, WI—Continued

(a) Result of beaver dam upstream
(b) Gage height, 3.47 ft (Datum then in use)
(c) Datum then in use
(e) Estimated

05360500 FLAMBEAU RIVER NEAR BRUCE, WI

LOCATION.--Lat 45°22'21", long 91°12'34", in Lot 7 of SE ¼ NW ¼ sec.2, T.33 N., R.7 W., Rusk County, Hydrologic Unit 07050002, on right bank 2.5 mi downstream from Thornapple Powerplant, 6.0 mi upstream from mouth, and 7.0 mi southeast of Bruce.

DRAINAGE AREA.--1,860 mi^2.

PERIOD OF RECORD.--August 1951 to current year.

REVISED RECORDS.--WDR WI-78-1: 1971. WDR WI-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,056.34 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair (see Introduction). Flow regulated by several powerplants above station and by Rest Lake and Flambeau Flowage Reservoirs. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	662	2,640	827	e644	e581	e942	7,250	1,540	1,070	3,390	872	530
2	782	2,730	767	e662	e626	e942	7,050	1,490	968	3,130	1,060	532
3	631	2,150	717	e780	e707	e807	5,220	1,350	942	2,220	930	447
4	607	1,670	749	e798	e752	e807	5,590	1,230	832	2,300	856	523
5	735	1,550	912	e789	e671	e816	4,580	1,080	870	1,370	704	558
6	693	1,350	945	e680	e780	e852	4,270	1,090	1,610	1,320	657	507
7	718	1,370	976	e707	e897	e1,040	4,280	1,070	2,000	872	720	459
8	719	1,330	958	e662	e978	e1,240	4,390	1,050	2,630	1,070	716	443
9	607	1,290	793	e671	e1,060	e1,100	4,400	1,030	1,580	1,080	672	578
10	564	1,170	928	e689	e906	e915	3,790	1,330	1,380	849	713	524
11	695	1,310	960	e743	e825	e915	3,020	1,570	1,180	841	687	407
12	707	966	e816	e789	e798	e897	2,660	1,560	1,300	833	621	430
13	654	954	e707	e780	e861	e870	2,590	1,500	1,270	781	632	475
14	652	943	e599	e734	e1,160	e879	1,960	1,600	1,820	600	643	542
15	660	973	e644	e689	e770	e897	2,130	1,990	3,060	795	643	509
16	600	953	e761	e662	e861	e761	1,720	1,870	2,890	808	638	616
17	514	946	e888	e635	e924	e599	1,680	1,650	2,110	807	633	567
18	578	1,000	e870	e599	e861	e680	1,960	1,780	1,530	825	606	515
19	576	1,010	e780	e581	e825	e707	2,050	1,770	1,660	734	582	444
20	586	991	e852	e562	e915	e861	1,950	1,780	1,220	653	547	595
21	639	1,050	e888	e653	e888	e770	1,960	1,550	945	622	627	548
22	669	1,180	e798	e671	e807	e761	1,760	1,540	1,100	705	642	448
23	653	1,190	e662	e680	e915	e725	1,900	1,340	1,010	681	636	473
24	970	1,160	e626	e698	e816	e906	1,460	1,210	888	677	613	560
25	786	1,060	e662	e635	e834	847	1,450	1,320	775	750	469	541
26	1,140	863	e761	e662	e816	794	1,430	1,160	749	802	623	588
27	1,010	916	e716	e644	e870	857	1,400	1,220	682	721	621	622
28	1,260	921	e680	e653	e969	794	1,340	1,070	1,040	736	619	622
29	2,020	957	e761	e662	---	e1,090	1,420	1,050	2,240	834	529	595
30	2,460	e861	e870	e662	---	e2,830	1,440	1,130	2,830	746	565	606
31	2,610	---	e834	e644	---	e4,490	---	1,100	---	682	575	---
TOTAL	27,157	37,454	24,707	21,120	23,673	32,391	88,100	43,020	44,181	33,234	20,651	15,804
MEAN	876	1,248	797	681	845	1,045	2,937	1,388	1,473	1,072	666	527
MAX	2,610	2,730	976	798	1,160	4,490	7,250	1,990	3,060	3,390	1,060	622
MIN	514	861	599	562	581	599	1,340	1,030	682	600	469	407

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)

MEAN	1,716	1,615	1,268	1,111	1,129	1,680	3,691	2,635	2,032	1,600	1,424	1,737
MAX	5,616	4,404	2,542	2,006	2,411	5,490	7,379	6,082	6,066	4,339	3,765	5,089
(WY)	(1986)	(1992)	(1992)	(1973)	(1969)	(1973)	(2002)	(1954)	(1968)	(1968)	(1972)	(1994)
MIN	363	430	382	451	474	971	1,013	758	572	596	553	420
(WY)	(1977)	(1977)	(1977)	(1977)	(1977)	(1959)	(1990)	(1987)	(1988)	(1988)	(1998)	(1998)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005	
ANNUAL TOTAL	572,230		411,492			
ANNUAL MEAN	1,563		1,127		1,800	
HIGHEST ANNUAL MEAN					2,900	1973
LOWEST ANNUAL MEAN					993	1988
HIGHEST DAILY MEAN	9,910	Apr 21	7,250	Apr 1	23,200	Sep 16, 1994
LOWEST DAILY MEAN	(a)370	Jan 14	407	Sep 11	(a)190	Dec 23, 1998
ANNUAL SEVEN-DAY MINIMUM	(a)461	Jan 9	474	Sep 7	309	Sep 8, 1998
MAXIMUM PEAK FLOW			8,150	Apr 2	24,100	Sep 16, 1994
MAXIMUM PEAK STAGE			7.24	Apr 2	12.44	Sep 16, 1994
10 PERCENT EXCEEDS	3,790		1,960		3,370	
50 PERCENT EXCEEDS	895		841		1,320	
90 PERCENT EXCEEDS	613		584		725	

(a) Ice affected
(e) Estimated

05362000 JUMP RIVER AT SHELDON, WI

LOCATION.--Lat 45°18'29", long 90°57'23", in SE $^1/_4$ SW $^1/_4$ sec.26, T.33 N., R.5 W., Rusk County, Hydrologic Unit 07050004, on right bank just downstream from highway bridge in Sheldon, 1,500 ft upstream from Shoulder Creek and 11 mi upstream from mouth.

DRAINAGE AREA.--576 mi^2.

PERIOD OF RECORD.--July 1915 to current year.

REVISED RECORDS.--WSP 975: 1938. WSP 1438: 1916-17(M), 1919(M), 1920, 1921(M), 1922, 1923-26(M), 1927, 1928-31(M), 1932, 1933-37(M), 1945-46(M), 1948-50(M). WDR WI-81-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,092.75 ft above NGVD of 1929. Prior to Feb. 9, 1939, Sept. 1, 1941, to Apr. 1, 1953, and Feb. 18, 1954, to Sept. 27, 1964, nonrecording gage at same site and datum. Apr. 2, 1953, to Feb. 18, 1954, nonrecording gage in creamery wellhouse 400 ft upstream at same datum. Feb. 9, 1939, to Aug. 31, 1941, and from Sept. 27, 1964, water-stage recorder at present site and datum.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	1,710	e165	e124	e69	e106	6,230	327	184	94	38	33
2	67	1,200	e167	e139	e71	e106	4,940	292	159	96	36	30
3	84	882	e157	e163	e72	e106	3,820	269	138	92	35	28
4	112	691	e160	e143	e76	e106	3,010	248	125	83	33	28
5	106	555	e167	e127	e76	e106	2,610	226	167	76	30	27
6	94	467	e173	e106	e81	e106	2,510	208	833	69	28	25
7	85	403	e168	e97	e95	e110	2,750	192	979	68	27	24
8	84	349	e167	e93	e107	e118	2,580	186	662	61	26	25
9	81	299	e171	e88	e128	e127	2,070	201	484	65	28	32
10	82	255	e179	e85	e141	e134	1,630	227	356	57	33	30
11	83	251	e232	e85	e155	e131	1,310	252	292	51	33	27
12	79	e251	e272	e85	e188	e123	1,080	253	348	46	32	31
13	75	e233	e215	e85	e192	e114	892	262	500	43	31	36
14	72	e206	e155	e81	e176	e105	734	380	715	40	31	39
15	68	e217	e138	e76	e156	e96	616	503	1,150	39	29	36
16	67	230	e130	e73	e146	e93	535	529	914	38	27	38
17	66	227	e121	e69	e140	e91	554	472	612	36	26	37
18	72	233	e110	e63	e131	e89	653	421	425	36	28	35
19	77	235	e101	e60	e125	e86	625	439	319	36	33	34
20	76	276	e94	e59	e123	e85	702	570	254	35	34	33
21	76	394	e89	e59	e113	e82	824	554	205	36	34	32
22	75	387	e85	e59	e110	e81	710	449	169	35	44	36
23	95	334	e83	e60	e110	e82	573	355	140	33	57	40
24	282	e279	e83	e61	e110	e86	470	295	118	32	50	40
25	438	e202	e85	e62	e109	e98	404	257	104	32	44	52
26	358	e202	e90	e64	e108	e109	374	234	96	36	41	50
27	310	e195	e94	e64	e108	e186	396	224	91	41	39	50
28	341	e193	e101	e66	e107	e374	411	250	91	46	38	57
29	669	e186	e101	e68	---	e1,260	406	280	86	51	39	59
30	1,390	e165	e107	e69	---	e2,670	369	252	91	47	37	57
31	2,090	---	e116	e69	---	e6,000	---	213	---	43	34	---
TOTAL	7,714	11,707	4,276	2,602	3,323	13,166	44,788	9,820	10,807	1,593	1,075	1,101
MEAN	249	390	138	83.9	119	425	1,493	317	360	51.4	34.7	36.7
MAX	2,090	1,710	272	163	192	6,000	6,230	570	1,150	96	57	59
MIN	60	165	83	59	69	81	369	186	86	32	26	24
CFSM	0.43	0.68	0.24	0.15	0.21	0.74	2.59	0.55	0.63	0.09	0.06	0.06
IN.	0.50	0.76	0.28	0.17	0.21	0.85	2.89	0.63	0.70	0.10	0.07	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2005, BY WATER YEAR (WY)

MEAN	421	429	183	102	105	728	1,836	856	659	262	239	438
MAX	1,897	2,022	1,092	392	620	3,184	4,126	2,514	3,442	1,293	1,916	4,145
(WY)	(2003)	(1992)	(1992)	(1946)	(1984)	(1973)	(1982)	(1973)	(1943)	(1968)	(1941)	(1941)
MIN	27.5	35.3	34.7	25.6	21.4	61.2	360	134	54.6	17.5	21.9	25.4
(WY)	(1949)	(1977)	(1934)	(1917)	(1924)	(1940)	(1946)	(1987)	(1934)	(1936)	(1933)	(1976)

05362000 JUMP RIVER AT SHELDON, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1915 - 2005	
ANNUAL TOTAL	180,923		111,972			
ANNUAL MEAN	494		307		520	
HIGHEST ANNUAL MEAN					923	1942
LOWEST ANNUAL MEAN					214	1948
HIGHEST DAILY MEAN	10,200	Mar 29	6,230	Apr 1	40,800	Aug 31, 1941
LOWEST DAILY MEAN	(a)40	Jan 30	24	Sep 7	(b)11	Dec 18, 1943
ANNUAL SEVEN-DAY MINIMUM	(a)42	Jan 29	27	Sep 2	14	(c)Jan 25, 1924
MAXIMUM PEAK FLOW			(d)7,070	Mar 31	(f)46,000	Aug 31, 1941
MAXIMUM PEAK STAGE			(a)11.67	Mar 30	(g)18.80	Aug 31, 1941
INSTANTANEOUS LOW FLOW			23	Sep 6-8, 12	(b)11	Dec 18, 1943
ANNUAL RUNOFF (CFSM)	0.858		0.533		0.903	
ANNUAL RUNOFF (INCHES)	11.68		7.23		12.27	
10 PERCENT EXCEEDS	1,400		614		1,290	
50 PERCENT EXCEEDS	110		107		156	
90 PERCENT EXCEEDS	48		34		47	

(a) Ice affected
(b) Result of freezeup
(c) Jan. 25, 1924, ice-affected, also occurred July 11, 1936
(d) Gage height 9.88 ft
(e) Estimated
(f) From rating curve extended above 13,000 ft^3/s on basis of contracted-opening measurement of peak flow
(g) From floodmark

05365500 CHIPPEWA RIVER AT CHIPPEWA FALLS, WI

LOCATION.--Lat 44°55'37", long 91°24'33", in Lot 1, NE $^1/_4$ NE $^1/_4$ sec.12, T.28 N., R.9 W., Chippewa County, Hydrologic Unit 07050005, on right bank at Chippewa Falls, 1.0 mi downstream from Duncan Creek.

DRAINAGE AREA.--5,650 mi^2.

PERIOD OF RECORD.--June 1888 to September 1983, October 1986 to current year. Monthly discharge for some periods published in WSP 1308.

REVISED RECORDS.--WSP 785: 1934(M). WSP 1508: 1897, 1905, 1918(M), 1924(M). WDR WI-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 798.46 ft above NGVD of 1929. Prior to January 1914, nonrecording gage, and January 1914 to June 19, 1932, water-stage recorder at site 1 mi upstream at different datum. June 19, 1932, to current year, water-stage recorder at present site and datum.

REMARKS.--Records good (see Introduction). Considerable regulation by Moose Lake, Lake Chippewa, Rest Lake, Flambeau Flowage, and Lake Wissota Reservoirs. Diurnal fluctuation caused by hydroelectric plant 1.1 mi upstream. Gage-height telemeter at station.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--A stage of 26.94 ft occurred Sept. 10, 1884, site and datum in use June 1932.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,420	8,620	2,640	2,550	2,200	2,130	32,900	4,050	3,500	5,170	1,510	1,330
2	2,040	8,780	2,130	3,060	2,210	2,450	33,800	4,150	3,160	5,070	1,420	1,240
3	1,790	5,590	1,980	2,460	2,020	3,310	27,900	4,050	2,250	4,940	1,390	1,270
4	1,970	3,750	2,010	2,590	1,870	2,430	20,100	3,420	2,730	4,690	1,400	1,280
5	1,930	4,410	2,070	2,190	2,170	1,890	17,700	3,100	3,400	2,960	1,430	1,270
6	1,960	4,470	2,160	2,180	2,250	1,900	13,800	3,300	4,010	2,250	1,430	1,260
7	1,870	3,460	3,010	2,200	2,620	2,220	13,200	3,400	6,250	2,230	1,330	1,260
8	1,520	4,360	3,200	2,140	3,280	3,520	14,500	2,890	9,660	2,190	1,320	1,240
9	1,520	3,930	3,150	1,970	3,100	3,990	16,400	2,640	7,710	2,020	1,340	1,220
10	1,560	3,750	2,160	1,960	3,090	3,690	14,200	3,180	4,390	1,970	1,350	1,230
11	1,690	4,400	2,940	1,940	2,220	2,390	9,170	3,680	4,300	2,060	1,350	1,240
12	2,020	4,360	3,590	2,210	2,170	2,220	6,050	4,580	5,300	2,050	1,320	1,210
13	2,070	3,350	3,030	2,320	2,160	2,210	7,000	4,910	4,680	2,050	1,270	1,190
14	2,070	3,290	1,930	1,720	2,190	2,460	6,420	4,880	5,010	1,850	1,270	1,210
15	1,730	3,290	1,720	1,550	2,580	2,430	6,140	4,990	7,210	1,470	1,280	1,210
16	1,620	2,830	1,800	1,450	3,060	1,980	5,300	5,060	8,160	1,470	1,280	1,210
17	1,620	2,200	2,100	1,440	2,280	1,970	5,080	5,570	6,680	1,500	1,290	1,210
18	1,610	2,530	3,150	2,360	2,190	2,050	5,470	5,000	4,070	1,520	1,320	1,210
19	1,490	3,380	2,470	2,220	2,020	2,390	6,690	5,560	3,570	1,510	1,350	1,220
20	1,350	3,470	1,860	1,470	1,950	2,660	6,800	6,150	3,580	1,470	1,770	1,210
21	1,350	3,030	1,900	1,510	1,950	1,980	6,340	6,050	3,580	1,460	1,810	1,210
22	1,410	3,730	2,110	1,800	1,960	2,340	6,600	5,680	2,770	1,410	1,550	1,200
23	1,560	3,450	1,840	1,770	2,530	2,860	6,000	4,900	2,240	1,290	1,220	1,200
24	2,710	3,500	1,530	1,630	2,560	2,280	4,850	4,130	2,640	1,570	1,210	1,200
25	3,370	3,010	1,510	1,970	3,220	2,350	4,010	3,800	3,260	1,460	1,220	2,720
26	2,780	2,670	1,730	2,010	1,860	2,350	4,190	3,820	2,860	1,330	1,230	1,620
27	2,200	3,500	1,780	2,530	1,930	2,780	4,150	3,630	2,190	1,300	1,280	1,320
28	2,920	3,530	1,830	1,920	2,130	6,860	4,140	3,930	2,690	1,220	1,310	1,440
29	5,960	3,110	1,820	1,510	---	10,800	4,170	3,760	4,690	1,320	1,310	1,640
30	8,290	3,080	2,060	1,500	---	12,900	4,230	3,880	5,160	1,520	1,310	1,590
31	8,440	---	2,460	1,740	---	27,600	---	4,180	---	1,530	1,320	---
TOTAL	76,840	116,830	69,670	61,870	65,770	125,390	317,300	132,320	131,700	65,850	42,190	39,860
MEAN	2,479	3,894	2,247	1,996	2,349	4,045	10,580	4,268	4,390	2,124	1,361	1,329
MAX	8,440	8,780	3,590	3,060	3,280	27,600	33,800	6,150	9,660	5,170	1,810	2,720
MIN	1,350	2,200	1,510	1,440	1,860	1,890	4,010	2,640	2,190	1,220	1,210	1,190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1888 - 2005, BY WATER YEAR (WY)

MEAN	4,230	4,182	2,997	2,573	2,639	5,366	11,841	8,576	6,859	4,280	3,383	4,384
MAX	15,570	15,990	7,897	5,305	6,569	17,630	28,900	22,700	30,570	13,620	9,805	23,030
(WY)	(1901)	(1992)	(1992)	(1973)	(1969)	(1973)	(1916)	(1903)	(1943)	(1968)	(1900)	(1941)
MIN	798	800	950	831	800	1,210	2,210	1,688	1,162	1,172	1,124	929
(WY)	(1977)	(1890)	(1893)	(1917)	(1895)	(1890)	(1895)	(1987)	(1988)	(1988)	(1894)	(1976)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1888 - 2005	
ANNUAL TOTAL	1,781,970		1,245,590			
ANNUAL MEAN	4,869		3,413		5,105	
HIGHEST ANNUAL MEAN					8833	1903
LOWEST ANNUAL MEAN					2,453	1934
HIGHEST DAILY MEAN	42,400	Mar 30	33,800	Apr 2	95,500	Sep 1, 1941
LOWEST DAILY MEAN	1,200	Jan 10	1,190	Sep 13	40	Feb 4, 1917
ANNUAL SEVEN-DAY MINIMUM	1,290	Jan 8	1,210	Sep 12	308	Jan 29, 1917
MAXIMUM PEAK FLOW			36,300	Apr 1	102,000	Sep 1, 1941
MAXIMUM PEAK STAGE			15.02	Apr 1	24.80	Sep 1, 1941
10 PERCENT EXCEEDS	12,200		5,980		9,870	
50 PERCENT EXCEEDS	2,280		2,240		3,450	
90 PERCENT EXCEEDS	1,500		1,310		1,340	

053674464 YELLOW RIVER AT BARRON, WI

LOCATION.--Lat 45°23'43", long 91°49'48", in SE $^1/_4$ SE $^1/_4$ sec.27, T.34 N., R.12 W., Barron County, Hydrologic Unit 07050007, on left bank 1.0 mi southeast of intersection of U.S. Highway 8 and State Highway 25 in Barron, 0.5 mi downstream from Quaderer Creek, in Becker Park, and 7.3 mi upstream from mouth.

DRAINAGE AREA.--153 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1991 to September 2005 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,090 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair (see Introduction). Flow is regulated occasionally at small dam upstream. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	207	82	85	78	e71	1,310	87	84	85	60	58
2	87	171	80	83	79	e71	545	87	79	75	59	54
3	85	144	83	77	79	e75	395	85	77	70	59	54
4	80	131	87	74	82	e75	278	80	76	70	62	56
5	78	119	86	71	81	75	257	80	89	66	60	57
6	77	114	86	72	91	78	285	81	102	63	58	58
7	78	107	86	70	103	91	262	78	83	63	57	58
8	80	100	86	70	94	e81	200	78	113	62	64	56
9	82	90	88	72	88	e79	209	89	120	62	70	57
10	79	97	97	72	79	e78	185	116	107	60	76	57
11	78	90	99	73	83	e76	172	109	107	59	71	57
12	77	88	96	75	82	e72	163	96	121	57	65	58
13	79	86	82	e76	83	e70	148	114	142	56	59	71
14	80	82	73	e73	85	e71	134	122	136	58	59	66
15	84	84	81	e68	e77	e74	122	115	118	61	58	65
16	85	86	84	e70	e72	e72	125	91	102	58	58	63
17	81	87	77	e70	e70	e71	138	98	88	55	58	60
18	79	90	81	e70	e69	73	127	101	84	57	60	61
19	79	93	67	e71	e71	74	119	143	79	58	61	62
20	79	111	69	e72	76	74	103	169	73	62	65	61
21	77	104	e70	e72	e75	74	119	131	91	61	62	64
22	78	97	e71	e72	e69	76	103	111	87	59	58	86
23	101	94	e70	e73	e68	85	97	98	68	68	55	104
24	102	90	e70	74	e72	107	86	92	71	80	55	77
25	93	86	e68	75	e68	146	91	88	66	73	56	86
26	83	84	e68	e72	e70	224	96	108	64	72	66	103
27	84	88	70	e72	e71	392	102	98	67	69	74	76
28	137	90	71	e68	e72	645	94	94	96	66	71	83
29	397	90	73	74	---	928	92	92	86	64	64	80
30	558	84	77	77	---	1,110	89	88	91	62	61	77
31	325	---	87	77	---	2,150	---	80	---	62	55	---
TOTAL	3,643	3,084	2,465	2,270	2,187	7,438	6,246	3,099	2,767	1,993	1,916	2,025
MEAN	118	103	79.5	73.2	78.1	240	208	100	92.2	64.3	61.8	67.5
MAX	558	207	99	85	103	2,150	1,310	169	142	85	76	104
MIN	77	82	67	68	68	70	86	78	64	55	55	54
CFSM	0.77	0.67	0.52	0.48	0.51	1.57	1.36	0.65	0.60	0.42	0.40	0.44
IN.	0.89	0.75	0.60	0.55	0.53	1.81	1.52	0.75	0.67	0.48	0.47	0.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

MEAN	105	112	85.2	77.6	90.7	159	242	140	118	100	107	102
MAX	204	184	112	90.5	179	256	587	272	222	146	170	191
(WY)	(1996)	(2001)	(2002)	(2003)	(2000)	(2004)	(2001)	(2003)	(1993)	(2000)	(1995)	(2002)
MIN	74.4	74.2	72.0	63.2	64.0	84.6	99.9	85.7	73.9	64.3	61.8	67.5
(WY)	(1992)	(1995)	(2000)	(1995)	(1995)	(2001)	(2000)	(1998)	(1994)	(2005)	(2005)	(2005)

053674464 YELLOW RIVER AT BARRON, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	43,566		39,133			
ANNUAL MEAN	119		107		119	
HIGHEST ANNUAL MEAN					158	2001
LOWEST ANNUAL MEAN					93.5	1994
HIGHEST DAILY MEAN	1,970	Mar 28	2,150	Mar 31	2,150	Mar 31, 2005
LOWEST DAILY MEAN	67	(a)Jul 18	54	Sep 2, 3	(b)23	Sep 11, 15 1993
ANNUAL SEVEN-DAY MINIMUM	(c)69	Jan 4	56	Aug 31	55	Aug 18, 1994
MAXIMUM PEAK FLOW			2,730	Mar 31	2,730	Mar 31, 2005
MAXIMUM PEAK STAGE			8.04	Mar 31	8.04	Mar 31, 2005
INSTANTANEOUS LOW FLOW			(b)31	Aug 9	(b)7.3	Sep 11, 1993
ANNUAL RUNOFF (CFSM)	0.778		0.701		0.780	
ANNUAL RUNOFF (INCHES)	10.59		9.51		10.60	
10 PERCENT EXCEEDS	168		126		171	
50 PERCENT EXCEEDS	87		79		88	
90 PERCENT EXCEEDS	72		60		69	

(a) Also occurred Dec. 19
(b) Result of regulation
(c) Ice affected
(e) Estimated

053674464 YELLOW RIVER AT BARRON, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August 1991 to September 2005 (discontinued).

INSTRUMENTATION.--Continuous water temperature recorder since Aug. 30, 1991.

REMARKS.--Records represent water temperature at sensor in degrees Celsius.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum temperature, 29.0°C, July 25, 30, 1999; minimum, 0.0°C, for many days.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum temperature, 27.2°C, July 17; minimum, 0.1°C, on many days.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.5	10.6	11.9	9.1	8.4	8.7	1.8	1.3	1.6	0.7	0.2	0.5
2	10.6	9.2	9.9	8.5	7.4	8.1	1.8	0.9	1.4	0.8	0.3	0.5
3	10.4	8.9	9.4	7.6	6.7	7.2	1.6	0.9	1.2	0.6	0.3	0.4
4	9.2	8.1	8.7	7.0	6.0	6.6	1.6	1.1	1.3	0.7	0.3	0.4
5	8.8	7.4	8.1	6.2	5.6	5.9	1.7	1.0	1.2	0.6	0.3	0.4
6	9.9	8.2	8.9	6.3	5.4	5.9	1.4	1.1	1.3	0.8	0.3	0.4
7	11.1	9.5	10.2	6.1	5.2	5.7	1.5	1.3	1.4	0.7	0.3	0.5
8	12.1	11.1	11.5	5.2	4.6	5.0	1.7	1.2	1.4	0.7	0.4	0.5
9	12.6	11.2	11.7	5.1	4.3	4.7	1.8	1.2	1.6	0.7	0.3	0.5
10	12.3	11.0	11.5	5.3	4.5	5.1	2.2	1.5	1.9	0.6	0.3	0.4
11	12.1	10.9	11.4	4.5	3.7	4.1	2.2	1.8	1.9	0.8	0.4	0.5
12	11.4	10.4	10.8	4.5	3.4	3.8	2.1	0.9	1.6	0.9	0.5	0.6
13	10.4	9.2	9.9	4.5	3.3	3.8	1.0	0.5	0.7	0.6	0.1	0.3
14	9.2	8.0	8.5	4.2	3.2	3.6	1.2	0.6	0.8	0.5	0.1	0.2
15	8.1	7.3	7.7	4.1	3.2	3.5	1.3	0.8	1.0	0.5	0.1	0.3
16	7.3	5.6	6.5	3.9	3.4	3.7	1.2	0.7	1.0	0.7	0.1	0.3
17	6.0	5.0	5.6	4.7	3.8	4.3	1.2	0.7	0.9	0.6	0.1	0.3
18	6.4	5.5	5.9	5.5	4.7	5.1	1.1	0.4	0.8	0.5	0.1	0.4
19	6.2	5.8	6.0	5.8	5.3	5.5	1.0	0.4	0.6	0.6	0.2	0.4
20	7.1	5.9	6.4	5.9	5.1	5.6	0.9	0.4	0.7	0.5	0.3	0.4
21	7.5	6.6	7.0	5.1	3.9	4.5	0.7	0.3	0.5	0.6	0.2	0.4
22	8.2	7.1	7.5	3.9	3.5	3.7	0.7	0.3	0.4	0.7	0.1	0.4
23	9.6	8.1	9.1	3.6	2.6	3.2	0.6	0.2	0.3	0.7	0.1	0.3
24	10.0	9.0	9.6	3.0	2.3	2.5	0.6	0.1	0.3	0.8	0.2	0.5
25	10.5	9.7	10	2.9	2.3	2.6	0.7	0.3	0.4	0.9	0.4	0.6
26	9.8	8.9	9.4	2.6	2.0	2.3	0.8	0.3	0.4	0.8	0.2	0.4
27	8.9	8.4	8.6	2.1	1.3	1.8	0.7	0.3	0.5	0.7	0.2	0.4
28	8.5	8.2	8.4	1.8	1.1	1.4	0.9	0.4	0.6	0.7	0.2	0.4
29	10.1	8.2	9.0	1.9	1.3	1.5	0.8	0.5	0.6	0.8	0.4	0.5
30	10.5	10.0	10.3	2.1	1.4	1.6	0.9	0.5	0.7	0.8	0.4	0.6
31	10.0	9.1	9.5	---	---	---	0.8	0.4	0.6	0.8	0.4	0.6
MONTH	12.6	5.0	9.0	9.1	1.1	4.4	2.2	0.1	1.0	0.9	0.1	0.4

053674464 YELLOW RIVER AT BARRON, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.9	0.5	0.6	0.9	0.1	0.4	1.5	0.7	1.0	8.0	7.2	7.6
2	1.0	0.5	0.7	1.4	0.1	0.4	3.3	0.4	1.9	7.2	5.8	6.6
3	1.2	0.4	0.7	1.2	0.1	0.5	4.7	2.7	3.7	8.3	5.4	6.8
4	1.3	0.4	0.7	1.1	0.3	0.6	6.6	4.4	5.5	10.2	7.0	8.5
5	1.4	0.4	0.7	1.2	0.4	0.7	8.1	5.6	6.7	12.0	9.4	10.7
6	0.8	0.4	0.6	1.7	0.5	0.8	8.3	7.2	7.8	15.3	11.6	13.4
7	0.6	0.3	0.4	1.0	0.3	0.5	8.9	6.5	7.7	15.3	14.0	14.6
8	0.8	0.3	0.5	1.2	0.3	0.5	9.8	7.1	8.5	15.8	14.3	14.9
9	0.7	0.3	0.5	1.4	0.3	0.7	10.8	8.7	9.8	16.9	15.2	16.0
10	0.9	0.2	0.5	0.9	0.3	0.6	11.8	10.1	10.9	16.6	16.1	16.4
11	1.2	0.3	0.6	0.9	0.1	0.4	11.8	11.3	11.5	16.6	15.1	15.9
12	1.4	0.4	0.7	1.2	0.1	0.5	11.3	9.8	10.5	15.1	11.4	13.2
13	1.0	0.5	0.7	1.5	0.2	0.6	11.6	9.0	10.2	11.4	10.2	10.6
14	0.9	0.5	0.7	1.4	0.2	0.6	11.6	9.5	10.6	10.8	9.7	10.1
15	1.0	0.3	0.5	1.6	0.2	0.6	12.5	10.6	11.5	10.6	9.5	10
16	0.8	0.2	0.4	1.3	0.2	0.6	12.7	12.1	12.5	12.0	9.7	10.8
17	0.8	0.2	0.4	1.7	0.2	0.6	13.7	11.5	12.5	13.0	11.5	12.2
18	0.9	0.2	0.4	0.9	0.2	0.5	14.6	13.0	13.8	13.1	12.7	12.9
19	0.8	0.2	0.4	1.7	0.4	0.7	15.3	14.6	14.9	13.5	12.9	13.2
20	0.7	0.2	0.5	1.9	0.3	0.9	16.1	14.4	15.0	14.4	13.0	13.6
21	0.9	0.2	0.4	2.2	0.4	1.0	15.5	13.9	14.6	15.2	14.2	14.6
22	1.1	0.2	0.4	2.6	0.5	1.3	14.4	12.0	13.6	15.5	14.9	15.2
23	1.1	0.2	0.4	2.8	0.8	1.5	12.1	10.6	11.3	16.8	14.6	15.5
24	0.8	0.2	0.4	2.6	1.2	1.8	12.3	9.8	10.9	17.9	15.6	16.7
25	1.0	0.2	0.5	2.6	1.4	1.9	11.0	9.8	10.5	17.3	16.5	17.0
26	1.0	0.2	0.4	2.2	1.1	1.6	10.2	9.2	9.6	17.4	16.0	16.6
27	0.7	0.2	0.4	1.8	0.8	1.1	9.4	8.1	8.9	17.0	16.0	16.6
28	0.9	0.2	0.4	1.2	0.6	0.9	8.6	7.4	8.1	16.4	15.7	15.9
29	---	---	---	1.1	0.4	0.8	9.1	7.9	8.4	17.4	15.4	16.2
30	---	---	---	1.3	0.6	0.9	8.6	7.6	8.1	19.0	16.1	17.4
31	---	---	---	1.4	0.5	0.9	---	---	---	19.7	17.4	18.3
MONTH	1.4	0.2	0.5	2.8	0.1	0.8	16.1	0.4	9.7	19.7	5.4	13.5
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.7	18.1	18.8	21.6	20.0	20.7	23.8	21.8	22.7	19.9	18.3	18.9
2	20.6	18.7	19.6	21.8	19.8	20.7	24.5	22.6	23.3	20.0	17.9	18.7
3	21.0	19.6	20.2	21.3	20.4	20.8	24.6	23.4	23.8	19.1	17.7	18.4
4	20.4	19.9	20.1	22.0	20.3	21.0	24.7	22.9	23.7	19.5	17.9	18.5
5	20.7	19.6	20.1	21.4	20.4	21.0	24.4	22.3	23.1	20.1	18.3	19.0
6	21.5	19.6	20.5	21.5	19.8	20.6	23.8	21.7	22.5	20.7	19.2	19.8
7	22.2	20.5	21.1	21.9	20.1	20.9	23.7	21.6	22.4	20.3	19.1	19.7
8	21.6	20.2	21.0	22.0	20.6	21.2	23.8	21.9	22.7	19.6	18.3	18.8
9	22.3	20.9	21.5	23.3	21.2	22.1	23.3	22.3	22.8	19.5	18.2	18.7
10	22.6	21.2	21.7	24.5	22.2	23.2	23.5	21.7	22.5	20.4	18.8	19.5
11	22.6	21.7	22.0	25.4	23.2	24.1	22.1	21.3	21.7	21.2	19.7	20.3
12	23.0	21.4	22.2	26.4	23.7	24.9	22.1	20.8	21.3	21.1	20.5	20.7
13	22.5	21.5	22.2	27.1	24.3	25.5	21.3	20.0	20.7	21.2	19.9	20.6
14	21.6	20.3	21.0	27.1	24.5	25.5	21.2	19.4	20.1	19.9	18.6	19.4
15	21.1	19.4	20.2	26.9	24.6	25.6	21.1	18.9	19.8	19.3	17.9	18.5
16	21.6	19.4	20.2	27.0	25.0	25.9	21.3	19.0	19.9	18.9	17.5	18.0
17	22.3	19.8	20.8	27.2	25.3	26.1	20.8	19.6	20.2	18.5	17.2	17.7
18	22.1	20.1	20.9	25.9	24.2	25.3	20.5	20.0	20.2	18.9	17.1	17.8
19	22.4	20.6	21.4	25.4	23.4	24.1	20.8	19.7	20.1	18.9	17.6	18.1
20	23.1	21.5	22.0	25.5	23.1	24.0	21.3	19.5	20.3	19.0	17.3	18.0
21	23.9	21.6	22.6	26.0	23.4	24.4	21.0	19.4	20.0	19.2	17.5	18.3
22	24.1	22.3	23.1	25.2	23.3	24.1	20.3	18.7	19.4	18.8	17.7	18.4
23	25.0	22.9	23.8	23.8	22.8	23.4	20.0	17.9	18.8	17.7	16.8	17.3
24	25.6	23.8	24.4	24.6	22.8	23.5	19.3	17.9	18.5	16.8	15.6	16.0
25	25.2	23.6	24.2	24.1	22.8	23.2	19.2	18.2	18.6	15.7	15.3	15.5
26	24.2	23.4	23.7	23.0	21.2	22.1	19.0	18.4	18.6	15.7	14.6	15.1
27	23.9	21.1	23.2	22.2	20.4	21.1	19.6	17.7	18.5	15.5	14.4	15.0
28	23.6	22.0	22.8	21.8	20.3	20.9	19.3	18.0	18.6	15.2	13.7	14.7
29	22.8	22.0	22.5	21.9	20.0	20.8	20.0	18.1	18.9	13.7	12.6	13.0
30	22.1	20.9	21.6	22.3	20.1	21.0	20.1	18.3	19.0	13.4	12.2	12.8
31	---	---	---	23.2	20.9	21.9	20.1	18.3	19.0	---	---	---
MONTH	25.6	18.1	21.6	27.2	19.8	22.9	24.7	17.7	20.7	21.2	12.2	17.8
YEAR	27.2	0.1	10.2									

05368000 HAY RIVER AT WHEELER, WI

LOCATION.--Lat 45°02'52", long 91°54'39", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.25, T.30 N., R.13 W., Dunn County, Hydrologic Unit 07050007, on right bank 25 ft downstream from highway bridge in Wheeler, 1.8 mi upstream from Otter Creek, and 2.4 mi downstream from South Fork Hay River.

DRAINAGE AREA.--418 mi^2.

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WDR WI-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 889.30 ft above NGVD of 1929. Prior to Mar. 25, 1951, nonrecording gage.

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

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Maximum stage since 1915, 16.6 ft April 1934, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235	616	e252	e271	e261	239	4,540	356	307	367	212	187
2	247	481	e268	e255	e261	231	2,640	349	297	320	209	184
3	240	422	277	e258	e257	255	1,560	343	288	301	205	182
4	235	392	283	e245	e266	281	1,020	335	286	297	208	185
5	230	376	276	e229	e237	254	881	326	313	279	209	188
6	228	365	272	e236	e364	260	825	312	329	268	202	188
7	227	353	272	e232	e603	664	901	307	322	264	200	189
8	233	336	273	e236	e466	579	741	305	423	259	199	190
9	235	320	274	e245	e359	385	642	310	507	254	207	190
10	231	312	295	e248	e305	335	607	330	400	248	235	187
11	227	304	328	e236	e262	297	580	321	373	241	222	184
12	231	295	e296	e239	e276	271	560	310	370	236	210	183
13	228	289	e236	e232	e310	261	544	373	420	234	205	192
14	227	286	e220	e204	316	267	505	413	410	230	198	198
15	229	283	e242	e207	300	272	474	403	396	228	195	194
16	236	283	e268	e213	277	269	465	387	377	225	193	191
17	238	283	e242	e220	263	257	586	367	350	220	192	188
18	237	283	e229	e226	259	261	579	357	330	225	193	189
19	239	286	e216	e232	e243	261	514	409	316	223	199	191
20	235	335	e216	e248	e228	255	500	464	311	224	197	191
21	233	342	e248	e252	e213	258	476	411	323	230	192	187
22	235	325	e236	e239	e213	270	448	371	307	220	189	193
23	251	314	e236	e252	e243	313	424	359	292	225	188	199
24	272	297	e236	e248	e197	467	403	344	287	278	186	195
25	257	283	e245	e245	e228	723	390	326	283	261	185	228
26	250	284	e255	e245	255	935	388	332	273	276	194	261
27	255	285	e248	e261	255	1,210	389	344	269	249	216	231
28	262	289	e255	e252	250	e1,570	384	332	351	232	205	219
29	579	286	e258	e245	---	e1,920	373	321	361	226	196	223
30	1,150	e252	e261	e248	---	e2,490	364	311	366	220	191	217
31	1,020	---	e261	e255	---	4,830	---	310	---	217	189	---
TOTAL	9,432	9,857	7,974	7,454	7,967	21,140	23,703	10,838	10,237	7,777	6,221	5,924
MEAN	304	329	257	240	285	682	790	350	341	251	201	197
MAX	1,150	616	328	271	603	4,830	4,540	464	507	367	235	261
MIN	227	252	216	204	197	231	364	305	269	217	185	182
CFSM	0.73	0.79	0.62	0.58	0.68	1.63	1.89	0.84	0.82	0.60	0.48	0.47
IN.	0.84	0.88	0.71	0.66	0.71	1.88	2.11	0.96	0.91	0.69	0.55	0.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)

MEAN	269	265	230	204	231	490	644	374	353	277	269	284
MAX	637	704	470	412	657	1,021	2,054	792	778	667	568	762
(WY)	(2003)	(1971)	(1966)	(1981)	(1981)	(1983)	(1965)	(2003)	(1993)	(1979)	(2001)	(1986)
MIN	139	138	122	97.2	85.2	155	166	153	153	135	126	141
(WY)	(1959)	(1959)	(1959)	(1959)	(1959)	(1956)	(1959)	(1958)	(1959)	(1964)	(1964)	(1958)

05368000 HAY RIVER AT WHEELER, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005	
ANNUAL TOTAL	131,455		128,524			
ANNUAL MEAN	359		352		324	
HIGHEST ANNUAL MEAN					433	2002
LOWEST ANNUAL MEAN					152	1959
HIGHEST DAILY MEAN	3,750	Mar 28	4,830	Mar 31	13,000	Mar 31, 1967
LOWEST DAILY MEAN	(a)180	Jan 29	182	Sep 3	80	Feb 20, 1959
ANNUAL SEVEN-DAY MINIMUM	(a)193	Jan 27	186	Aug 31	82	Feb 16, 1959
MAXIMUM PEAK FLOW			7,030	Mar 31	(b)13,600	Mar 31, 1967
MAXIMUM PEAK STAGE			13.40	Mar 31	15.04	Mar 31, 1967
INSTANTANEOUS LOW FLOW			181	Sep 3, 12	(c)55	Mar 13, 1954
ANNUAL RUNOFF (CFSM)	0.859		0.842		0.776	
ANNUAL RUNOFF (INCHES)	11.70		11.44		10.54	
10 PERCENT EXCEEDS	502		470		498	
50 PERCENT EXCEEDS	283		261		245	
90 PERCENT EXCEEDS	228		197		154	

(a) Ice affected
(b) From rating curve extended above 9,000 ft^3/s
(c) Result of freezeup
(e) Estimated

05369000 RED CEDAR RIVER AT MENOMONIE, WI

LOCATION.--Lat 44°52'31", long 91°56'17", in SE ¼ SE ¼ sec.27, T.28 N., R.13 W., Dunn County, Hydrologic Unit 07050007, on right bank at Cty P at Menomonie, 1 mi downstream from powerplant of Northern States Power Co., and ¼ mi upstream from Gilbert Creek.

DRAINAGE AREA.--1,770 mi^2.

PERIOD OF RECORD.--June 1907 to September 1908, May 1913 to current year. Monthly discharge only for June 1907 to September 1908, published in WSP 1308. Unpublished daily discharge from June 1907 to September 1908 in District files.

REVISED RECORDS.--WDR WI-81-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 767.30 ft above NGVD of 1929 (Northern States Power Co. bench mark). Prior to Sept. 3, 1908, nonrecording gage 0.2 mi downstream at different datum. May 9, 1913, to Sept. 30, 1923, water-stage recorder 0.8 mi upstream at datum 779.06 above NGVD of 1929. Oct. 1, 1923 to Sept. 30, 2004, water-stage recorder 0.8 mi upstream at datum 779.48 above NGVD of 1929.

REMARKS.--Records good (see Introduction). Flow regulated by powerplants at Menomonie and Cedar Falls. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,290	2,710	968	1,200	1,020	967	13,800	1,320	1,300	1,300	821	729
2	1,170	2,460	983	1,160	1,020	862	11,300	1,390	1,250	1,590	867	666
3	1,130	2,090	1,080	1,000	1,090	809	7,220	1,240	1,090	1,390	826	713
4	1,180	1,940	1,220	1,110	1,120	1,140	4,840	1,220	1,260	1,140	842	838
5	1,150	1,780	1,340	1,040	1,070	1,170	4,010	1,260	1,230	827	851	738
6	1,040	1,340	1,200	927	1,520	1,160	3,560	1,260	1,460	1,060	722	1,030
7	1,040	1,330	1,200	957	1,730	1,930	3,560	1,220	1,400	1,360	806	1,140
8	1,200	1,320	1,200	968	1,520	1,940	3,380	1,170	2,340	1,130	831	1,140
9	1,100	1,320	1,200	971	1,310	1,350	3,220	1,310	2,460	1,040	841	1,130
10	1,030	1,310	1,290	965	1,270	1,310	3,030	1,280	2,260	902	848	1,000
11	1,050	1,270	1,300	1,040	1,050	1,190	2,700	1,360	2,050	845	853	1,040
12	951	1,160	1,370	902	1,220	1,060	2,640	1,340	1,520	923	926	1,150
13	983	1,160	1,070	1,060	1,200	845	2,470	1,610	1,690	e828	964	1,430
14	1,060	1,170	767	965	1,390	1,050	2,060	1,990	1,630	974	901	1,180
15	987	1,100	772	767	1,150	1,090	1,320	1,790	1,480	1,210	749	1,020
16	972	1,060	918	766	1,180	1,120	1,470	1,940	1,500	676	595	991
17	1,020	1,210	1,160	768	922	1,120	1,460	1,650	1,680	676	656	767
18	1,020	1,240	887	836	840	1,050	1,260	1,530	1,550	814	755	716
19	1,050	1,380	869	855	884	1,000	1,310	1,710	1,420	903	746	714
20	1,010	1,430	683	923	1,150	1,110	1,370	1,690	1,300	872	768	750
21	1,060	1,440	759	932	1,050	1,070	1,800	1,800	1,250	915	748	859
22	955	1,330	917	971	953	1,140	1,760	1,520	1,190	820	800	867
23	946	1,380	777	853	999	1,200	1,630	1,410	1,280	1,010	711	889
24	1,140	1,310	848	1,010	1,050	1,480	1,220	1,320	1,270	1,010	620	1,080
25	1,090	1,240	927	974	955	2,140	1,500	1,250	1,080	1,040	801	1,430
26	1,170	1,240	959	919	997	2,730	1,500	1,280	1,030	1,230	870	990
27	1,090	1,200	1,010	935	1,060	3,390	1,510	1,470	1,140	1,010	817	1,040
28	1,220	1,290	1,020	1,050	1,100	4,300	1,580	1,500	1,380	890	797	1,030
29	1,680	1,250	1,030	929	---	5,730	1,670	1,360	1,430	975	751	909
30	2,990	1,200	1,120	930	---	7,820	1,550	1,310	1,300	869	719	995
31	3,660	---	1,120	966	---	10,100	---	1,260	---	723	735	---
TOTAL	38,434	42,660	31,964	29,649	31,820	64,373	91,700	44,760	44,220	30,952	24,537	28,971
MEAN	1,240	1,422	1,031	956	1,136	2,077	3,057	1,444	1,474	998	792	966
MAX	3,660	2,710	1,370	1,200	1,730	10,100	13,800	1,990	2,460	1,590	964	1,430
MIN	946	1,060	683	766	840	809	1,220	1,170	1,030	676	595	666

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 2005, BY WATER YEAR (WY)

MEAN	1,159	1,176	990	906	975	1,926	2,362	1,535	1,496	1,140	1,001	1,204
MAX	2,806	2,521	2,316	1,317	2,047	4,142	6,819	3,423	3,702	2,926	2,237	3,091
(WY)	(1969)	(1992)	(1966)	(1973)	(1966)	(1973)	(1965)	(2003)	(1943)	(1968)	(1995)	(1938)
MIN	528	566	541	532	536	921	664	612	425	421	383	493
(WY)	(1933)	(1937)	(1933)	(1959)	(1959)	(1956)	(1930)	(1934)	(1934)	(1934)	(1934)	(1933)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1907 - 2005	
ANNUAL TOTAL	550,998		504,040			
ANNUAL MEAN	1,505		1,381		1,322	
HIGHEST ANNUAL MEAN					2,016	2002
LOWEST ANNUAL MEAN					711	1931
HIGHEST DAILY MEAN	11,500	Mar 29	13,800	Apr 1	29,000	Apr 4, 1934
LOWEST DAILY MEAN	678	Jan 7	595	Aug 16	100	Nov 8, 1907
ANNUAL SEVEN-DAY MINIMUM	806	Jan 4	717	Aug 15	310	Sep 8, 1934
MAXIMUM PEAK FLOW			19,000	Apr 1	(a)40,000	Apr 4, 1934
MAXIMUM PEAK STAGE			16.39	Apr 1	(b)16.00	Apr 4, 1934
10 PERCENT EXCEEDS	2,360		1,800		2,210	
50 PERCENT EXCEEDS	1,210		1,130		1,070	
90 PERCENT EXCEEDS	908		808		645	

05369000 RED CEDAR RIVER AT MENOMONIE, WI—Continued

(a) From rating curve extended above 27,000 ft^3/s on basis of computed flow over Cedar Falls Dam, 6 mi upstream
(b) From floodmarks, datum then in use
(e) Estimated

05369500 CHIPPEWA RIVER AT DURAND, WI

LOCATION.--Lat 44°37'42", long 91°58'08", in SE ¼ SW ¼ sec.21, T.25 N., R.13 W., Pepin County, Hydrologic Unit 07050005, on left bank in Durand, 75 ft downstream from bridge on U.S. Highway 10, and 9.5 mi downstream from Red Cedar River.

DRAINAGE AREA.--9,010 mi^2.

PERIOD OF RECORD.--July 1928 to current year.

REVISED RECORDS.--WSP 785: 1930, 1934(M). WSP 875: 1930 (monthly and yearly runoff). WSP 925: 1938. WSP 1508: 1929(M), 1932. WDR WI-82-1: Drainage area. WDR WI-99-1: 1995(m).

GAGE.--Water-stage recorder. Datum of gage is 694.59 ft above NGVD of 1929. Prior to Dec. 9, 1930, nonrecording gage at bridge 400 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair (see Introduction). Flow regulated by powerplants, Moose Lake, Lake Chippewa, Rest Lake, Flambeau Flowage, and Lake Wissota on Chippewa and Flambeau Rivers. Gage-height telemeter and data-collection platform at station.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--A stage of 18.4 ft, from flood marks (levels by U.S. Army Corps of Engineers) occurred Sept. 12, 1884, and has not been exceeded since.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,370	13,100	5,060	e4,900	e3,600	e4,530	45,100	6,640	6,090	6,990	2,950	2,610
2	4,550	12,600	4,490	e4,600	e3,910	e4,220	51,400	6,420	5,800	7,310	3,000	2,600
3	4,020	12,100	4,330	e5,200	e3,910	e4,070	48,600	6,610	5,070	7,020	2,980	2,600
4	3,920	8,440	4,180	e4,750	e3,910	e5,160	37,800	6,100	4,670	6,410	2,960	2,610
5	3,950	7,020	4,460	e4,600	e4,530	e4,530	27,300	5,950	5,000	6,190	2,900	2,600
6	3,860	7,580	4,360	e4,000	e4,690	e4,070	24,100	5,330	5,560	5,100	2,750	2,660
7	3,810	6,700	4,380	e4,150	e4,840	e4,380	19,700	5,640	6,490	4,560	2,810	2,970
8	3,720	5,870	4,870	e4,000	e5,160	e5,000	19,600	5,550	10,300	4,210	2,900	2,950
9	3,440	6,860	5,370	e4,000	e5,310	6,330	21,000	5,280	12,300	4,050	2,900	2,890
10	3,280	6,020	5,320	e3,700	e5,620	6,570	21,100	4,970	10,500	3,780	3,030	2,820
11	3,410	6,270	4,920	e4,000	e5,310	5,730	17,800	5,550	8,180	3,680	2,970	2,740
12	3,510	6,500	5,180	e4,150	e4,380	4,500	13,000	5,990	7,790	3,630	2,870	2,780
13	3,700	5,940	6,080	e4,600	e4,530	4,280	11,000	6,910	8,080	3,790	2,940	3,070
14	3,900	5,660	5,190	e4,450	e4,380	4,370	11,600	7,960	7,800	3,710	2,880	3,090
15	3,870	5,220	4,610	e3,700	e4,530	4,550	9,630	8,710	7,620	3,750	2,710	2,800
16	3,710	5,400	3,770	e3,250	e4,840	4,470	9,400	8,710	10,300	3,120	2,710	2,800
17	3,400	4,910	4,250	e3,400	e5,310	4,150	8,780	8,540	10,800	2,890	2,620	2,630
18	3,370	4,570	4,420	e3,100	e4,530	4,090	8,280	8,200	8,670	3,070	2,670	2,600
19	3,340	4,950	5,170	e4,000	e3,910	3,910	8,640	8,140	6,650	3,040	2,740	2,600
20	3,390	5,760	5,220	e3,850	e3,910	4,510	10,500	8,740	6,040	3,230	2,940	2,610
21	3,260	5,950	e3,700	e3,700	e4,070	4,460	9,780	9,360	5,940	3,260	3,010	2,600
22	3,220	5,460	e3,700	e3,400	e3,910	4,030	11,500	9,130	5,780	3,100	2,890	2,720
23	3,160	6,170	e3,550	e3,700	e3,910	4,670	10,700	8,260	5,060	3,060	2,760	2,600
24	3,310	6,230	e3,550	e3,250	e4,380	5,030	8,810	7,530	4,350	3,460	2,600	2,850
25	4,580	5,590	e3,700	e3,250	e4,840	5,300	8,090	6,520	4,780	3,290	2,640	3,540
26	5,060	5,100	e3,400	e4,150	e5,160	6,530	7,170	6,330	5,000	3,900	2,800	3,970
27	4,640	5,210	e3,700	e4,000	e3,910	7,310	7,010	6,150	4,820	3,260	2,870	3,410
28	4,600	5,760	e3,550	e4,450	e4,220	9,960	7,060	6,320	4,460	2,860	2,710	3,220
29	5,540	5,800	e3,700	e3,850	---	16,400	7,060	6,200	5,420	2,920	2,650	3,310
30	10,000	5,270	e4,450	e3,550	---	23,600	7,050	6,020	6,990	3,120	2,600	3,250
31	12,600	---	e4,300	e3,100	---	32,000	---	6,150	---	2,960	2,600	---
TOTAL	134,490	198,010	136,930	122,800	125,510	212,710	508,560	213,910	206,310	124,720	87,360	86,500
MEAN	4,338	6,600	4,417	3,961	4,482	6,862	16,950	6,900	6,877	4,023	2,818	2,883
MAX	12,600	13,100	6,080	5,200	5,620	32,000	51,400	9,360	12,300	7,310	3,030	3,970
MIN	3,160	4,570	3,400	3,100	3,600	3,910	7,010	4,970	4,350	2,860	2,600	2,600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005, BY WATER YEAR (WY)

MEAN	6,546	6,811	5,368	4,758	5,053	9,599	16,240	10,670	9,452	6,314	5,163	6,929
MAX	20,360	20,190	11,600	8,181	11,160	25,120	34,170	28,220	37,730	19,070	12,180	27,950
(WY)	(1986)	(1992)	(1966)	(1984)	(1984)	(1973)	(1967)	(1954)	(1943)	(1968)	(1995)	(1941)
MIN	2,103	2,209	2,335	2,289	2,404	3,645	4,718	3,336	2,699	2,271	2,026	1,954
(WY)	(1977)	(1977)	(1934)	(1934)	(1990)	(1931)	(1931)	(1931)	(1934)	(1934)	(1934)	(1948)

05369500 CHIPPEWA RIVER AT DURAND, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005	
ANNUAL TOTAL	2,853,110		2,157,810			
ANNUAL MEAN	7,795		5,912		7,734	
HIGHEST ANNUAL MEAN					11,550	1942
LOWEST ANNUAL MEAN					3,992	1931
HIGHEST DAILY MEAN	56,300	Mar 31	51,400	Apr 2	117,000	Apr 2, 1967
LOWEST DAILY MEAN	(a)2,700	Jan 8	2,600	(b)Aug 24	1,100	Nov 24, 1950
ANNUAL SEVEN-DAY MINIMUM	(a)2,810	Jan 8	2,600	Aug 30	1,580	Oct 28, 1948
MAXIMUM PEAK FLOW			52,400	Apr 2	123,000	Apr 2, 1967
MAXIMUM PEAK STAGE			12.10	Apr 2	16.93	Apr 2, 1967
INSTANTANEOUS LOW FLOW			2,590	Sep 21	1,020	Nov 24, 1950
10 PERCENT EXCEEDS	17,100		8,940		14,400	
50 PERCENT EXCEEDS	4,880		4,510		5,600	
90 PERCENT EXCEEDS	3,300		2,870		3,000	

(a) Ice affected
(b) Also occurred Aug. 30, 31, Sept. 2, 3, 5, 18, 19, 21, 23
(e) Estimated

05370000 EAU GALLE RIVER AT SPRING VALLEY, WI

LOCATION.--Lat 44°51'15", long 92°14'17", in SE $^1/_4$ NE $^1/_4$ sec.6, T.27 N., R.15 W., Pierce County, Hydrologic Unit 07050005, on right bank 370 ft downstream from flood control dam, 1,900 ft upstream from Mines Creek, at Spring Valley.

DRAINAGE AREA.--64.0 mi^2.

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

REVISED RECORDS.--WDR WI-67-1: 1966. WDR WI-81-1: Drainage area. WDR WI-92-1: 1975-79(M), 1977, 1978. WDR WI-01-1: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and rock v-notch sharp-crested weir. Datum of gage is 900.00 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 31, 1957, nonrecording gage at site 850 ft downstream at datum of 912.45 ft above NGVD of 1929. Aug. 1, 1957, to June 6, 1966, nonrecording gage at downstream site at datum of 910.45 ft above NGVD of 1929. June 7, 1966, to Oct. 31, 1968, nonrecording gage at downstream site at datum of 909.45 ft above NGVD of 1929. Nov. 1, 1968 to Sept. 3, 2003, water-stage recorder, crest-stage gage, and metal v-notch sharp-crested weir at site 400 ft downstream at same datum.

REMARKS.--Records good (see Introduction). Low flow slightly regulated and high flow completely regulated by flood-control dam 770 ft upstream. Data-collection platform and gage-height telemeter at station.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Maximum stage since at least 1894, that of Sept. 18, 1942, 19.98 ft, with datum at 909.45 ft above NGVD of 1929, from floodmarks, discharge, 33,000 ft^3/s estimated by U.S. Army Corps of Engineers on basis of slope-area measurement by Geological Survey of peak discharge of 39,000 ft^3/s at Elmwood, drainage area, 91.9 mi^2.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	29	16	14	14	14	188	18	18	14	14	14
2	16	22	16	14	14	13	69	18	18	14	14	14
3	16	19	16	13	15	13	49	18	17	15	14	13
4	15	18	16	13	15	14	40	17	17	15	15	14
5	15	17	17	12	16	14	36	17	19	14	11	14
6	14	16	16	13	177	42	34	17	20	14	7.5	15
7	14	16	16	12	91	225	32	16	23	14	8.5	15
8	16	15	16	12	44	84	30	17	54	14	11	15
9	15	15	16	13	26	43	28	18	107	14	14	14
10	14	16	18	13	19	28	27	19	49	14	18	14
11	14	15	24	13	16	20	26	18	32	13	16	13
12	13	15	26	13	16	18	27	19	23	13	14	17
13	14	15	21	12	24	16	28	27	21	13	13	22
14	15	15	18	12	38	15	27	48	21	13	12	19
15	15	15	17	12	32	15	32	39	19	13	12	12
16	16	16	16	12	26	15	29	32	19	13	13	8.9
17	14	16	16	12	20	15	69	28	18	13	13	11
18	14	15	16	12	17	16	55	27	17	15	14	12
19	14	17	15	12	16	16	39	60	16	14	14	12
20	14	22	16	13	16	15	38	66	18	17	15	12
21	14	29	15	14	15	14	35	43	19	17	14	13
22	14	24	15	15	14	15	27	30	17	15	13	19
23	17	20	14	14	14	19	22	23	15	17	13	14
24	15	18	13	14	14	75	20	20	16	18	13	13
25	15	17	13	14	14	191	19	20	16	18	13	34
26	14	17	13	14	14	275	19	20	15	26	16	23
27	14	18	13	14	14	441	19	20	15	18	17	17
28	16	17	13	14	14	525	19	20	16	16	15	16
29	19	16	13	14	---	423	18	20	16	15	14	15
30	31	16	14	14	---	574	18	19	15	14	14	14
31	42	---	14	14	---	1,120	---	18	---	14	14	---
TOTAL	504	536	498	407	765	4,323	1,119	792	706	467	419.0	458.9
MEAN	16.3	17.9	16.1	13.1	27.3	139	37.3	25.5	23.5	15.1	13.5	15.3
MAX	42	29	26	15	177	1,120	188	66	107	26	18	34
MIN	13	15	13	12	14	13	18	16	15	13	7.5	8.9

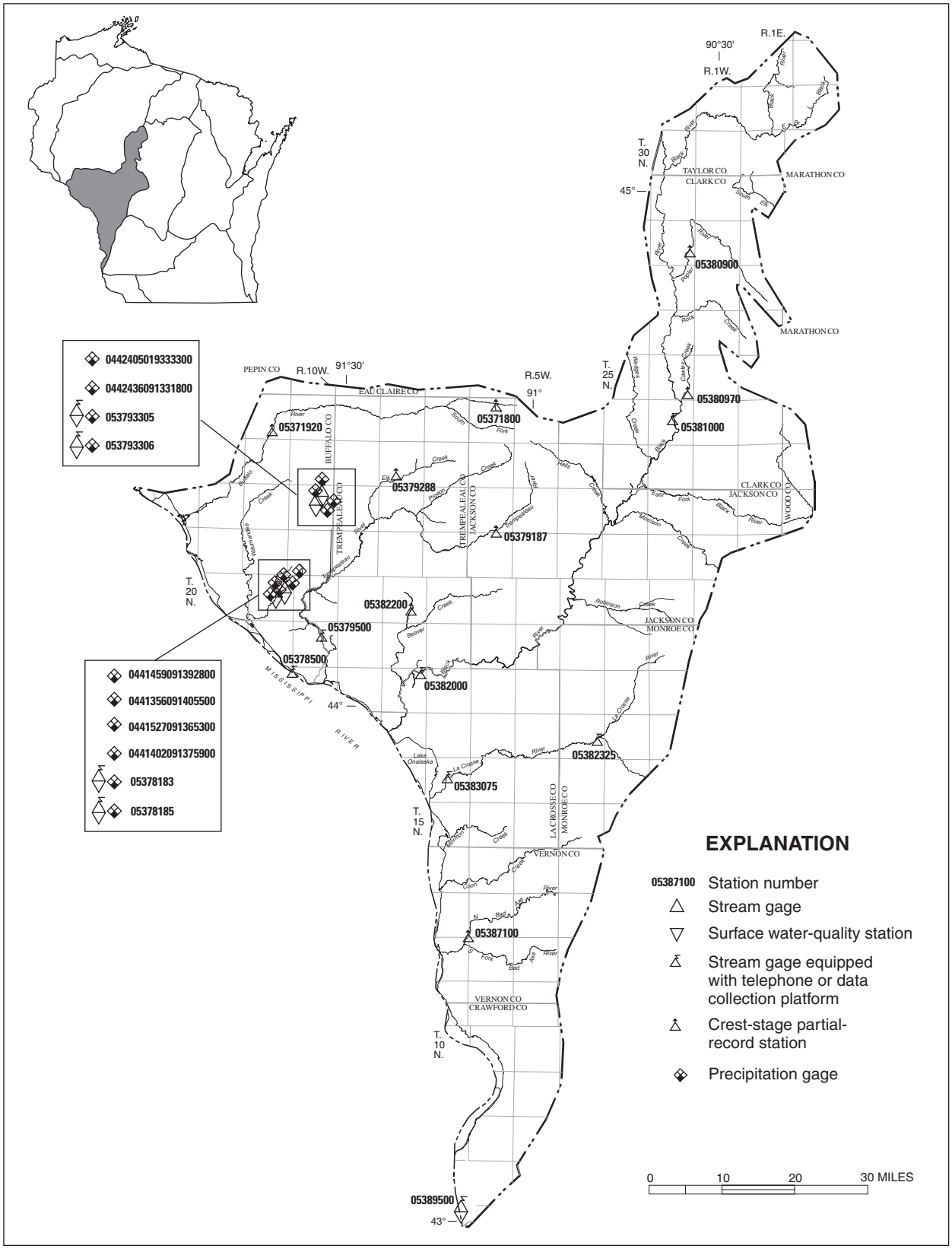
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2005, BY WATER YEAR (WY)

MEAN	26.8	26.7	18.7	15.4	22.2	76.1	67.7	39.6	43.8	27.3	28.4	29.9
MAX	104	86.2	39.7	23.0	71.6	164	258	104	148	94.1	90.1	153
(WY)	(2003)	(1971)	(1978)	(1997)	(1981)	(1989)	(2001)	(2003)	(1980)	(1978)	(1995)	(1986)
MIN	10.4	7.24	4.22	5.21	5.77	10.1	16.6	12.4	11.6	12.5	5.95	9.81
(WY)	(1970)	(1969)	(1969)	(1969)	(1969)	(1970)	(2000)	(1977)	(1969)	(1988)	(1969)	(1969)

05370000 EAU GALLE RIVER AT SPRING VALLEY, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1969 - 2005	
ANNUAL TOTAL	9,950.0		10,994.9			
ANNUAL MEAN	27.2		30.1		35.2	
HIGHEST ANNUAL MEAN					56.1	2001
LOWEST ANNUAL MEAN					21.2	1988
HIGHEST DAILY MEAN	922	Mar 26	1,120	Mar 31	2,190	Mar 28, 1989
LOWEST DAILY MEAN	6.0	Sep 29	7.5	Aug 6	(a)0.00	Aug 12-16, 1971
ANNUAL SEVEN-DAY MINIMUM	13	Dec 23	12	Sep 15	(b)0.91	Sep 15, 1969
MAXIMUM PEAK FLOW			1,960	Mar 31	(c)3,030	Jun 7, 1980
MAXIMUM PEAK STAGE			18.20	Mar 31	(c)19.90	Jun 7, 1980
INSTANTANEOUS LOW FLOW			(b)4.2	Sep 15	(a)0.00	Aug 11-16, 1971
10 PERCENT EXCEEDS	31		34		48	
50 PERCENT EXCEEDS	18		16		19	
90 PERCENT EXCEEDS	14		13		12	

(a) Flow shut off at flood-control dam upstream due to request by Wisconsin Department of Natural Resources for eradication of rough fish to improve sport fishing
(b) Result of work at dam
(c) Peak discharge and stage prior to construction of flood-control reservoir occurred Apr. 15, 1954, and was 7,000 ft^3/s and 12.50 ft (datum then in use), respectively



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

TREMPEALEAU-BLACK RIVER BASIN

441459091392800 EAGLE CREEK RAIN GAGE E3-1006 NEAR FOUNTAIN CITY, WI

LOCATION.--Lat44°14'59", long 91°39'28", in NE ¼ SE ¼ sec.36, T.21 N., R.11 W., Buffalo County, Hydrologic Unit 07040003, on Eagle Valley Road, 3.0 mi west of junction with Glencoe-Waumandee Road, near Fountain City.

PERIOD OF RECORD.-October 1990 to June 1996, October 2002 to current year (non-frozen precipitation).

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Rainfall estimated to be 0.00 for Mar. 22 because recorded precipitation interpreted as collector snowmelt. Rainfall data missing for periods Oct. 7 to Mar. 21.

EXTREMES FOR PERIOD OF RECORD.-- Maximum daily rainfall, 6.71 in., Aug. 13, 1995.

EXTREMES FOR CURRENT YEAR.-- Maximum daily rainfall, 1.99 in., Sept. 25.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.24	---	---	---	---	---	0.01	0.01	0.00	0.00	0.00	0.01
2	0.00	---	---	---	---	---	0.01	0.00	0.00	0.00	0.00	0.00
3	0.00	---	---	---	---	---	0.00	0.00	0.00	0.17	0.00	0.18
4	0.00	---	---	---	---	---	0.00	0.00	0.54	0.00	0.00	0.01
5	0.00	---	---	---	---	---	0.00	0.00	0.11	0.00	0.00	0.00
6	0.00	---	---	---	---	---	0.01	0.03	0.00	0.00	0.00	0.03
7	---	---	---	---	---	---	0.00	0.00	0.62	0.00	0.00	0.06
8	---	---	---	---	---	---	0.00	0.01	0.97	0.28	0.00	0.17
9	---	---	---	---	---	---	0.00	0.02	0.00	0.00	0.67	0.00
10	---	---	---	---	---	---	0.02	0.06	0.11	0.00	0.01	0.00
11	---	---	---	---	---	---	0.01	0.04	0.93	0.00	0.49	0.00
12	---	---	---	---	---	---	0.25	1.37	0.00	0.00	0.01	0.06
13	---	---	---	---	---	---	0.00	0.10	0.23	0.00	0.00	0.67
14	---	---	---	---	---	---	0.00	0.11	0.14	0.00	0.00	0.01
15	---	---	---	---	---	---	0.00	0.01	0.01	0.00	0.00	0.00
16	---	---	---	---	---	---	0.61	0.04	0.00	0.00	0.00	0.00
17	---	---	---	---	---	---	0.00	0.14	0.00	0.59	0.00	0.00
18	---	---	---	---	---	---	0.00	0.87	0.00	0.24	0.61	0.00
19	---	---	---	---	---	---	0.89	0.06	0.00	0.00	0.03	0.39
20	---	---	---	---	---	---	0.00	0.00	0.09	0.32	0.11	0.00
21	---	---	---	---	---	---	0.00	0.01	0.01	0.25	0.00	0.08
22	---	---	---	---	---	e0.00	0.02	0.00	0.00	0.00	0.00	0.24
23	---	---	---	---	---	0.00	0.00	0.00	0.00	0.02	0.00	0.00
24	---	---	---	---	---	0.00	0.00	0.00	0.02	0.00	0.00	0.39
25	---	---	---	---	---	0.00	0.07	0.13	0.00	1.89	0.00	1.99
26	---	---	---	---	---	0.00	0.08	0.02	0.05	0.02	1.12	0.01
27	---	---	---	---	---	0.00	0.07	0.41	0.00	0.00	0.01	0.00
28	---	---	---	---	---	0.00	0.00	0.09	0.00	0.00	0.00	0.43
29	---	---	---	---	---	0.00	0.00	0.01	0.02	0.00	0.00	0.00
30	---	---	---	---	---	0.21	0.00	0.00	0.00	0.00	0.00	0.00
31	---	---	---	---	---	0.02	---	0.00	---	0.00	0.02	---
TOTAL	---	---	---	---	---	---	2.05	3.54	3.85	3.78	3.08	4.73

e Estimated

441356091405500 EAGLE CREEK RAIN GAGE E2-1005 NEAR FOUNTAIN CITY, WI

LOCATION.--Lat44°13'56", long 91°40'55", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.3, T.20 N., R.11 W., Buffalo County, Hydrologic Unit 07040003, on Schaffner Valley Road, 1.7 mi north of junction with CTH G, near Fountain City.

PERIOD OF RECORD.-October 1990 to June 1996, October 2002 to current year (non-frozen precipitation).

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Rainfall estimated to be 0.00 for Nov. 28, Dec. 30, Jan. 19, 24-26, Feb. 5, 11, 14, 22, 24, 25, 27, Mar. 4, 10, 11, and 20-22 because recorded precipitation interpreted as collector snowmelt. Rainfall data missing for May 6.

EXTREMES FOR PERIOD OF RECORD.-- Maximum daily rainfall, 5.46 in., Aug. 13, 1995.

EXTREMES FOR CURRENT YEAR.-- Maximum daily rainfall, 1.78 in., Sept. 25.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.12	0.08	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
2	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.18
4	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.44	0.00	0.00	0.01
5	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00
6	0.00	0.00	0.09	0.00	0.09	0.00	0.00	---	0.01	0.00	0.00	0.03
7	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.05
8	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.81	0.13	0.00	0.17
9	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.68	0.00
10	0.00	0.01	0.08	0.00	0.00	e0.00	0.01	0.03	0.13	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	e0.00	e0.00	0.03	0.01	0.74	0.00	0.37	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.26	1.19	0.00	0.00	0.01	0.06
13	0.28	0.00	0.00	0.00	0.20	0.00	0.01	0.08	0.30	0.00	0.00	0.60
14	0.10	0.00	0.00	0.00	e0.00	0.00	0.00	0.15	0.11	0.00	0.00	0.00
15	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00
16	0.02	0.00	0.00	0.00	0.00	0.00	0.56	0.03	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.75	0.00	0.00
18	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.22	0.56	0.00
19	0.02	0.80	0.00	e0.00	0.00	0.00	0.89	0.04	0.00	0.00	0.02	0.37
20	0.00	0.04	0.00	0.00	0.00	e0.00	0.00	0.00	0.11	0.25	0.15	0.00
21	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.03	0.00	0.25	0.00	0.05
22	0.06	0.00	0.00	0.00	e0.00	e0.00	0.02	0.00	0.00	0.00	0.00	0.16
23	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
24	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.37
25	0.00	0.00	0.00	e0.00	e0.00	0.00	0.08	0.13	0.00	1.72	0.00	1.78
26	0.16	0.26	0.00	e0.00	0.00	0.00	0.09	0.01	0.08	0.01	1.03	0.00
27	0.06	0.44	0.00	0.00	e0.00	0.00	0.03	0.48	0.00	0.00	0.01	0.00
28	0.21	e0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.41
29	0.71	0.00	0.00	0.00	---	0.00	0.00	0.01	0.03	0.00	0.01	0.00
30	0.10	0.00	e0.00	0.00	---	0.31	0.01	0.01	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.04	---	0.00	---	0.00	0.01	---
TOTAL	3.09	1.70	0.42	0.00	0.29	0.35	1.99	---	3.39	3.56	2.85	4.25

CAL YR 2004 TOTAL 37.53

e Estimated

441527091365300 JOOS VALLEY CREEK RAIN GAGE J3-1003 NEAR ARCADIA, WI

LOCATION (revised).--Lat44°15'27", long 91°36'53", in NW 1/4 NE 1/4 sec.32, T.21 N., R.10 W., Buffalo County, Hydrologic Unit 07040003, on Pansy Pass, 0.4 mi east of junction with Hannon Road near Arcadia.

PERIOD OF RECORD.-October 1990 to June 1996, October 2002 to current year (non-frozen precipitation).

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Rainfall estimated to be 0.00 for Nov. 28, 30, Dec. 3, 4, 30, Jan. 24, 25, Feb. 11, 14, 25, 26, Mar. 4, and 10 because recorded precipitation interpreted as collector snowmelt. Rainfall data missing for July 25 - Aug. 10.

EXTREMES FOR PERIOD OF RECORD.-- Maximum daily rainfall, 7.53 in., Aug. 13, 1995.

EXTREMES FOR CURRENT YEAR.-- Maximum daily rainfall, 2.15 in., Sept. 25.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.96	0.08	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	---	0.01
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00
3	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	---	0.21
4	0.00	0.00	e0.00	0.00	0.00	e0.00	0.00	0.00	0.36	0.00	---	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	---	0.00
6	0.00	0.00	0.04	0.00	0.12	0.00	0.00	0.01	0.00	0.00	---	0.02
7	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	---	0.06
8	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.88	0.13	---	0.14
9	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.03	0.00	0.00	---	0.01
10	0.00	0.00	0.09	0.00	0.00	e0.00	0.01	0.08	0.00	0.00	---	0.00
11	0.00	0.00	0.00	0.00	e0.00	0.00	0.01	0.02	1.18	0.00	0.57	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.20	1.17	0.00	0.00	0.01	0.04
13	0.23	0.00	0.00	0.00	0.09	0.00	0.00	0.06	0.02	0.00	0.00	0.68
14	0.09	0.00	0.00	0.00	e0.00	0.00	0.00	0.11	0.13	0.00	0.00	0.00
15	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
16	0.02	0.00	0.00	0.00	0.00	0.00	0.49	0.06	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.00	0.45	0.00	0.00
18	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.20	0.30	0.00
19	0.01	0.94	0.00	0.00	0.00	0.00	0.85	0.03	0.00	0.00	0.00	0.41
20	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.45	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.12
22	0.04	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.20
23	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
25	0.00	0.00	0.00	e0.00	e0.00	0.00	0.06	0.09	0.00	---	0.00	2.15
26	0.40	0.22	0.00	0.00	e0.00	0.00	0.11	0.00	0.04	---	0.00	0.01
27	0.08	0.10	0.00	0.00	0.00	0.00	0.04	0.35	0.00	---	0.00	0.00
28	0.27	e0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	---	0.00	0.45
29	0.84	0.00	0.00	0.00	---	0.00	0.00	0.00	0.02	---	0.00	0.00
30	0.08	e0.00	e0.00	0.00	---	0.13	0.00	0.00	0.00	---	0.00	0.00
31	0.00	---	0.00	0.00	---	0.01	---	0.00	---	---	0.00	---
TOTAL	3.18	1.43	0.34	0.00	0.21	0.14	1.82	2.81	3.57	---	---	4.74

CAL YR 2004 TOTAL 39.23

e Estimated

441402091375900 JOOS VALLEY CREEK RAIN GAGE J2-1002 NEAR FOUNTAIN CITY, WI

LOCATION.--Lat 44°14'02", long 91°37'59", in NE $^1/_4$ SE $^1/_4$ sec.1, T.20 N., R.11 W., Buffalo County, Hydrologic Unit 07040003, on Slaby Farm entrance road, just off Joos Valley road, and approximately 3.1 mi northeast of the junction of Joos Valley Road and CTH G, near Fountain City.

PERIOD OF RECORD.-October 1990 to June 1996, October 2002 to current year (non-frozen precipitation).

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Rainfall estimated to be 0.00 for Nov. 28, Dec. 2-4, 26, 28, 30, 31, Jan. 1, 2, 6, 12, 18, 22, 24-26, Feb. 11, 14, 20-22, 24, 25, 27, Mar. 10, and 19-20 because recorded precipitation interpreted as collector snowmelt. Rainfall data missing July 25 to Sept. 30. Prior to October 1992, precipitation data published under number 441402091395900.

EXTREMES FOR PERIOD OF RECORD.-- Maximum daily rainfall, 6.36 in., Aug. 13, 1995.

EXTREMES FOR CURRENT YEAR.-- Maximum daily rainfall, 1.31 in., June 11.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.94	0.13	0.00	e0.00	0.00	0.00	0.02	0.01	0.00	0.00	---	---
2	0.01	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---
3	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	---	---
4	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	---	---
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	---	---
6	0.00	0.00	0.05	e0.00	0.16	0.00	0.00	0.02	0.00	0.00	---	---
7	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	---	---
8	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.86	0.03	---	---
9	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.04	0.00	0.00	---	---
10	0.00	0.00	0.11	0.00	0.00	e0.00	0.01	0.03	0.18	0.00	---	---
11	0.00	0.00	0.00	0.00	e0.00	0.00	0.03	0.03	1.31	0.00	---	---
12	0.00	0.00	0.00	e0.00	0.00	0.00	0.24	1.26	0.00	0.00	---	---
13	0.30	0.00	0.00	0.00	0.18	0.00	0.00	0.08	0.05	0.00	---	---
14	0.10	0.00	0.00	0.00	e0.00	0.00	0.00	0.14	0.10	0.00	---	---
15	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	---	---
16	0.01	0.01	0.00	0.00	0.00	0.00	0.54	0.04	0.00	0.00	---	---
17	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.37	---	---
18	0.00	0.06	0.00	e0.00	0.00	0.00	0.00	0.92	0.00	0.24	---	---
19	0.01	0.95	0.00	0.03	0.00	e0.00	1.03	0.05	0.00	0.00	---	---
20	0.00	0.03	0.00	0.00	e0.00	e0.00	0.00	0.00	0.10	0.42	---	---
21	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.01	0.00	0.25	---	---
22	0.07	0.00	0.00	e0.00	e0.00	0.00	0.02	0.00	0.00	0.00	---	---
23	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	---	---
24	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	---	---
25	0.00	0.00	0.00	e0.00	e0.00	0.00	0.07	0.13	0.00	---	---	---
26	0.40	0.25	e0.00	e0.00	0.00	0.00	0.08	0.01	0.03	---	---	---
27	0.06	0.45	0.00	0.00	e0.00	0.00	0.08	0.49	0.00	---	---	---
28	0.37	e0.00	e0.00	0.00	0.00	0.00	0.00	0.09	0.00	---	---	---
29	0.87	0.00	0.00	0.00	---	0.00	0.00	0.01	0.04	---	---	---
30	0.09	0.00	e0.00	0.00	---	0.12	0.01	0.00	0.00	---	---	---
31	0.00	---	e0.00	0.00	---	0.03	---	0.00	---	---	---	---
TOTAL	3.50	1.88	0.46	0.03	0.34	0.15	2.13	3.54	3.70	---	---	---

CAL YR 2004 TOTAL 40.65

e Estimated

05378183 JOOS VALLEY CREEK NEAR FOUNTAIN CITY, WI

LOCATION.--Lat 44°12'53", long 91°39'54" in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.14, T.20 N., R.11 W., Buffalo County, Hydrologic Unit 07040003, on left bank at bridge on private road, 6.3 mi northeast of Fountain City.

DRAINAGE AREA.--5.89 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1990 to July 1996, October 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 810 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except those for Mar. 29 to May 19, which are poor (see Introduction). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	3.7	3.3	3.0	3.0	2.3	7.3	4.6	3.8	3.2	2.6	2.1
2	3.7	3.8	3.3	3.3	3.2	2.2	6.7	4.4	3.7	3.2	2.6	2.1
3	3.6	3.6	3.3	2.9	3.3	2.3	6.6	4.6	3.6	3.4	2.5	2.1
4	3.1	3.6	3.6	2.9	4.3	3.5	6.5	4.4	4.0	3.5	2.1	2.5
5	3.2	3.5	3.3	2.7	22	5.8	6.4	4.3	4.0	3.3	2.2	2.4
6	3.3	3.6	3.5	3.0	49	37	6.3	4.3	3.8	3.1	2.2	2.3
7	3.3	3.1	3.6	2.8	5.1	9.7	6.2	3.9	4.3	3.0	2.3	2.0
8	3.5	3.0	3.6	3.1	3.5	3.6	5.9	4.2	5.6	3.0	2.3	2.4
9	3.1	3.3	3.8	3.3	3.3	3.0	5.7	4.3	4.2	3.1	2.8	2.6
10	2.8	3.4	4.5	2.9	3.2	3.9	5.8	3.9	4.0	2.9	2.7	2.5
11	2.8	2.8	3.9	3.1	3.6	3.5	5.6	3.7	9.9	2.7	2.6	2.1
12	2.9	2.7	3.9	3.5	6.6	2.8	5.9	5.0	5.3	2.8	3.3	2.2
13	3.1	2.8	3.3	2.5	7.2	2.7	5.3	6.1	4.9	2.8	2.5	3.1
14	3.5	2.9	3.2	2.4	6.4	2.8	4.9	5.0	4.7	2.7	2.3	2.5
15	3.3	3.3	3.6	2.2	4.0	3.1	4.7	4.6	4.4	2.7	2.2	2.1
16	3.2	3.5	3.6	2.2	2.7	3.6	5.2	4.1	4.2	2.7	2.2	2.1
17	3.0	3.5	3.3	2.2	2.5	3.4	5.8	4.6	4.0	2.6	2.2	2.2
18	3.1	3.4	3.3	2.8	2.5	3.0	5.4	5.5	3.9	3.1	3.0	2.3
19	2.9	4.4	2.7	3.1	2.5	3.4	7.7	6.5	3.7	2.8	2.9	2.6
20	3.0	4.6	3.3	2.9	3.0	3.1	5.9	5.0	3.7	3.1	3.3	2.2
21	2.8	3.6	3.1	3.0	2.6	3.0	5.8	4.7	3.8	3.1	2.4	2.2
22	3.2	3.6	2.7	3.0	2.3	3.0	5.8	4.6	3.5	2.8	2.3	2.3
23	3.4	3.5	2.6	2.5	2.4	3.7	5.4	4.4	3.6	2.8	2.3	1.8
24	2.9	3.3	2.7	3.1	2.5	5.5	5.3	4.1	3.5	3.1	2.3	2.2
25	2.7	3.2	3.5	3.1	2.8	8.2	5.5	3.9	3.5	5.9	2.4	8.1
26	2.9	3.6	3.0	2.6	2.5	14	5.6	4.0	3.5	4.4	3.6	3.9
27	3.5	4.5	3.3	2.2	2.8	33	5.3	3.9	3.6	3.3	3.0	3.3
28	3.8	3.8	3.5	2.7	2.6	50	4.9	4.4	3.2	3.2	2.3	3.6
29	5.7	3.5	3.4	3.2	---	40	4.9	4.2	3.3	2.8	2.3	3.3
30	6.4	3.3	4.7	3.1	---	25	4.6	3.9	3.2	2.8	2.2	3.5
31	3.9	---	3.7	3.1	---	12	---	3.8	---	2.7	2.2	---
TOTAL	105.9	104.4	106.1	88.4	161.4	302.1	172.9	138.9	124.4	96.6	78.1	80.6
MEAN	3.42	3.48	3.42	2.85	5.76	9.75	5.76	4.48	4.15	3.12	2.52	2.69
MAX	6.4	4.6	4.7	3.5	49	50	7.7	6.5	9.9	5.9	3.6	8.1
MIN	2.7	2.7	2.6	2.2	2.3	2.2	4.6	3.7	3.2	2.6	2.1	1.8
CFSM	0.58	0.59	0.58	0.48	0.98	1.65	0.98	0.76	0.70	0.53	0.43	0.46
IN.	0.67	0.66	0.67	0.56	1.02	1.91	1.09	0.88	0.79	0.61	0.49	0.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY)

MEAN	3.51	3.88	3.28	2.93	3.71	6.71	5.23	4.87	4.70	3.75	4.34	3.89
MAX	5.01	6.24	4.65	4.15	6.85	9.75	10.0	7.26	9.73	7.99	7.06	5.89
(WY)	(1994)	(1992)	(1994)	(1994)	(1994)	(2005)	(1993)	(1993)	(2004)	(1993)	(1993)	(1993)
MIN	2.40	2.09	1.92	1.89	2.05	3.66	2.86	2.95	2.88	2.66	2.52	2.49
(WY)	(1991)	(1991)	(1991)	(1991)	(1991)	(1991)	(2004)	(1996)	(1995)	(1990)	(2005)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1990 - 2005	
ANNUAL TOTAL	1,601.4		1,559.8			
ANNUAL MEAN	4.38		4.27		4.31	
HIGHEST ANNUAL MEAN					5.81	1993
LOWEST ANNUAL MEAN					3.03	1991
HIGHEST DAILY MEAN	81	Jun 9	50	Mar 28	90	Aug 14, 1995
LOWEST DAILY MEAN	1.5	May 7	1.8	Sep 23	1.5	Dec 27, 1990
ANNUAL SEVEN-DAY MINIMUM	1.8	May 1	2.2	Aug 28	1.6	Dec 22, 1990
MAXIMUM PEAK FLOW			194	Mar 28	(a)1,480	Aug 14, 1995
MAXIMUM PEAK STAGE			7.14	Mar 28	12.14	Aug 14, 1995
INSTANTANEOUS LOW FLOW			1.1	Mar 2, 3	(b)0.42	Dec 19, 2003
ANNUAL RUNOFF (CFSM)	0.743		0.726		0.731	
ANNUAL RUNOFF (INCHES)	10.11		9.85		9.94	
10 PERCENT EXCEEDS	6.5		5.7		6.0	
50 PERCENT EXCEEDS	3.4		3.3		3.5	
90 PERCENT EXCEEDS	2.1		2.3		2.3	

05378183 JOOS VALLEY CREEK NEAR FOUNTAIN CITY, WI—Continued

(a) From rating curve extended above 86 ft^3/s on basis of step-backwater method
(b) Result of freezeup

05378183 JOOS VALLEY CREEK NEAR FOUNTAIN CITY, WI—Continued

PRECIPITATION QUANTITY

PERIOD OF RECORD.-October 1990 to June 1996, October 2002 to current year (non-frozen precipitation).

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Rainfall estimated to be 0.00 for Nov. 28-30, Dec. 2, 28, 30, Jan. 12, 18, 19, 24-26, Feb. 5, 7, 11, 14, 20, 23-25, 27, Mar. 10, 11, 13 and 19 because recorded precipitation interpreted as collector snowmelt.

EXTREMES FOR PERIOD OF RECORD.-- Maximum daily rainfall, 4.26 in., Aug. 13, 1995.

EXTREMES FOR CURRENT YEAR.-- Maximum daily rainfall, 2.89 in., July 25.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.94	0.14	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.02
2	0.01	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.17
4	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.01	0.00	0.01
5	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
6	0.00	0.00	0.09	0.00	0.15	0.00	0.00	0.03	0.01	0.00	0.00	0.02
7	0.03	0.00	0.01	0.00	e0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.06
8	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.80	0.00	0.00	0.17
9	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.87	0.00
10	0.00	0.00	0.12	0.00	0.00	e0.00	0.01	0.02	0.15	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	e0.00	e0.00	0.02	0.02	1.37	0.00	0.49	0.00
12	0.00	0.00	0.00	e0.00	0.00	0.00	0.27	1.33	0.00	0.00	0.00	0.06
13	0.32	0.01	0.00	0.00	0.21	e0.00	0.00	0.09	0.28	0.01	0.00	0.85
14	0.15	0.00	0.00	0.00	e0.00	0.00	0.00	0.18	0.11	0.00	0.00	0.01
15	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
16	0.03	0.00	0.00	0.00	0.00	0.00	0.64	0.03	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.35	0.00	0.00
18	0.00	0.06	0.00	e0.00	0.00	0.00	0.00	0.99	0.00	0.25	0.95	0.00
19	0.02	1.01	0.00	e0.00	0.00	e0.00	1.08	0.02	0.00	0.00	0.08	0.44
20	0.00	0.04	0.00	0.00	e0.00	0.00	0.00	0.00	0.17	0.43	0.84	0.01
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.26	0.01	0.00
22	0.07	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.01	0.00	0.16
23	0.02	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.01
24	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29
25	0.00	0.00	0.00	e0.00	e0.00	0.00	0.07	0.14	0.00	2.89	0.00	2.25
26	0.35	0.25	0.00	e0.00	0.00	0.00	0.11	0.01	0.05	0.02	1.08	0.00
27	0.07	0.54	0.00	0.00	e0.00	0.00	0.03	0.40	0.00	0.00	0.01	0.00
28	0.40	e0.00	e0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.01	0.46
29	0.83	e0.00	0.00	0.00	---	0.00	0.00	0.01	0.01	0.00	0.00	0.00
30	0.19	e0.00	e0.00	0.00	---	0.20	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.03	---	0.00	---	0.00	0.02	---
TOTAL	3.64	2.06	0.54	0.00	0.36	0.23	2.27	3.78	4.08	4.41	4.36	4.99

CAL YR 2004 TOTAL 35.41
WTR YR 2005 TOTAL 30.72

e Estimated

05378183 JOOS VALLEY CREEK NEAR FOUNTAIN CITY, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1990 to June 1996, October 2002 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July 1990 to June 1996, October 2002 to current year.
SUSPENDED-SOLIDS DISCHARGE: July 1990 to June 1996, October 2002 to current year.
TOTAL-PHOSPHORUS DISCHARGE: July 1990 to June 1996, October 2002 to current year.
DISSOLVED OXYGEN: July 1990 to September 1992.

INSTRUMENTATION.--Water-quality sampler July 1990 to June 1996 and October 2002 to current year; continuous water-temperature recorder July 1990 to June 1996 and October 2002 to current year; dissolved-oxygen recorder July 1990 to September 1992.

REMARKS.--Records represent water temperature at sensor within 0.5°C. Chemical analyses by the Wisconsin State Laboratory of Hygiene. Samples are point samples unless otherwise indicated.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum observed, 31.0°C, June 27-28, 1991 and July 13, 1995; minimum observed, 0.0°C on many days during 1991, 1992, 1993, 1995, 1996, 2003, and 2004 winter periods.
SUSPENDED-SOLIDS DISCHARGE; Maximum daily, 4,570 tons, Aug. 14, 1995; minimum daily, 0.02 ton, many days during 2004 and 2005 water years.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 7,350 lb, Aug. 14, 1995; minimum daily, 0.22 lb, Nov. 9, 1990, Jan. 5-6, 2004.
DISSOLVED OXYGEN: Maximum observed, 15.8 mg/L, Apr. 26, 1991; minimum observed, 4.3 mg/L, June 28, 1991.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum observed, 25.5°C, June 17; minimum observed, 0.0°C on many days.
SUSPENDED-SOLIDS DISCHARGE: Maximum daily, 195, Mar. 28; minimum daily, 0.02 ton, many days.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 610 lb, Mar. 28; minimum daily, 0.33 lb, Jan. 17, 27.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.5	10.0	11.5	8.5	7.5	8.0	2.5	0.5	1.5	0.5	0.0	0.5
2	11.0	7.5	9.5	9.0	8.0	8.5	3.0	1.0	2.0	2.5	0.5	1.0
3	12.5	7.5	10.0	8.5	6.0	7.0	3.0	1.0	2.0	1.0	0.0	0.5
4	11.5	8.5	10.0	8.0	6.0	6.5	5.0	2.5	4.0	1.0	0.5	0.5
5	11.0	6.5	8.5	7.5	5.0	6.0	4.5	2.5	3.5	0.5	0.0	0.5
6	13.5	8.0	10.5	9.0	5.5	7.0	4.5	3.0	3.5	0.5	0.0	0.5
7	12.5	10.5	11.5	8.5	5.5	7.5	5.0	4.5	5.0	0.5	0.0	0.5
8	15.5	12.0	13.0	5.5	4.5	5.5	5.5	4.5	5.0	0.5	0.5	0.5
9	13.0	9.5	11.0	7.5	4.5	6.0	5.5	5.0	5.5	1.0	0.5	0.5
10	12.5	8.0	10.5	8.5	7.0	8.0	5.5	5.0	5.0	0.5	0.0	0.5
11	11.5	8.0	9.5	7.0	4.0	5.5	5.0	4.5	4.5	1.0	0.0	0.5
12	10.0	7.5	9.0	5.0	2.5	3.5	4.5	2.0	3.5	2.5	1.0	1.5
13	10.0	7.5	9.0	4.5	1.5	3.0	2.0	0.0	1.0	2.0	0.0	1.0
14	9.0	8.5	9.0	4.5	2.0	3.5	0.5	0.0	0.5	0.0	0.0	0.0
15	8.5	7.5	8.0	7.0	4.0	6.0	1.0	0.5	0.5	0.5	0.0	0.0
16	8.0	6.0	7.0	8.5	7.0	7.5	2.0	1.0	1.5	0.5	0.0	0.0
17	8.0	5.5	7.0	10.5	8.5	9.5	1.5	0.0	1.0	0.5	0.0	0.5
18	9.5	7.0	8.0	9.5	8.5	9.0	3.0	0.0	1.5	0.5	0.0	0.5
19	9.0	8.0	8.5	8.5	7.5	8.0	0.5	0.0	0.5	0.5	0.5	0.5
20	11.5	9.0	10.0	8.0	6.0	7.0	0.5	0.5	0.5	0.5	0.5	0.5
21	10.0	8.5	9.5	6.0	4.0	5.0	0.5	0.0	0.5	0.5	0.0	0.5
22	11.0	9.0	10.0	6.0	4.5	5.5	0.5	0.0	0.0	0.5	0.0	0.5
23	12.5	10.5	11.5	6.0	4.0	5.5	0.5	0.0	0.0	0.5	0.0	0.5
24	12.0	9.0	10.5	4.5	2.5	3.5	0.5	0.0	0.5	0.5	0.5	0.5
25	12.0	9.5	10.5	3.5	1.0	2.5	0.5	0.5	0.5	1.0	0.5	0.5
26	9.5	8.5	8.5	5.0	3.0	4.0	0.5	0.0	0.5	2.0	1.0	1.5
27	9.5	8.0	8.5	5.0	4.0	4.5	0.5	0.5	0.5	1.0	0.0	0.5
28	10.5	9.5	10.0	4.0	2.5	3.5	0.5	0.5	0.5	1.0	0.0	0.5
29	14.0	10.5	12.0	4.0	2.0	3.0	0.5	0.5	0.5	2.0	0.5	1.0
30	13.5	9.5	11.0	2.5	0.5	1.5	1.0	0.5	0.5	3.0	2.0	2.5
31	9.5	8.5	9.0	---	---	---	1.5	0.5	1.0	3.5	3.0	3.0
MONTH	15.5	5.5	9.7	10.5	0.5	5.7	5.5	0.0	1.8	3.5	0.0	0.7

05378183 JOOS VALLEY CREEK NEAR FOUNTAIN CITY, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.0	3.0	3.5	3.0	0.0	1.0	8.5	3.0	6.0	9.0	6.0	7.5
2	4.5	3.0	3.5	2.5	0.0	0.5	11.0	3.5	7.0	7.0	5.0	6.0
3	4.0	2.0	3.0	2.0	0.0	1.0	12.5	5.0	8.5	12.5	3.0	7.5
4	4.5	1.5	2.5	4.5	0.0	2.5	13.5	6.5	9.5	14.5	6.0	10.0
5	4.0	0.5	1.5	5.0	2.0	3.0	13.0	8.5	11.0	16.0	8.5	12.0
6	1.0	0.0	0.5	5.5	0.5	2.0	14.0	9.5	11.5	19.0	11.5	15.0
7	2.5	0.5	1.0	4.0	0.5	2.0	15.0	8.5	11.5	16.0	11.5	13.5
8	2.5	0.5	1.5	4.0	0.0	2.0	14.5	7.0	11.0	18.0	12.5	15.0
9	2.5	1.0	1.5	4.0	0.0	2.0	14.5	8.5	11.5	17.5	14.0	16.0
10	3.0	0.0	1.5	3.0	1.0	2.0	15.5	10.0	13.0	16.0	13.5	14.5
11	4.0	0.0	2.0	4.0	1.0	2.0	13.5	10.5	12.0	14.0	11.0	12.5
12	5.0	1.0	2.5	3.0	0.0	1.0	10.5	8.0	9.5	11.0	7.0	8.5
13	2.5	1.5	2.0	3.0	0.0	1.0	13.5	5.5	9.0	10.0	7.0	8.5
14	3.0	1.0	2.0	4.5	0.0	2.5	14.5	6.5	10.5	11.5	8.5	10.0
15	4.0	1.5	2.5	5.5	1.5	3.0	15.0	8.0	11.5	12.5	8.5	10.5
16	3.0	0.5	1.5	7.0	2.0	4.0	11.5	9.5	10.5	14.0	8.0	11.5
17	2.0	0.0	0.5	6.0	1.0	3.5	16.0	8.5	12.0	13.5	10.5	12.0
18	1.0	0.0	0.5	3.5	0.0	1.0	18.0	11.0	14.0	13.5	11.0	12.5
19	1.5	0.0	0.5	0.5	0.0	0.5	14.5	11.0	12.5	15.5	11.5	13.0
20	1.5	0.0	0.5	4.0	0.0	2.0	12.0	10.5	11.0	16.0	12.0	13.5
21	3.5	1.0	2.0	6.5	0.5	3.5	14.5	8.0	11.0	14.5	11.0	12.5
22	3.0	0.0	1.5	6.0	1.5	4.0	13.5	8.5	10.5	17.5	11.5	14.5
23	3.5	0.0	1.5	8.5	3.0	5.5	12.5	6.0	9.0	17.5	12.0	14.5
24	3.5	0.0	1.5	7.0	3.0	5.0	13.5	5.5	9.5	19.5	11.5	15.5
25	5.0	2.0	3.0	6.5	2.5	4.0	10.0	7.5	8.5	16.5	13.0	15.0
26	4.5	0.5	2.5	6.0	0.5	2.5	10.5	7.5	8.5	18.0	11.5	14.5
27	2.5	2.0	2.5	5.5	0.5	1.5	8.5	6.5	7.5	15.0	11.5	13.5
28	4.0	1.5	2.5	6.0	0.5	1.5	9.5	4.5	7.0	14.5	11.0	13.0
29	---	---	---	5.0	1.0	2.5	11.0	6.5	8.5	17.5	11.5	14.0
30	---	---	---	7.5	2.0	4.0	9.0	5.5	7.5	18.5	11.5	15.0
31	---	---	---	10.0	3.5	6.5	---	---	---	20.5	12.5	16.5
MONTH	5.0	0.0	1.8	10.0	0.0	2.5	18.0	3.0	10.0	20.5	3.0	12.5
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.5	14.5	16.5	21.0	16.0	18.0	23.5	17.0	20.5	19.5	14.5	16.5
2	21.5	13.5	17.5	21.0	14.0	17.5	24.0	18.0	21.0	18.5	12.5	15.5
3	19.0	15.0	17.0	18.0	15.5	16.5	22.0	19.0	20.5	17.5	12.0	14.5
4	17.5	15.0	16.0	19.5	15.0	17.0	23.0	18.0	20.0	18.0	14.0	15.5
5	20.5	14.5	17.5	19.5	15.0	17.5	22.0	15.5	18.5	20.5	14.5	17.0
6	22.0	15.0	18.5	20.0	15.0	17.5	21.5	14.5	18.0	21.0	16.0	18.5
7	21.5	16.5	19.0	21.5	14.5	18.0	22.5	15.0	18.5	18.0	14.0	16.5
8	19.0	16.5	17.5	20.0	16.0	18.0	21.0	16.5	18.5	16.5	12.5	14.0
9	19.5	15.0	17.0	23.0	16.5	19.5	22.0	17.0	19.0	19.5	13.5	16.0
10	21.0	15.5	18.0	24.0	17.5	20.5	22.5	17.0	19.5	20.5	15.5	17.5
11	22.0	16.5	19.0	23.5	17.0	20.5	19.0	16.0	17.0	21.0	16.0	18.5
12	22.0	16.0	18.5	23.0	16.5	20.0	19.0	15.5	17.0	20.0	16.5	18.0
13	19.0	16.0	17.5	24.0	17.5	20.5	19.5	15.5	17.0	19.5	16.0	17.5
14	19.0	15.0	17.0	24.5	18.0	21.0	19.5	13.5	16.5	17.5	13.5	15.5
15	19.0	15.0	16.5	24.0	18.0	21.0	20.0	13.5	16.5	17.0	12.0	14.0
16	20.5	13.0	16.5	24.5	18.5	21.5	20.5	14.5	17.0	16.5	11.5	14.0
17	21.0	13.5	17.0	25.5	19.0	22.0	20.0	15.5	17.5	16.0	12.0	14.0
18	21.5	14.0	17.5	23.0	19.5	21.0	18.5	16.5	17.5	18.5	13.5	15.5
19	22.5	15.0	18.5	23.5	16.5	20.0	20.5	16.0	17.5	18.0	15.0	16.0
20	22.0	15.5	18.5	22.5	17.5	19.5	21.5	17.0	19.0	18.5	13.0	15.5
21	23.0	16.5	19.5	22.0	17.5	19.5	20.0	15.0	17.5	19.0	14.0	16.0
22	23.0	16.5	19.5	23.0	17.0	20.0	17.5	13.5	15.5	17.0	13.5	16.0
23	25.0	17.5	21.0	20.5	18.5	19.0	18.5	12.0	15.0	16.0	10.5	13.0
24	22.0	19.0	20.5	22.5	18.0	20.0	18.0	13.0	15.5	14.0	12.5	13.0
25	21.0	16.5	18.5	20.5	18.0	19.0	18.5	15.5	16.5	15.0	13.5	14.5
26	20.0	17.0	18.5	19.0	16.0	17.5	17.0	16.0	16.5	16.5	13.5	14.5
27	24.0	17.0	20.0	20.0	14.0	17.0	20.0	14.5	17.0	16.0	11.0	13.0
28	22.0	18.5	20.0	21.0	14.0	17.5	20.0	14.5	17.0	13.5	10.5	12.5
29	20.0	17.0	19.0	22.0	16.0	18.5	19.5	14.5	17.0	13.0	8.5	10.5
30	21.5	16.5	19.0	22.0	16.0	18.5	18.5	14.0	16.0	15.0	10.0	12.0
31	---	---	---	24.0	17.5	20.5	19.0	13.0	15.5	---	---	---
MONTH	25.0	13.0	18.2	25.5	14.0	19.2	24.0	12.0	17.6	21.0	8.5	15.2
YEAR	25.5	0.0	9.6									

05378183 JOOS VALLEY CREEK NEAR FOUNTAIN CITY, WI—Continued

SUSPENDED SOLIDS, DRIED AT 105 DEGREES CELSIUS, WATER, UNFILTERED, TONS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.21	0.07	0.04	0.04	0.05	0.02	0.34	0.03	0.09	0.10	0.07	0.03
2	0.12	0.07	0.04	0.05	0.05	0.02	0.26	0.03	0.09	0.10	0.07	0.03
3	0.06	0.07	0.04	0.04	0.05	0.02	0.23	0.03	0.09	0.11	0.06	0.03
4	0.05	0.07	0.04	0.04	0.21	0.11	0.20	0.03	0.10	0.11	0.05	0.03
5	0.05	0.06	0.04	0.04	61	0.49	0.18	0.03	0.10	0.10	0.05	0.03
6	0.05	0.07	0.04	0.04	87	185	0.17	0.03	0.09	0.10	0.05	0.03
7	0.05	0.06	0.04	0.04	0.27	1.6	0.17	0.03	0.11	0.10	0.05	0.03
8	0.06	0.05	0.04	0.05	0.13	0.14	0.17	0.04	0.14	0.10	0.05	0.03
9	0.05	0.06	0.04	0.05	0.12	0.10	0.16	0.05	0.10	0.11	0.05	0.04
10	0.05	0.06	0.05	0.04	0.10	0.12	0.17	0.05	0.10	0.10	0.05	0.03
11	0.05	0.05	0.04	0.05	0.10	0.10	0.16	0.05	11	0.09	0.05	0.03
12	0.05	0.05	0.04	0.05	0.71	0.07	0.17	0.14	0.72	0.10	0.06	0.03
13	0.05	0.04	0.04	0.04	0.91	0.06	0.16	0.25	0.60	0.10	0.04	0.05
14	0.06	0.05	0.04	0.04	0.65	0.06	0.15	0.10	0.53	0.09	0.04	0.04
15	0.06	0.05	0.04	0.03	0.17	0.06	0.14	0.10	0.46	0.10	0.04	0.03
16	0.06	0.05	0.04	0.04	0.04	0.07	0.16	0.10	0.40	0.09	0.04	0.03
17	0.05	0.05	0.04	0.04	0.03	0.06	0.18	0.13	0.35	0.09	0.04	0.03
18	0.05	0.05	0.04	0.04	0.03	0.05	0.17	0.18	0.31	0.11	0.05	0.04
19	0.05	0.22	0.03	0.05	0.03	0.05	0.52	0.31	0.27	0.10	0.04	0.04
20	0.05	0.26	0.04	0.05	0.03	0.04	0.23	0.17	0.25	0.11	0.05	0.04
21	0.05	0.05	0.04	0.05	0.02	0.03	0.16	0.15	0.23	0.11	0.04	0.04
22	0.06	0.05	0.03	0.05	0.02	0.03	0.14	0.15	0.20	0.10	0.03	0.04
23	0.06	0.05	0.03	0.04	0.02	0.05	0.12	0.14	0.18	0.10	0.03	0.03
24	0.05	0.04	0.03	0.05	0.02	0.18	0.10	0.12	0.16	0.11	0.03	0.04
25	0.05	0.04	0.04	0.05	0.02	0.63	0.09	0.11	0.15	3.9	0.03	11
26	0.05	0.05	0.04	0.04	0.02	6.0	0.08	0.11	0.14	0.48	0.05	0.39
27	0.06	0.06	0.04	0.04	0.02	90	0.07	0.11	0.13	0.11	0.04	0.06
28	0.07	0.05	0.05	0.04	0.02	195	0.05	0.12	0.10	0.10	0.03	0.06
29	0.55	0.04	0.05	0.05	---	55	0.05	0.11	0.10	0.08	0.03	0.05
30	0.82	0.04	0.06	0.05	---	14	0.04	0.10	0.10	0.08	0.03	0.05
31	0.15	---	0.05	0.05	---	2.1	---	0.09	---	0.08	0.03	---
TOTAL	3.25	1.98	1.26	1.37	151.84	551.26	4.99	3.19	17.39	7.26	1.37	12.43
MEAN	0.10	0.07	0.04	0.04	5.4	18	0.17	0.10	0.58	0.23	0.04	0.41
MAX	0.82	0.26	0.06	0.05	87	195	0.52	0.31	11	3.9	0.07	11
MIN	0.05	0.04	0.03	0.03	0.02	0.02	0.04	0.03	0.09	0.08	0.03	0.03

CAL YR 2004 TOTAL 2,122.98 MEAN 5.8 MAX 945 MIN 0.02
WTR YR 2005 TOTAL 757.59 MEAN 2.1 MAX 195 MIN 0.02

05378183 JOOS VALLEY CREEK NEAR FOUNTAIN CITY, WI—Continued

PHOSPHORUS, WATER, UNFILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	0.95	0.65	0.50	0.44	0.53	2.7	0.55	0.95	1.1	0.91	0.46
2	1.6	0.94	0.65	0.55	0.47	0.49	2.0	0.49	0.94	1.0	0.91	0.48
3	0.83	0.85	0.65	0.48	0.48	0.52	1.9	0.48	0.91	1.1	0.89	0.50
4	0.71	0.83	0.70	0.47	0.63	0.85	1.9	0.49	1.0	1.1	0.75	0.58
5	0.74	0.80	0.65	0.44	252	2.9	1.8	0.52	1.0	1.0	0.76	0.57
6	0.76	0.81	0.69	0.49	538	521	1.8	0.56	0.93	0.96	0.77	0.55
7	0.76	0.70	0.71	0.46	19	68	1.7	0.55	1.1	0.93	0.82	0.48
8	0.84	0.67	0.69	0.50	8.6	10	1.7	0.64	1.4	0.91	0.82	0.58
9	0.76	0.73	0.74	0.52	7.0	6.8	1.6	0.71	1.0	0.92	0.98	0.63
10	0.73	0.75	0.86	0.46	5.7	7.3	1.6	0.69	0.97	0.83	0.96	0.58
11	0.75	0.60	0.75	0.49	5.3	5.5	1.6	0.71	30	0.78	0.89	0.50
12	0.80	0.58	0.73	0.54	23	3.7	1.7	2.0	3.3	0.78	1.1	0.51
13	0.88	0.58	0.63	0.40	27	3.0	1.5	3.3	2.7	0.78	0.77	0.73
14	1.0	0.60	0.59	0.37	22	2.6	1.4	2.0	2.6	0.74	0.67	0.57
15	1.0	0.69	0.66	0.34	9.7	2.4	1.4	1.6	2.5	0.74	0.64	0.49
16	1.0	0.72	0.66	0.34	1.7	2.4	1.5	1.2	2.3	0.73	0.61	0.48
17	0.97	0.70	0.60	0.33	1.3	1.9	1.7	1.6	2.1	0.71	0.57	0.51
18	1.0	0.68	0.60	0.42	1.1	1.5	1.6	2.5	2.0	0.85	0.75	0.51
19	1.0	2.6	0.48	0.46	0.97	1.4	5.7	3.8	1.8	0.75	0.69	0.59
20	1.1	2.8	0.60	0.44	0.98	1.0	3.0	2.0	1.8	0.84	0.75	0.49
21	1.0	0.71	0.56	0.45	0.71	0.85	1.6	1.7	1.7	0.83	0.53	0.50
22	1.1	0.72	0.47	0.45	0.55	0.75	1.4	1.5	1.6	0.76	0.48	0.54
23	1.2	0.69	0.46	0.37	0.55	0.88	1.2	1.4	1.5	0.74	0.47	0.42
24	0.95	0.65	0.47	0.46	0.59	2.5	1.1	1.3	1.4	0.83	0.46	0.51
25	0.86	0.64	0.61	0.46	0.65	6.7	1.1	1.2	1.4	16	0.47	12
26	0.89	0.71	0.52	0.39	0.56	32	1.0	1.2	1.4	3.6	0.73	1.9
27	1.1	0.89	0.58	0.33	0.63	306	0.88	1.1	1.3	1.2	0.61	0.73
28	1.1	0.75	0.60	0.40	0.60	610	0.74	1.2	1.1	1.1	0.47	0.80
29	4.9	0.68	0.58	0.47	---	238	0.69	1.1	1.1	0.99	0.48	0.68
30	6.5	0.65	0.80	0.45	---	77	0.60	1.0	1.1	0.99	0.47	0.71
31	1.9	---	0.62	0.45	---	17	---	0.97	---	0.96	0.49	---
TOTAL	41.13	25.67	19.56	13.68	930.21	1,935.47	50.11	40.06	74.90	45.55	21.67	29.58
MEAN	1.3	0.86	0.63	0.44	33	62	1.7	1.3	2.5	1.5	0.70	0.99
MAX	6.5	2.8	0.86	0.55	538	610	5.7	3.8	30	16	1.1	12
MIN	0.71	0.58	0.46	0.33	0.44	0.49	0.60	0.48	0.91	0.71	0.46	0.42

CAL YR 2004 TOTAL 6,912.77 MEAN 19 MAX 2,020 MIN 0.22
WTR YR 2005 TOTAL 3,227.59 MEAN 8.8 MAX 610 MIN 0.33

05378183 JOOS VALLEY CREEK NEAR FOUNTAIN CITY, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT							
07...	1028	3.1	10	51	<.015	.020	.043
21...	1004	2.6	10	61	.023	.021	.068
NOV							
04...	1102	3.7	10	7	.021	.026	.043
18...	1006	3.4	10	45	.017	.021	.037
DEC							
07...	1102	3.7	10	4	<.015	.014	.036
JAN							
18...	1036	2.7	10	6	.015	.015	.028
FEB							
05...	1600	18	50	622	1.53	--	1.47
05...	1635	59	50	3,340	.638	--	2.90
06...	0420	77	50	954	1.96	1.11	2.11
06...	0500	98	50	1,690	1.84	.982	2.53
06...	1630	38	50	260	1.86	--	1.75
07...	1138	4.3	10	16	.861	.541	.544
22...	1143	2.6	10	3	.028	.029	.043
MAR							
06...	1410	31	50	770	.694	--	1.36
06...	1450	67	50	1,700	.618	--	1.97
06...	1540	141	50	3,560	2.42	--	3.98
06...	1605	167	50	3,240	3.21	--	3.78
06...	1810	121	50	1,950	2.20	--	3.02
06...	2150	31	50	348	2.00	--	1.96
08...	1012	3.5	10	14	.676	.421	.498
22...	1122	3.1	10	4	.045	.019	.045
26...	1645	29	50	444	.504	--	.817
27...	1440	44	50	548	1.16	--	1.12
27...	1555	107	50	2,540	.956	--	2.59
28...	0010	22	50	147	3.16	--	1.53
28...	1325	45	50	430	2.16	--	1.37
28...	1410	114	50	1,650	1.48	--	2.22
28...	1455	167	50	2,580	2.75	.889	3.13
28...	1555	194	50	2,570	2.60	.862	3.16
28...	1715	146	50	1,750	2.75	--	2.86
29...	0010	24	50	184	2.12	--	1.41
29...	1125	21	50	100	.822	.598	.817
29...	1126	21	10	156	1.29	.630	1.69
29...	1245	81	50	818	1.26	--	1.32
29...	1930	51	50	518	1.14	--	1.20
30...	1335	33	50	233	.443	--	.554
30...	1655	45	50	392	.520	--	.810
APR							
05...	1008	6.4	10	10	.040	.030	.052
20...	1106	5.6	10	12	.040	.025	.054
MAY							
03...	1022	4.8	10	2	.016	.010	.019
19...	1312	5.8	10	13	.028	.028	.067
31...	0912	3.7	10	9	.027	.023	.047
JUN							
11...	1450	13	50	462	.073	--	.450
11...	1520	28	50	1,370	.226	--	1.94
15...	1034	4.3	10	39	.052	.047	.105
29...	1228	3.4	10	11	<.015	.041	.064
JUL							
13...	1106	3.1	10	13	<.015	.033	.051
25...	1955	15	50	744	.123	--	1.32
27...	1038	3.4	10	12	.027	.046	.065
AUG							
10...	1318	2.8	10	7	.018	.039	.065
24...	1058	2.3	10	5	.016	.022	.036
SEP							
06...	1202	2.3	10	5	.026	.029	.045
21...	1322	2.3	10	6	<.015	.027	.041

05378185 EAGLE CREEK AT COUNTY HIGHWAY G NEAR FOUNTAIN CITY, WI

LOCATION.--Lat 44°12'34", long 91°40'42" in SW ¼ NE ¼ sec.15, T.20 N., R.11 W., Buffalo County, Hydrologic Unit 07040003, on right bank at CTH "G" and 5.7 mi north of Fountain City.

DRAINAGE AREA.--14.3 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1990 to July 1996, October 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 770 ft above NGVD of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	9.0	7.8	6.8	6.0	5.8	14	e9.2	8.3	6.9	6.4	6.2
2	8.4	8.9	7.7	6.9	6.3	e5.6	13	e9.1	8.1	6.9	6.3	6.0
3	7.6	8.7	7.6	6.4	6.8	e5.8	13	9.0	8.0	7.3	6.3	6.0
4	7.1	8.4	7.7	6.3	8.4	7.2	13	8.8	8.8	7.5	6.1	6.5
5	6.9	8.2	7.7	6.1	41	11	13	8.5	8.8	7.1	5.9	6.2
6	6.8	8.1	7.7	e6.1	89	69	12	8.5	8.2	7.0	5.9	6.1
7	6.9	7.8	8.1	e6.1	11	16	12	8.1	9.3	6.8	5.9	6.1
8	7.1	7.6	8.0	6.2	7.6	7.2	e12	8.5	13	7.0	5.9	6.5
9	7.0	7.6	8.3	6.2	7.1	6.1	e11	8.4	10	6.9	6.7	6.4
10	6.8	7.6	9.7	6.1	7.0	6.7	e11	8.2	9.2	6.6	7.2	6.1
11	6.8	7.3	8.9	6.0	7.5	6.3	e11	8.0	18	6.5	7.0	5.8
12	6.8	7.1	8.6	6.2	12	5.7	12	10	12	6.4	7.4	5.9
13	6.9	7.0	7.9	e5.0	14	e5.4	11	13	11	6.3	6.6	7.3
14	7.8	7.0	7.7	e4.6	13	5.6	10	10	11	6.3	6.2	6.9
15	7.6	7.4	8.0	e4.2	9.0	5.9	10	10	10	6.2	6.1	6.2
16	7.7	7.5	8.0	e4.2	7.2	6.7	11	9.2	9.3	6.2	6.0	6.1
17	7.2	7.3	7.7	e4.2	6.6	e5.9	12	9.8	8.9	6.0	6.0	6.2
18	7.1	7.3	7.5	e5.2	e6.0	e5.3	11	11	8.5	7.9	7.4	6.3
19	e7.1	9.2	e6.5	5.7	6.5	6.8	15	14	8.2	6.5	7.2	7.3
20	e7.2	10	6.7	5.5	6.9	6.4	14	11	8.1	7.2	7.9	6.6
21	e7.1	8.8	6.8	5.6	6.5	6.3	12	10	8.1	7.4	6.5	6.2
22	7.1	8.6	e6.0	5.7	6.4	6.5	11	9.8	7.8	6.8	6.3	6.4
23	7.3	8.4	e5.8	e4.8	6.3	7.4	11	9.4	7.7	6.7	6.2	6.0
24	7.1	8.0	e5.8	e5.7	6.2	11	10	9.2	7.6	6.7	6.2	6.3
25	6.9	7.7	e6.0	6.1	6.1	15	e10	9.1	7.8	11	6.1	17
26	7.2	8.0	6.2	6.0	6.1	24	e10	9.1	7.8	12	9.0	9.3
27	7.6	9.6	6.3	e4.5	6.1	60	10	9.1	7.6	7.8	8.0	7.9
28	7.8	9.1	6.4	e5.2	6.0	72	9.8	10	7.3	7.3	6.9	8.4
29	9.8	8.5	6.5	5.8	---	55	9.5	9.4	7.4	7.0	6.6	8.0
30	13	8.1	7.9	5.9	---	35	9.2	8.9	7.2	6.8	6.4	7.4
31	9.7	---	8.0	5.9	---	20	---	8.4	---	6.6	6.3	---
TOTAL	236.7	243.8	229.5	175.2	328.6	512.6	343.5	294.7	273.0	221.6	204.9	209.6
MEAN	7.64	8.13	7.40	5.65	11.7	16.5	11.4	9.51	9.10	7.15	6.61	6.99
MAX	13	10	9.7	6.9	89	72	15	14	18	12	9.0	17
MIN	6.8	7.0	5.8	4.2	6.0	5.3	9.2	8.0	7.2	6.0	5.9	5.8
CFSM	0.53	0.57	0.52	0.40	0.82	1.16	0.80	0.66	0.64	0.50	0.46	0.49
IN.	0.62	0.63	0.60	0.46	0.85	1.33	0.89	0.77	0.71	0.58	0.53	0.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

MEAN	8.18	8.73	7.62	6.69	8.35	13.8	12.0	11.8	11.2	9.21	9.59	9.21
MAX	11.9	13.0	10.9	9.65	14.3	17.3	21.2	16.4	21.4	19.7	17.8	14.2
(WY)	(1994)	(1992)	(1994)	(1994)	(1994)	(2004)	(1993)	(1991)	(1993)	(1993)	(1993)	(1993)
MIN	5.64	5.58	4.90	4.70	5.09	7.98	7.04	8.82	7.48	6.05	4.94	4.82
(WY)	(2004)	(1991)	(1991)	(1991)	(1991)	(1991)	(2004)	(1992)	(1995)	(2003)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	3,543.5		3,273.7			
ANNUAL MEAN	9.68		8.97		9.81	
HIGHEST ANNUAL MEAN					13.5	1993
LOWEST ANNUAL MEAN					7.75	1991
HIGHEST DAILY MEAN	140	Jun 9	89	Feb 6	192	Aug 14, 1995
LOWEST DAILY MEAN	4.6	May 3-5	(a)4.2	Jan 15-17	3.9	(b)Dec 3, 1990
ANNUAL SEVEN-DAY MINIMUM	4.7	May 1	(a)4.7	Jan 13	4.2	Sep 5, 2003
MAXIMUM PEAK FLOW			268	Mar 6	(c)2,400	Aug 14, 1995
MAXIMUM PEAK STAGE			6.35	Mar 6	11.61	Aug 14, 1995
INSTANTANEOUS LOW FLOW					(d)1.7	Dec 3, 1990
ANNUAL RUNOFF (CFSM)	0.677		0.627		0.686	
ANNUAL RUNOFF (INCHES)	9.22		8.52		9.32	
10 PERCENT EXCEEDS	15		11		14	
50 PERCENT EXCEEDS	7.3		7.4		8.0	
90 PERCENT EXCEEDS	5.2		6.0		5.6	

05378185 EAGLE CREEK AT COUNTY HIGHWAY G NEAR FOUNTAIN CITY, WI—Continued

(a) Ice affected
(b) Also occurred Sept. 11, 2003
(c) From rating curve extended above 380 ft^3/s on basis of step-backwater method
(d) Result of freezeup
(e) Estimated

05378185 EAGLE CREEK AT COUNTY HIGHWAY G NEAR FOUNTAIN CITY, WI—Continued

PRECIPITATION QUANTITY

PERIOD OF RECORD.-October 1990 to June 1996, October 2002 to current year (non-frozen precipitation).

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Rainfall estimated to be 0.00 for Dec. 20, 30, Jan. 1, 6, 18, 21, 22, 24, Feb. 14, 20, 27, Mar. 10, 11. 18 and 19 because recorded precipitation interpreted as collector snowmelt. Rainfall data missing for May 1-2 and Aug. 20-24.

EXTREMES FOR PERIOD OF RECORD.-- Maximum daily rainfall, 4.85 in., Aug. 13, 1995.

EXTREMES FOR CURRENT YEAR.-- Maximum daily rainfall, 2.96 in., July 25.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.95	0.14	0.00	e0.00	0.00	0.00	0.01	---	0.00	0.00	0.00	0.00
2	0.01	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00
3	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.17
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.01
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
6	0.00	0.00	0.04	e0.00	0.14	0.00	0.00	0.02	0.00	0.00	0.00	0.02
7	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	0.05
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.78	0.00	0.00	0.18
9	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.89	0.00
10	0.00	0.00	0.03	0.00	0.00	e0.00	0.01	0.01	0.16	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	e0.00	0.02	0.01	1.14	0.00	0.46	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.20	1.34	0.00	0.00	0.00	0.06
13	0.26	0.01	0.00	0.00	0.11	0.00	0.00	0.08	0.19	0.00	0.00	0.86
14	0.16	0.00	0.00	0.00	e0.00	0.00	0.00	0.23	0.09	0.00	0.00	0.01
15	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00
16	0.02	0.00	0.00	0.00	0.00	0.00	0.57	0.03	0.00	0.00	0.00	0.00
17	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.41	0.00	0.00
18	0.00	0.04	0.00	e0.00	0.00	e0.00	0.00	0.98	0.00	0.24	1.00	0.00
19	0.01	0.76	0.00	0.00	0.00	e0.00	1.09	0.03	0.00	0.00	0.04	0.43
20	0.00	0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.17	0.38	---	0.00
21	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.03	0.00	0.35	---	0.00
22	0.06	0.00	0.00	e0.00	0.00	0.00	0.02	0.01	0.00	0.00	---	0.16
23	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	---	0.00
24	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.29
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	2.96	0.00	2.36
26	0.25	0.13	0.00	0.00	0.00	0.00	0.03	0.00	0.05	0.01	1.06	0.00
27	0.05	0.37	0.00	0.00	e0.00	0.00	0.02	0.45	0.00	0.00	0.01	0.00
28	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.42
29	0.80	0.00	0.00	0.00	---	0.00	0.00	0.00	0.01	0.00	0.00	0.00
30	0.18	0.00	e0.00	0.00	---	0.23	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.01	---
TOTAL	3.40	1.46	0.23	0.00	0.25	0.23	1.97	---	3.79	4.53	---	5.02

CAL YR 2004 TOTAL 38.39

e Estimated

05378185 EAGLE CREEK AT COUNTY HIGHWAY G NEAR FOUNTAIN CITY, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1990 to June 1996, October 2002 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July 1990 to June 1996, October 2002 to current year.
SUSPENDED-SOLIDS DISCHARGE: July 1990 to June 1996, October 2002 to current year.
TOTAL-PHOSPHORUS DISCHARGE: JulY 1990 to June 1996, October 2002 to current year.
DISSOLVED OXYGEN: July 1990 to September 1992.

INSTRUMENTATION.--Water-quality sampler July 1990 to June 1996 and October 2002 to current year; continuous water-temperature recorder July 1990 to June 1996 and October 2002 to current year; dissolved-oxygen recorder July 1990 to September 1992.

REMARKS.--Records represent water temperature at sensor within 0.5°C. Chemical analyses by the Wisconsin State Laboratory of Hygiene. Samples are point samples unless otherwise indicated.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum observed, 28.0°C, July 14, 1995; minimum observed, 0.0°C on many days during 1991-1996, 2003-2005 winter periods.
SUSPENDED-SOLIDS DISCHARGE; Maximum daily, 4,750 tons, Aug. 14, 1995; minimum daily, 0.07 ton, Sept. 11, 2003, May 4-7, 9-11, Sept. 18, 20-24, 2005.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 9,370 lb, Aug. 14, 1995; minimum daily, 0.65 lb, Feb. 16, 2004.
DISSOLVED OXYGEN: Maximum observed, 14.9 mg/L, Apr. 12, 1992; minimum observed, 4.2 mg/L, July 21, 1991.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum observed, 23.5°C, July 17; minimum observed, 0.0°C on many days.
SUSPENDED-SOLIDS DISCHARGE: Maximum daily, 418 tons, Mar. 6; minimum daily 0.07 ton, May 4-7, 9-11, Sept. 18, 20-24.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 1,040 lb, Feb. 6; minimum daily, 0.73 lb, Feb. 16-17.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.0	9.5	11.0	8.5	7.5	8.0	3.0	1.0	2.0	1.5	0.5	1.0
2	11.0	7.5	9.0	9.0	7.5	8.5	3.5	1.5	2.5	2.5	1.0	2.0
3	12.0	7.5	9.5	8.5	6.0	7.0	3.0	1.5	2.5	1.0	0.0	0.5
4	10.5	7.5	9.5	8.0	6.0	6.5	5.0	3.0	4.0	1.5	0.5	1.0
5	10.5	6.0	8.0	7.5	5.0	6.0	4.5	3.0	3.5	0.5	0.0	0.0
6	12.5	7.5	10.0	8.5	5.5	7.0	4.5	3.5	4.0	1.0	0.0	0.0
7	12.0	10.0	11.0	8.0	5.0	7.5	5.0	4.5	5.0	0.5	0.0	0.0
8	14.5	11.5	12.5	6.0	4.5	5.5	5.5	4.5	5.0	1.5	0.5	1.0
9	12.5	8.5	10.5	7.5	4.5	6.0	5.5	5.0	5.5	2.0	1.0	1.5
10	11.5	7.5	9.5	8.5	7.0	8.0	5.5	5.0	5.0	1.0	0.0	0.5
11	11.0	7.5	9.5	7.0	3.5	5.5	5.0	4.5	4.5	1.5	0.0	1.0
12	10.0	7.0	8.5	4.5	2.5	3.5	4.5	2.5	4.0	3.0	1.5	2.5
13	9.5	7.5	8.5	4.5	1.5	3.0	2.5	0.0	1.0	2.5	0.0	1.5
14	9.0	8.5	8.5	5.0	2.0	3.5	1.0	0.0	0.5	0.0	0.0	0.0
15	8.5	7.5	8.0	7.0	4.0	6.0	2.0	0.5	1.5	0.0	0.0	0.0
16	8.0	6.5	7.0	8.0	7.0	7.5	2.5	1.5	2.0	0.0	0.0	0.0
17	8.0	5.5	7.0	10.0	8.0	9.0	2.0	0.0	1.0	0.0	0.0	0.0
18	9.5	7.0	8.0	9.0	8.0	8.5	3.0	0.0	2.0	0.0	0.0	0.0
19	9.0	8.0	8.5	8.0	7.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0
20	11.0	9.0	9.5	7.5	6.0	7.0	0.5	0.0	0.0	1.0	0.0	0.5
21	10.0	8.5	9.0	6.0	4.5	5.0	0.5	0.0	0.0	1.5	0.0	1.0
22	10.5	9.0	9.5	6.0	4.5	5.5	0.0	0.0	0.0	1.0	0.0	0.5
23	12.0	10.5	11.5	6.0	4.0	5.5	0.0	0.0	0.0	0.5	0.0	0.0
24	11.0	8.5	10.0	4.0	2.5	3.5	0.0	0.0	0.0	2.0	0.5	1.0
25	11.0	9.0	10.0	4.0	1.5	3.0	0.0	0.0	0.0	2.5	1.5	2.0
26	9.0	8.0	8.5	5.0	3.5	4.0	0.0	0.0	0.0	2.5	0.5	2.0
27	9.5	8.0	8.5	5.0	4.0	4.5	1.0	0.0	0.5	1.0	0.0	0.5
28	10.5	9.5	10.0	4.5	3.0	3.5	2.0	0.5	1.0	1.0	0.0	0.5
29	13.0	10.5	12.0	4.5	2.0	3.5	2.0	1.5	1.5	2.5	1.0	2.0
30	13.0	9.5	11.0	2.5	1.0	2.0	2.5	1.5	2.0	4.0	2.5	3.0
31	9.5	8.0	9.0	---	---	---	2.5	1.0	1.5	4.0	3.0	3.5
MONTH	14.5	5.5	9.4	10.0	1.0	5.7	5.5	0.0	2.0	4.0	0.0	0.9

05378185 EAGLE CREEK AT COUNTY HIGHWAY G NEAR FOUNTAIN CITY, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.0	3.0	3.5	3.5	0.0	1.5	8.0	3.5	5.5	---	---	---
2	4.5	3.0	3.5	2.5	0.0	0.5	10.0	3.5	6.5	---	---	---
3	4.5	2.5	3.0	3.0	0.0	1.0	11.5	5.0	8.0	12.5	3.0	7.5
4	4.5	2.0	2.5	5.0	0.0	2.5	12.5	6.0	9.0	14.0	5.0	9.5
5	4.0	0.0	1.5	5.0	2.0	3.0	12.0	7.5	10.0	15.5	7.5	11.5
6	1.0	0.5	0.5	4.5	0.5	2.0	12.5	8.5	10.0	18.5	10.5	14.0
7	2.5	0.5	1.5	3.5	0.5	2.0	13.5	8.0	10.5	15.5	11.0	13.0
8	2.5	1.0	2.0	4.5	0.0	2.0	---	---	---	17.0	11.5	14.0
9	3.0	1.0	2.0	4.5	0.0	2.0	---	---	---	16.5	13.5	15.0
10	3.0	0.5	1.5	3.5	1.0	2.0	---	---	---	15.5	13.0	14.0
11	4.0	0.5	2.0	4.0	1.0	2.5	---	---	---	13.0	11.0	12.0
12	4.5	1.5	2.5	3.5	0.0	1.0	10.0	7.5	9.0	11.0	6.5	8.0
13	3.0	1.5	2.5	3.5	0.0	1.5	12.5	5.5	8.5	10.0	6.5	8.0
14	3.5	1.5	2.5	4.5	0.0	2.5	13.5	6.0	9.5	11.0	8.0	9.5
15	4.0	2.0	3.0	5.5	1.5	3.0	14.5	7.0	10.5	12.0	8.0	10.0
16	3.5	1.0	2.0	6.5	2.0	4.0	10.5	9.0	9.5	13.5	7.5	10.5
17	2.5	0.0	0.5	---	---	---	15.0	8.0	11.0	13.0	10.0	11.5
18	1.5	0.0	0.5	---	---	---	17.0	10.0	13.0	12.5	10.5	11.5
19	2.5	0.0	1.0	2.5	0.0	1.0	13.0	10.5	11.5	14.5	11.0	12.5
20	2.0	0.5	1.0	6.0	0.0	2.5	11.0	9.5	10.5	14.5	11.5	13.0
21	4.0	1.5	2.5	7.0	0.5	3.5	13.5	7.5	10.5	13.5	10.5	12.0
22	3.5	0.0	1.5	6.0	1.5	4.0	13.0	8.0	10.0	16.0	10.5	13.5
23	4.0	0.0	1.5	8.0	3.0	5.0	12.0	5.5	8.5	16.5	11.5	14.0
24	3.5	0.0	2.0	6.5	2.5	4.5	13.0	5.0	8.5	18.5	10.5	14.5
25	5.0	2.0	3.5	6.0	2.0	3.5	---	---	---	15.5	12.0	14.0
26	4.5	0.5	2.5	5.5	1.0	2.5	---	---	---	17.5	11.0	14.0
27	3.0	2.0	2.5	4.5	0.5	1.5	8.0	6.0	7.0	14.0	11.0	12.5
28	4.0	1.5	2.5	5.5	0.5	2.0	9.5	4.0	7.0	14.0	10.5	12.0
29	---	---	---	5.0	1.0	2.5	10.5	6.0	8.0	16.5	10.5	13.5
30	---	---	---	7.0	2.5	4.0	9.0	5.0	7.0	17.0	10.5	14.0
31	---	---	---	9.5	3.5	6.0	---	---	---	19.0	11.5	15.0
MONTH	5.0	0.0	2.1	9.5	0.0	2.6	17.0	3.5	9.1	19.0	3.0	12.2
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.5	13.5	15.5	19.0	15.0	16.5	21.0	16.0	18.5	17.5	13.5	15.0
2	20.5	12.5	16.5	19.5	13.0	16.0	22.0	16.5	19.0	16.5	12.0	14.0
3	18.0	13.5	16.0	17.0	14.5	15.5	20.0	17.5	19.0	15.5	11.5	13.5
4	16.5	14.0	15.0	18.0	14.0	16.0	20.5	17.0	18.5	16.0	13.5	14.5
5	19.5	13.5	16.5	17.5	14.0	16.0	19.5	14.5	17.0	18.0	13.5	15.5
6	21.0	14.0	17.5	18.0	14.0	15.5	19.5	13.5	16.5	18.5	15.0	16.5
7	20.0	15.0	17.5	20.0	13.5	16.5	20.0	14.0	17.0	17.0	14.0	15.5
8	18.0	15.5	16.5	18.5	15.0	16.5	18.5	15.5	17.0	14.5	12.0	13.5
9	18.0	14.0	16.0	21.5	15.5	18.0	19.0	16.0	17.5	17.5	13.0	15.0
10	19.5	14.0	16.5	22.0	16.0	19.0	20.0	16.0	18.0	18.5	14.5	16.5
11	21.5	16.0	18.0	21.5	16.0	18.5	18.0	15.5	16.0	19.0	15.0	17.0
12	20.0	15.0	17.5	21.5	15.5	18.5	17.5	15.0	16.0	18.5	15.5	17.0
13	17.5	15.5	16.5	22.0	16.0	19.0	17.5	14.5	16.0	17.5	15.5	16.5
14	17.5	14.5	16.0	22.0	16.5	19.5	17.5	13.0	15.0	16.0	13.0	14.5
15	17.5	14.0	15.5	22.0	16.5	19.0	18.0	12.5	15.0	15.0	11.5	13.0
16	19.0	12.0	15.5	22.5	17.0	19.5	18.5	13.5	16.0	15.0	11.0	13.0
17	19.5	12.5	16.0	23.5	17.5	20.0	18.0	14.0	16.0	14.5	11.0	13.0
18	20.0	13.0	16.0	21.0	18.0	19.5	16.5	15.5	16.0	16.5	12.5	14.5
19	21.0	14.0	17.0	21.0	15.0	18.0	18.5	15.0	16.5	16.5	14.0	15.0
20	20.5	14.5	17.0	20.0	16.0	18.0	19.5	16.0	17.5	16.5	12.5	14.5
21	21.5	15.0	18.0	20.0	16.0	17.5	18.0	14.0	16.0	17.5	13.0	15.0
22	21.5	15.0	18.0	21.5	16.0	18.5	16.0	12.5	14.5	16.0	13.0	15.0
23	23.0	16.5	19.5	19.5	17.0	18.0	16.5	11.5	14.0	14.0	10.5	12.5
24	20.0	17.5	19.0	21.0	17.0	18.5	16.0	12.0	14.0	13.0	12.0	12.5
25	19.5	15.5	17.5	19.5	17.0	18.0	16.5	14.5	15.5	14.5	13.0	14.0
26	18.5	16.0	17.0	18.5	15.5	17.0	16.0	15.0	15.5	15.0	13.0	14.0
27	22.5	15.5	19.0	18.5	13.0	15.5	18.0	14.0	16.0	14.5	10.5	12.5
28	20.0	17.0	18.5	19.0	13.0	16.0	17.5	13.5	15.5	13.0	10.5	12.0
29	19.0	16.0	17.5	19.5	14.5	17.0	17.5	13.5	15.5	12.0	8.5	10.5
30	20.5	16.0	18.0	20.0	15.0	17.0	16.5	13.5	15.0	13.5	9.5	11.5
31	---	---	---	21.5	16.5	18.5	16.5	12.0	14.5	---	---	---
MONTH	23.0	12.0	17.0	23.5	13.0	17.6	22.0	11.5	16.3	19.0	8.5	14.2
YEAR	23.5	0.0	9.2									

05378185 EAGLE CREEK AT COUNTY HIGHWAY G NEAR FOUNTAIN CITY, WI—Continued

SUSPENDED SOLIDS, DRIED AT 105 DEGREES CELSIUS, WATER, UNFILTERED, TONS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.65	0.21	0.24	0.22	0.21	0.20	2.5	0.11	0.15	0.34	0.21	0.10
2	0.48	0.22	0.23	0.22	0.22	0.20	2.0	0.09	0.15	0.35	0.20	0.10
3	0.20	0.22	0.22	0.21	0.24	0.20	1.6	0.08	0.15	0.38	0.20	0.10
4	0.19	0.23	0.22	0.20	0.70	0.48	1.4	0.07	0.16	0.39	0.20	0.11
5	0.19	0.23	0.21	0.20	235	1.8	1.2	0.07	0.16	0.38	0.19	0.10
6	0.18	0.23	0.21	0.20	279	418	1.1	0.07	0.15	0.38	0.19	0.10
7	0.18	0.23	0.22	0.20	2.4	7.2	1.1	0.07	0.85	0.37	0.19	0.10
8	0.18	0.23	0.22	0.20	0.41	0.50	1.1	0.08	3.6	0.39	0.19	0.10
9	0.17	0.23	0.23	0.21	0.35	0.37	0.97	0.07	1.2	0.39	0.22	0.10
10	0.16	0.24	0.75	0.20	0.32	0.37	0.96	0.07	0.85	0.37	0.38	0.09
11	0.15	0.23	0.57	0.20	0.32	0.33	0.96	0.07	19	0.37	0.21	0.08
12	0.14	0.23	0.24	0.21	2.0	0.28	1.0	0.66	3.1	0.37	0.45	0.08
13	0.14	0.24	0.22	0.17	3.2	0.24	0.93	1.5	1.3	0.37	0.18	0.10
14	0.15	0.24	0.22	0.16	2.6	0.24	0.89	0.66	1.1	0.36	0.17	0.14
15	0.14	0.26	0.23	0.14	0.86	0.23	0.85	0.66	0.96	0.34	0.15	0.11
16	0.13	0.27	0.23	0.15	0.28	0.24	0.94	0.51	0.80	0.32	0.14	0.08
17	0.12	0.27	0.22	0.15	0.25	0.20	0.97	0.62	0.69	0.29	0.14	0.08
18	0.11	0.27	0.22	0.18	0.23	0.17	0.89	0.89	0.63	0.70	0.45	0.07
19	0.11	0.63	0.19	0.20	0.24	0.20	1.4	1.9	0.58	0.29	0.38	0.08
20	0.10	0.82	0.20	0.19	0.25	0.18	2.0	0.89	0.55	0.38	0.70	0.07
21	0.10	0.55	0.20	0.20	0.23	0.16	1.2	0.66	0.53	0.45	0.12	0.07
22	0.10	0.30	0.18	0.20	0.22	0.16	0.77	0.28	0.49	0.26	0.11	0.07
23	0.11	0.29	0.19	0.17	0.22	0.18	0.61	0.25	0.47	0.24	0.11	0.07
24	0.11	0.27	0.17	0.20	0.22	0.89	0.49	0.23	0.45	0.23	0.10	0.07
25	0.11	0.26	0.18	0.21	0.21	2.4	0.42	0.22	0.44	14	0.10	9.8
26	0.12	0.26	0.19	0.21	0.21	28	0.35	0.21	0.42	5.9	1.6	0.60
27	0.14	0.31	0.19	0.16	0.21	225	0.27	0.20	0.40	0.34	0.76	0.25
28	0.15	0.29	0.20	0.18	0.21	321	0.21	0.21	0.37	0.24	0.11	0.28
29	0.77	0.27	0.20	0.20	---	115	0.17	0.19	0.36	0.23	0.11	0.14
30	1.9	0.25	0.39	0.21	---	27	0.14	0.17	0.36	0.22	0.10	0.09
31	0.75	---	0.41	0.21	---	5.9	---	0.16	---	0.21	0.10	---
TOTAL	8.23	8.78	7.79	5.96	530.81	1,157.32	29.39	11.92	40.42	29.85	8.46	13.33
MEAN	0.27	0.29	0.25	0.19	19	37	0.98	0.38	1.3	0.96	0.27	0.44
MAX	1.9	0.82	0.75	0.22	279	418	2.5	1.9	19	14	1.6	9.8
MIN	0.10	0.21	0.17	0.14	0.21	0.16	0.14	0.07	0.15	0.21	0.10	0.07

CAL YR 2004 TOTAL 4,547.32 MEAN 12 MAX 1,590 MIN 0.08
WTR YR 2005 TOTAL 1,852.26 MEAN 5.1 MAX 418 MIN 0.07

05378185 EAGLE CREEK AT COUNTY HIGHWAY G NEAR FOUNTAIN CITY, WI—Continued

PHOSPHORUS, WATER, UNFILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	2.1	1.8	1.3	1.0	1.7	6.3	1.3	1.7	2.4	2.3	1.4
2	3.6	2.2	1.7	1.3	1.1	1.6	5.0	1.1	1.6	2.4	2.3	1.4
3	1.6	2.2	1.7	1.2	1.2	1.7	4.8	1.1	1.7	2.5	2.3	1.4
4	1.5	2.1	1.7	1.2	8.4	5.8	4.5	1.1	1.8	2.6	2.2	1.5
5	1.5	2.1	1.7	1.1	534	16	4.4	1.2	1.8	2.5	2.1	1.4
6	1.4	2.0	1.7	1.1	1,040	1,010	4.4	1.3	1.7	2.5	2.1	1.4
7	1.4	1.9	1.8	1.1	40	95	4.2	1.4	5.0	2.4	2.1	1.4
8	1.5	1.9	1.8	1.1	5.9	15	4.3	1.6	14	2.4	2.1	1.6
9	1.4	1.9	1.8	1.1	3.6	7.8	4.0	1.8	6.3	2.4	2.4	1.5
10	1.4	1.8	2.1	1.1	3.1	6.3	4.0	1.9	4.9	2.3	3.3	1.4
11	1.4	1.8	1.9	1.1	2.9	4.1	4.0	2.0	45	2.2	2.4	1.4
12	1.4	1.7	1.9	1.1	20	2.5	4.4	3.6	13	2.2	3.6	1.4
13	1.4	1.7	1.7	0.89	28	1.9	4.1	7.2	6.1	2.2	2.1	2.2
14	1.5	1.6	1.6	0.81	24	1.9	3.9	3.6	5.7	2.2	1.9	1.8
15	1.5	1.7	1.7	0.74	9.9	1.9	3.8	3.6	5.4	2.1	1.8	1.5
16	1.5	1.7	1.7	0.73	2.3	2.1	4.3	2.8	4.8	2.1	1.7	1.4
17	1.4	1.7	1.6	0.73	2.1	1.8	4.5	3.4	4.5	2.1	1.6	1.5
18	1.3	1.6	1.6	0.90	1.9	1.5	4.2	4.6	4.2	4.8	2.3	1.5
19	1.4	4.6	1.3	0.98	2.0	1.9	11	8.8	3.9	2.2	2.1	1.7
20	1.3	5.6	1.4	0.95	2.1	1.7	8.8	4.6	3.7	3.3	2.8	1.6
21	1.3	4.1	1.4	0.96	1.9	1.6	4.3	4.0	3.6	3.6	1.5	1.4
22	1.3	1.9	1.2	0.98	1.9	1.6	3.7	3.6	3.4	2.4	1.4	1.5
23	1.4	1.9	1.3	0.83	1.8	1.8	3.2	3.2	3.2	2.3	1.4	1.4
24	1.4	1.8	1.2	0.98	1.8	4.6	2.8	2.9	3.1	2.3	1.3	1.5
25	1.4	1.7	1.2	1.1	1.8	11	2.7	2.7	3.1	34	1.3	32
26	1.5	1.8	1.2	1.0	1.8	94	2.4	2.6	3.0	16	4.1	4.0
27	1.6	2.1	1.2	0.77	1.8	531	2.1	2.4	2.8	3.0	2.9	2.9
28	1.7	2.0	1.3	0.89	1.7	872	1.8	2.5	2.6	2.7	1.5	3.3
29	5.4	1.9	1.3	0.99	---	385	1.6	2.2	2.6	2.6	1.5	2.3
30	11	1.8	1.5	1.0	---	102	1.4	1.9	2.5	2.5	1.4	1.9
31	5.2	---	1.5	1.0	---	23	---	1.7	---	2.4	1.4	---
TOTAL	67.3	64.9	48.5	31.03	1,748.0	3,209.8	124.9	87.7	166.7	123.6	65.2	82.6
MEAN	2.2	2.2	1.6	1.0	62	104	4.2	2.8	5.6	4.0	2.1	2.8
MAX	11	5.6	2.1	1.3	1,040	1,010	11	8.8	45	34	4.1	32
MIN	1.3	1.6	1.2	0.73	1.0	1.5	1.4	1.1	1.6	2.1	1.3	1.4

CAL YR	2004	TOTAL	12,547.14	MEAN	34	MAX	3,350	MIN 0.65
WTR YR	2005	TOTAL	5,820.23	MEAN	16	MAX	1,040	MIN 0.73

05378185 EAGLE CREEK AT COUNTY HIGHWAY G NEAR FOUNTAIN CITY, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Dis-charge, cfs (00060)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Residue total at 105 deg. C, sus-pended, mg/L (00530)	Ammonia water, fltrd, mg/L as N (00608)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)
OCT								
07...	0844	--	6.8	10	10	.021	.023	.039
21...	0942	--	7.2	10	5	.028	.019	.034
NOV								
04...	1014	--	8.5	10	10	.033	.023	.047
18...	0944	--	7.4	10	14	.029	.021	.042
DEC								
07...	0938	--	7.9	10	10	.022	.020	.041
JAN								
18...	1258	5.2	--	10	13	.017	.015	.032
FEB								
05...	1655	--	89	50	3,390	1.62	--	3.30
06...	0445	--	144	50	1,170	2.13	.964	2.16
06...	0540	--	174	50	1,780	1.87	.899	2.53
06...	1825	--	51	50	446	1.86	--	1.74
07...	1055	--	9.8	10	54	.882	.547	.709
22...	1012	--	7.3	10	13	.035	.029	.054
MAR								
06...	1410	--	59	50	2,400	.630	--	2.19
06...	1510	--	152	50	3,190	.979	--	2.92
06...	1545	--	227	50	3,800	1.06	--	3.56
06...	1635	--	253	50	3,280	2.13	--	3.64
06...	1910	--	207	50	2,000	2.02	--	2.81
07...	0000	--	37	50	580	2.03	--	1.87
08...	0944	--	6.3	10	24	.609	.295	.379
22...	0954	--	6.3	10	9	.038	.018	.045
26...	1730	--	58	50	1,360	.544	--	1.51
27...	1440	--	84	50	1,480	1.11	--	.863
27...	1605	--	182	50	2,670	.774	--	1.27
27...	2215	--	52	50	686	2.31	--	1.78
28...	1355	--	82	50	3,280	1.38	--	1.88
28...	1450	--	184	50	2,270	1.58	.669	2.42
28...	1520	--	220	50	2,760	2.13	.779	2.82
28...	1855	--	171	50	1,540	2.13	--	2.65
28...	2200	--	59	50	788	2.07	--	1.89
29...	0935	--	18	50	78	.939	.538	.720
29...	0936	--	18	10	65	1.16	.508	.701
29...	1348	--	106	10	1,390	1.24	.696	1.74
29...	1350	--	102	50	1,260	1.36	.776	1.80
29...	1450	--	139	50	1,440	1.45	--	1.81
29...	1900	--	92	50	795	1.06	--	1.32
APR								
05...	0948	--	12	10	34	.044	.028	.065
20...	1236	--	13	10	61	.038	.025	.073
MAY								
03...	0954	--	8.9	10	3	.021	.012	.021
19...	1102	--	13	10	19	.055	.036	.084
31...	0948	--	8.6	10	7	.033	.021	.039
JUN								
11...	1600	--	30	50	1,420	.126	--	1.23
15...	1032	--	10	10	36	.067	.045	.100
29...	1038	--	7.7	10	18	.029	.038	.065
JUL								
13...	1042	--	6.6	10	22	.026	.035	.064
25...	2100	--	30	50	1,570	.127	--	1.63
27...	1122	--	7.9	10	12	.036	.047	.069
AUG								
10...	1118	--	7.1	10	12	<.015	.039	.065
24...	1038	--	6.3	10	6	.016	.025	.039
SEP								
06...	1022	--	6.3	10	6	.071	.031	.044
21...	1032	--	5.7	10	4	<.015	.031	.044
25...	0825	--	30	50	529	.266	--	.970

05378500 MISSISSIPPI RIVER AT WINONA, MN

LOCATION.--Lat 44°03'21", long 91°38'16", in sec. 23, T.107 N., R.7 W., Winona County, Hydrologic Unit 07040003, on right bank at Winona pumping station in Winona, 9.5 mi upstream from Trempealeau River, and at mile 725.7 upstream from the Ohio River.

DRAINAGE AREA.--59,200 mi^2 (approximately).

PERIOD OF RECORD.--June 1928 to current year. Gage-height records collected in this vicinity since 1878 are contained in reports of Mississippi River Commission.

GAGE.--Water-stage recorder. Datum of gage is 639.64 ft above sea level (NGVD of 1929). June 10,1928 to Apr. 15, 1931, nonrecording gage at site 800 ft upstream. Prior to Oct. 1, 1929, at datum 0.20 ft higher and Oct. 1, 1929 to Apr. 15, 1931, at datum 0.12 ft lower. Apr. 16, 1931 to Nov. 12, 1934, nonrecording gage at present site and datum. Since Mar. 31, 1937, auxiliary water-stage recorder 2.7 mi upstream at tailwater of navigation dam 5A.

REMARKS.-- Records are good to fair except those for estimated daily discharges, which are fair. Some regulation by reservoirs, navigation dams, and power plants at low and medium stages. Daily discharges for some days were based in part on instantaneous discharges obtained from the U.S. Army Corps of Engineers for Lock and Dam 5A.

EXTREMES FOR PERIOD OF RECORD.--Minimum gage height, -3.38 ft, Aug. 31, 1934 (prior to dam construction in 1936); minimum gage height since 1938, after completion of dam, 1.95 ft, Jan. 27, 1944.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37,000	34,800	24,000	e19,300	e15,700	17,900	61,800	48,600	49,900	49,700	14,400	12,900
2	37,600	37,400	25,800	e19,600	e15,700	17,200	67,700	46,600	48,900	47,000	16,500	11,800
3	37,100	39,500	26,300	e20,400	e15,700	16,700	76,700	43,400	48,600	45,000	18,300	11,400
4	35,300	40,400	24,100	e20,400	e16,000	16,600	85,600	42,400	48,000	44,900	17,400	12,300
5	31,900	40,200	22,700	e20,300	e16,700	16,400	91,600	39,700	47,000	44,900	17,500	14,500
6	31,400	39,100	20,700	e19,800	e17,600	17,100	90,600	38,600	46,500	44,300	16,300	18,700
7	32,300	38,000	20,500	e18,700	22,500	21,700	87,500	36,800	45,800	42,700	14,200	19,600
8	32,500	37,800	23,600	e16,900	22,300	25,300	84,600	34,500	46,200	40,800	13,800	18,800
9	31,100	35,900	23,500	e15,700	20,500	27,100	81,100	34,400	51,600	e39,100	14,200	17,400
10	28,600	34,800	24,100	e15,700	19,300	27,400	78,600	33,500	55,800	e36,900	15,200	16,300
11	27,700	34,300	25,000	e16,000	19,700	26,500	77,900	33,000	56,800	e34,900	16,800	15,900
12	27,200	33,800	24,400	e16,000	20,100	25,500	76,700	32,700	55,700	e33,400	17,300	15,500
13	26,700	32,800	24,500	e15,900	19,800	23,700	73,700	34,300	55,400	e32,500	15,500	14,900
14	27,100	31,200	22,000	e15,900	19,900	21,400	70,100	37,200	56,700	e31,500	13,400	16,600
15	26,300	29,500	19,900	e14,500	23,900	20,200	65,800	39,800	57,800	30,100	12,700	19,300
16	25,800	28,400	16,900	e14,200	26,300	20,000	66,900	40,200	60,200	29,100	12,600	21,800
17	26,200	28,100	e16,800	e14,200	26,200	20,200	67,200	42,100	62,500	26,900	12,900	22,400
18	24,600	28,100	e17,500	e14,100	23,400	20,200	66,800	43,900	64,300	24,900	14,000	21,200
19	23,400	27,200	e17,000	e13,500	20,800	20,000	67,600	45,800	65,400	23,200	13,500	21,200
20	23,500	28,600	e14,000	e13,600	18,500	20,300	69,200	47,800	65,700	19,300	14,500	21,200
21	23,400	29,600	e13,300	e13,700	18,700	20,300	69,200	47,600	66,000	24,300	15,400	20,700
22	23,000	28,400	e14,400	e13,900	19,200	19,400	69,300	49,100	66,100	26,900	15,200	21,500
23	23,000	28,100	e14,800	e14,000	20,100	19,000	69,200	52,000	64,400	23,600	14,400	22,100
24	24,000	28,100	e14,500	e14,000	19,900	19,900	69,100	52,700	e62,800	22,200	13,600	21,400
25	24,400	28,200	e13,500	e14,800	18,600	23,400	68,100	52,600	e61,000	e18,800	13,800	24,400
26	24,000	28,200	e12,600	e15,800	18,600	26,100	65,500	52,500	e58,500	26,200	13,700	27,300
27	23,800	29,000	e12,700	e15,800	18,600	29,300	64,200	52,100	56,300	23,200	14,200	27,700
28	24,500	29,500	e14,200	e15,700	18,100	35,800	60,700	51,600	55,300	23,500	16,500	26,900
29	28,500	28,300	e15,900	e15,700	---	39,100	52,500	51,300	52,800	20,300	17,300	28,800
30	30,600	25,700	e17,400	e15,700	---	43,800	51,100	51,100	50,400	18,300	16,300	31,600
31	32,100	---	e17,500	e15,700	---	e52,400	---	51,000	---	16,200	14,100	---
TOTAL	874,600	963,000	594,100	499,500	552,400	749,900	2,146,600	1,358,900	1,682,400	964,600	465,500	596,100
MEAN	28,210	32,100	19,160	16,110	19,730	24,190	71,550	43,840	56,080	31,120	15,020	19,870
MAX	37,600	40,400	26,300	20,400	26,300	52,400	91,600	52,700	66,100	49,700	18,300	31,600
MIN	23,000	25,700	12,600	13,500	15,700	16,400	51,100	32,700	45,800	16,200	12,600	11,400
AC-FT	1,735,000	1,910,000	1,178,000	990,800	1,096,000	1,487,000	4,258,000	2,695,000	3,337,000	1,913,000	923,300	1,182,000
CFSM	0.48	0.54	0.32	0.27	0.33	0.41	1.21	0.74	0.95	0.53	0.25	0.34
IN.	0.55	0.61	0.37	0.31	0.35	0.47	1.35	0.85	1.06	0.61	0.29	0.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005, BY WATER YEAR (WY)

MEAN	22,740	23,190	17,870	15,420	15,740	30,310	62,360	49,690	40,730	32,450	21,770	22,510
MAX	85,950	50,040	40,440	30,480	35,900	86,420	152,600	119,800	100,200	118,800	67,560	69,490
(WY)	(1987)	(1972)	(1992)	(1983)	(1984)	(1983)	(1965)	(2001)	(1993)	(1993)	(1993)	(1986)
MIN	6,774	7,367	6,286	6,742	7,874	9,023	12,810	11,930	8,450	7,063	5,391	6,790
(WY)	(1934)	(1934)	(1934)	(1940)	(1977)	(1934)	(1931)	(1931)	(1934)	(1934)	(1934)	(1933)

05378500 MISSISSIPPI RIVER AT WINONA, MN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005	
ANNUAL TOTAL	10,930,200		11,447,600			
ANNUAL MEAN	29,860		31,360		29,590	
HIGHEST ANNUAL MEAN					56,850	1986
LOWEST ANNUAL MEAN					9,742	1934
HIGHEST DAILY MEAN	99,100	Jun 14	91,600	Apr 5	264,000	Apr 20, 1965
LOWEST DAILY MEAN	10,100	Jan 24	11,400	Sep 3	2,250	Dec 29, 1933
ANNUAL SEVEN-DAY MINIMUM	10,500	Jan 22	13,300	Aug 30	3,210	Dec 27, 1933
MAXIMUM PEAK FLOW			92,400	Apr 5	268,000	Apr 19, 1965
MAXIMUM PEAK STAGE			10.96	Apr 5	a20.77	Apr 19, 1965
INSTANTANEOUS LOW FLOW			b8,570	Sep 2	c1,940	Dec 12, 1980
ANNUAL RUNOFF (AC-FT)	21,680,000		22,710,000		21,440,000	
ANNUAL RUNOFF (CFSM)	0.504		0.530		0.500	
ANNUAL RUNOFF (INCHES)	6.87		7.19		6.79	
10 PERCENT EXCEEDS	54,100		60,800		60,700	
50 PERCENT EXCEEDS	26,300		24,600		21,400	
90 PERCENT EXCEEDS	12,100		14,500		10,100	

(a) From highwater mark.
(b) Result of regulation or lock use; may have been lower in July.
(c) Result of ice jam upstream.
(e) Estimated.

053793305 TRAVERSE VALLEY CREEK, NORTH TRIBUTARY, NEAR INDEPENDENCE, WI

LOCATION.--Lat 44°23'55", long 91°33'05" in NE ¼ SE ¼ sec.11, T.22 N., R.10 W., Buffalo County, Hydrologic Unit 07040005, 100 ft upstream of culvert crossing at County Highway X at family farm, 6.7 mi west-northwest of Independence.

DRAINAGE AREA.--0.65 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 2001 to current year.

GAGE.--Water-stage recorder. Water levels are controlled by a 4.5 ft H flume. Elevation of gage is 970 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated days which are fair (see Introduction). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.155	0.141	0.134	0.130	0.100	0.086	0.199	0.111	0.101	0.119	0.080	0.078
2	0.123	0.135	0.133	0.128	0.102	0.085	0.179	0.111	0.100	0.120	0.078	0.076
3	0.108	0.131	0.130	0.116	0.132	0.084	0.151	0.107	0.103	0.121	0.078	0.079
4	0.102	0.128	0.132	0.112	0.381	0.126	0.146	0.106	0.113	0.117	0.074	0.079
5	0.101	0.126	0.129	0.109	1.99	0.366	0.143	0.106	0.118	0.115	0.073	0.073
6	0.098	0.123	0.131	0.110	2.37	2.50	0.141	0.107	0.104	0.114	0.073	0.073
7	0.104	0.120	0.131	0.108	0.119	0.417	0.132	0.108	0.123	0.113	0.071	0.119
8	0.129	0.120	0.132	0.104	0.089	0.135	0.129	0.107	0.219	0.113	0.072	0.091
9	0.110	0.118	0.139	0.102	0.089	0.110	0.125	0.111	0.144	0.109	0.102	0.084
10	0.107	0.119	0.160	0.099	0.088	0.101	0.121	0.109	0.121	0.108	0.080	0.080
11	0.105	0.119	0.151	0.100	0.161	0.096	0.121	0.107	0.452	0.108	0.094	0.073
12	0.106	0.118	0.143	0.103	0.505	0.090	0.135	0.151	0.193	0.103	0.084	0.081
13	0.109	0.118	0.132	0.098	0.495	0.097	0.120	0.143	0.153	0.098	0.079	0.122
14	0.113	0.120	0.129	0.092	0.122	0.109	0.116	0.127	0.144	0.097	0.078	0.085
15	0.108	0.118	0.129	0.091	0.099	0.177	0.114	0.119	0.133	0.097	0.077	0.075
16	0.108	0.119	0.128	0.091	0.086	0.236	0.134	0.119	0.131	0.096	0.077	0.071
17	0.102	0.117	0.126	0.098	0.081	0.238	0.123	0.127	0.129	0.098	0.079	0.070
18	0.100	0.116	0.125	0.102	0.082	0.104	0.117	0.137	0.126	0.119	0.110	0.067
19	0.098	0.158	0.119	0.102	0.085	0.123	0.135	0.157	0.122	0.099	0.090	0.073
20	0.095	0.173	0.128	0.101	0.093	0.109	0.125	0.138	0.129	0.105	0.112	0.069
21	0.095	0.148	0.127	0.103	0.091	0.107	0.119	0.131	0.124	0.092	0.085	0.067
22	0.101	0.140	0.122	0.099	0.091	0.108	0.118	0.124	0.128	0.082	0.085	0.073
23	0.104	0.135	0.119	0.101	0.091	0.136	0.113	0.119	0.130	0.109	0.084	0.058
24	0.097	0.133	0.119	0.099	0.090	0.342	0.110	0.114	0.133	0.084	0.083	0.062
25	0.094	0.131	0.120	0.100	0.089	0.719	0.117	0.115	0.131	0.134	0.083	0.236
26	0.103	0.135	0.119	0.098	0.090	1.16	0.123	0.113	0.128	0.105	0.105	0.092
27	0.102	0.152	0.118	0.098	0.091	2.09	0.121	0.113	0.134	0.088	0.089	0.077
28	0.189	0.141	0.119	0.099	0.089	2.60	0.115	0.111	0.138	0.091	0.083	0.094
29	0.167	0.139	0.118	0.098	---	3.52	0.112	0.108	0.127	0.085	0.081	0.078
30	0.172	0.138	0.340	0.097	---	1.77	0.112	0.106	0.122	0.083	0.079	e0.071
31	0.146	---	0.145	0.098	---	0.459	---	0.103	---	0.080	0.079	---
TOTAL	3.551	3.929	4.227	3.186	7.991	18.400	3.866	3.665	4.253	3.202	2.597	2.526
MEAN	0.11	0.13	0.14	0.10	0.29	0.59	0.13	0.12	0.14	0.10	0.08	0.08
MAX	0.189	0.173	0.340	0.130	2.37	3.52	0.199	0.157	0.452	0.134	0.112	0.236
MIN	0.094	0.116	0.118	0.091	0.081	0.084	0.110	0.103	0.100	0.080	0.071	0.058
CFSM	0.18	0.20	0.21	0.16	0.44	0.91	0.20	0.18	0.22	0.16	0.13	0.13
IN.	0.20	0.22	0.24	0.18	0.46	1.05	0.22	0.21	0.24	0.18	0.15	0.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	0.14	0.14	0.14	0.12	0.18	0.41	0.15	0.18	0.28	0.15	0.13	0.14
MAX	0.18	0.18	0.18	0.17	0.29	0.59	0.21	0.21	0.45	0.22	0.19	0.21
(WY)	(2003)	(2002)	(2002)	(2002)	(2005)	(2005)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)
MIN	0.10	0.10	0.09	0.07	0.08	0.25	0.09	0.12	0.14	0.10	0.08	0.08
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2002)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2001 - 2005
ANNUAL TOTAL	62.250	61.393	
ANNUAL MEAN	0.17	0.17	0.18
HIGHEST ANNUAL MEAN			0.22 2002
LOWEST ANNUAL MEAN			0.16 2004
HIGHEST DAILY MEAN	2.59 Jun 9	3.52 Mar 29	4.52 Jun 3, 2002
LOWEST DAILY MEAN	0.058 Jan 28-31	0.058 Sep 23	0.058 (a)Jan 28, 2004
ANNUAL SEVEN-DAY MINIMUM	0.06 Jan 25	0.07 Sep 18	0.06 Jan 25, 2004
MAXIMUM PEAK FLOW		11.8 Mar 6	158 Jun 8, 2004
MAXIMUM PEAK STAGE		1.90 Mar 6	5.33 Jun 8, 2004
INSTANTANEOUS LOW FLOW		0.05 Sep 23	0.05 Sep 23, 2005
ANNUAL RUNOFF (CFSM)	0.262	0.259	0.275
ANNUAL RUNOFF (INCHES)	3.56	3.51	3.74
10 PERCENT EXCEEDS	0.24	0.15	0.23
50 PERCENT EXCEEDS	0.12	0.11	0.13
90 PERCENT EXCEEDS	0.07	0.08	0.09

053793305 TRAVERSE VALLEY CREEK, NORTH TRIBUTARY, NEAR INDEPENDENCE, WI—Continued

(a) Also occurred Jan. 29-31, 2004 and Sept. 23, 2005
(e) Estimated

053793305 TRAVERSE VALLEY CREEK, NORTH TRIBUTARY, NEAR INDEPENDENCE, WI—Continued

PRECIPITATION QUANTITY

PERIOD OF RECORD.--September 2001 to current year.

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Rainfall estimated to be 0.00 for Nov. 28, Dec. 28, Jan. 19, 24-25, 31, Feb. 10-11, 14, 21-22, 24, 27-28 and Mar. 10-11, 19-20 because recorded precipitation was interpreted as collector snowmelt.

EXTREMES FOR PERIOD OF RECORD.-- Maximum daily rainfall, 2.55 in., Jun. 8, 2004.

EXTREMES FOR CURRENT YEAR.-- Maximum daily rainfall, 1.71 in., Jun. 11.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.15	0.09	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.18
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00
6	0.00	0.00	0.06	0.00	0.10	0.00	0.16	0.00	0.00	0.00	0.00	0.00
7	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.94
8	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.11	0.00	0.11
9	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.89	0.00
10	0.00	0.06	0.10	0.00	e0.00	e0.00	0.01	0.02	0.01	0.00	0.00	0.01
11	0.00	0.00	0.00	0.00	e0.00	e0.00	0.03	0.01	1.71	0.00	0.50	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.24	1.07	0.00	0.00	0.00	0.32
13	0.22	0.00	0.00	0.00	0.14	0.00	0.00	0.06	0.03	0.00	0.00	0.88
14	0.11	0.00	0.00	0.00	e0.00	0.00	0.00	0.12	0.34	0.00	0.00	0.01
15	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
16	0.03	0.01	0.00	0.00	0.00	0.00	0.49	0.30	0.00	0.00	0.00	0.00
17	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.62	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.22	0.81	0.00
19	0.00	0.89	0.00	e0.00	0.00	e0.00	0.42	0.13	0.00	0.00	0.14	0.26
20	0.00	0.04	0.00	0.00	0.12	e0.00	0.00	0.00	0.23	0.18	0.58	0.00
21	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.30
22	0.05	0.00	0.00	0.00	e0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.27
23	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00
24	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
25	0.00	0.00	0.00	e0.00	0.00	0.00	0.09	0.12	0.01	1.26	0.00	1.48
26	0.32	0.20	0.00	0.00	0.00	0.00	0.18	0.00	0.03	0.02	0.68	0.04
27	0.08	0.45	0.00	0.00	e0.00	0.00	0.07	0.13	0.71	0.00	0.01	0.00
28	0.70	e0.00	e0.00	0.00	e0.00	0.00	0.01	0.02	0.01	0.27	0.00	0.47
29	0.40	0.00	0.00	0.00	---	0.00	0.00	0.00	0.03	0.00	0.00	0.00
30	0.08	0.00	0.11	0.00	---	0.25	0.00	0.00	0.03	0.00	0.00	0.00
31	0.02	---	0.00	e0.00	---	0.09	---	0.00	---	0.00	0.02	---
TOTAL	3.91	1.75	0.51	0.01	0.36	0.34	1.75	2.72	5.73	3.48	3.63	5.72

CAL YR 2004 TOTAL 39.37
WTR YR 2005 TOTAL 29.91

(e) Estimated

053793305 TRAVERSE VALLEY CREEK, NORTH TRIBUTARY, NEAR INDEPENDENCE, WI—Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--September 2001 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: September 2001 to current year.

INSTRUMENTATION.--Continuous water temperature recorder and water-quality sampler September 2001 to current year.

REMARKS.--Records represent water temperature at sensor within 0.5°C. Chemical analyses by the Wisconsin State Laboratory of Hygiene. Samples collected during periods of non-stormflow are grab samples. Samples during storms are composite samples collected by an automatic point sampler. The sample runoff volume is the total flow that occurs between the first and last subsample of each flow-composite sample. The storm runoff volume is the total flow that occurs between the start of the storm and the end of the storm. In most cases, the sample runoff volume is slightly different than the storm runoff volume. If the sample runoff volume and the storm runoff volume are comparable, a storm load (in pounds) can be computed by multiplying the storm volume (in thousands of cubic feet) by the constituent concentration (in mg/L) by a factor of 0.0624.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum temperature, 20.0°C, Jul. 2, 12, 2004; minimum, 0.0°C, many days.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum temperature, 19.5°C, Jun. 6, 23; minimum, 0.0°C, Feb. 5-6, 17-19, Mar. 1-3, 6, 12-13, 27.

STORM VOLUMES AND SAMPLE SUMMARY, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Storm Beginning Date	Storm Beginning Time	Storm Ending Date	Storm Ending Time	Storm Volume, Thousands of Cubic Feet	Peak Discharge (CFS)	Number of Subsamples
10-28-04	1545	10-28-04	2030	8.185	1.81	16
12-30-04	1415	12-31-04	0115	23.733	2.53	37
02-04-05	1330	02-06-05	1830	397.591	11.14	52
02-12-05	1145	02-13-05	2115	80.683	2.94	11
03-05-05	1400	03-05-05	2100	20.240	1.26	8
03-06-05	1100	03-07-05	1715	240.719	11.80	45
03-24-05	1330	03-27-05	0905	192.743	4.57	30
03-27-05	0905	03-29-05	0800	408.677	9.62	42
03-29-05	0800	03-31-05	1830	477.200	11.40	52
06-07-05	2300	06-08-05	1345	14.045	0.86	14
06-11-05	0001	06-11-05	0415	11.264	1.89	10
06-11-05	1430	06-11-05	1915	14.677	3.69	11
07-25-05	1550	07-25-05	2230	5.867	0.90	8
09-24-05	2215	09-25-05	1730	18.060	0.56	29

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	12.0	9.0	11.0	9.0	8.0	8.5	5.5	3.0	4.0	3.0	1.5	2.0
2	11.5	8.0	9.5	9.5	7.5	9.0	5.5	3.0	4.0	4.5	2.0	3.5
3	12.0	8.0	10.0	9.5	6.5	8.0	5.5	2.5	4.0	2.5	1.5	2.0
4	10.5	8.0	9.0	9.5	7.0	7.5	7.0	4.0	5.5	3.0	1.5	2.5
5	11.0	7.0	9.0	9.0	6.0	7.5	6.0	4.0	4.5	1.5	1.5	1.5
6	12.5	9.0	10.5	10.0	7.0	8.5	5.5	4.0	5.0	2.5	1.0	1.5
7	12.0	10.0	10.5	9.0	6.0	7.5	6.0	5.5	6.0	2.0	1.0	1.5
8	13.0	10.0	11.5	7.5	5.5	7.0	6.5	5.0	6.0	3.0	2.0	2.5
9	12.5	9.0	10.5	8.5	6.0	7.5	6.5	6.0	6.0	3.5	2.0	3.0
10	12.0	8.5	10.0	9.0	7.0	8.5	6.0	5.5	6.0	2.5	1.0	2.0
11	11.5	8.5	9.5	7.5	5.0	6.0	6.5	5.0	5.5	3.5	1.5	2.5
12	11.0	8.0	9.0	7.0	4.5	5.5	5.5	3.0	4.5	4.0	3.0	3.5
13	10.5	8.5	9.5	7.0	4.0	5.0	3.0	1.5	2.0	3.5	1.0	2.0
14	9.5	9.0	9.0	7.0	4.0	5.5	3.0	1.5	2.0	1.5	0.5	1.0
15	9.5	8.5	9.0	8.5	6.0	7.0	5.0	2.0	3.5	1.5	0.5	1.0
16	8.5	7.5	8.0	8.5	7.5	8.5	5.0	2.5	4.0	1.5	0.5	1.0
17	9.5	7.0	8.0	10.0	8.5	9.0	4.0	1.5	3.0	1.5	0.5	1.0
18	10.0	8.0	9.0	9.5	8.0	8.5	4.5	1.0	3.5	1.5	0.5	1.0
19	9.5	8.5	9.0	8.0	7.5	8.0	1.5	1.0	1.0	2.5	1.5	2.0
20	10.5	9.0	9.5	8.0	6.5	7.5	3.0	1.0	1.5	2.5	2.0	2.5
21	10.5	8.5	9.0	7.5	5.0	6.0	3.0	1.5	2.5	2.5	1.0	2.0
22	11.0	9.0	10.0	7.5	5.5	6.5	2.0	1.0	1.5	3.0	1.0	2.0
23	12.5	10.0	11.0	7.5	4.5	6.0	2.0	0.5	1.0	2.5	1.0	1.5
24	11.5	9.0	10.0	6.5	4.0	5.0	1.5	0.5	1.0	4.0	2.0	3.0
25	11.0	8.5	9.5	6.5	3.5	5.0	3.0	1.5	2.0	4.5	2.5	3.5
26	9.5	8.5	9.0	6.0	4.5	5.5	2.5	1.0	2.0	4.0	1.0	3.0
27	9.5	8.5	9.0	6.0	5.0	5.5	3.0	2.0	2.5	2.5	0.5	1.5
28	10.5	9.5	10.0	6.5	3.5	5.0	4.5	3.0	3.5	2.5	0.5	1.5
29	12.5	10.5	11.5	6.0	3.0	4.5	4.0	3.0	3.5	4.0	2.0	3.0
30	11.5	9.5	10.0	5.5	2.5	3.5	4.5	2.0	3.5	5.0	3.0	4.0
31	10.0	8.5	9.5	---	---	---	4.0	2.0	3.5	5.0	3.5	4.0
MONTH	13.0	7.0	9.7	10.0	2.5	6.8	7.0	0.5	3.5	5.0	0.5	2.2

053793305 TRAVERSE VALLEY CREEK, NORTH TRIBUTARY, NEAR INDEPENDENCE, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.0	3.5	4.0	2.0	0.0	1.0	9.5	3.0	5.5	11.0	5.0	7.0
2	6.0	3.0	4.0	1.0	0.0	0.0	11.5	3.0	6.0	7.0	4.0	5.5
3	6.5	2.0	4.0	1.0	0.0	0.5	12.5	3.5	7.0	14.5	3.5	7.5
4	6.0	0.5	2.5	5.5	0.5	2.5	12.5	4.5	7.5	15.5	4.0	8.5
5	5.0	0.0	1.5	6.0	1.5	2.5	12.0	6.0	8.5	16.0	6.0	10.0
6	1.5	0.0	1.0	5.5	0.0	2.0	13.5	7.0	9.0	18.0	7.5	11.5
7	3.5	1.0	2.0	3.0	0.5	1.5	13.5	6.0	9.0	14.0	7.5	10.0
8	3.5	1.0	2.0	3.0	0.5	1.0	14.0	5.0	8.5	16.5	9.0	12.0
9	3.5	1.0	2.0	3.0	0.5	1.5	13.5	5.5	9.0	17.0	10.5	12.5
10	4.0	1.0	2.0	3.5	0.5	1.5	14.5	7.0	10.0	13.5	9.5	11.5
11	5.0	1.0	2.5	4.0	0.5	2.0	10.0	7.5	9.0	11.5	8.0	10.0
12	5.5	1.0	2.0	2.5	0.0	1.0	8.5	6.0	7.5	8.0	6.0	6.5
13	3.5	1.0	2.0	2.5	0.0	1.0	13.5	4.0	8.0	10.5	6.0	8.0
14	5.0	1.5	3.0	4.5	0.5	1.5	14.5	4.5	8.5	10.5	7.5	8.5
15	4.0	1.0	2.5	5.0	0.5	2.0	14.0	5.0	9.0	12.5	7.0	9.0
16	3.0	0.5	1.5	6.0	0.5	2.0	10.0	7.0	8.0	15.5	6.0	9.5
17	1.0	0.0	0.5	5.5	0.5	2.0	16.0	7.0	10.5	12.5	8.0	9.5
18	0.5	0.0	0.0	1.5	0.5	1.0	16.5	7.5	11.0	12.5	8.0	10.0
19	1.5	0.0	0.5	2.0	0.5	1.5	10.5	8.0	9.5	13.5	9.5	11.0
20	2.0	0.5	1.5	6.5	1.0	3.0	11.0	7.5	10.0	14.5	9.0	11.0
21	3.5	1.0	2.0	7.0	0.5	3.0	14.0	6.0	9.5	14.5	8.0	10.5
22	4.0	0.5	1.5	6.5	0.5	3.0	13.5	5.5	8.5	14.5	8.5	11.5
23	4.0	0.5	2.0	8.5	2.0	4.0	12.0	4.0	7.0	16.5	8.5	11.5
24	4.0	0.5	2.0	7.0	1.5	3.5	13.5	4.0	7.5	19.0	8.0	12.5
25	5.5	1.5	3.0	5.0	1.0	2.0	10.5	5.0	7.5	14.0	8.5	11.0
26	4.0	0.5	1.5	6.0	0.5	2.0	10.0	6.0	7.5	17.0	8.5	11.5
27	2.5	1.0	1.5	4.5	0.0	1.5	8.5	5.0	6.5	15.0	8.5	10.5
28	4.0	0.5	2.0	4.5	1.5	2.0	10.0	4.0	6.5	12.5	8.0	10.0
29	---	---	---	4.5	1.5	2.5	10.5	5.0	7.0	16.5	8.5	11.5
30	---	---	---	6.0	2.5	4.0	10.0	4.0	6.5	17.5	8.0	11.5
31	---	---	---	10.0	3.5	6.0	---	---	---	17.5	8.5	12.0
MONTH	6.5	0.0	2.0	10.0	0.0	2.1	16.5	3.0	8.2	19.0	3.5	10.1
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.5	9.5	12.0	16.5	11.0	13.0	17.0	12.0	14.0	15.0	11.0	12.5
2	18.5	9.0	13.0	17.0	10.0	13.0	17.5	12.0	14.5	14.5	10.5	12.0
3	16.0	9.5	12.5	14.5	11.0	12.5	15.0	13.0	14.0	14.0	10.5	12.0
4	14.0	10.5	12.0	15.0	11.0	12.5	17.0	12.5	14.0	14.0	11.5	12.5
5	16.5	10.5	13.0	16.5	11.0	13.0	16.5	11.5	13.5	15.5	11.5	13.0
6	19.5	10.0	13.5	15.5	11.0	13.0	16.5	11.0	13.0	15.5	12.5	13.5
7	18.5	11.0	13.5	17.0	10.5	13.0	16.5	11.5	13.5	13.0	11.5	12.5
8	15.0	11.0	13.0	15.0	11.0	12.5	15.5	12.0	13.5	13.5	11.0	12.0
9	15.0	10.5	12.5	17.5	11.5	13.5	16.5	12.5	14.0	15.5	11.5	13.0
10	17.0	10.5	13.0	18.0	11.5	14.0	16.5	13.0	14.0	15.5	12.0	13.5
11	17.5	11.5	14.0	17.0	11.5	13.5	13.5	12.0	12.5	15.5	12.0	13.5
12	17.0	11.0	13.0	17.5	11.5	14.0	14.5	12.5	13.0	15.0	12.5	13.5
13	14.0	11.0	12.0	17.5	12.0	14.0	14.5	12.0	13.0	15.0	12.5	13.5
14	16.5	10.5	12.5	17.5	12.0	14.0	15.5	11.0	13.0	14.0	11.0	12.5
15	16.5	10.5	12.5	17.0	12.0	14.0	15.5	10.5	12.5	14.0	10.5	12.0
16	18.0	9.5	12.5	18.0	12.0	14.5	15.0	11.0	13.0	13.5	10.0	11.5
17	18.0	9.5	12.5	18.0	12.0	14.5	15.0	11.5	13.0	13.5	10.0	12.0
18	18.0	9.5	12.5	17.0	12.5	14.5	14.0	12.0	13.0	14.5	11.5	12.5
19	18.5	10.0	13.0	17.0	11.5	13.5	15.0	12.5	13.5	14.5	12.0	12.5
20	18.5	10.5	13.0	16.0	12.0	13.5	16.0	12.0	14.0	15.0	11.0	12.5
21	18.5	11.0	13.5	16.0	12.0	13.5	15.0	11.5	13.0	15.0	11.5	13.0
22	18.5	11.0	13.5	17.5	12.0	14.0	13.5	11.0	12.0	13.5	11.0	12.5
23	19.5	11.5	14.5	15.0	12.5	13.5	14.5	10.0	12.0	13.5	10.0	11.5
24	15.0	12.0	13.5	16.5	13.0	14.5	13.5	10.5	12.0	12.5	11.0	12.0
25	16.0	11.0	13.0	15.5	12.5	13.5	14.0	12.0	13.0	13.5	12.0	13.0
26	15.5	11.5	13.5	14.0	12.0	13.0	13.0	12.0	12.5	13.5	10.5	12.0
27	19.0	11.5	14.5	16.0	11.0	13.0	15.5	11.5	13.0	14.0	10.0	11.5
28	16.5	12.0	14.0	16.5	11.0	13.0	15.0	11.5	12.5	11.5	10.0	11.0
29	15.5	11.5	13.5	16.0	11.5	13.5	15.0	11.5	13.0	12.0	8.5	10.5
30	17.0	12.0	14.0	16.0	11.5	13.5	14.0	11.0	12.5	13.5	10.0	11.0
31	---	---	---	17.0	12.0	14.0	14.5	11.0	12.5	---	---	---
MONTH	19.5	9.0	13.1	18.0	10.0	13.5	17.5	10.0	13.1	15.5	8.5	12.3
YEAR	19.5	0.0	8.1									

053793305 TRAVERSE VALLEY CREEK, NORTH TRIBUTARY, NEAR INDEPENDENCE, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DISCRETE SAMPLES

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat unf mg/L (00500)	Residue total at 105 deg. C, suspended, mg/L (00530)	Residue volatile, suspended, mg/L (00535)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
OCT													
22...	0900	.10	70	8.1	494	245	5.4	330	14	2	<.14	.22	.019
NOV													
22...	0900	.14	70	8.3	495	246	5.0	322	15	3	<.14	.18	<.015
DEC													
13...	1200	.13	70	8.4	495	246	5.4	330	15	--	<.14	<.14	<.015
JAN													
25...	1200	.13	70	8.1	486	241	5.1	314	14	3	.19	.24	.018
FEB													
14...	0930	.12	70	8.2	451	222	5.5	296	20	4	.33	.61	.087
MAR													
04...	1015	.15	70	8.2	487	245	5.1	304	11	<2	<.14	<.14	<.015
APR													
06...	1030	.15	70	8.2	485	237	4.8	312	22	4	<.14	.26	.067
MAY													
11...	1015	.11	70	8.2	496	247	4.8	324	9	<2	<.14	<.14	<.015
JUN													
07...	1000	.10	70	8.2	500	246	4.7	316	7	<2	<.14	<.14	<.015
JUL													
21...	0830	.10	70	8.2	513	253	5.1	340	15	4	.22	.27	<.015
AUG													
15...	1500	.07	70	8.0	505	252	5.1	332	19	4	<.14	.15	<.015
SEP													
07...	1000	.08	70	8.1	506	253	5.1	342	20	4	<.14	<.14	<.015

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED
DISCRETE SAMPLES

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT			
22...	1.97	.016	.035
NOV			
22...	1.99	.017	.037
DEC			
13...	1.98	.025	.046
JAN			
25...	2.05	.016	.031
FEB			
14...	1.89	.108	.146
MAR			
04...	1.96	.017	.027
APR			
06...	1.88	.029	.063
MAY			
11...	1.81	.012	.023
JUN			
07...	1.71	.014	.050
JUL			
21...	1.70	.012	.039
AUG			
15...	1.76	.016	.048
SEP			
07...	1.74	.016	.043

053793305 TRAVERSE VALLEY CREEK, NORTH TRIBUTARY, NEAR INDEPENDENCE, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
COMPOSITE SAMPLES

Date	End date	Time	End time	Sampling method, code (82398)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat unf mg/L (00500)	Residue total at 105 deg. C, suspended, mg/L (00530)	Residue volatile, suspended, mg/L (00535)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
OCT 28-28	20041028	1629	2108	50	7.8	311	145	4.5	715	476	22	.46	3.5
DEC 30-30	20041230	1604	2304	50	6.8	391	132	32.5	696	450	90	3.3	8.6
FEB 04-06	20050206	1606	1539	50	7.2	177	67	6.2	520	359	55	3.2	6.2
FEB 12-13	20050213	1217	2032	50	7.5	238	97	7.6	384	150	37	3.7	7.0
MAR 05-06	20050306	1520	0930	50	7.5	298	128	5.8	400	210	42	4.0	6.3
MAR 06-07	20050307	1201	1407	50	7.1	170	71	3.3	982	868	104	2.8	7.3
MAR 24-27	20050327	1659	0210	50	7.6	217	94	3.4	462	380	68	2.1	3.6
MAR 27-29	20050329	1059	0424	50	7.3	164	72	2.6	1,560	1,670	220	1.9	5.9
MAR 29-31	20050331	0959	1138	50	7.5	177	78	2.9	986	1,140	98	1.9	4.5
JUN 07-08	20050608	2335	1336	50	8.2	429	210	4.3	428	168	26	.14	1.1
JUN 11-11	20050611	0054	0324	50	8.0	268	126	3.1	646	468	64	.66	3.2
JUN 11-11	20050611	1456	1718	50	7.9	261	123	3.1	784	600	72	.54	3.6
JUL 25-25	20050725	1642	2327	50	8.1	430	220	4.6	2,060	1,610	260	.34	8.6
SEP 25-25	20050925	0113	1443	50	8.3	429	205	6.0	458	178	38	.57	2.0

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED
COMPOSITE SAMPLES

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Runoff volume, thousands of cubic feet (99904)
OCT 28-28	.042	1.56	.218	.865	487	8.185
DEC 30-30	.794	2.03	.319	1.47	432	23.733
FEB 04-06	1.98	.735	.729	1.25	415	397.59
FEB 12-13	1.71	.707	.718	1.28	183	80.683
MAR 05-06	2.23	1.54	.831	1.30	201	20.240
MAR 06-07	1.60	.592	.645	1.48	890	240.72
MAR 24-27	1.11	.984	.496	.807	326	192.74
MAR 27-29	.910	.484	.453	1.38	1,370	408.68
MAR 29-31	1.21	.365	.247	.961	1,070	477.20
JUN 07-08	.032	1.44	.058	.263	--	14.045
JUN 11-11	.093	1.07	.167	.663	--	11.264
JUN 11-11	.093	1.07	.194	.834	--	14.677
JUL 25-25	.017	1.26	.057	2.61	--	5.867
SEP 25-25	.131	1.45	.157	.449	179	18.060

053793306 TRAVERSE VALLEY CREEK, SOUTH TRIBUTARY, NEAR INDEPENDENCE, WI

LOCATION.--Lat 44°23'44", long 91°33'13" in SE $^1/_4$ SE $^1/_4$ sec.11, T.22 N., R.10 W., Buffalo County, Hydrologic Unit 07040005, 1,300 ft upstream of confluence with north unnamed tributary at family farm, 6.7 mi west-northwest of Independence.

DRAINAGE AREA.--0.35 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 2001 to current year.

GAGE.--Water-stage recorder. Water levels are controlled by a 3.0 ft H flume. Elevation of gage is 965 ft above NGVD of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.033	0.025	0.021	0.020	0.017	0.017	0.101	0.024	0.021	0.022	0.019	0.022
2	0.022	0.023	0.020	0.021	0.019	0.017	0.058	0.023	0.022	0.022	0.020	0.022
3	0.023	0.023	0.020	0.018	0.089	0.017	0.049	0.024	0.022	0.022	0.020	0.022
4	0.021	0.022	0.022	0.017	0.249	0.103	0.047	0.026	0.023	0.022	0.019	0.023
5	0.021	0.022	0.021	0.016	0.569	0.153	0.045	0.027	0.025	0.022	0.019	0.022
6	0.023	0.023	0.021	0.016	1.16	1.09	0.045	0.028	0.024	0.022	0.018	0.022
7	0.023	0.022	0.022	0.016	0.055	0.169	0.039	0.026	0.027	0.021	0.017	0.029
8	0.027	0.020	0.022	0.016	0.017	0.020	0.038	0.028	0.045	0.021	0.017	0.019
9	0.024	0.021	0.023	0.016	0.013	0.016	0.037	0.028	0.029	0.021	0.023	0.020
10	0.023	0.022	0.026	0.016	0.013	0.019	0.036	0.027	0.025	0.026	0.019	0.020
11	0.022	0.020	0.025	0.016	0.055	0.016	0.034	0.024	0.074	0.022	0.020	0.020
12	0.021	0.018	0.024	0.017	0.112	0.014	0.033	0.028	0.036	0.020	0.020	0.021
13	0.022	0.018	0.020	0.016	0.163	0.014	0.031	0.024	0.030	0.022	0.019	0.029
14	0.022	0.018	0.019	0.014	0.065	0.025	0.030	0.022	0.030	0.021	0.018	0.022
15	0.022	0.020	0.020	0.014	0.033	0.024	0.029	0.021	0.027	0.021	0.018	0.020
16	0.021	0.021	0.020	0.014	0.017	0.031	0.032	0.022	0.026	0.021	0.018	0.020
17	0.021	0.022	0.019	0.014	0.016	0.032	0.033	0.024	0.026	0.022	0.019	0.020
18	0.021	0.021	0.020	0.014	0.015	0.014	0.033	0.027	0.024	0.025	0.024	0.020
19	0.021	0.027	0.017	0.014	0.016	0.013	0.036	0.031	0.024	0.021	0.022	0.024
20	0.021	0.026	0.018	0.015	0.016	0.015	0.033	0.028	0.026	0.021	0.030	0.019
21	0.021	0.023	0.018	0.016	0.016	0.023	0.030	0.027	0.025	0.023	0.021	0.019
22	0.020	0.023	0.016	0.021	0.016	0.026	0.028	0.026	0.025	0.022	0.020	0.025
23	0.020	0.023	0.016	0.021	0.016	0.146	0.026	0.025	0.026	0.025	0.020	0.020
24	0.019	0.021	0.016	0.021	0.016	0.331	0.026	0.024	0.025	0.021	0.020	0.021
25	0.018	0.021	0.016	0.024	0.017	0.286	0.026	0.024	0.024	0.033	0.020	0.047
26	0.018	0.021	0.016	0.023	0.017	0.299	0.027	0.023	0.024	0.022	0.023	0.023
27	0.018	0.024	0.017	0.017	0.017	0.542	0.025	0.022	0.026	0.020	0.021	0.022
28	0.026	0.023	0.018	0.015	0.017	1.29	0.025	0.021	0.027	0.020	0.021	0.024
29	0.029	0.022	0.018	0.016	---	2.73	0.026	0.021	0.025	0.020	0.021	0.021
30	0.028	0.021	0.035	0.017	---	2.02	0.024	0.022	0.024	0.019	0.020	0.020
31	0.025	---	0.026	0.018	---	0.463	---	0.021	---	0.019	0.021	---
TOTAL	0.696	0.656	0.632	0.529	2.841	9.975	1.082	0.768	0.837	0.681	0.627	0.678
MEAN	0.02	0.02	0.02	0.02	0.10	0.32	0.04	0.02	0.03	0.02	0.02	0.02
MAX	0.033	0.027	0.035	0.024	1.16	2.73	0.101	0.031	0.074	0.033	0.030	0.047
MIN	0.018	0.018	0.016	0.014	0.013	0.013	0.024	0.021	0.021	0.019	0.017	0.019
CFSM	0.06	0.06	0.06	0.05	0.29	0.92	0.10	0.07	0.08	0.06	0.06	0.06
IN.	0.07	0.07	0.07	0.06	0.30	1.06	0.12	0.08	0.09	0.07	0.07	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	0.03	0.03	0.03	0.02	0.05	0.19	0.04	0.04	0.07	0.03	0.03	0.03
MAX	0.06	0.05	0.04	0.03	0.10	0.32	0.06	0.06	0.13	0.06	0.05	0.05
(WY)	(2003)	(2002)	(2002)	(2002)	(2005)	(2005)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)
MIN	0.01	0.02	0.02	0.01	0.02	0.06	0.02	0.02	0.03	0.02	0.02	0.02
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2002)	(2004)	(2005)	(2003)	(2005)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2001 - 2005
ANNUAL TOTAL	15.595	20.002	
ANNUAL MEAN	0.04	0.05	0.05
HIGHEST ANNUAL MEAN			0.06 2002
LOWEST ANNUAL MEAN			0.04 2004
HIGHEST DAILY MEAN	1.53 Mar 25	2.73 Mar 29	2.73 Mar 29, 2005
LOWEST DAILY MEAN	0.008 (a)Jan 29	0.013 Feb 9	0.008 (a)Jan 29, 2004
ANNUAL SEVEN-DAY MINIMUM	0.01 Feb 11	0.01 Jan 14	0.01 Feb 11, 2004
MAXIMUM PEAK FLOW		9.1 Mar 29	32 Jun 3, 2002
MAXIMUM PEAK STAGE		1.78 Mar 29	3.04 Jun 3, 2002
INSTANTANEOUS LOW FLOW		0.01 Jan 17	0.01 (b)Jan 17, 2005
ANNUAL RUNOFF (CFSM)	0.122	0.157	0.141
ANNUAL RUNOFF (INCHES)	1.66	2.13	1.92
10 PERCENT EXCEEDS	0.06	0.04	0.06
50 PERCENT EXCEEDS	0.02	0.02	0.03
90 PERCENT EXCEEDS	0.01	0.02	0.01

053793306 TRAVERSE VALLEY CREEK, SOUTH TRIBUTARY, NEAR INDEPENDENCE, WI—Continued

(a) Also occurred Jan. 30, Feb. 14-17, 2004
(b) Also occurred Jan. 30, 2004

053793306 TRAVERSE VALLEY CREEK, SOUTH TRIBUTARY, NEAR INDEPENDENCE, WI—Continued

PRECIPITATION QUANTITY

PERIOD OF RECORD.--September 2001 to current year.

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Rainfall for Jul. 17-Aug. 10 and Sept. 7-11 estimated from Traverse Valley Creek North Tributary near Independence, WI (053793305) due to equipment malfunction. Rainfall estimated to be 0.00 for Nov. 28, Dec. 1, 4, Jan. 19, 24-26, Feb. 11, 14, 27-28 and Mar. 10, 19 because recorded precipitation was interpreted as collector snowmelt.

EXTREMES FOR PERIOD OF RECORD.-- Maximum daily rainfall, 2.69 in. (estimated), Jun. 8, 2004.

EXTREMES FOR CURRENT YEAR.-- Maximum daily rainfall, 1.96 in., Jun. 11.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.29	0.08	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00
2	0.02	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	e0.00	0.15
4	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	e0.00	0.02
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	e0.00	0.00
6	0.00	0.00	0.01	0.00	0.10	0.00	0.25	0.00	0.00	0.00	e0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00	e0.00	e0.94
8	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.12	e0.00	e0.11
9	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.11	0.00	0.00	e0.89	e0.00
10	0.00	0.06	0.10	0.00	0.00	e0.00	0.00	0.02	0.01	0.00	e0.00	e0.01
11	0.00	0.00	0.00	0.00	e0.00	0.00	0.03	0.08	1.96	0.00	0.54	e0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.21	1.07	0.00	0.00	0.00	0.36
13	0.23	0.00	0.00	0.00	0.11	0.00	0.00	0.08	0.03	0.00	0.00	1.06
14	0.11	0.00	0.00	0.00	e0.00	0.00	0.00	0.13	0.36	0.00	0.00	0.00
15	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
16	0.05	0.00	0.00	0.00	0.00	0.00	0.52	0.30	0.00	0.00	0.00	0.00
17	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	e0.62	0.00	0.01
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	e0.22	0.81	0.00
19	0.00	0.89	0.00	e0.00	0.00	e0.00	0.48	0.13	0.00	e0.00	0.16	0.27
20	0.00	0.04	0.00	0.00	0.11	0.00	0.00	0.00	0.23	e0.18	0.69	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.03	0.00	0.29
22	0.04	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	e0.00	0.00	0.31
23	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.73	0.00	0.00
24	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.47
25	0.00	0.00	0.00	e0.00	0.00	0.00	0.09	0.14	0.00	e1.26	0.00	1.56
26	0.27	0.17	0.00	e0.00	0.00	0.00	0.19	0.00	0.01	e0.02	0.73	0.07
27	0.05	0.44	0.00	0.00	e0.00	0.00	0.09	0.17	0.76	e0.00	0.01	0.00
28	0.67	e0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	e0.27	0.00	0.49
29	0.41	0.00	0.00	0.00	---	0.00	0.00	0.00	0.03	e0.00	0.00	0.00
30	0.10	0.00	0.16	0.00	---	0.26	0.00	0.00	0.04	e0.00	0.00	0.00
31	0.01	---	0.00	0.00	---	0.11	---	0.00	---	e0.00	0.02	---
TOTAL	4.01	1.68	0.50	0.02	0.32	0.37	1.90	2.91	6.27	3.49	3.85	6.12

CAL YR 2004 TOTAL 39.19
WTR YR 2005 TOTAL 31.44

(e) Estimated

053793306 TRAVERSE VALLEY CREEK, SOUTH TRIBUTARY, NEAR INDEPENDENCE, WI—Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--October 2001 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 2001 to current year.

INSTRUMENTATION.--Continuous water temperature recorder and water-quality sampler October 2001 to current year.

REMARKS.--Records represent water temperature at sensor within 0.5°C. Chemical analyses by the Wisconsin State Laboratory of Hygiene. Samples collected during periods of non-stormflow are grab samples. Samples during storms are composite samples collected by an automatic point sampler. The sample runoff volume is the total flow that occurs between the first and last subsample of each flow-composite sample. The storm runoff volume is the total flow that occurs between the start of the storm and the end of the storm. In most cases, the sample runoff volume is slightly different than the storm runoff volume. If the sample runoff volume and the storm runoff volume are comparable, a storm load (in pounds) can be computed by multiplying the storm volume (in thousands of cubic feet) by the constituent concentration (in mg/L) by a factor of 0.0624.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum temperature, 20.0°C, July 2, 12, 2004; minimum, 0.0°C, many days.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum temperature, 19.5°C, Jun. 11; minimum, 0.0°C, Feb. 3-6, 12-13, Mar. 5-7, 18, 23-28.

STORM VOLUMES AND SAMPLE SUMMARY, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Storm Beginning Date	Storm Beginning Time	Storm Ending Date	Storm Ending Time	Storm Volume, Thousands of Cubic Feet	Peak Discharge (CFS)	Number of Subsamples
10-28-04	1545	10-28-04	1920	0.775	0.13	5
12-30-04	1415	12-30-04	2345	2.007	0.12	11
02-04-05	1330	02-06-05	0112	75.112	2.85	60
02-06-05	0737	02-06-05	1830	42.924	1.86	26
02-12-05	1145	02-13-05	2000	21.012	0.94	8
03-05-05	1400	03-05-05	1900	9.303	0.93	10
03-06-05	1100	03-06-05	2100	86.981	5.50	38
03-06-05	2100	03-07-05	1715	19.091	0.57	7
03-23-05	1530	03-27-05	1100	92.064	1.59	51
03-27-05	1100	03-29-05	0800	164.893	4.92	56
03-29-05	0800	03-31-05	1700	438.101	9.10	46
06-07-05	2300	06-08-05	1200	2.509	0.19	10
06-11-05	0005	06-11-05	0345	1.595	0.55	6
06-11-05	1430	06-11-05	1745	2.069	1.08	7
07-25-05	1550	07-25-05	2230	1.539	0.19	5
09-24-05	2215	09-25-05	1215	3.046	0.11	12

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	11.5	8.5	10.0	9.5	8.0	8.5	6.5	5.0	5.5	5.5	2.0	4.0
2	10.0	8.0	9.0	9.5	8.0	9.0	6.5	4.5	5.5	5.5	4.0	4.5
3	10.5	8.0	9.0	9.0	7.0	8.0	6.5	4.5	5.5	4.5	3.5	4.0
4	9.5	7.5	8.5	9.0	7.5	8.0	7.0	5.5	6.5	5.0	4.0	4.5
5	10.0	7.0	8.5	9.0	7.0	8.0	7.0	5.5	6.0	4.0	3.5	4.0
6	10.5	8.5	9.5	9.5	7.5	8.5	6.5	6.0	6.5	4.5	3.0	4.0
7	10.5	9.0	10.0	8.5	6.5	8.0	7.0	6.5	6.5	4.5	3.0	4.0
8	11.0	9.0	10.0	8.0	6.5	7.5	7.5	6.5	7.0	5.0	4.0	4.5
9	10.5	8.5	9.5	8.5	6.5	8.0	7.0	7.0	7.0	5.0	4.0	4.5
10	10.0	8.0	9.0	9.0	7.5	8.5	7.0	6.5	7.0	4.5	3.0	4.0
11	10.0	8.0	9.0	8.0	6.0	7.0	7.0	6.5	6.5	5.0	3.5	4.5
12	10.0	8.0	8.5	7.5	5.5	6.0	7.0	5.0	6.0	5.5	5.0	5.5
13	10.0	8.0	9.0	7.5	5.5	6.0	5.0	4.0	4.5	5.0	2.0	3.5
14	9.0	9.0	9.0	7.5	5.5	6.5	5.0	4.0	4.5	3.0	1.5	2.0
15	9.5	8.5	9.0	8.5	7.0	7.5	6.0	4.5	5.5	3.0	2.0	2.5
16	8.5	8.0	8.5	8.5	8.0	8.5	6.0	4.5	5.5	3.5	2.5	2.5
17	9.0	7.5	8.5	9.5	8.0	8.5	5.5	4.0	5.0	3.0	2.5	2.5
18	9.5	8.5	9.0	9.0	8.0	8.5	6.0	3.0	5.0	4.5	2.5	3.5
19	9.5	8.5	9.0	8.5	8.0	8.0	4.0	2.5	3.5	4.5	4.0	4.0
20	10.0	8.5	9.5	8.5	7.0	8.0	5.0	3.5	4.5	4.5	3.5	4.0
21	10.0	8.5	9.0	7.5	6.5	7.0	5.0	3.0	4.0	4.0	1.5	3.5
22	10.5	9.0	9.5	8.0	6.5	7.5	3.5	3.0	3.0	3.5	1.5	3.0
23	10.5	9.5	10.0	8.0	6.0	7.0	3.5	2.5	3.0	3.5	1.5	2.5
24	10.0	8.5	9.0	7.0	5.5	6.0	4.0	2.5	3.5	4.0	3.0	3.5
25	10.0	8.0	9.0	7.0	5.5	6.5	5.0	3.5	4.5	4.5	3.5	4.0
26	9.0	8.5	9.0	7.0	6.0	6.5	4.5	3.0	3.5	4.0	2.0	3.0
27	9.5	9.0	9.0	7.0	6.0	6.5	5.0	4.0	4.5	3.5	1.5	2.5
28	10.0	9.5	9.5	7.0	5.5	6.0	6.0	4.5	5.0	4.5	2.5	3.5
29	11.0	10.0	10.5	7.0	5.0	6.0	5.5	5.0	5.0	5.5	4.0	4.5
30	10.0	9.0	9.5	6.5	5.0	5.5	6.0	2.0	4.5	6.0	4.5	5.0
31	9.5	8.5	9.0	---	---	---	4.5	3.5	4.0	6.0	4.5	5.0
MONTH	11.5	7.0	9.2	9.5	5.0	7.4	7.5	2.0	5.1	6.0	1.5	3.8

053793306 TRAVERSE VALLEY CREEK, SOUTH TRIBUTARY, NEAR INDEPENDENCE, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.0	4.5	5.0	4.5	2.0	3.0	7.0	2.5	4.5	10.0	5.5	7.0
2	6.0	4.0	5.0	5.0	2.0	3.0	8.5	4.0	5.5	7.5	5.0	6.0
3	5.5	0.0	3.0	5.5	2.0	3.5	9.0	4.5	6.0	12.0	4.5	7.5
4	4.5	0.0	1.5	6.5	0.0	3.0	10.0	5.0	7.0	12.5	5.0	8.0
5	3.5	0.0	1.0	6.0	0.0	2.5	9.5	5.5	7.0	13.0	6.0	9.0
6	1.0	0.0	0.0	5.5	0.0	1.5	10.5	6.5	7.5	14.5	7.0	10.0
7	2.5	1.0	2.0	2.0	0.0	1.0	10.5	5.5	7.5	12.0	7.0	9.0
8	4.0	2.5	3.5	5.0	2.0	3.0	11.0	5.5	7.5	13.5	8.0	10.0
9	4.5	3.0	4.0	5.0	2.5	3.5	11.0	6.0	8.0	14.0	9.0	10.5
10	4.5	3.5	4.0	6.0	2.5	4.0	12.0	6.5	8.5	12.0	8.5	9.5
11	5.5	0.5	3.0	5.5	2.5	4.0	9.0	7.0	8.0	10.0	7.5	9.0
12	5.5	0.0	2.5	5.0	2.0	3.0	8.0	6.0	7.0	7.5	6.0	6.5
13	4.5	0.0	2.5	5.5	2.0	3.5	11.0	5.0	7.5	9.5	6.5	8.0
14	4.0	1.0	2.5	6.5	1.0	3.0	11.5	5.0	8.0	9.5	7.5	8.0
15	5.0	1.5	3.0	6.5	1.5	3.5	11.5	5.5	8.0	10.5	7.0	8.5
16	5.0	3.0	3.5	6.5	1.0	3.5	9.0	6.5	7.5	13.0	6.0	8.5
17	3.5	2.5	3.0	6.5	1.0	3.0	12.5	7.0	9.0	11.0	8.0	9.0
18	4.0	2.0	3.0	3.5	0.0	2.0	13.5	7.0	9.5	10.5	7.5	9.0
19	5.0	2.5	3.5	5.5	3.5	4.5	9.5	7.5	8.5	11.5	8.5	9.5
20	5.0	3.0	4.0	6.0	3.0	4.5	10.0	7.0	8.5	12.0	8.0	9.5
21	5.0	3.0	4.0	6.5	1.5	3.5	11.5	6.5	8.5	12.5	7.5	9.0
22	5.0	2.5	3.5	6.0	1.5	3.5	12.0	6.0	8.0	13.0	8.0	10.0
23	5.0	3.0	3.5	7.0	0.0	3.0	11.0	5.0	7.5	13.5	8.0	9.5
24	5.5	2.5	4.0	4.5	0.0	1.5	12.0	5.0	7.5	15.0	7.5	10.5
25	6.0	3.0	4.5	3.5	0.0	1.0	10.0	6.0	7.5	12.0	8.0	9.5
26	5.0	2.5	3.5	6.0	0.0	1.5	10.0	6.5	7.5	14.0	8.0	10.0
27	5.0	3.5	4.5	7.0	0.0	1.5	8.5	6.0	6.5	13.0	8.0	9.5
28	5.0	3.0	4.0	5.5	0.0	1.5	9.5	5.0	7.0	11.0	8.0	9.0
29	---	---	---	2.0	0.5	1.0	9.5	5.5	7.0	13.5	8.0	10.0
30	---	---	---	2.5	0.5	1.5	9.0	5.0	6.5	14.5	7.5	10.0
31	---	---	---	5.0	1.5	3.0	---	---	---	14.5	8.0	10.0
MONTH	6.0	0.0	3.2	7.0	0.0	2.7	13.5	2.5	7.5	15.0	4.5	9.0
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.5	8.5	10.0	12.5	9.5	11.0	13.0	10.5	11.5	12.0	10.0	11.0
2	14.5	8.5	11.0	13.0	9.0	10.5	13.0	10.5	12.0	12.0	10.0	11.0
3	13.0	8.5	10.0	12.0	10.0	10.5	12.5	11.0	11.5	11.5	9.5	10.5
4	12.0	9.0	10.0	12.0	10.0	10.5	13.0	10.5	12.0	12.0	10.5	11.0
5	13.5	9.0	10.5	13.0	9.5	10.5	12.5	10.5	11.5	12.5	10.5	11.5
6	15.0	9.0	11.0	12.5	10.0	10.5	12.5	10.0	11.0	12.5	11.0	11.5
7	14.0	9.0	11.0	12.5	9.5	11.0	13.0	10.0	11.5	12.5	10.5	11.5
8	12.5	9.5	11.0	12.0	9.5	10.5	12.5	10.5	11.5	12.0	10.5	11.0
9	12.0	9.5	10.5	13.0	10.0	11.0	14.5	11.0	12.0	12.5	10.5	11.5
10	13.0	9.5	10.5	13.5	10.0	11.5	12.5	11.0	11.5	12.5	11.0	11.5
11	19.5	10.0	12.0	13.0	10.0	11.0	12.0	11.0	11.5	12.5	11.0	11.5
12	13.5	9.5	11.0	13.0	10.0	11.0	12.5	11.0	11.5	13.0	11.0	11.5
13	11.5	9.5	10.5	13.0	10.0	11.5	12.0	10.5	11.0	14.0	11.0	12.0
14	13.5	9.5	10.5	13.0	10.5	11.5	12.0	10.0	11.0	11.5	10.0	11.0
15	12.5	9.0	10.5	13.0	10.5	11.5	12.0	10.0	11.0	11.5	9.5	10.5
16	13.0	9.0	10.5	14.0	10.5	12.0	12.0	10.0	11.0	11.5	9.5	10.5
17	13.0	9.0	10.5	14.0	10.5	12.0	12.0	10.5	11.0	11.5	9.5	10.5
18	13.0	8.5	10.5	14.0	10.5	12.0	13.0	11.0	11.5	12.0	10.5	11.0
19	13.5	9.0	10.5	13.0	10.0	11.5	12.5	11.5	11.5	12.5	10.5	11.0
20	13.5	9.5	10.5	12.5	10.5	11.5	14.5	10.5	12.0	12.0	10.5	11.0
21	13.5	9.5	11.0	12.5	10.5	11.5	12.0	10.5	11.0	12.5	10.5	11.0
22	13.5	9.5	11.0	13.0	10.5	11.5	11.5	10.0	10.5	12.0	10.0	11.0
23	14.0	10.0	11.5	14.0	10.5	11.5	12.0	9.5	10.5	11.5	9.5	10.5
24	12.0	10.0	11.0	13.0	11.0	12.0	11.5	10.0	10.5	11.0	10.0	11.0
25	12.5	10.0	10.5	16.5	11.0	12.0	12.0	10.5	11.0	13.0	11.0	12.0
26	12.0	10.0	11.0	13.0	10.5	11.5	12.0	11.0	11.5	11.5	10.0	11.0
27	13.5	10.0	11.5	12.0	10.0	11.0	12.5	10.5	11.5	11.5	9.5	10.5
28	12.5	10.5	11.5	12.5	10.0	11.0	12.0	10.5	11.0	11.0	9.5	10.5
29	12.0	10.0	11.0	12.5	10.5	11.0	12.0	10.5	11.0	10.5	9.0	10.0
30	13.5	10.5	11.5	12.5	10.5	11.5	11.5	10.0	11.0	11.0	9.5	10.5
31	---	---	---	13.0	10.5	11.5	12.0	10.0	11.0	---	---	---
MONTH	19.5	8.5	10.8	16.5	9.0	11.3	14.5	9.5	11.3	14.0	9.0	11.0
YEAR	19.5	0.0	7.7									

053793306 TRAVERSE VALLEY CREEK, SOUTH TRIBUTARY, NEAR INDEPENDENCE, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DISCRETE SAMPLES

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unf lab, uS/cm 25 degC (90095)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat unf mg/L (00500)	Residue total at 105 deg. C, suspended, mg/L (00530)	Residue volatile, suspended, mg/L (00535)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
OCT													
22...	0920	.02	70	8.2	512	259	5.6	314	<2	<2	<.14	<.14	.019
NOV													
22...	0930	.02	70	8.3	517	261	5.9	312	<2	<2	<.14	<.14	<.015
DEC													
13...	1230	.02	70	8.3	517	260	5.5	320	3	--	<.14	<.14	<.015
JAN													
25...	1220	.02	70	8.1	496	252	5.3	308	8	<2	.36	.50	.092
FEB													
14...	1200	.04	70	8.1	447	218	6.8	282	2	<2	.79	.82	.266
MAR													
04...	1000	.02	70	8.1	507	258	5.2	304	<2	<2	<.14	<.14	.013
APR													
06...	0945	.06	70	8.0	519	255	6.7	335	4	M	.15	.24	.085
MAY													
11...	1030	.02	70	8.1	512	257	5.0	320	2	<2	<.14	<.14	.015
JUN													
07...	1030	.03	70	8.1	521	258	5.0	320	4	<2	<.14	.18	<.015
JUL													
21...	0840	.02	70	8.2	525	261	5.5	342	12	2	.37	.25	.021
AUG													
15...	1530	.02	70	7.9	514	259	5.1	320	4	<2	.14	<.14	<.015
SEP													
07...	1015	.02	70	7.9	495	239	8.7	368	48	13	.28	.98	.057

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED
DISCRETE SAMPLES

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
OCT			
22...	1.26	.023	.036
NOV			
22...	1.27	.021	.036
DEC			
13...	1.29	.027	.041
JAN			
25...	1.26	.068	.093
FEB			
14...	1.21	.228	.226
MAR			
04...	1.35	.019	.027
APR			
06...	1.30	.032	.058
MAY			
11...	1.24	.019	.036
JUN			
07...	1.22	.024	.027
JUL			
21...	1.30	.023	.066
AUG			
15...	1.29	.024	.040
SEP			
07...	1.28	.096	.354

053793306 TRAVERSE VALLEY CREEK, SOUTH TRIBUTARY, NEAR INDEPENDENCE, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
COMPOSITE SAMPLES

Date	End date	Time	End time	Sampling method, code (82398)	pH, water, unfltrd lab, std units (00403)	Specif. conduc-tance, wat unf lab, uS/cm 25 degC (90095)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Chlor-ide, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat unf mg/L (00500)	Residue total at 105 deg. C, sus-pended, mg/L (00530)	Residue vola-tile, sus-pended, mg/L (00535)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
OCT													
28-28	20041028	1620	1852	50	8.2	440	207	9.6	350	59	12	.56	.91
DEC													
30-30	20041230	1618	2343	50	7.7	433	184	15.5	348	52	16	1.4	2.8
FEB													
03-06	20050206	1525	0112	50	7.7	222	72	16.7	314	146	25	2.6	3.7
FEB													
06-07	20050207	0737	0837	50	7.8	185	66	9.1	174	42	11	2.5	3.2
FEB													
11-14	20050214	1849	0242	50	7.9	272	113	9.9	310	47	16	2.2	3.8
MAR													
05-06	20050306	1439	0039	50	7.6	196	83	4.3	262	99	17	2.1	3.2
MAR													
06-06	20050306	1220	1547	50	6.9	234	77	15.0	628	471	81	6.1	12
MAR													
06-07	20050307	2009	1517	50	7.3	249	98	7.5	220	40	15	4.2	6.4
MAR													
23-27	20050327	1613	0322	50	7.6	180	75	4.4	264	130	16	1.7	2.5
MAR													
27-29	20050329	1308	0715	50	7.3	214	81	6.8	430	280	40	5.8	7.7
MAR													
29-31	20050331	1015	1148	50	7.3	120	49	2.2	386	290	38	1.9	3.3
JUN													
07-08	20050608	2326	1058	50	8.2	454	225	5.1	336	52	10	.43	.91
JUN													
11-11	20050611	0049	0311	50	8.0	344	168	4.3	448	200	28	.70	1.9
JUN													
11-11	20050611	1451	1656	50	7.8	289	137	3.8	930	720	88	.75	3.9
JUL													
25-25	20050725	1659	2235	50	8.1	466	227	7.6	466	121	17	1.2	1.5
SEP													
25-25	20050925	0300	1117	50	8.4	448	219	6.4	330	39	8	.47	.80

053793306 TRAVERSE VALLEY CREEK, SOUTH TRIBUTARY, NEAR INDEPENDENCE, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED
COMPOSITE SAMPLES

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Runoff volume, thousands of cubic feet (99904)
OCT 28-28	.044	1.11	.166	.416	--	.775
DEC 30-30	.294	1.52	.208	.609	49	2.007
FEB 03-06	1.43	.924	.961	1.27	157	75.112
FEB 06-07	1.26	.768	.844	.950	47	42.924
FEB 11-14	.689	.915	.521	.742	59	21.012
MAR 05-06	.906	.658	.563	.804	106	9.303
MAR 06-06	2.49	.415	1.44	2.64	426	86.981
MAR 06-07	2.29	.873	1.45	1.84	39	19.091
MAR 23-27	.603	.523	.435	.646	125	92.064
MAR 27-29	3.49	.312	2.48	3.03	281	164.89
MAR 29-31	1.17	.394	.696	1.11	300	438.10
JUN 07-08	.131	.888	.082	.245	--	2.509
JUN 11-11	.120	.752	.262	.819	--	1.595
JUN 11-11	.117	1.14	.338	1.80	--	2.069
JUL 25-25	.132	.981	.130	.429	--	1.539
SEP 25-25	.023	.837	.236	.410	41	3.046

442405091333300 TRAVERSE VALLEY CREEK TRIBUTARY, RAIN GAGE #1, NEAR INDEPENDENCE, WI

LOCATION.--Lat 44°24'05", long 91°33'33", in SE $^1/_4$ NW $^1/_4$ (revised) sec.11, T.22 N., R.10 W., Buffalo County, Hydrologic Unit 07040005, at hilltop of point 0.5 mi northwest of family farm and 7.0 mi west-northwest of Independence.

PERIOD OF RECORD.--May 2002 to current year.

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Rainfall estimated on Oct. 1-7, Dec. 18-24 and Mar. 1-Jun. 7 from Traverse Valley Creek Tributary Rain Gage #2 (442436091331800) due to equipment malfunctions. Rainfall estimated to be 0.00 for Nov. 28, Jan. 12, 24-25, and Feb. 11, 14, 24-25 because recorded precipitation interpreted as collector snowmelt.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 2.69 in., Jun. 8, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 1.59 in., Sept. 25.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.25	0.10	0.00	0.05	0.00	e0.02	e0.00	e0.00	e0.00	0.00	0.00	0.00
2	e0.00	0.01	0.00	0.00	0.00	e0.02	e0.00	e0.01	e0.00	0.00	0.00	0.00
3	e0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	e0.00	0.04	0.00	0.00
4	e0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	e0.35	0.00	0.00	0.00
5	e0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	e0.38	0.00	0.00	0.00
6	e0.00	0.00	0.06	0.00	0.12	e0.00	e0.08	e0.01	e0.00	0.00	0.00	0.00
7	e0.02	0.00	0.02	0.00	0.00	e0.00	e0.00	e0.00	e0.92	0.00	0.00	e1.13
8	0.55	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.02	0.93	0.05	0.00	0.11
9	0.00	0.00	0.26	0.00	0.00	e0.00	e0.00	e0.13	0.00	0.00	0.65	0.01
10	0.00	0.05	0.12	0.00	0.00	e0.24	e0.01	e0.01	0.01	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	e0.00	e0.04	e0.04	e0.03	1.35	0.00	0.55	0.00
12	0.00	0.00	0.00	e0.00	0.00	e0.01	e0.35	e1.36	0.00	0.00	0.00	0.33
13	0.29	0.00	0.00	0.00	0.13	e0.03	e0.00	e0.09	0.10	0.00	0.00	0.98
14	0.12	0.00	0.00	0.00	e0.00	e0.00	e0.00	e0.13	0.31	0.00	0.00	0.00
15	0.09	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.05	0.00	0.00	0.00	0.00
16	0.02	0.01	0.00	0.00	0.00	e0.00	e0.59	e0.35	0.00	0.00	0.00	0.00
17	0.02	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.23	0.00	0.50	0.00	0.00
18	0.00	0.01	e0.00	0.00	0.00	e0.00	e0.00	e0.65	0.00	0.24	0.99	0.00
19	0.00	1.14	e0.00	0.00	0.00	e0.28	e0.55	e0.16	0.00	0.00	0.16	0.26
20	0.00	0.03	e0.00	0.00	0.04	e0.27	e0.00	e0.00	0.24	0.20	0.50	0.00
21	0.00	0.00	e0.00	0.00	0.00	e0.01	e0.00	e0.00	0.00	0.01	0.00	0.23
22	0.10	0.00	e0.00	0.00	0.00	e0.00	e0.05	e0.00	0.00	0.00	0.00	0.30
23	0.06	0.00	e0.00	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.73	0.00	0.00
24	0.00	0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.52
25	0.00	0.00	0.00	e0.00	e0.00	e0.00	e0.10	e0.14	0.00	1.38	0.00	1.59
26	0.42	0.24	0.00	0.00	0.00	e0.00	e0.21	e0.00	0.05	0.02	0.80	0.06
27	0.11	0.12	0.00	0.00	0.00	e0.00	e0.09	e0.16	0.80	0.00	0.00	0.00
28	0.98	e0.00	0.00	0.00	0.00	e0.00	e0.00	e0.02	0.00	0.29	0.00	0.49
29	0.45	0.00	0.00	0.00	---	e0.00	e0.00	e0.00	0.02	0.01	0.00	0.00
30	0.07	0.00	0.28	0.00	---	e0.29	e0.02	e0.00	0.02	0.00	0.00	0.00
31	0.02	---	0.00	0.00	---	e0.13	---	e0.00	---	0.00	0.00	---
TOTAL	4.57	1.71	0.74	0.05	0.29	1.34	2.09	3.55	5.48	3.47	3.65	6.01

CAL YR 2004 TOTAL 41.10
WTR YR 2005 TOTAL 32.95

(e) Estimated

442436091331800 TRAVERSE VALLEY CREEK TRIBUTARY, RAIN GAGE #2, NEAR INDEPENDENCE, WI

LOCATION.--Lat 44°24'36", long 91°33'18", in NE $^1/_4$ SE $^1/_4$ sec.2, T.22 N., R.10 W., Buffalo County, Hydrologic Unit 07040005, in hillside rock quarry at end of small gravel road intersecting with Schneider Road, 1.0 mi north-northwest of family farm and 7.1 mi west-northwest of Independence.

PERIOD OF RECORD.--May 2002 current year.

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Rainfall estimated to be 0.00 for Nov. 28-30, Dec. 1-4, 28, Feb. 1, 7-8, 10-11, 14, 16, 21-25, 28 and Mar. 1-2, 10-13, 19-21 because recorded precipitation interpreted as collector snowmelt.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 2.73 in., Jun. 8, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 1.60 in., Sept. 25.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.25	0.10	e0.00	0.01	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.01
2	0.00	0.01	e0.00	0.00	0.00	e0.00	0.00	0.01	0.00	0.00	0.00	0.00
3	0.00	0.00	e0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.05	0.00	0.23
4	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00
6	0.00	0.00	0.01	0.00	0.15	0.00	0.08	0.01	0.00	0.00	0.00	0.00
7	0.02	0.00	0.06	0.00	e0.00	0.00	0.00	0.00	0.92	0.00	0.00	1.25
8	0.53	0.00	0.00	0.00	e0.00	0.00	0.00	0.02	0.94	0.04	0.00	0.11
9	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.13	0.00	0.00	1.03	0.00
10	0.00	0.07	0.14	0.00	e0.00	e0.00	0.01	0.01	0.01	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	e0.00	e0.00	0.04	0.03	1.57	0.00	0.60	0.00
12	0.00	0.00	0.00	0.00	0.00	e0.00	0.35	1.36	0.00	0.00	0.00	0.26
13	0.34	0.00	0.00	0.00	0.19	e0.00	0.00	0.09	0.08	0.00	0.00	0.95
14	0.12	0.00	0.00	0.00	e0.00	0.00	0.00	0.13	0.12	0.00	0.00	0.00
15	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
16	0.02	0.03	0.00	0.00	e0.00	0.00	0.59	0.35	0.00	0.00	0.00	0.00
17	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.61	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.27	1.05	0.00
19	0.00	1.13	0.00	0.00	0.00	e0.00	0.55	0.16	0.00	0.00	0.17	0.27
20	0.00	0.05	0.00	0.00	0.08	e0.00	0.00	0.00	0.24	0.21	0.34	0.00
21	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.01	0.01	0.00	0.29
22	0.10	0.00	0.00	0.00	e0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.29
23	0.07	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00
24	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55
25	0.00	0.00	0.00	e0.00	e0.00	0.00	0.10	0.14	0.01	1.44	0.00	1.60
26	0.44	0.25	0.00	e0.00	0.00	0.00	0.21	0.00	0.10	0.02	0.93	0.07
27	0.13	0.16	0.00	0.00	0.00	0.00	0.09	0.16	0.94	0.00	0.00	0.00
28	1.07	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.02	0.00	0.42	0.00	0.49
29	0.60	e0.00	0.00	0.00	---	0.00	0.00	0.00	0.04	0.00	0.00	0.00
30	0.12	e0.00	0.21	e0.00	---	0.29	0.02	0.00	0.05	0.00	0.00	0.00
31	0.05	---	0.00	e0.00	---	0.13	---	0.00	---	0.00	0.02	---
TOTAL	5.00	1.80	0.71	0.01	0.42	0.42	2.09	3.55	5.76	3.90	4.14	6.37

CAL YR 2004 TOTAL 43.45
WTR YR 2005 TOTAL 34.17

(e) Estimated

05379500 TREMPEALEAU RIVER AT DODGE, WI

LOCATION.--Lat 44°07'54", long 91°33'12" in NE ¼ SE ¼ sec.10, T.19 N., R.10 W., Trempealeau County, Hydrologic Unit 07040005, near left bank on downstream side of County Trunk Highways J and P bridge in Dodge, 9.0 mi upstream from mouth.

DRAINAGE AREA.--643 mi^2.

PERIOD OF RECORD.--December 1913 to September 1919, April 1934 to current year.

REVISED RECORDS.--WSP 1238: Drainage area. WSP 1388: 1919(M). WSP 1438: 1914, 1915-18(M), 1934-44(M), 1946-49(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 661.42 ft above NGVD of 1929. Prior to July 14, 1977, nonrecording gage at same site and datum. Prior to Sept. 16, 1966, datum 2.00 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor (see Introduction). Gage-height telemeter and data-collection platform at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	375	621	447	e290	e340	e370	3,190	499	391	359	332	296
2	446	549	427	e320	e360	e370	2,960	489	382	347	322	291
3	456	503	421	e280	e360	e340	2,160	480	371	342	322	287
4	412	473	416	e270	e360	e320	1,180	464	374	343	310	293
5	389	453	412	e260	e400	e370	911	451	396	336	301	289
6	374	440	414	e250	e490	e600	861	442	393	330	296	288
7	370	428	414	e240	e800	e1,000	813	438	397	325	289	286
8	370	420	417	e260	e1,300	e1,300	765	436	647	320	283	331
9	387	414	426	e260	e1,800	965	716	432	1,050	321	287	348
10	381	412	460	e260	e1,200	673	666	429	918	313	311	341
11	368	406	495	e250	e960	560	633	429	888	308	322	319
12	363	402	489	e260	e760	499	642	445	854	305	336	304
13	363	397	452	e250	e800	460	649	598	623	302	343	319
14	369	394	378	e180	e820	449	609	717	542	299	335	352
15	368	392	e390	e200	e900	441	560	647	513	296	317	381
16	371	393	e400	e220	e680	441	546	556	495	298	300	384
17	368	400	e410	e210	e600	453	611	525	456	297	291	345
18	364	401	e400	e200	e500	484	635	538	429	323	328	322
19	364	413	e430	e220	e460	418	697	636	412	328	347	324
20	363	511	e370	e240	e420	473	1,080	669	400	325	405	321
21	361	581	e390	e250	e410	439	1,250	616	393	335	376	316
22	362	525	e320	e260	e410	422	1,210	545	385	327	340	317
23	366	475	e320	e270	e390	425	869	500	375	312	321	335
24	371	447	e310	e260	e390	466	682	471	366	327	308	330
25	376	432	e260	e260	e380	655	613	448	365	434	300	519
26	375	425	e250	e260	e380	1,060	583	435	360	629	315	751
27	399	452	e240	e270	e370	1,430	573	428	359	542	347	701
28	420	506	e250	e270	e380	1,760	558	438	354	447	342	567
29	493	504	e270	e260	---	2,210	531	429	382	387	326	511
30	725	469	e280	e270	---	2,710	512	413	376	368	308	475
31	724	---	e320	e310	---	3,080	---	402	---	349	302	---
TOTAL	12,593	13,638	11,678	7,860	17,420	25,643	28,265	15,445	14,646	10,874	9,962	11,243
MEAN	406	455	377	254	622	827	942	498	488	351	321	375
MAX	725	621	495	320	1,800	3,080	3,190	717	1,050	629	405	751
MIN	361	392	240	180	340	320	512	402	354	296	283	286
CFSM	0.63	0.71	0.59	0.39	0.97	1.29	1.47	0.77	0.76	0.55	0.50	0.58
IN.	0.73	0.79	0.68	0.45	1.01	1.48	1.64	0.89	0.85	0.63	0.58	0.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

MEAN	380	394	328	284	344	808	687	499	522	428	371	412
MAX	1,314	856	953	679	878	2,325	2,146	1,320	1,516	1,332	1,050	1,239
(WY)	(1955)	(1992)	(1983)	(1973)	(1981)	(1936)	(1965)	(1973)	(1993)	(1993)	(1975)	(1992)
MIN	169	180	139	117	119	289	301	195	183	163	138	153
(WY)	(1951)	(1950)	(1959)	(1959)	(1959)	(1968)	(1964)	(1934)	(1964)	(1964)	(1964)	(1948)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1914 - 2005	
ANNUAL TOTAL	210,901		179,267			
ANNUAL MEAN	576		491		456	
HIGHEST ANNUAL MEAN					813	1973
LOWEST ANNUAL MEAN					237	1964
HIGHEST DAILY MEAN	2,910	Mar 4	3,190	Apr 1	12,900	Apr 4, 1956
LOWEST DAILY MEAN	(a)240	Jan 6	(a)180	Jan 14	(a)98	Jan 10, 1938
ANNUAL SEVEN-DAY MINIMUM	(a)249	Jan 6	(a)210	Jan 14	(a)106	Jan 7, 1938
MAXIMUM PEAK FLOW			3,250	Apr 1	17,400	Apr 4, 1956
MAXIMUM PEAK STAGE			10.45	Apr 1	(b)10.35	Apr 4, 1956
ANNUAL RUNOFF (CFSM)	0.896		0.764		0.709	
ANNUAL RUNOFF (INCHES)	12.20		10.37		9.63	
10 PERCENT EXCEEDS	1,050		724		741	
50 PERCENT EXCEEDS	420		396		350	
90 PERCENT EXCEEDS	280		287		202	

(a) Ice affected
(b) Datum then in use
(e) Estimated

05381000 BLACK RIVER AT NEILLSVILLE, WI

LOCATION.--Lat 44°33'35", long 90°36'54", in NW $^1/_4$ SW $^1/_4$ sec.15, T.24 N., R.2 W., Clark County, Hydrologic Unit 07040007, on right bank at downstream side of bridge on Business U.S. Highway 10 in Neillsville, 1.0 mi downstream from O'Neill Creek, and 2.6 mi upstream from Cunningham Creek.

DRAINAGE AREA.--749 mi^2.

PERIOD OF RECORD.--April 1905 to March 1909, October 1913 to September 1999, October 2000 to current year. Monthly discharge for some periods published in WSP 1308. Unfinalized 2000 water year records in District data files.

REVISED RECORDS.--WSP 1308: 1914. WSP 1438: 1905, 1906-8(M), 1914-17(M), 1918-19, 1920-25(M), 1926-27, 1928-29(M), 1930, 1931(M), 1932, 1933(M), 1934, 1935(M), 1936. WSP 1508: 1950. WDR WI-81-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 962.34 ft above NGVD of 1929. Prior to Oct. 24, 1934, nonrecording gage; Oct. 24, 1934, to June 16, 1977, water-stage recorder; June 17, 1977, to Nov. 19, 1977, nonrecording gage at site 150 ft downstream at datum 1.58 ft lower.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	1,580	e179	e394	e40	e65	6,770	365	196	96	54	29
2	89	1,070	e179	e495	e41	e66	4,920	333	177	87	57	26
3	105	726	e172	e416	e44	e66	3,410	303	161	85	52	23
4	86	541	e172	e364	e49	e66	2,570	275	153	86	44	22
5	80	430	e164	e320	e57	e67	2,120	252	198	78	36	21
6	80	359	172	e291	e96	e69	1,890	235	411	72	31	20
7	75	308	182	e252	e480	e274	1,820	220	787	66	27	25
8	71	265	183	e214	e291	e366	1,700	207	1,610	62	24	25
9	69	235	195	e186	e189	e291	1,510	220	1,170	57	27	22
10	63	213	326	e167	e145	e239	1,330	245	782	55	37	21
11	59	199	692	e147	e103	e217	1,120	251	569	52	43	19
12	56	185	702	e139	e99	e202	922	287	537	49	53	19
13	56	175	461	e137	e132	e189	768	915	545	45	48	34
14	55	166	e241	e115	e107	e154	630	711	1,310	42	46	41
15	54	158	e172	e79	e102	e126	529	720	1,290	38	41	29
16	54	155	e214	e61	e96	e117	465	638	906	36	34	27
17	53	157	e202	e47	e84	e112	500	542	566	33	31	24
18	51	156	e172	e40	e78	e132	560	455	385	35	31	24
19	50	166	e153	e38	e76	e165	822	541	282	34	36	27
20	50	290	e124	e38	e72	e112	2,170	914	219	36	32	26
21	51	477	e114	e37	e67	e96	2,620	1,080	181	40	65	25
22	53	528	e111	e38	e65	e90	2,110	851	150	37	63	41
23	91	451	e88	e38	e65	e94	1,410	652	128	52	60	37
24	137	374	e69	e41	e65	e108	895	508	111	63	69	34
25	165	305	e64	e42	e64	e137	634	382	100	85	55	130
26	203	253	e62	e42	e65	e215	543	306	90	122	51	149
27	207	260	e58	e42	e63	e607	502	260	87	83	54	119
28	332	320	e53	e41	e63	e2,640	495	235	181	72	47	108
29	1,210	e259	e52	e41	---	e5,850	466	221	154	98	42	138
30	2,650	e211	e57	e41	---	e7,080	412	218	119	77	37	120
31	2,330	---	e224	e40	---	8,030	---	210	---	62	32	---
TOTAL	8,742	10,972	6,009	4,383	2,898	28,042	46,613	13,552	13,555	1,935	1,359	1,405
MEAN	282	366	194	141	104	905	1,554	437	452	62.4	43.8	46.8
MAX	2,650	1,580	702	495	480	8,030	6,770	1,080	1,610	122	69	149
MIN	50	155	52	37	40	65	412	207	87	33	24	19
CFSM	0.38	0.49	0.26	0.19	0.14	1.21	2.07	0.58	0.60	0.08	0.06	0.06
IN.	0.43	0.54	0.30	0.22	0.14	1.39	2.32	0.67	0.67	0.10	0.07	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2005, BY WATER YEAR (WY)

MEAN	395	451	192	107	133	1,243	1,982	872	826	303	253	513
MAX	2,101	2,345	1,133	615	1,348	3,960	5,025	3,538	4,689	1,538	1,293	4,304
(WY)	(1983)	(1992)	(1966)	(1973)	(1984)	(1973)	(1951)	(1973)	(1905)	(1978)	(1928)	(1938)
MIN	20.7	27.1	35.9	10.0	5.00	56.7	270	77.4	43.0	14.9	10.5	5.77
(WY)	(1934)	(1977)	(1934)	(1918)	(1918)	(1940)	(1946)	(1934)	(1964)	(1933)	(1933)	(1933)

05381000 BLACK RIVER AT NEILLSVILLE, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1905 - 2005	
ANNUAL TOTAL	207,554		139,465			
ANNUAL MEAN	567		382		603	
HIGHEST ANNUAL MEAN					1,213	1942
LOWEST ANNUAL MEAN					160	1931
HIGHEST DAILY MEAN	11,200	Mar 29	8,030	Mar 31	38,200	Sep 10, 1938
LOWEST DAILY MEAN	(a)26	Feb 14	19	Sep 11	0.70 (b)	Aug 10, 1936
ANNUAL SEVEN-DAY MINIMUM	29	Jan 6	22	Sep 6	1.0	Aug 10, 1936
MAXIMUM PEAK FLOW			(c)8,740	Mar 31	48,800	Sep 10, 1938
MAXIMUM PEAK STAGE			(a)12.19	Mar 29	23.80	Sep 10, 1938
INSTANTANEOUS LOW FLOW			17	Sep 11, 12	0.60	Aug 15, 1936
ANNUAL RUNOFF (CFSM)	0.757		0.510		0.804	
ANNUAL RUNOFF (INCHES)	10.31		6.93		10.93	
10 PERCENT EXCEEDS	1,200		801		1,500	
50 PERCENT EXCEEDS	148		126		150	
90 PERCENT EXCEEDS	32		36		36	

(a) Ice affected
(b) Also occured Aug. 11, 14-16, 1936
(c) Gage height, 11.34 ft
(e) Estimated

05382000 BLACK RIVER NEAR GALESVILLE, WI

LOCATION.--Lat 44°03'37", long 91°17'14" in NW ¼ SW ¼ sec.1, T.18 N., R.8 W., LaCrosse County, Hydrologic Unit 07040007, on left bank 1,000 ft upstream from bridge on U.S. Highway 53, 3.5 mi southeast of Galesville, and 4.8 mi downstream from Fleming Creek.

DRAINAGE AREA.--2,080 mi^2.

PERIOD OF RECORD.--December 1931 to current year.

REVISED RECORDS.--WSP 1438: 1932-34, 1935-36(M). WDR WI-81-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 658.43 ft above NGVD of 1929. Prior to Apr. 2, 1941, nonrecording gage on bridge 1,000 ft downstream at same datum. Apr. 3, 1941, to Oct. 1, 1971, water- stage recorder at site 1,030 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see Introduction). Flow partly regulated by Hatfield Dam Powerplant where drainage area is 1,290 mi^2 and storage capacity is 272,000,000 ft^3. Water diverted periodically from basin into Lemonweir River basin for cranberry culture. Gage-height telemeter and data-collection platform at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	510	3,710	1,110	e650	e530	e700	14,900	1,970	948	742	634	383
2	561	3,280	926	e730	e580	e680	17,300	1,720	927	701	599	390
3	603	2,390	884	e820	e580	e650	14,500	1,600	895	624	566	362
4	608	2,010	849	e900	e580	e600	10,900	1,470	870	550	503	352
5	553	1,640	816	e860	e590	e680	7,970	1,360	868	563	436	341
6	531	1,270	825	e700	e600	e780	6,190	1,300	826	492	408	315
7	540	1,190	797	e680	e700	e960	5,380	1,290	864	467	393	307
8	560	1,090	779	e650	e1,200	e1,000	4,880	1,260	1,280	456	376	393
9	572	977	795	e640	e3,300	e1,100	4,490	1,230	3,250	442	375	436
10	618	940	891	e630	e3,000	e1,200	4,100	1,100	3,810	425	394	394
11	648	923	1,060	e620	e2,600	e1,000	3,620	1,120	2,780	413	405	350
12	623	887	1,590	e610	e2,300	934	3,350	1,210	2,410	403	512	374
13	561	825	1,850	e600	e2,000	787	2,860	1,340	2,310	395	496	518
14	544	796	1,700	e560	e1,800	784	2,540	2,230	1,970	386	465	819
15	545	748	e1,600	e520	e1,700	783	2,320	3,410	2,340	387	412	866
16	557	727	e1,300	e430	e1,600	672	2,030	3,110	2,800	420	378	939
17	549	711	e1,200	e330	e1,400	660	1,910	2,940	2,490	369	380	894
18	523	705	e1,200	e330	e1,100	685	1,790	2,570	1,980	344	466	850
19	517	684	e1,200	e370	e1,000	553	1,940	2,350	1,610	336	547	801
20	517	758	e1,100	e440	e1,000	753	2,620	2,380	1,210	374	575	743
21	529	924	e840	e420	e850	713	5,060	2,690	1,110	402	560	650
22	517	1,250	e750	e420	e760	665	7,070	2,840	918	398	535	615
23	529	1,270	e730	e410	e740	665	7,670	2,590	834	384	532	662
24	525	1,270	e600	e420	e730	699	6,370	2,200	778	371	521	754
25	573	1,230	e500	e430	e710	883	4,320	1,950	710	431	497	951
26	633	1,110	e500	e450	e700	1,140	3,160	1,520	656	824	472	1,140
27	763	969	e480	e440	e700	1,350	2,670	1,410	632	1,130	465	1,630
28	822	964	e420	e430	e700	1,880	2,430	1,260	612	1,190	505	1,740
29	824	1,130	e470	e430	---	3,480	2,220	1,170	608	999	431	1,610
30	1,480	1,180	e480	e440	---	5,640	2,020	1,060	632	777	411	1,590
31	3,050	---	e500	e500	---	8,990	---	965	---	650	385	---
TOTAL	21,485	37,558	28,742	16,860	34,050	42,066	158,580	56,615	43,928	16,845	14,634	22,169
MEAN	693	1,252	927	544	1,216	1,357	5,286	1,826	1,464	543	472	739
MAX	3,050	3,710	1,850	900	3,300	8,990	17,300	3,410	3,810	1,190	634	1,740
MIN	510	684	420	330	530	553	1,790	965	608	336	375	307
CFSM	0.33	0.60	0.45	0.26	0.58	0.65	2.54	0.88	0.70	0.26	0.23	0.36
IN.	0.38	0.67	0.51	0.30	0.61	0.75	2.84	1.01	0.79	0.30	0.26	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2005, BY WATER YEAR (WY)

MEAN	1,265	1,388	975	718	775	2,949	4,670	2,551	2,384	1,258	935	1,480
MAX	5,231	4,401	3,468	2,661	3,665	9,521	12,210	7,993	11,880	4,361	4,421	9,373
(WY)	(1987)	(1935)	(1992)	(1932)	(1984)	(1973)	(1967)	(1960)	(1993)	(1978)	(1995)	(1938)
MIN	277	337	320	268	263	406	1,269	591	427	322	293	306
(WY)	(1959)	(1949)	(1959)	(1959)	(1959)	(1934)	(2000)	(1934)	(1988)	(1933)	(1964)	(1948)

05382000 BLACK RIVER NEAR GALESVILLE, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1932 - 2005	
ANNUAL TOTAL	717,703		493,532			
ANNUAL MEAN	1,961		1,352		1,781	
HIGHEST ANNUAL MEAN					3,456	1993
LOWEST ANNUAL MEAN					699	1977
HIGHEST DAILY MEAN	22,400	Jun 13	17,300	Apr 2	62,000	Apr 1, 1967
LOWEST DAILY MEAN	(a)310	Jan 6	307	Sep 7	180	Dec 20, 1932
ANNUAL SEVEN-DAY MINIMUM	363	Jan 6	350	Sep 1	218	Aug 10, 1933
MAXIMUM PEAK FLOW			17,600	Apr 2	(b)65,500	Apr 1, 1967
MAXIMUM PEAK STAGE			12.59	Apr 2	16.64	Jun 21, 1993
INSTANTANEOUS LOW FLOW			299	Sep 7	180	Dec 20, 1931
ANNUAL RUNOFF (CFSM)	0.943		0.650		0.856	
ANNUAL RUNOFF (INCHES)	12.84		8.83		11.63	
10 PERCENT EXCEEDS	4,630		2,680		3,940	
50 PERCENT EXCEEDS	898		779		880	
90 PERCENT EXCEEDS	420		411		390	

(a) Ice affected
(b) Gage height, 14.63 ft, at location 1,000 ft downstream
(e) Estimated

05382325 LA CROSSE RIVER AT SPARTA, WI

LOCATION.--Lat 43°56'15", long 90°48'38", in SE ¼ NE ¼ sec.23, T.17 N., R.4 W., Monroe County, Hydrologic Unit 07040006, on left bank, 800 ft dowmstream from bridge on South Water Street, in Sparta, 0.35 mi downstream from Beaver Creek.

DRAINAGE AREA.--167 mi^2.

PERIOD OF RECORD.--July 1992 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 760.73 ft above NGVD of 1929.

REMARKS.--Records good (see Introduction). Gage-height telemeter at station. Occasional regulation from two dams upstream from gage.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	140	132	137	127	126	192	132	107	91	95	94
2	136	148	130	146	127	122	169	132	104	89	92	92
3	128	142	130	136	128	122	159	131	103	90	89	91
4	124	137	130	133	130	126	154	130	106	95	88	92
5	123	134	129	131	145	157	154	128	108	94	87	91
6	123	132	132	127	404	204	152	131	104	93	86	89
7	123	130	136	125	313	222	149	128	110	92	84	92
8	125	128	139	132	158	152	145	126	127	91	84	97
9	124	129	141	131	137	136	140	129	117	90	93	97
10	123	129	162	130	135	136	136	130	111	88	104	94
11	122	128	166	129	137	133	135	126	111	86	103	90
12	123	126	154	131	145	129	137	129	117	83	129	95
13	122	125	143	129	173	124	136	142	119	82	113	115
14	123	125	131	108	221	124	131	138	130	79	104	135
15	124	127	133	115	178	123	129	133	124	82	97	115
16	126	128	132	122	150	126	130	128	114	80	94	108
17	125	128	125	117	138	128	140	130	108	85	94	104
18	125	127	128	115	129	131	135	131	103	82	106	100
19	125	139	121	121	132	126	157	152	101	81	129	104
20	124	159	127	127	133	124	201	140	98	87	111	102
21	125	145	132	129	132	127	176	132	97	111	101	98
22	125	138	120	131	130	136	157	126	95	109	96	98
23	141	135	120	135	128	168	147	122	92	98	95	99
24	136	131	144	131	127	185	140	118	90	99	83	100
25	131	128	130	131	129	176	138	116	91	110	94	174
26	132	130	129	131	128	159	139	114	93	172	110	176
27	139	146	126	122	128	159	140	113	92	148	122	140
28	140	150	130	121	127	170	137	114	89	126	109	137
29	144	140	133	132	---	181	133	111	92	112	101	139
30	153	135	137	127	---	191	132	109	93	103	97	126
31	144	---	146	127	---	213	---	108	---	98	97	---
TOTAL	4,006	4,039	4,168	3,959	4,369	4,636	4,420	3,929	3,146	3,026	3,087	3,284
MEAN	129	135	134	128	156	150	147	127	105	97.6	99.6	109
MAX	153	159	166	146	404	222	201	152	130	172	129	176
MIN	122	125	120	108	127	122	129	108	89	79	83	89
CFSM	0.77	0.81	0.81	0.76	0.93	0.90	0.88	0.76	0.63	0.58	0.60	0.66
IN.	0.89	0.90	0.93	0.88	0.97	1.03	0.98	0.88	0.70	0.67	0.69	0.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)

MEAN	145	144	134	126	139	165	183	176	209	165	148	147
MAX	184	179	160	142	168	213	324	279	353	288	205	216
(WY)	(1996)	(1996)	(1995)	(1995)	(1994)	(1996)	(1993)	(1993)	(2004)	(1993)	(1998)	(1994)
MIN	109	122	113	101	108	133	125	127	105	97.6	97.5	100
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2000)	(2004)	(2005)	(2005)	(2005)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005	
ANNUAL TOTAL	58,278		46,069			
ANNUAL MEAN	159		126		157	
HIGHEST ANNUAL MEAN					211	1993
LOWEST ANNUAL MEAN					126	2003
HIGHEST DAILY MEAN	1,480	Jun 17	404	Feb 6	1,480	Jun 17, 2004
LOWEST DAILY MEAN	81	Jan 6	79	Jul 14	(b)72	May 10, 2000
ANNUAL SEVEN-DAY MINIMUM	(a)94	Jan 26	82	Jul 13	(b)82	Jul 13, 2005
MAXIMUM PEAK FLOW			560	Feb 6	2,260	Jun 17, 2004
MAXIMUM PEAK STAGE			5.73	Feb 6	11.01	Jun 17, 2004
ANNUAL RUNOFF (CFSM)	0.953		0.756		0.939	
ANNUAL RUNOFF (INCHES)	12.98		10.26		12.76	
10 PERCENT EXCEEDS	220		152		204	
50 PERCENT EXCEEDS	135		128		143	
90 PERCENT EXCEEDS	104		92		113	

(a) Ice affected
(b) Regulation at dam upstream

05383075 LA CROSSE RIVER NEAR LA CROSSE WI

LOCATION.--Lat 43°51'39", long 91°12'37", in NE ¼ SE ¼ sec.16, T.16 N., R.7 W., La Crosse County, Hydrologic Unit 07040006, on left bank just downstream from Great River State Trail, 3.9 mi northeast of post office in La Crosse.

DRAINAGE AREA.--471 mi^2.

PERIOD OF RECORD.--October 1999 to current year. Published as "at La Crosse" prior to October 2000.

GAGE.--Water-stage recorder. Elevation of gage is 650 ft above NGVD of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	288	347	278	e320	e280	267	629	256	243	220	239	242
2	276	409	276	e340	e280	318	528	305	239	220	213	223
3	304	321	327	e310	e280	266	536	273	241	220	190	221
4	354	330	300	e300	e290	261	478	306	238	220	187	223
5	220	292	267	e290	e360	300	358	270	241	219	184	223
6	325	275	275	e280	e600	392	433	269	225	220	191	221
7	264	319	322	e280	e900	533	349	264	237	219	216	220
8	272	325	338	e290	e840	665	460	325	256	219	217	221
9	269	288	329	e290	e440	465	349	276	286	219	224	221
10	268	273	351	e290	e320	461	348	266	264	218	223	223
11	267	324	360	e290	e330	300	351	266	259	217	259	220
12	264	284	403	e290	e350	332	347	319	249	145	268	236
13	268	266	330	e290	e370	293	287	304	282	138	305	433
14	273	266	e300	e220	e580	275	385	323	271	139	268	643
15	274	270	e300	e240	e700	330	322	332	268	174	239	453
16	276	325	e290	e260	e500	290	317	288	261	164	230	297
17	276	359	e270	e250	e370	277	307	275	260	165	216	300
18	252	269	e280	e240	e310	333	334	326	315	167	231	269
19	275	278	e260	e260	e300	347	376	376	230	172	266	255
20	273	389	e280	e280	e310	325	501	337	220	184	270	256
21	273	323	e290	e290	e300	279	360	347	220	242	228	257
22	270	416	e260	e290	e300	328	461	325	219	221	233	268
23	278	304	e250	e300	290	311	449	305	217	252	224	238
24	313	234	e320	e300	e290	490	342	264	217	379	219	234
25	340	407	e290	e290	282	581	327	260	218	255	229	460
26	288	281	e280	e290	331	696	353	265	215	376	324	539
27	276	347	e280	e270	295	646	319	263	214	450	387	505
28	328	337	e290	e260	269	557	316	242	213	315	418	459
29	351	e320	e300	e290	---	581	317	241	215	337	262	352
30	380	e300	e310	e280	---	643	273	239	235	264	256	371
31	341	---	e340	e280	---	686	---	238	---	241	253	---
TOTAL	8,976	9,478	9,346	8,750	11,067	12,828	11,512	8,945	7,268	7,191	7,669	9,283
MEAN	290	316	301	282	395	414	384	289	242	232	247	309
MAX	380	416	403	340	900	696	629	376	315	450	418	643
MIN	220	234	250	220	269	261	273	238	213	138	184	220
CFSM	0.61	0.67	0.64	0.60	0.84	0.88	0.81	0.61	0.51	0.49	0.53	0.66
IN.	0.71	0.75	0.74	0.69	0.87	1.01	0.91	0.71	0.57	0.57	0.61	0.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	309	318	292	271	318	422	393	410	516	342	299	307
MAX	365	330	321	308	395	541	561	504	856	463	354	385
(WY)	(2003)	(2000)	(2002)	(2001)	(2005)	(2004)	(2001)	(2004)	(2004)	(2000)	(2000)	(2001)
MIN	230	298	244	219	241	356	284	289	242	232	225	230
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2000)	(2004)	(2005)	(2005)	(2005)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	142,123		112,313			
ANNUAL MEAN	388		308		350	
HIGHEST ANNUAL MEAN					377	2004
LOWEST ANNUAL MEAN					308	2005
HIGHEST DAILY MEAN	1,690	Jun 19	(a)900	Feb 7	1,690	Jun 19, 2004
LOWEST DAILY MEAN	(a)200	(b)Jan 6	138	Jul 13	138	Jul 13, 2005
ANNUAL SEVEN-DAY MINIMUM	(a)206	Jan 19	156	Jul 12	156	Jul 12, 2005
MAXIMUM PEAK FLOW			(c)974	Mar 26	2,070	Jun 29, 1998
MAXIMUM PEAK STAGE			(a)7.26	Feb 7	9.18	Jun 29, 1998
INSTANTANEOUS LOW FLOW			138	Jul 13	124	Oct 28, 1999
ANNUAL RUNOFF (CFSM)	0.824		0.653		0.742	
ANNUAL RUNOFF (INCHES)	11.23		8.87		10.09	
10 PERCENT EXCEEDS	635		424		507	
50 PERCENT EXCEEDS	308		282		310	
90 PERCENT EXCEEDS	220		220		236	

05383075 LA CROSSE RIVER NEAR LA CROSSE WI—Continued

(a) Ice affected
(b) Also occurred Jan. 19, 22, 23, Feb. 1, 3, 4, 15 (ice affected)
(c) Gage height, 5.83 ft
(e) Estimated

05389500 MISSISSIPPI RIVER AT MCGREGOR, IA

LOCATION.--Lat 43°01'37", long 91°10'21", in SE¼ SE¼ sec.22, T.95 N., R.3 W., Clayton County, Hydrologic Unit 07060001, on right bank in city park at east end of Main Street in McGregor, 2.6 mi upstream from Wisconsin River, 4.3 mi downstream from Yellow River, and at mile 633.4 upstream from Ohio River.

DRAINAGE AREA.--67,500 mi^2, approximately.

PERIOD OF RECORD.--August 1936 to current year.

REVISED RECORDS.--WDR IA-75-1: 1974.

GAGE.--Water-stage recorder. Datum of gage is 604.84 ft above NGVD of 1929. Prior to June 1, 1937, and since June 2, 1939, auxiliary water-stage recorder; June 1, 1937 to June 1, 1939, auxiliary nonrecording gage 14.1 mi upstream in tailwater of dam 9, at datum 5.30 ft lower.

REMARKS.--Records are considered good, except for those estimated daily discharges, which are poor. Minor flow regulation caused by navigation dams. U.S. Geological Survey data collection platform with satellite and telephone modem telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1828, 25.38 ft. of on Apr. 24, 1965; Maximum discharge since at least 1828, 276,000 cfs on Apr. 24, 1965.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42,400	40,100	27,800	e23,900	e20,500	25,100	71,400	66,700	58,900	60,900	20,100	18,200
2	42,500	43,300	26,600	e24,900	e20,400	25,000	74,100	64,100	57,500	58,100	18,500	17,500
3	42,400	45,500	26,400	e25,900	e20,400	23,400	78,300	59,200	56,500	54,700	20,100	15,300
4	42,200	47,900	26,500	e26,300	e20,800	21,900	84,300	54,900	55,700	52,000	22,400	16,000
5	39,000	48,700	28,100	e26,200	e21,800	21,600	90,100	50,500	55,800	49,900	23,200	17,300
6	36,300	48,700	27,100	e25,400	e22,200	22,900	94,700	47,700	54,800	48,900	22,500	20,200
7	36,000	48,100	24,400	e23,200	e25,300	28,800	96,600	46,300	53,500	48,800	19,500	22,300
8	36,700	45,500	19,600	e23,400	e33,600	32,700	95,800	43,200	52,000	47,800	18,400	25,000
9	37,400	42,700	21,000	e22,700	e37,400	35,900	94,200	40,000	52,500	45,500	18,300	24,400
10	36,500	40,800	27,400	e21,200	e38,900	37,800	92,100	37,600	55,100	43,000	17,300	22,200
11	33,800	40,500	30,800	e20,600	e35,200	37,400	90,500	39,300	60,000	41,800	20,200	20,900
12	31,600	40,500	30,900	e20,700	e30,100	34,900	89,600	40,300	64,000	39,400	22,200	18,800
13	31,400	38,600	30,500	e20,600	e30,800	30,800	88,600	41,600	66,000	37,600	23,200	18,500
14	31,300	37,400	26,300	e20,400	e31,200	29,700	87,300	42,900	66,300	35,300	20,500	22,300
15	30,300	33,600	25,300	e20,500	e36,000	27,600	84,700	44,400	66,300	33,100	15,600	24,900
16	28,700	32,500	22,800	e20,600	e42,300	26,300	81,700	46,500	65,800	32,200	14,800	25,400
17	28,100	31,500	21,100	e19,000	e46,600	25,500	79,000	48,000	65,700	32,400	15,900	26,500
18	27,900	30,800	19,800	e18,600	e45,900	24,700	77,200	48,800	65,800	30,500	15,800	27,800
19	28,000	29,600	e19,400	e16,000	e36,800	26,100	76,500	52,500	68,400	25,900	19,900	28,700
20	25,000	30,400	e18,400	e15,900	e33,900	26,700	76,300	55,000	69,900	23,600	20,800	28,200
21	24,000	32,000	e17,700	e16,200	e28,500	26,800	76,000	56,200	71,300	26,200	19,500	26,600
22	26,000	32,800	e17,400	e17,500	e26,700	23,700	77,000	58,300	71,100	30,400	18,900	24,900
23	27,300	32,600	e17,900	e18,700	e26,900	24,000	78,100	59,300	70,900	31,000	19,900	25,900
24	27,800	31,700	e18,300	e18,300	e28,100	25,100	78,400	60,300	70,800	26,200	19,200	26,100
25	27,700	30,000	e18,300	e18,700	28,700	26,500	78,900	61,900	70,900	25,200	16,600	28,300
26	28,500	29,800	e18,400	e20,400	26,000	30,600	79,900	62,700	70,000	30,400	16,400	34,100
27	30,100	32,500	e17,800	e20,500	23,100	35,100	79,900	62,300	66,100	36,000	17,900	36,700
28	29,100	33,700	e16,400	e20,700	24,200	40,900	78,300	60,500	64,100	35,300	20,400	38,300
29	30,300	33,700	e16,900	e20,700	---	48,600	75,600	59,200	62,400	32,300	21,000	38,900
30	35,300	31,600	e19,900	e20,700	---	59,200	71,700	59,300	62,100	28,500	21,200	38,800
31	39,100	---	e22,300	e20,500	---	68,000	---	59,100	---	23,000	20,500	---
TOTAL	1,012,700	1,117,100	701,500	648,900	842,300	973,300	2,476,800	1,628,600	1,890,200	1,165,900	600,700	759,000
MEAN	32,670	37,240	22,630	20,930	30,080	31,400	82,560	52,540	63,010	37,610	19,380	25,300
MAX	42,500	48,700	30,900	26,300	46,600	68,000	96,600	66,700	71,300	60,900	23,200	38,900
MIN	24,000	29,600	16,400	15,900	20,400	21,600	71,400	37,600	52,000	23,000	14,800	15,300
AC-FT	2,009,000	2,216,000	1,391,000	1,287,000	1,671,000	1,931,000	4,913,000	3,230,000	3,749,000	2,313,000	1,191,000	1,505,000
CFSM	0.48	0.55	0.34	0.31	0.45	0.47	1.22	0.78	0.93	0.56	0.29	0.37
IN.	0.56	0.62	0.39	0.36	0.46	0.54	1.36	0.90	1.04	0.64	0.33	0.42

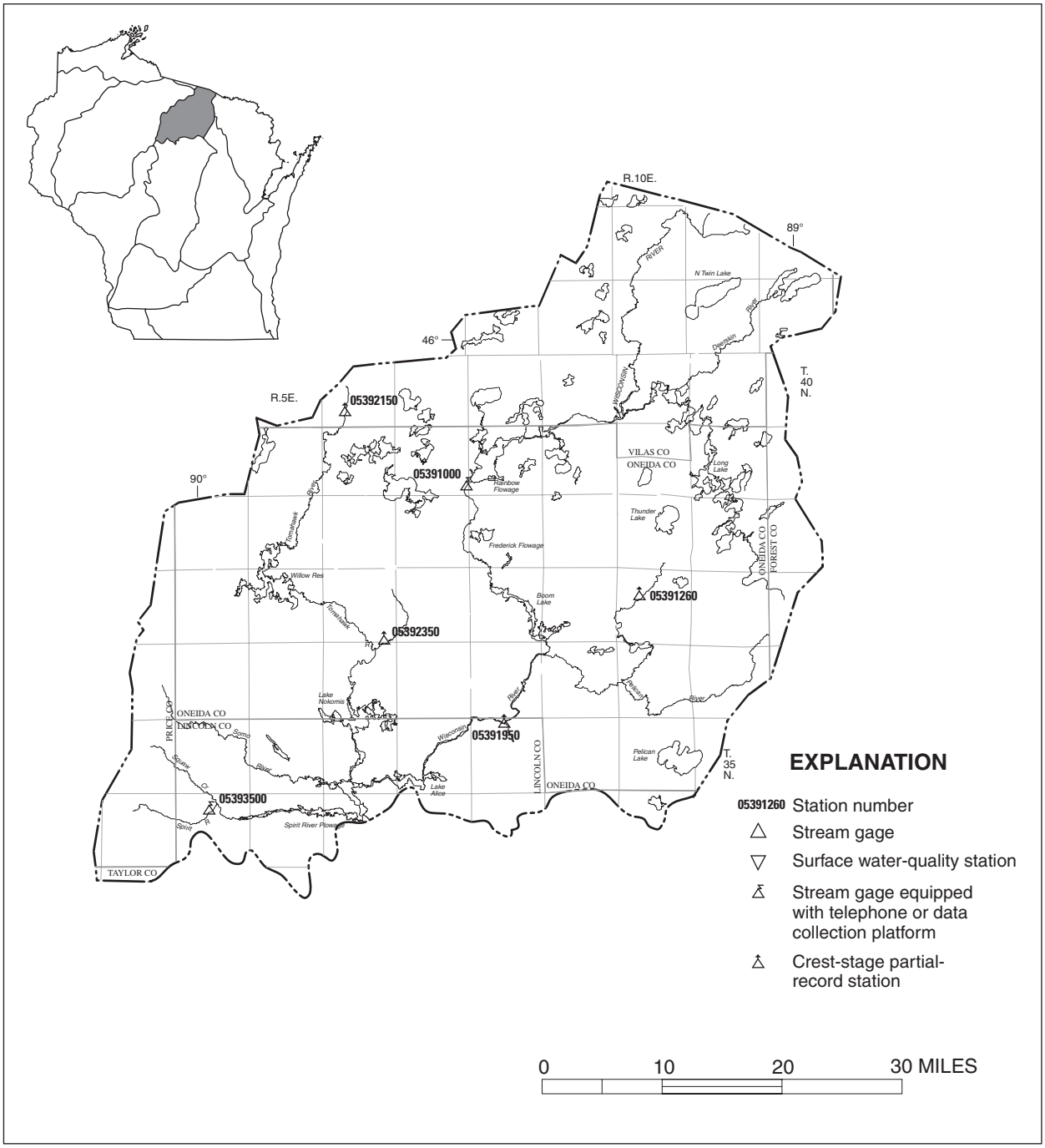
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2005, BY WATER YEAR (WY)

MEAN	28,760	29,400	22,420	19,430	20,320	39,100	75,690	62,250	50,830	41,640	28,180	28,750
MAX	114,600	64,840	59,200	35,700	48,540	103,800	164,800	138,700	112,600	142,200	84,430	72,890
(WY)	(1987)	(1983)	(1992)	(1983)	(1984)	(1983)	(1965)	(2001)	(1993)	(1993)	(1993)	(1986)
MIN	9,874	10,870	9,506	7,665	9,934	13,190	27,780	18,240	13,420	11,220	10,330	10,650
(WY)	(1937)	(1938)	(1937)	(1940)	(1940)	(1940)	(1990)	(1977)	(1988)	(1988)	(1964)	(1940)

05389500 MISSISSIPPI RIVER AT MCGREGOR, IA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1936 - 2005	
ANNUAL TOTAL	13,645,800		13,817,000			
ANNUAL MEAN	37,280		37,850		37,280	
HIGHEST ANNUAL MEAN					64,720	1993
LOWEST ANNUAL MEAN					17,400	1977
HIGHEST DAILY MEAN	114,000	Jun 17	96,600	Apr 7	276,000	Apr 24, 1965
LOWEST DAILY MEAN	13,000	Jan 28	14,800	Aug 16	6,200	Dec 9, 1936
ANNUAL SEVEN-DAY MINIMUM	13,100	Jan 24	17,300	Jan 18	6,490	Dec 7, 1936
MAXIMUM PEAK FLOW			97,100	Apr 7	276,000	Apr 24, 1965
MAXIMUM PEAK STAGE			14.10	Apr 10	25.38	Apr 24, 1965
ANNUAL RUNOFF (AC-FT)	27,070,000		27,410,000		27,010,000	
ANNUAL RUNOFF (CFSM)	0.552		0.561		0.552	
ANNUAL RUNOFF (INCHES)	7.52		7.61		7.50	
10 PERCENT EXCEEDS	70,000		69,900		75,700	
50 PERCENT EXCEEDS	32,400		30,800		27,900	
90 PERCENT EXCEEDS	15,000		18,900		13,400	

e Estimated



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

UPPER WISCONSIN RIVER BASIN

05391000 WISCONSIN RIVER AT RAINBOW LAKE, NEAR LAKE TOMAHAWK, WI

LOCATION.--Lat 45°49'50", long 89°33'08", in NE ¼ NE ¼ sec.36, T.39 N., R.7 E., Oneida County, Hydrologic Unit 07070001, on right bank 500 ft downstream from Gilmore Creek, 0.4 mi downstream from Rainbow Lake, and 2.3 mi northeast of Lake Tomahawk.

DRAINAGE AREA.--757 mi^2.

PERIOD OF RECORD.--July 1936 to current year. Prior to October 1955, published as "at Rainbow Reservoir, near Lake Tomahawk."

REVISED RECORDS.--WSP 895: 1937(M). WSP 1508: 1944. WDR WI-83-1: Drainage area. WDR WI-80-1: Datum.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,569.05 ft above NGVD of 1929 (levels by Wisconsin Valley Improvement Co.). July 1936 to September 1982, water-stage recorder at site 400 ft above Gilmore Creek at same datum.

REMARKS.--Records good except for estimated daily discharges and period of variable backwater, Jun. 20 to Jul. 20, which are fair (see Introduction). Flow regulated by Rainbow Lake and 12 smaller reservoirs upstream from station. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	496	340	491	676	752	754	293	393	443	406	340	334
2	491	339	494	679	749	748	298	392	442	405	341	326
3	487	339	496	679	745	741	304	390	406	403	342	325
4	478	338	496	681	735	732	311	389	383	400	342	323
5	477	394	496	682	730	725	315	389	386	398	340	322
6	468	429	498	682	733	718	e310	385	387	396	341	321
7	460	428	497	682	732	711	e280	384	391	394	339	318
8	421	415	505	678	733	707	281	383	397	360	341	318
9	399	403	506	675	730	698	291	383	395	338	340	315
10	397	401	505	671	729	690	299	382	393	337	341	313
11	397	386	505	668	726	681	306	393	394	336	340	311
12	393	411	506	668	722	670	305	406	400	334	341	310
13	416	437	503	723	721	660	285	417	396	331	340	311
14	427	455	505	805	718	647	276	394	414	330	341	314
15	426	471	506	803	755	638	339	374	368	330	341	313
16	426	471	557	799	841	628	389	373	333	327	340	312
17	421	471	609	794	835	617	399	369	388	327	341	311
18	420	484	605	794	830	605	355	365	423	327	342	307
19	418	486	607	783	823	594	324	365	420	327	343	309
20	415	481	613	784	817	584	322	362	415	326	344	308
21	413	482	609	784	810	577	337	363	410	326	345	307
22	e410	484	610	778	804	566	341	364	383	328	344	308
23	e400	483	610	781	798	559	334	363	361	330	345	308
24	e390	473	611	775	792	549	327	364	355	331	345	307
25	e390	468	608	773	783	539	324	414	350	334	345	306
26	389	473	606	769	778	531	318	445	390	337	345	310
27	412	479	606	772	771	524	314	442	412	337	343	309
28	412	484	605	768	762	522	315	441	380	339	342	309
29	367	489	631	762	---	517	358	444	359	341	340	317
30	346	491	675	759	---	444	390	445	393	341	339	321
31	340	---	677	756	---	309	---	444	---	341	338	---
TOTAL	13,002	13,185	17,348	22,883	21,454	19,185	9,640	12,217	11,767	10,817	10,591	9,423
MEAN	419	440	560	738	766	619	321	394	392	349	342	314
MAX	496	491	677	805	841	754	399	445	443	406	345	334
MIN	340	338	491	668	718	309	276	362	333	326	338	306

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2005, BY WATER YEAR (WY)

MEAN	646	687	770	818	809	640	413	712	719	661	581	590
MAX	1,445	1,250	1,178	1,108	1,161	1,044	1,330	1,798	1,863	1,387	1,472	1,282
(WY)	(1952)	(1939)	(1955)	(1943)	(1952)	(1939)	(1973)	(1973)	(1939)	(1968)	(1938)	(1980)
MIN	263	170	330	371	417	316	138	173	228	237	243	268
(WY)	(1988)	(1949)	(1949)	(1990)	(1977)	(2000)	(1949)	(1949)	(1987)	(1988)	(1988)	(1948)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1936 - 2005	
ANNUAL TOTAL	203,277		171,512			
ANNUAL MEAN	555		470		671	
HIGHEST ANNUAL MEAN					1,062	1939
LOWEST ANNUAL MEAN					359	1990
HIGHEST DAILY MEAN	1,190	May 1	841	Feb 16	2,820	Sep 5, 1941
LOWEST DAILY MEAN	299	Apr 3	276	Apr 14	35	Apr 6, 1955
ANNUAL SEVEN-DAY MINIMUM	309	Mar 31	292	Apr 8	107	Apr 12, 1965
MAXIMUM PEAK FLOW			843	Feb 15	3,570	Sep 5, 1941
MAXIMUM PEAK STAGE			2.77	Feb 15	7.59	Sep 5, 1941
10 PERCENT EXCEEDS	692		746		1,020	
50 PERCENT EXCEEDS	541		403		641	
90 PERCENT EXCEEDS	399		315		314	

(e) Estimated

05393500 SPIRIT RIVER AT SPIRIT FALLS, WI

LOCATION.--Lat 45°26'57", long 89°58'45", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.10, T.34 N., R.4 E., Lincoln County, Hydrologic Unit 07070001, on right bank 40 ft downstream of bridge 0.2 mi south of Spirit Falls, 0.6 mi upstream from Squaw Creek, and 2.0 mi downstream from Richie Creek.

DRAINAGE AREA.--81.6 mi^2.

PERIOD OF RECORD.--April 1942 to current year.

REVISED RECORDS.--WSP 1308: 1943(M), 1948-50(M). WDR WI-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,461.63 ft above NGVD of 1929. Prior to Oct. 4, 1982, nonrecording gage 40 ft upstream at same datum.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	170	31	e37	e17	e26	e850	69	24	25	3.9	3.7
2	52	129	28	e44	e17	e25	e850	64	21	18	3.6	2.9
3	52	105	27	e38	e17	e24	741	57	18	14	3.5	2.7
4	47	89	29	e31	e18	e24	698	49	21	12	3.4	2.6
5	45	77	e27	e25	e19	e25	589	42	159	10	3.0	2.7
6	43	68	e27	e23	e22	e26	613	38	183	9.3	2.4	2.5
7	46	60	e27	e22	e26	e28	717	36	125	10	2.4	2.5
8	54	53	e29	e21	e31	e30	530	33	95	8.7	2.4	2.4
9	62	47	e30	e21	e36	e31	382	36	72	7.4	2.4	2.6
10	57	45	e37	e21	e42	e31	291	56	53	7.1	2.9	2.7
11	37	53	e47	e21	e47	e29	229	59	42	6.1	3.1	2.6
12	39	47	e47	e21	e45	e27	181	50	36	5.5	3.2	2.5
13	39	41	e30	e21	e42	e26	143	63	35	5.4	3.1	3.8
14	41	37	e30	e18	e39	e26	119	99	74	5.4	2.6	5.8
15	45	35	e27	e17	e36	e25	101	98	81	4.6	2.4	5.1
16	52	35	e26	e15	e34	e24	91	85	56	4.2	2.2	4.5
17	55	37	e22	e14	e31	e24	120	69	38	3.9	2.2	4.1
18	58	38	e20	e14	e30	e23	112	61	28	5.8	2.3	4.0
19	60	37	e18	e14	e28	e23	99	78	22	5.7	2.7	5.0
20	51	54	e16	e14	e27	e24	174	99	19	4.7	6.0	6.6
21	51	62	e16	e15	e26	e23	153	80	15	4.4	9.4	6.1
22	57	51	e16	e15	e26	e24	120	64	13	4.2	5.3	7.3
23	96	46	e17	e15	e25	e25	97	55	11	3.8	4.1	7.6
24	113	39	e17	e15	e26	e25	81	46	12	3.9	3.7	6.3
25	83	34	e17	e15	e26	e28	71	39	13	3.9	3.6	7.4
26	67	36	e17	e15	e26	e32	103	36	10	7.0	4.5	11
27	78	34	e18	e16	e26	e38	110	34	9.5	7.0	4.6	9.1
28	86	36	e19	e16	e26	e60	104	35	12	5.2	4.0	8.2
29	200	34	e20	e17	---	e110	91	34	11	4.8	3.6	12
30	231	28	e21	e17	---	e410	78	31	20	4.8	3.4	10
31	256	---	e30	e17	---	e730	---	28	---	4.2	3.4	---
TOTAL	2,287	1,657	783	625	811	2,026	8,638	1,723	1,328.5	226.0	109.3	156.3
MEAN	73.8	55.2	25.3	20.2	29.0	65.4	288	55.6	44.3	7.29	3.53	5.21
MAX	256	170	47	44	47	730	850	99	183	25	9.4	12
MIN	34	28	16	14	17	23	71	28	9.5	3.8	2.2	2.4
CFSM	0.90	0.68	0.31	0.25	0.35	0.80	3.53	0.68	0.54	0.09	0.04	0.06
IN.	1.04	0.76	0.36	0.28	0.37	0.92	3.94	0.79	0.61	0.10	0.05	0.07

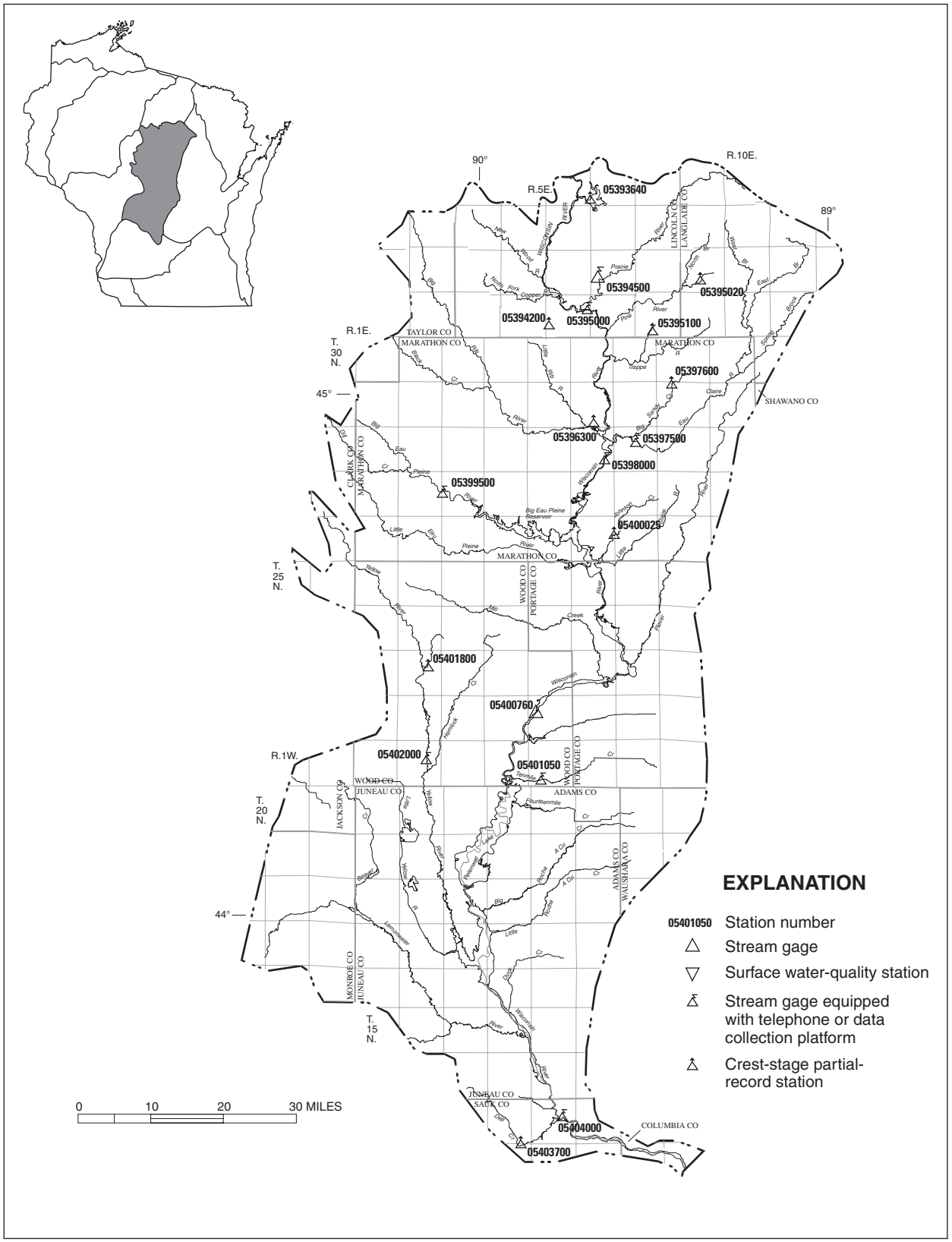
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2005, BY WATER YEAR (WY)

MEAN	74.4	73.5	38.2	20.3	20.0	108	329	151	98.4	45.6	36.9	72.7
MAX	306	338	293	71.8	69.8	467	697	408	398	209	359	396
(WY)	(1986)	(1992)	(1976)	(1960)	(1984)	(1946)	(1951)	(1973)	(1943)	(1968)	(1995)	(1942)
MIN	4.05	5.31	4.07	3.00	3.61	14.6	55.6	23.0	6.01	4.09	3.13	3.05
(WY)	(1977)	(1977)	(1977)	(1977)	(1977)	(1956)	(1946)	(1987)	(1988)	(1964)	(1944)	(1976)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1942 - 2005	
ANNUAL TOTAL	30,310.5		20,370.1			
ANNUAL MEAN	82.8		55.8		88.3	
HIGHEST ANNUAL MEAN					140	1973
LOWEST ANNUAL MEAN					36.3	1957
HIGHEST DAILY MEAN	(a)1,500	Mar 29	(a)850	Apr 1-2	3,290	Sep 18, 1942
LOWEST DAILY MEAN	3.6	Aug 7	2.2	Aug 16-17	1.0	Aug 11, 1964
ANNUAL SEVEN-DAY MINIMUM	5.2	(b)Jul 26	2.5	Aug 13	1.4	Aug 5, 1964
MAXIMUM PEAK FLOW			(a)		(c)4,180	Sep 18, 1942
MAXIMUM PEAK STAGE			(a)8.21	Apr 1	10.00	Sep 18, 1942
INSTANTANEOUS LOW FLOW			2.1	Aug 15-16	1.0	Aug 11, 1964
ANNUAL RUNOFF (CFSM)	1.01		0.684		1.08	
ANNUAL RUNOFF (INCHES)	13.82		9.29		14.70	
10 PERCENT EXCEEDS	224		100		213	
50 PERCENT EXCEEDS	24		26		28	
90 PERCENT EXCEEDS	7.7		3.8		8.4	

05393500 SPIRIT RIVER AT SPIRIT FALLS, WI—Continued

(a) Ice affected
(b) Also occurred Aug. 3
(c) From rating curve extended above 2,500 ft^3/s
(e) Estimated



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

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^2.

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 Introduction). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	529	e114	e126	96	83	980	174	104	82	74	70
2	128	394	e113	e128	94	85	883	166	99	80	71	66
3	131	291	e107	e117	95	87	756	158	94	78	70	66
4	115	230	e115	116	92	90	662	148	98	77	72	67
5	103	196	e115	108	95	92	615	140	138	76	70	66
6	98	176	113	108	102	95	606	134	163	76	68	65
7	94	162	115	103	114	94	637	130	143	77	66	66
8	97	148	116	109	115	90	589	125	174	79	66	67
9	97	138	117	110	111	93	487	124	153	76	74	68
10	97	136	141	107	101	89	395	130	142	73	89	66
11	94	155	166	107	103	88	328	137	180	73	74	68
12	91	156	159	109	103	86	278	129	175	71	73	64
13	90	137	126	105	101	84	238	150	167	69	70	e67
14	88	130	124	83	100	87	208	174	222	75	67	e73
15	89	127	e113	90	99	88	188	179	258	72	66	73
16	91	126	e108	93	92	81	176	168	226	69	65	68
17	91	130	e101	90	89	83	190	152	177	67	65	66
18	91	133	e94	e89	101	86	192	142	142	70	66	65
19	90	132	e94	e92	94	85	196	184	122	71	69	72
20	90	166	e84	95	91	86	541	213	109	71	127	77
21	89	184	e94	97	93	83	651	186	101	71	115	72
22	89	163	e94	97	87	87	541	163	93	67	98	83
23	123	150	e93	94	88	87	399	155	88	66	86	80
24	185	135	e93	98	85	88	296	141	85	69	79	75
25	184	111	e92	98	91	89	239	128	82	71	76	96
26	160	126	e92	97	84	93	239	120	81	105	75	130
27	241	135	e94	90	88	103	247	115	81	115	76	118
28	272	156	e98	93	91	142	228	115	88	97	74	108
29	434	e140	e102	97	---	280	207	113	87	91	73	123
30	610	e115	e107	96	---	628	188	110	86	81	72	115
31	641	---	e124	95	---	995	---	110	---	77	71	---
TOTAL	4,982	5,207	3,418	3,137	2,695	4,427	12,380	4,513	3,958	2,392	2,357	2,360
MEAN	161	174	110	101	96.2	143	413	146	132	77.2	76.0	78.7
MAX	641	529	166	128	115	995	980	213	258	115	127	130
MIN	88	111	84	83	84	81	176	110	81	66	65	64
CFSM	0.87	0.94	0.60	0.55	0.52	0.78	2.24	0.79	0.72	0.42	0.41	0.43
IN.	1.01	1.05	0.69	0.63	0.54	0.90	2.50	0.91	0.80	0.48	0.48	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

MEAN	166	167	112	91.6	89.9	187	434	258	208	136	130	169
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1914 - 2005	
ANNUAL TOTAL	62,870		51,826			
ANNUAL MEAN	172		142		179	
HIGHEST ANNUAL MEAN					272	1942
LOWEST ANNUAL MEAN					108	1931
HIGHEST DAILY MEAN	1,500	Mar 29	995	Mar 31	4,200	Aug 31, 1941
LOWEST DAILY MEAN	(a)62	(b)Jan 6	64	Sep 12	35	Oct 26, 1947
ANNUAL SEVEN-DAY MINIMUM	(a)64	Jan 14	66	Sep 2	52	Dec 28, 1948
MAXIMUM PEAK FLOW			1,080	Mar 31	(c)5,800	Aug 31, 1941
MAXIMUM PEAK STAGE			5.08	Mar 31	(d)9.45	Aug 31, 1941
INSTANTANEOUS LOW FLOW			55	Mar 13	34	Oct 26, 1947
ANNUAL RUNOFF (CFSM)	0.934		0.772		0.972	
ANNUAL RUNOFF (INCHES)	12.71		10.48		13.20	
10 PERCENT EXCEEDS	347		224		344	
50 PERCENT EXCEEDS	105		98		115	
90 PERCENT EXCEEDS	68		71		75	

(a) Ice affected
(b) Also occurred Jan. 16, 18
(c) Based on rating curve extended above 2,200 ft^3/s
(d) From floodmarks
(e) Estimated

05395000 WISCONSIN RIVER AT MERRILL, WI

LOCATION.--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^2.

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 Introduction). Flow regulated by 20 reservoirs and 9 powerplants upstream from station. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,070	3,780	1,800	e1,770	e1,950	e1,860	7,660	1,590	1,550	1,490	1,170	809
2	1,800	2,950	1,870	e2,000	e1,930	e1,820	7,030	1,730	1,180	980	974	872
3	1,260	2,320	1,710	e1,970	e1,860	e1,830	6,640	1,860	1,180	1,090	1,120	836
4	1,140	2,030	1,860	e2,080	e1,800	e1,870	6,190	1,550	1,290	1,170	1,230	637
5	1,180	1,730	1,810	e1,930	e1,960	e1,930	6,480	1,640	1,700	1,150	1,110	657
6	1,180	1,840	1,810	e1,810	e1,900	e2,030	6,240	1,980	1,880	1,210	828	933
7	1,180	1,790	1,860	e1,800	e2,200	e2,060	6,460	1,630	1,600	1,260	925	928
8	1,010	1,480	1,780	e1,710	e1,960	e1,780	6,210	1,410	1,750	1,190	937	896
9	1,140	1,460	1,740	e1,770	e1,900	e1,800	4,800	1,660	1,530	1,090	1,060	874
10	1,220	1,580	2,030	e1,820	e1,860	e1,900	4,350	1,760	1,440	1,240	1,100	781
11	1,180	1,800	2,180	e1,730	e1,730	e1,840	3,670	1,580	1,560	1,120	1,100	751
12	1,160	2,030	2,110	e2,010	e2,000	e1,840	2,910	1,670	1,820	837	910	821
13	1,070	1,840	1,970	e1,770	e1,880	e1,690	2,700	1,820	1,440	1,090	1,040	872
14	1,090	1,610	1,850	e2,080	e2,000	e1,750	2,610	1,960	2,830	1,160	1,010	1,030
15	1,210	1,650	1,860	e2,280	e1,860	e1,790	2,150	1,780	2,080	905	982	1,060
16	1,250	1,720	1,770	e2,030	e1,790	e1,850	1,950	1,840	1,780	941	839	971
17	1,200	1,710	1,860	e1,780	e1,820	e1,830	2,410	1,950	1,630	763	869	759
18	1,070	1,830	1,690	e1,970	e1,750	e1,870	2,080	1,680	1,720	758	1,070	788
19	1,310	1,960	e1,720	e1,880	e1,890	e1,880	2,750	1,790	1,110	1,180	958	804
20	1,160	2,010	1,550	e1,950	e1,800	e1,790	4,580	2,230	1,120	1,090	1,310	920
21	1,120	1,860	e1,920	e2,100	e1,860	e1,660	4,060	1,990	1,590	955	1,210	1,120
22	1,130	1,590	e1,680	e2,110	e1,930	e1,550	3,550	1,690	1,330	1,070	1,150	1,130
23	1,480	1,720	e1,820	e1,990	e1,930	e1,420	2,880	1,910	1,170	1,060	1,060	732
24	1,670	1,660	e1,900	e1,790	e1,860	1,700	2,070	1,570	1,290	1,000	979	779
25	1,630	1,460	e1,990	e1,870	e2,010	1,820	2,170	1,630	1,290	1,020	871	945
26	1,610	1,400	e1,870	e1,970	e1,890	1,660	2,050	1,400	1,210	1,650	1,040	1,280
27	1,790	1,850	e2,030	e2,350	e1,950	1,790	2,210	1,570	1,240	1,480	1,050	1,040
28	2,040	2,030	e1,790	e2,240	e2,020	2,110	2,090	1,500	1,370	1,080	969	954
29	3,290	1,510	e1,850	e2,100	---	3,010	1,840	1,650	1,130	906	1,000	1,040
30	4,020	1,530	e1,900	e2,000	---	4,560	1,950	1,630	1,250	887	879	1,110
31	3,960	---	e2,040	e2,010	---	7,260	---	1,540	---	1,030	828	---
TOTAL	47,620	55,730	57,620	60,670	53,290	65,550	114,740	53,190	45,060	33,852	31,578	27,129
MEAN	1,536	1,858	1,859	1,957	1,903	2,115	3,825	1,716	1,502	1,092	1,019	904
MAX	4,020	3,780	2,180	2,350	2,200	7,260	7,660	2,230	2,830	1,650	1,310	1,280
MIN	1,010	1,400	1,550	1,710	1,730	1,420	1,840	1,400	1,110	758	828	637

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2005, BY WATER YEAR (WY)

MEAN	2,525	2,381	2,084	1,981	1,928	2,575	4,742	3,662	3,076	2,323	2,062	2,494
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1903 - 2005	
ANNUAL TOTAL	829,214		646,029			
ANNUAL MEAN	2,266		1,770		2,639	
HIGHEST ANNUAL MEAN					4,558	1905
LOWEST ANNUAL MEAN					1,348	1977
HIGHEST DAILY MEAN	9,650	Mar 30	7,660	Apr 1	36,400	Sep 1, 1941
LOWEST DAILY MEAN	984	Sep 20	637	Sep 4	90	Sep 26, 1908
ANNUAL SEVEN-DAY MINIMUM	1,120	Oct 8	788	Aug 30	194	Sep 21, 1908
MAXIMUM PEAK FLOW			9,210	Apr 1	(a)49,400	Aug 31, 1941
MAXIMUM PEAK STAGE			8.72	Apr 1	18.26	Aug 31, 1941
10 PERCENT EXCEEDS	4,180		2,190		4,420	
50 PERCENT EXCEEDS	1,720		1,720		2,090	
90 PERCENT EXCEEDS	1,220		950		1,270	

(a) From rating curve extended above 20,000 ft^3/s
(e) Estimated

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^2.

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 Introduction). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	697	e175	e118	e89	e81	3,380	181	115	74	50	43
2	82	498	e161	e120	e96	e81	2,700	169	110	71	45	41
3	94	348	e159	e120	e101	e81	1,810	159	104	67	44	40
4	97	273	e149	e126	e105	e81	1,300	150	103	64	44	39
5	84	227	e146	e123	e107	e87	1,050	139	105	66	41	40
6	79	200	e139	e127	e114	e91	913	134	112	71	38	39
7	77	181	e146	e125	e127	e92	786	131	117	62	38	41
8	82	165	e154	e125	e116	e88	664	125	113	56	38	41
9	86	152	e164	e127	e108	e87	567	122	121	55	42	40
10	92	144	e181	e125	e104	e82	463	200	131	54	55	40
11	91	141	e196	e127	e103	e80	392	325	181	51	83	39
12	86	145	e196	e127	e103	e77	342	254	455	47	77	39
13	85	133	e181	e127	e103	e74	310	243	449	46	62	48
14	84	123	e167	e122	e103	e68	273	337	540	43	55	49
15	83	123	e159	e114	e103	e68	243	341	640	41	48	50
16	89	119	e137	e110	e98	e70	223	314	534	40	43	50
17	86	120	e122	e99	e100	e71	216	268	353	40	41	45
18	86	122	e104	e94	e97	e73	215	229	240	41	45	43
19	87	124	e98	e84	e95	e75	217	261	183	50	57	50
20	86	139	e94	e85	e94	e74	431	353	155	52	75	55
21	86	167	e86	e84	e89	e72	584	336	135	48	63	61
22	85	178	e86	e80	e91	e76	501	274	120	45	57	71
23	102	161	e85	e80	e91	e79	378	247	109	43	54	58
24	117	150	e84	e80	e87	e79	293	241	102	44	52	54
25	131	132	e84	e80	e85	e87	244	206	95	47	50	72
26	125	128	e84	e80	e82	e95	238	177	86	64	49	93
27	134	151	e84	e80	e82	e132	252	157	84	73	52	101
28	192	e161	e84	e80	e82	e417	241	146	84	66	50	88
29	351	e184	e93	e80	---	e997	221	137	80	59	49	89
30	573	e178	e98	e87	---	e2,810	199	131	77	56	46	99
31	782	---	e110	e87	---	e3,780	---	123	---	53	45	---
TOTAL	4,383	5,764	4,006	3,223	2,755	10,205	19,646	6,610	5,833	1,689	1,588	1,658
MEAN	141	192	129	104	98.4	329	655	213	194	54.5	51.2	55.3
MAX	782	697	196	127	127	3,780	3,380	353	640	74	83	101
MIN	69	119	84	80	82	68	199	122	77	40	38	39
CFSM	0.38	0.51	0.34	0.28	0.26	0.88	1.75	0.57	0.52	0.15	0.14	0.15
IN.	0.43	0.57	0.40	0.32	0.27	1.01	1.95	0.66	0.58	0.17	0.16	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

MEAN	206	228	138	90.0	89.6	351	739	365	301	158	148	201
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	54.5	51.2	48.5
(WY)	(1949)	(1977)	(1926)	(1926)	(1957)	(1956)	(1990)	(1977)	(1988)	(2005)	(2005)	(1989)

05397500 EAU CLAIRE RIVER AT KELLY, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1914 - 2005	
ANNUAL TOTAL	96,614		67,360			
ANNUAL MEAN	264		185		251	
HIGHEST ANNUAL MEAN					440	1942
LOWEST ANNUAL MEAN					131	1925
HIGHEST DAILY MEAN	5,100	Mar 29	(a)3,780	Mar 31	7,180	Aug 21, 1926
LOWEST DAILY MEAN	(a)48	Feb 10	38	Aug 6, 7, 8	(a)25	(b)Jan 6, 1926
ANNUAL SEVEN-DAY MINIMUM	49	Feb 4	40	Sep 6	(a)26	Jan 10, 1926
MAXIMUM PEAK FLOW			(a)		(c)8,300	Aug 21, 1926
MAXIMUM PEAK STAGE			(a)7.96	Mar 31	(d)10.14	Mar 24, 1991
INSTANTANEOUS LOW FLOW			35	Sep 12	(f)8.0	Jul 17, 1944
ANNUAL RUNOFF (CFSM)	0.704		0.492		0.668	
ANNUAL RUNOFF (INCHES)	9.58		6.68		9.08	
10 PERCENT EXCEEDS	549		329		524	
50 PERCENT EXCEEDS	103		98		127	
90 PERCENT EXCEEDS	56		47		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^3/s, gage height, 8.4 ft, from graph based on gage readings
(d) Ice jam
(e) Estimated
(f) Probably result of temporary regulation

05398000 WISCONSIN RIVER AT ROTHSCHILD, WI

LOCATION.--Lat 44°53'09", long 89°38'05", in NE¼ NE¼ 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^2.

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 Introduction). 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^3/s from rating curve extended above 45,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,270	5,570	2,210	e2,260	2,210	e2,070	20,300	2,460	2,090	1,700	1,320	1,090
2	1,990	4,370	2,330	e2,340	2,040	e2,000	15,800	2,490	1,590	1,360	1,180	1,060
3	1,790	3,510	2,220	2,600	2,170	e2,040	12,600	2,410	1,450	1,260	1,230	1,050
4	1,340	3,020	2,170	2,460	2,040	e2,000	11,300	2,430	1,770	1,400	1,300	1,050
5	1,480	e2,800	2,390	e2,240	2,150	2,110	10,600	2,120	2,090	1,350	1,230	1,050
6	1,430	e2,000	2,050	e2,140	2,300	2,170	9,810	2,530	2,580	1,470	1,150	1,120
7	1,410	e2,050	e2,340	e2,100	2,690	2,170	9,820	2,200	2,410	1,350	980	1,210
8	1,360	e2,230	e2,380	1,970	3,020	2,240	9,140	1,980	2,270	1,440	1,170	1,080
9	1,240	1,980	e2,160	2,160	2,670	2,050	7,790	2,150	2,200	1,390	1,360	1,090
10	1,390	2,140	e2,480	2,040	2,670	1,960	e5,690	2,330	2,060	1,330	1,400	1,080
11	1,410	2,040	e3,480	2,090	2,450	2,020	e3,800	2,180	2,330	1,420	1,270	980
12	1,450	2,700	e3,430	2,260	2,320	2,210	e3,820	2,440	3,000	1,130	1,220	e1,170
13	1,280	2,240	e2,830	2,030	2,380	1,800	3,860	2,360	3,070	1,080	1,150	e1,260
14	1,190	2,090	e2,240	2,320	2,290	2,000	3,900	3,160	4,310	1,280	1,140	1,230
15	1,450	1,950	e2,120	2,450	2,330	1,980	3,590	2,820	4,380	1,200	1,170	1,150
16	1,440	2,120	e2,390	e2,380	2,180	1,910	3,510	2,730	3,210	1,120	1,110	1,200
17	1,640	2,070	e1,900	e2,290	2,220	1,880	3,540	2,620	2,570	1,180	1,100	1,040
18	1,190	2,360	1,970	e2,080	e2,300	1,930	3,730	2,610	2,530	1,030	1,240	1,100
19	1,510	2,320	1,820	e2,210	e2,240	2,040	3,650	2,810	1,900	1,260	1,160	1,120
20	1,520	2,680	1,650	e2,200	e2,210	1,850	7,330	3,410	1,610	1,320	1,520	1,230
21	1,290	2,780	1,710	e2,350	e2,130	1,880	8,340	3,350	1,790	1,210	1,230	1,290
22	1,370	2,450	e1,750	e2,410	e2,130	1,910	5,500	2,810	1,850	1,170	1,340	1,430
23	1,830	2,390	e1,880	e2,250	e2,130	1,720	4,470	2,860	1,490	1,240	1,430	1,110
24	2,150	2,220	e1,880	e2,230	e2,060	1,760	3,740	2,510	1,600	1,250	1,200	1,070
25	2,060	2,000	e2,030	e2,110	e2,100	1,950	3,520	2,470	1,610	1,190	1,100	1,380
26	2,110	1,740	e2,050	2,140	e2,130	1,960	e3,630	2,030	1,420	1,670	1,130	1,620
27	2,170	2,240	e2,090	2,250	e2,070	2,160	3,500	2,110	1,540	1,880	1,270	1,550
28	3,030	2,810	e2,160	2,670	e2,150	3,350	2,960	2,110	1,700	1,490	1,210	1,350
29	4,920	2,380	e2,180	2,400	---	7,340	3,010	2,140	1,420	1,190	1,150	1,180
30	7,890	2,010	2,260	2,130	---	13,900	2,640	2,070	1,540	1,160	1,120	1,780
31	8,300	---	2,650	2,050	---	20,000	---	2,010	---	1,190	1,060	---
TOTAL	65,900	75,260	69,200	69,610	63,780	98,360	194,890	76,710	65,380	40,710	37,640	36,120
MEAN	2,126	2,509	2,232	2,245	2,278	3,173	6,496	2,475	2,179	1,313	1,214	1,204
MAX	8,300	5,570	3,480	2,670	3,020	20,000	20,300	3,410	4,380	1,880	1,520	1,780
MIN	1,190	1,740	1,650	1,970	2,040	1,720	2,640	1,980	1,420	1,030	980	980

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2005, BY WATER YEAR (WY)

MEAN	3,219	3,230	2,691	2,421	2,365	4,155	7,553	4,690	3,854	2,771	2,430	3,076
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1945 - 2005	
ANNUAL TOTAL	1,214,920		893,560			
ANNUAL MEAN	3,319		2,448		3,537	
HIGHEST ANNUAL MEAN					5,953	1973
LOWEST ANNUAL MEAN					1,686	1977
HIGHEST DAILY MEAN	30,300	Mar 29	20,300	Apr 1	44,500	Mar 31, 1967
LOWEST DAILY MEAN	1,190	Oct 14, 19	980	(a)Aug 7	575	Jun 16, 1988
ANNUAL SEVEN-DAY MINIMUM	1,330	Oct 8	1,070	Aug 30	757	Nov 28, 1976
MAXIMUM PEAK FLOW			25,200	Apr 1	49,200	(b)Apr 12, 1965
MAXIMUM PEAK STAGE			23.00	Apr 1	(c)18.46	(b)Apr 12, 1965
10 PERCENT EXCEEDS	6,960		3,510		6,520	
50 PERCENT EXCEEDS	2,060		2,070		2,580	
90 PERCENT EXCEEDS	1,480		1,170		1,490	

(a) Also occurred Sept. 11
(b) Also occurred Mar. 31, 1967
(c) Datum then in use
(e) Estimated

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^2.

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 Introduction). 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^3/s, former site and datum.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	383	e57	e26	e22	e14	1,370	65	33	15	6.1	4.0
2	26	226	e47	e28	e25	e15	724	60	28	15	5.3	3.7
3	57	147	e40	e28	e28	e15	530	54	23	17	4.5	3.2
4	37	107	e39	e28	e32	e16	423	49	24	14	4.6	2.8
5	26	84	e37	e27	e35	e19	367	45	33	9.1	4.4	2.6
6	17	74	e37	e27	e56	e22	344	42	44	9.4	3.1	2.5
7	13	62	38	e27	e189	e25	310	40	32	12	2.8	2.5
8	13	58	41	e28	e235	e36	260	38	171	13	2.7	2.5
9	12	48	47	e28	e149	e61	215	47	203	11	2.8	2.4
10	9.9	44	e59	e28	e78	e61	182	61	96	7.7	3.3	2.6
11	10	42	e99	e27	e30	e49	160	58	86	6.5	26	2.9
12	9.5	39	e122	e28	e30	e40	138	50	106	5.7	24	3.3
13	8.8	36	e106	e30	e29	e32	115	84	68	5.6	17	4.6
14	7.9	32	e81	e28	e29	e27	95	136	367	7.7	13	7.2
15	7.5	29	e47	e24	e29	e23	84	122	229	10	8.5	6.4
16	8.2	28	e41	e23	e27	e18	78	98	116	9.8	6.3	9.1
17	8.0	31	e32	e20	e25	e17	92	80	75	6.7	5.2	7.1
18	8.5	36	e21	e18	e24	e23	104	71	52	6.2	5.2	5.1
19	8.6	47	e18	e16	e23	e21	198	229	37	4.7	5.7	5.0
20	9.0	80	e17	e15	e21	e19	585	466	28	3.8	13	5.0
21	9.4	156	e14	e15	e18	e20	364	270	23	4.0	22	4.9
22	10	119	e13	e14	e18	e27	255	237	18	4.0	11	9.1
23	23	89	e13	e15	e17	e36	166	237	15	4.5	9.0	9.1
24	46	77	e13	e16	e15	e58	115	128	15	4.7	6.7	9.9
25	60	66	e13	e17	e15	e104	89	89	14	9.1	5.4	29
26	48	55	e13	e18	e14	e245	93	68	13	45	5.1	53
27	51	54	e13	e17	e14	e606	101	56	11	21	5.8	45
28	231	77	e13	e15	e14	e2,200	93	54	13	16	5.6	38
29	726	e87	e16	e16	---	e4,970	81	52	17	10	5.0	38
30	1,460	e81	e20	e18	---	5,100	72	45	21	7.4	4.7	42
31	821	---	e24	e19	---	3,500	---	38	---	6.2	4.4	---
TOTAL	3,790.9	2,494	1,191	684	1,241	17,419	7,803	3,169	2,011	321.8	248.2	362.5
MEAN	122	83.1	38.4	22.1	44.3	562	260	102	67.0	10.4	8.01	12.1
MAX	1,460	383	122	30	235	5,100	1,370	466	367	45	26	53
MIN	7.5	28	13	14	14	14	72	38	11	3.8	2.7	2.4
CFSM	0.55	0.37	0.17	0.10	0.20	2.51	1.16	0.46	0.30	0.05	0.04	0.05
IN.	0.63	0.41	0.20	0.11	0.21	2.89	1.30	0.53	0.33	0.05	0.04	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

MEAN	109	126	47.5	19.6	34.4	414	589	233	215	74.5	79.0	158
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1914 - 2005	
ANNUAL TOTAL	61,176.1		40,735.4			
ANNUAL MEAN	167		112		176	
HIGHEST ANNUAL MEAN					355	1980
LOWEST ANNUAL MEAN					47.6	1977
HIGHEST DAILY MEAN	6,390	Mar 28	5,100	Mar 30	26,100	Sep 9, 1938
LOWEST DAILY MEAN	(a)3.0	Feb 4	2.4	Sep 9	(a)0.00	(b)Jan 22, 1961
ANNUAL SEVEN-DAY MINIMUM	(a)3.0	Feb 4	2.6	Sep 4	(a)0.00	Jan 22, 1961
MAXIMUM PEAK FLOW			(c)6,050	Mar 30	(d)41,000	Sep 9, 1938
MAXIMUM PEAK STAGE			(a)13.68	Mar 29	(f)24.50	Sep 9, 1938
INSTANTANEOUS LOW FLOW			2.3	Sep 5	0.00	(g)Aug 17, 1947
ANNUAL RUNOFF (CFSM)	0.746		0.498		0.784	
ANNUAL RUNOFF (INCHES)	10.16		6.76		10.65	
10 PERCENT EXCEEDS	298		175		370	
50 PERCENT EXCEEDS	34		27		25	
90 PERCENT EXCEEDS	3.8		5.2		4.8	

(a) Ice affected
(b) Also occurred Jan. 23 to Feb. 5, 1961
(c) Gage height, 13.16 ft
(d) Based on rating curve extended above 24,000 ft^3/s
(e) Estimated
(f) From floodmarks
(g) Also occurred Jan. 22 to Feb. 5, 1961, ice-affected period

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^2.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,596	7,701	2,240	3,400	2,260	2,729	27,699	3,359	2,611	2,330	1,511	1,150
2	1,756	5,120	2,296	3,629	2,746	2,292	24,242	3,374	2,831	2,111	1,507	1,214
3	2,005	4,211	2,610	3,097	3,085	2,382	16,520	2,592	2,198	1,875	1,496	1,251
4	2,393	3,751	2,615	3,121	2,256	2,601	13,547	2,901	2,143	1,410	1,666	1,191
5	1,542	2,902	2,907	3,301	2,635	2,717	13,483	3,024	2,508	1,363	1,713	1,081
6	1,450	2,543	2,711	2,857	2,824	2,623	12,351	2,968	3,388	1,563	1,581	900
7	1,497	3,125	2,347	3,138	3,050	3,016	12,240	2,934	3,788	1,590	1,449	878
8	2,086	2,628	2,950	2,801	3,132	2,459	11,295	2,934	2,856	1,616	1,376	933
9	1,885	2,292	3,265	2,364	3,115	2,562	8,580	3,050	2,219	1,640	1,313	1,288
10	1,609	2,444	4,145	2,366	3,336	2,473	7,035	2,791	2,553	1,626	1,908	1,252
11	1,333	2,141	3,498	2,237	3,882	2,837	6,304	2,414	2,728	1,615	2,561	1,215
12	1,282	2,424	3,714	2,815	3,824	2,832	4,468	2,450	4,234	1,610	2,527	1,217
13	1,341	3,064	3,878	3,003	3,789	2,831	3,995	3,472	5,703	1,580	1,691	1,800
14	1,559	2,925	2,484	2,491	3,717	2,546	3,414	3,588	7,972	1,582	1,505	2,268
15	1,592	2,149	2,466	2,493	2,999	2,396	3,380	4,525	9,136	1,502	1,239	1,720
16	1,737	2,343	2,617	2,382	2,762	2,509	3,716	3,549	4,910	1,503	1,216	1,264
17	1,817	2,402	2,506	2,401	2,727	2,522	3,638	3,730	3,922	1,480	1,218	1,130
18	1,693	2,508	2,662	2,369	2,750	2,189	3,393	3,457	3,502	1,495	1,205	1,081
19	1,681	2,808	2,515	2,401	2,801	2,278	4,751	3,802	2,855	1,246	1,922	890
20	1,686	3,242	2,189	2,402	2,707	2,686	8,676	4,941	2,406	1,230	1,627	916
21	1,675	3,125	2,294	2,850	3,112	2,539	10,590	5,970	2,520	1,265	1,938	1,305
22	1,609	3,086	2,222	3,114	2,890	2,415	10,577	6,268	2,371	1,368	1,762	1,949
23	2,178	2,689	2,277	3,004	2,367	2,376	6,137	3,975	2,231	1,591	1,674	1,249
24	2,662	3,843	1,992	2,448	2,505	2,300	4,648	3,679	2,274	1,845	1,665	947
25	2,663	2,453	1,927	2,584	3,396	2,311	4,643	3,306	1,895	2,691	1,385	1,704
26	2,413	2,304	2,604	2,444	2,315	2,456	5,193	2,979	1,762	2,315	1,322	2,315
27	2,426	2,271	2,328	2,333	2,778	2,559	3,731	2,790	1,699	1,949	1,320	2,030
28	2,896	2,895	2,237	3,064	2,862	5,068	3,378	2,846	2,300	1,891	1,646	1,661
29	5,465	3,213	2,947	3,750	---	9,971	3,370	2,279	2,107	1,928	1,751	1,688
30	8,233	2,819	2,409	2,541	---	19,756	3,324	2,222	2,045	1,736	1,620	1,616
31	10,118	---	2,484	2,400	---	26,618	---	2,442	---	1,603	1,317	---
TOTAL	75,878	91,421	82,336	85,600	82,622	129,849	248,318	104,611	95,667	52,149	49,631	41,103
MEAN	2,448	3,047	2,656	2,761	2,951	4,189	8,277	3,375	3,189	1,682	1,601	1,370
MAX	10,100	7,700	4,140	3,750	3,880	26,600	27,700	6,270	9,140	2,690	2,560	2,320
MIN	1,280	2,140	1,930	2,240	2,260	2,190	3,320	2,220	1,700	1,230	1,200	878

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

MEAN	4,087	4,300	3,280	3,016	3,133	6,283	11,000	6,917	6,079	3,506	3,116	4,221
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)

05400760 WISCONSIN RIVER AT WISCONSIN RAPIDS, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1914 - 2005	
ANNUAL TOTAL	1,563,755		1,139,185			
ANNUAL MEAN	4,273		3,121		4,903	
HIGHEST ANNUAL MEAN					8,499	1973
LOWEST ANNUAL MEAN					2,107	1977
HIGHEST DAILY MEAN	37,900	Mar 30	27,700	Apr 1	63,600	Jun 21, 1993
LOWEST DAILY MEAN	1,280	Oct 12	878	Sep 7	165	Aug 12, 1934
ANNUAL SEVEN-DAY MINIMUM	1,490	Oct 10	1,060	Sep 2	790	Jun 18, 1988
MAXIMUM PEAK FLOW			28,900	Apr 1	(a)70,400	Sep 12, 1938
10 PERCENT EXCEEDS	8,990		4,490		9,500	
50 PERCENT EXCEEDS	2,510		2,470		3,320	
90 PERCENT EXCEEDS	1,690		1,370		1,780	

(a) From rating curve extended above 58,000 ft^3/s

05401050 TENMILE CREEK NEAR NEKOOSA, WI

LOCATION.--Lat 44°15'45", long 89°48'37" in NE $\frac{1}{4}$ NE $\frac{1}{4}$ 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^2.

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 and crest-stage gage. 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 Introduction). 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	52	52	e48	36	e39	89	72	63	39	33	38
2	45	52	54	e52	36	e39	88	70	61	38	31	36
3	41	55	51	e50	38	e39	84	71	59	37	30	35
4	42	56	54	e48	39	43	84	65	59	38	30	35
5	35	56	51	e46	42	44	83	64	63	37	28	35
6	34	55	51	e41	45	46	78	65	60	36	28	34
7	35	55	52	e44	50	51	76	65	58	35	27	35
8	42	54	51	e46	55	53	77	65	58	34	26	37
9	43	53	51	e46	54	50	78	66	55	33	26	37
10	40	53	56	e45	53	53	77	67	55	32	28	36
11	36	51	56	e44	53	53	71	64	58	31	29	34
12	38	48	59	e38	53	46	71	63	56	30	34	33
13	34	48	56	e33	56	50	75	68	55	30	32	36
14	33	49	38	e31	56	47	71	71	58	29	31	39
15	34	49	41	e31	55	48	66	68	57	29	30	41
16	35	45	54	e31	53	47	68	67	55	29	29	45
17	35	48	43	e31	43	46	69	67	54	29	28	41
18	36	49	38	e31	e44	46	68	66	51	27	33	40
19	36	50	32	32	e44	40	66	70	49	27	43	40
20	35	52	37	33	e43	49	79	76	48	28	48	39
21	34	51	37	36	e43	46	84	79	47	28	47	38
22	35	52	35	36	e42	46	79	78	45	28	46	41
23	43	52	e31	e38	e41	47	66	76	43	30	43	39
24	49	51	e30	38	e41	49	64	73	41	31	42	38
25	47	51	e33	37	e40	53	66	71	41	33	42	42
26	49	51	e36	37	e39	56	72	70	41	43	42	42
27	47	53	e45	e37	e39	62	68	69	42	39	45	38
28	45	53	e47	36	e39	75	68	66	43	38	43	43
29	46	53	e48	36	---	89	77	66	41	37	41	43
30	48	53	e48	35	---	94	77	65	40	35	39	44
31	51	---	e49	36	---	91	---	64	---	34	38	---
TOTAL	1,247	1,550	1,416	1,203	1,272	1,637	2,239	2,127	1,556	1,024	1,092	1,154
MEAN	40.2	51.7	45.7	38.8	45.4	52.8	74.6	68.6	51.9	33.0	35.2	38.5
MAX	51	56	59	52	56	94	89	79	63	43	48	45
MIN	33	45	30	31	36	39	64	63	40	27	26	33
CFSM	0.55	0.70	0.62	0.53	0.62	0.72	1.02	0.94	0.71	0.45	0.48	0.52
IN.	0.63	0.79	0.72	0.61	0.65	0.83	1.14	1.08	0.79	0.52	0.55	0.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	49.6	51.2	46.9	34.9	34.4	65.5	99.8	89.1	82.5	62.7	47.8	50.9
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)

05401050 TENMILE CREEK NEAR NEKOOSA, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	24,937		17,517			
ANNUAL MEAN	68.1		48.0		59.8	
HIGHEST ANNUAL MEAN					113	1973
LOWEST ANNUAL MEAN					30.2	1964
HIGHEST DAILY MEAN	410	Jun 18	94	Mar 30	427	Mar 31, 1979
LOWEST DAILY MEAN	15	(a)Feb 8	26	Aug 8, 9	10	(b)Feb 13, 1964
ANNUAL SEVEN-DAY MINIMUM	15	(c)Feb 8-10	27	Aug 5	10	Feb 22, 1964
MAXIMUM PEAK FLOW			(d)96	Mar 29	456	Mar 31, 1979
MAXIMUM PEAK STAGE			(c)5.36	Jan 27	7.20	Jun 18, 2004
INSTANTANEOUS LOW FLOW			23	Jan 14	9.5	Dec 16, 1964
ANNUAL RUNOFF (CFSM)	0.930		0.655		0.815	
ANNUAL RUNOFF (INCHES)	12.66		8.89		11.08	
10 PERCENT EXCEEDS	124		69		106	
50 PERCENT EXCEEDS	56		45		51	
90 PERCENT EXCEEDS	17		32		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) Gage height, 5.26 ft
(e) Estimated

05402000 YELLOW RIVER AT BABCOCK, WI

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^2.

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 Introduction). There is a large recreation dam about 5.0 mi upstream. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	135	e52	e30	e13	e24	1,980	90	30	23	14	8.2
2	11	124	e48	e32	e15	e24	1,120	66	42	21	12	7.5
3	12	108	e44	e35	e17	e24	725	88	35	18	10	7.3
4	12	89	38	e36	e19	e22	504	101	31	18	9.3	6.7
5	13	76	34	e35	e22	e25	390	87	36	18	9.7	6.1
6	13	64	33	e37	e27	e32	354	76	37	18	7.9	5.8
7	11	56	33	e35	e37	e38	332	69	33	16	6.6	6.6
8	9.9	48	33	e33	e252	e43	309	64	183	15	5.9	12
9	9.3	41	34	e30	e307	e60	286	62	696	13	5.8	26
10	8.9	37	43	e27	e203	e75	255	66	301	12	6.1	24
11	9.3	35	68	e26	e154	e71	216	66	547	11	7.6	19
12	8.7	31	132	e24	e114	e58	190	67	547	9.8	12	15
13	7.6	28	149	e23	e93	e49	170	94	704	8.7	16	16
14	6.8	26	e127	e22	e70	e43	150	222	573	8.3	13	131
15	6.7	25	e91	e20	e59	e38	130	310	409	7.7	10	272
16	7.5	24	e58	e20	e47	e32	116	281	404	7.3	8.6	123
17	6.5	24	e38	e18	e42	e27	110	214	258	6.8	7.4	84
18	7.4	24	e25	e17	e39	e26	107	166	148	6.5	8.0	57
19	8.1	25	e22	e16	e39	e34	116	153	106	6.2	34	44
20	6.2	35	e21	e14	e39	e30	812	211	81	6.5	63	37
21	5.4	47	e20	e13	e39	e26	1,120	249	65	6.6	43	29
22	5.7	60	e18	e12	e39	26	802	205	54	6.2	31	27
23	7.2	72	e18	e11	e36	26	403	163	44	7.6	24	29
24	8.6	65	e17	e9.6	e30	27	273	132	37	11	19	25
25	11	56	e17	e8.6	e27	31	214	105	33	14	16	34
26	11	49	e17	e8.9	e24	41	181	86	30	28	15	254
27	10	48	e17	e9.2	e24	71	174	73	27	32	14	267
28	12	54	e18	e9.2	e24	240	170	63	28	21	13	99
29	18	53	e19	e9.3	---	1,250	160	56	29	17	11	126
30	53	55	e22	e10	---	2,910	201	52	27	16	10	126
31	113	---	e26	e12	---	3,480	---	41	---	15	9.3	---
TOTAL	440.8	1,614	1,332	642.8	1,851	8,903	12,070	3,778	5,575	425.2	472.2	1,924.2
MEAN	14.2	53.8	43.0	20.7	66.1	287	402	122	186	13.7	15.2	64.1
MAX	113	135	149	37	307	3,480	1,980	310	704	32	63	272
MIN	5.4	24	17	8.6	13	22	107	41	27	6.2	5.8	5.8
CFSM	0.07	0.25	0.20	0.10	0.31	1.34	1.87	0.57	0.86	0.06	0.07	0.30
IN.	0.08	0.28	0.23	0.11	0.32	1.54	2.09	0.65	0.96	0.07	0.08	0.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2005, BY WATER YEAR (WY)

MEAN	105	110	61.2	25.6	45.8	378	541	238	202	65.8	50.7	121
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)

05402000 YELLOW RIVER AT BABCOCK, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1944 - 2005	
ANNUAL TOTAL	64,379.3		39,028.2			
ANNUAL MEAN	176		107		162	
HIGHEST ANNUAL MEAN					376	1973
LOWEST ANNUAL MEAN					37.4	1977
HIGHEST DAILY MEAN	3,710	Mar 27	3,480	Mar 31	10,300	Apr 2, 1952
LOWEST DAILY MEAN	(a)5.0	Jan 5, 29	5.4	Oct 21	1.4	(b)Sep 14, 1948
ANNUAL SEVEN-DAY MINIMUM	(a)5.9	Jan 26	6.6	Jul 16	1.4	Sep 13, 1948
MAXIMUM PEAK FLOW			3,700	Mar 31	11,600	Apr 2, 1952
MAXIMUM PEAK STAGE			12.58	Mar 31	17.38	Apr 2, 1952
INSTANTANEOUS LOW FLOW			4.9	Oct 21	0.94	Aug 11, 1985
ANNUAL RUNOFF (CFSM)	0.818		0.497		0.752	
ANNUAL RUNOFF (INCHES)	11.14		6.75		10.22	
10 PERCENT EXCEEDS	375		229		359	
50 PERCENT EXCEEDS	26		32		31	
90 PERCENT EXCEEDS	7.0		8.5		8.0	

(a) Ice affected
(b) Also occurred Sept. 15-19, 25, 26, 1948
(e) Estimated

05404000 WISCONSIN RIVER NEAR WISCONSIN DELLS, WI

LOCATION.--Lat 43°36'22", long 89°45'25" in NW $^1/_4$ 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^2.

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 Introduction). 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

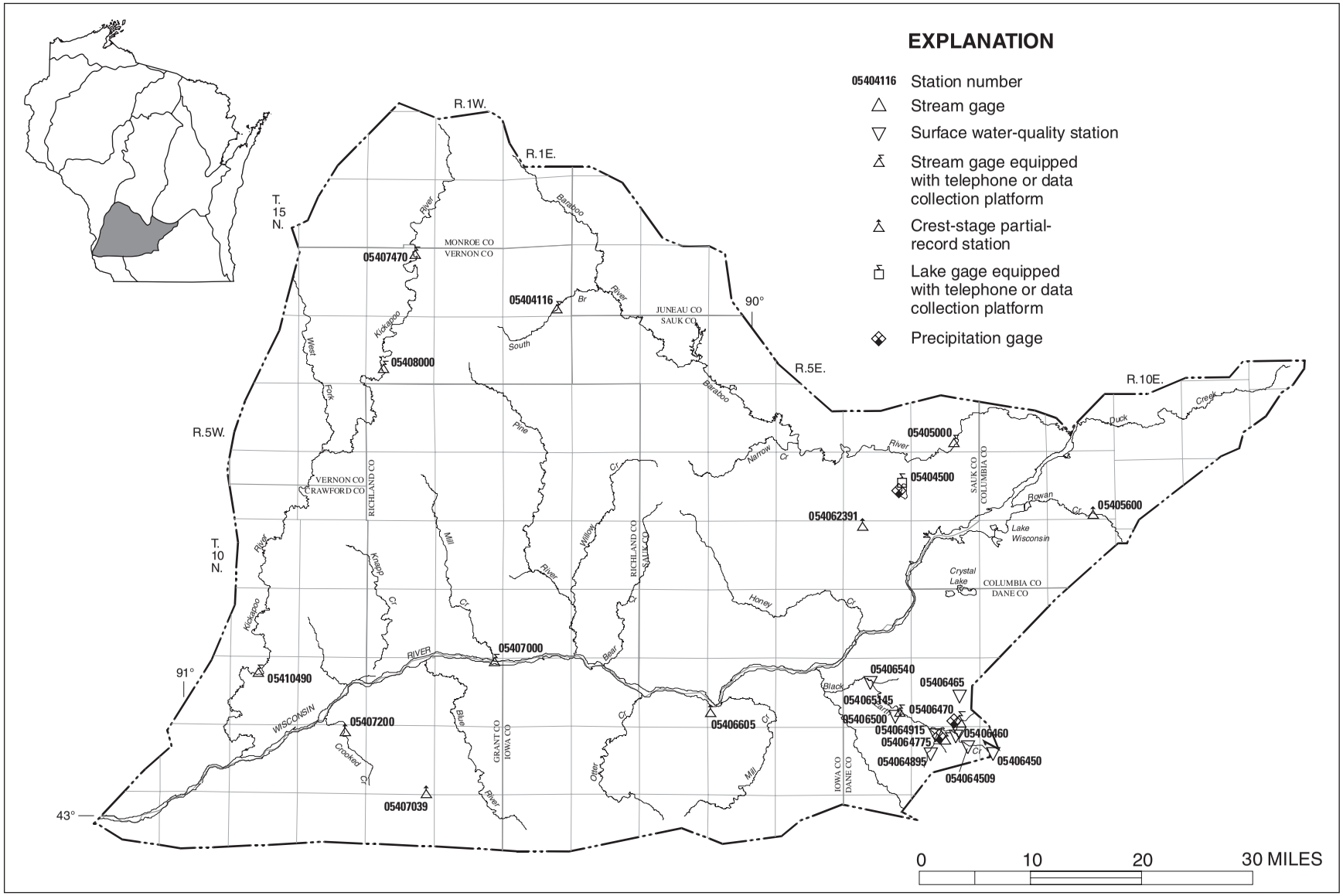
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,810	10,900	3,760	e4,000	e5,700	5,180	9,120	4,830	3,410	3,500	3,280	2,610
2	2,370	13,100	3,520	e5,800	e4,800	5,160	9,060	5,200	3,380	3,360	3,400	2,730
3	2,620	8,810	3,830	e6,500	e4,200	4,100	9,050	5,680	3,730	2,910	3,140	2,790
4	2,820	6,300	4,920	e7,200	5,330	3,910	11,200	4,470	4,590	3,120	3,070	2,610
5	2,780	5,950	4,160	e7,400	6,040	4,140	18,700	3,920	4,790	2,960	3,230	2,490
6	2,770	5,110	4,190	e7,400	5,160	4,930	19,800	3,180	4,850	2,970	2,980	1,980
7	2,900	4,770	5,570	e6,800	4,830	5,540	16,600	3,920	5,400	2,600	2,960	1,810
8	3,290	5,050	5,280	e6,200	5,960	6,180	15,000	4,810	6,820	2,870	2,720	2,380
9	3,550	3,890	4,140	e6,400	6,350	5,190	15,000	3,810	4,910	2,770	2,630	2,290
10	3,130	3,260	4,480	e6,000	5,730	4,410	12,200	5,160	4,500	2,770	2,700	2,410
11	2,820	3,510	6,260	e5,800	6,120	5,280	10,400	4,560	5,050	2,680	2,730	2,240
12	2,670	3,730	6,450	5,650	6,450	5,720	9,960	5,520	6,060	2,730	2,940	2,350
13	2,500	3,510	6,680	5,680	6,450	5,430	5,120	3,770	6,700	2,770	2,790	2,210
14	2,780	3,780	6,830	5,550	6,710	4,780	6,930	3,750	7,520	2,740	2,700	2,580
15	2,570	4,960	5,480	e5,400	7,400	4,250	6,510	5,610	14,300	2,620	2,840	2,460
16	2,540	3,170	4,680	e5,100	7,120	4,360	7,270	6,810	16,200	2,660	2,850	2,600
17	2,660	3,430	4,450	e5,200	6,290	3,810	4,190	5,700	8,470	2,650	2,630	2,580
18	2,490	4,410	4,770	e5,800	5,310	4,130	5,180	5,370	6,120	2,710	2,920	2,640
19	2,910	4,470	e2,800	e5,300	5,110	4,610	4,990	6,630	6,500	2,610	2,710	2,790
20	2,530	4,590	e4,300	e5,800	5,350	4,650	4,890	6,890	4,950	2,570	2,900	e2,300
21	2,690	4,890	4,800	e5,700	5,340	4,510	8,980	6,920	3,890	2,830	2,650	e1,400
22	2,580	4,810	5,030	e5,800	5,470	4,530	10,500	7,340	3,050	2,800	2,610	1,810
23	3,010	5,140	e5,000	e6,500	5,760	3,930	19,000	7,400	3,050	2,940	2,610	2,770
24	2,650	5,340	e4,200	e6,500	4,400	3,710	14,300	6,660	2,810	2,660	2,740	2,800
25	3,070	5,110	e3,900	e5,900	4,760	4,390	8,090	5,170	3,790	2,670	2,770	2,850
26	4,060	4,100	e3,700	e5,800	5,340	4,040	6,330	4,680	4,070	4,020	2,750	2,760
27	4,600	3,770	e4,200	e6,000	5,290	4,260	6,540	4,290	3,230	5,560	2,590	2,600
28	3,590	4,870	e4,800	e6,000	3,750	4,530	7,420	4,630	3,220	4,430	2,620	2,790
29	3,660	5,150	e5,000	e6,000	---	6,360	7,650	4,830	3,580	3,600	2,660	2,770
30	6,090	4,370	e5,300	e6,500	---	8,570	6,810	4,480	3,480	3,670	2,740	2,800
31	8,100	---	e4,800	e6,500	---	9,220	---	3,580	---	3,690	2,850	---
TOTAL	99,610	154,250	147,280	186,180	156,520	153,810	296,790	159,570	162,420	95,440	87,710	74,200
MEAN	3,213	5,142	4,751	6,006	5,590	4,962	9,893	5,147	5,414	3,079	2,829	2,473
MAX	8,100	13,100	6,830	7,400	7,400	9,220	19,800	7,400	16,200	5,560	3,400	2,850
MIN	2,370	3,170	2,800	4,000	3,750	3,710	4,190	3,180	2,810	2,570	2,590	1,400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2005, BY WATER YEAR (WY)

MEAN	5,822	6,145	5,049	4,786	5,036	8,008	12,940	9,535	8,774	5,345	4,345	5,764
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1935 - 2005	
ANNUAL TOTAL	2,471,770		1,773,780			
ANNUAL MEAN	6,753		4,860		6,791	
HIGHEST ANNUAL MEAN					12,420	1973
LOWEST ANNUAL MEAN					2,993	1977
HIGHEST DAILY MEAN	35,700	Jun 16	19,800	Apr 6	71,200	Sep 14, 1938
LOWEST DAILY MEAN	(a)2,370	Oct 2	(e)1,400	(a)Sep 21	1,060	Aug 19, 1936
ANNUAL SEVEN-DAY MINIMUM	(a)2,600	Oct 12	(a)2,210	Sep 6	1,210	Aug 10, 1988
MAXIMUM PEAK FLOW			20,900	Apr 23	72,200	Sep 14, 1938
MAXIMUM PEAK STAGE			9.71	Apr 23	(b)23.83	Sep 14, 1938
10 PERCENT EXCEEDS	13,600		7,150		12,100	
50 PERCENT EXCEEDS	4,740		4,450		5,150	
90 PERCENT EXCEEDS	2,820		2,630		2,890	

(a) Regulation at dam
(b) Present datum
(e) Estimated



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

LOWER WISCONSIN RIVER BASIN

05404116 SOUTH BRANCH BARABOO RIVER AT HILLSBORO, WI

LOCATION.--Lat 43°39'10", long 90°20'09", in NE ¼ NE ¼ sec.35, T.14 N., R.1 E., Vernon County, Hydrologic Unit 07070004, on left bank 220 ft upstream from County Highway FF at Hillsboro, and 6.3 mi upstream from mouth.

DRAINAGE AREA.--39.1 mi^2.

PERIOD OF RECORD.--July 1988 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 927.28 ft above NGVD of 1929 (levels by Mid-State Associates, Baraboo, WI).

REMARKS.--Records good except those for estimated daily discharges, which are fair (see Introduction). Flows are occasionally regulated by dam 0.35 mi upstream. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	18	15	14	13	14	34	14	11	11	9.4	8.7
2	26	23	15	20	13	13	27	14	11	11	9.0	7.8
3	15	19	15	15	13	13	25	14	10	11	8.8	7.9
4	14	17	15	13	15	14	24	13	12	11	9.1	8.0
5	14	16	15	13	31	36	24	13	17	11	8.2	8.2
6	14	16	17	13	207	141	24	14	13	10	8.0	7.9
7	14	16	29	13	189	174	26	13	32	10	8.1	8.1
8	14	15	26	13	30	35	21	13	21	10	8.0	9.5
9	14	15	21	13	19	21	20	18	14	10	8.7	9.7
10	14	15	32	13	16	20	19	16	12	9.9	11	9.1
11	14	15	26	13	17	18	18	33	13	9.5	12	8.2
12	15	14	20	15	28	17	21	22	15	9.5	20	8.0
13	14	14	16	14	70	16	21	47	14	9.5	12	9.5
14	15	14	14	9.1	134	17	17	23	65	9.5	11	10
15	15	15	14	e9.0	47	17	16	22	34	9.2	10	8.8
16	15	15	15	e9.0	24	19	17	18	16	8.9	9.4	8.6
17	15	16	14	e9.0	16	19	20	17	14	8.9	9.2	8.6
18	14	15	14	e9.2	15	18	17	16	12	8.9	14	8.5
19	15	20	11	e9.5	15	17	18	26	12	8.2	17	15
20	15	30	12	12	16	18	30	22	11	9.7	12	12
21	14	18	13	13	15	35	20	17	11	28	10	9.6
22	15	17	e12	13	15	43	17	15	10	19	9.3	10
23	41	16	e10	13	14	44	17	14	9.7	19	9.4	10
24	19	15	e10	13	14	48	15	13	11	16	9.7	10
25	16	15	e10	13	15	49	15	13	18	20	9.7	14
26	23	16	e11	13	15	48	17	13	14	108	10	14
27	31	23	e11	12	14	60	16	12	13	15	11	11
28	20	24	e11	12	14	69	15	13	12	12	9.7	13
29	26	18	e12	13	---	72	14	13	11	11	9.1	16
30	27	16	15	13	---	68	14	13	18	10	8.9	11
31	20	---	18	13	---	64	---	12	---	10	9.0	---
TOTAL	555	516	489	389.8	1,044	1,257	599	536	486.7	464.7	320.7	300.7
MEAN	17.9	17.2	15.8	12.6	37.3	40.5	20.0	17.3	16.2	15.0	10.3	10.0
MAX	41	30	32	20	207	174	34	47	65	108	20	16
MIN	14	14	10	9.0	13	13	14	12	9.7	8.2	8.0	7.8
CFSM	0.46	0.44	0.40	0.32	0.95	1.04	0.51	0.44	0.41	0.38	0.26	0.26
IN.	0.53	0.49	0.47	0.37	0.99	1.20	0.57	0.51	0.46	0.44	0.31	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	15.3	17.3	14.1	13.3	19.6	35.3	33.1	30.0	33.5	18.4	15.8	20.2
MAX	26.1	28.6	22.9	26.8	37.3	59.3	70.9	105	75.3	52.3	28.2	95.3
(WY)	(1994)	(1993)	(1993)	(1996)	(2005)	(2004)	(1993)	(2004)	(1990)	(1993)	(1993)	(1992)
MIN	6.79	8.14	4.42	8.95	6.91	14.5	8.47	13.2	8.38	5.83	6.69	6.12
(WY)	(1990)	(1991)	(1990)	(1991)	(1989)	(2000)	(1990)	(1989)	(1989)	(1989)	(1988)	(1990)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	11,512.1		6,958.6			
ANNUAL MEAN	31.5		19.1		22.3	
HIGHEST ANNUAL MEAN					35.1	1993
LOWEST ANNUAL MEAN					13.0	1989
HIGHEST DAILY MEAN	596	Mar 5	207	Feb 6	1,190	Sep 16, 1992
LOWEST DAILY MEAN	6.5	Jan 24	7.8	Sep 2	(a)1.0	Sep 1, 2003
ANNUAL SEVEN-DAY MINIMUM	(b)6.9	Jan 23	8.1	Sep 1	(c)1.4	Jul 22, 1994
MAXIMUM PEAK FLOW			402	Mar 6	(d)4,010	Jun 29, 1990
MAXIMUM PEAK STAGE			10.20	Mar 6	(f)15.60	Jun 29, 1990
ANNUAL RUNOFF (CFSM)	0.804		0.488		0.569	
ANNUAL RUNOFF (INCHES)	10.95		6.62		7.73	
10 PERCENT EXCEEDS	41		28		33	
50 PERCENT EXCEEDS	16		14		15	
90 PERCENT EXCEEDS	9.5		9.3		8.3	

05404116 SOUTH BRANCH BARABOO RIVER AT HILLSBORO, WI—Continued

(a) Result of gate regulation at dam 0.35 mi upstream
(b) Ice affected
(c) Result of closing dam gates to fill lake 0.35 mi upstream
(d) From rating curve extended above 1,100 ft^3/s, on basis of contracted-area measurement
(e) Estimated
(f) From floodmark on gage house

05404500 DEVILS LAKE NEAR BARABOO, WI

LOCATION.--Lat 43°25'35", long 89°43'40", in SW¼ SE¼ sec.13, T.11 N., R.6 E., Sauk County, Hydrologic Unit 07070004, in Devils Lake State Park, 3.5 mi south of Baraboo.

DRAINAGE AREA.--4.79 mi^2. Area of Devils Lake, 361 acres.

GAGE-HEIGHT RECORD

PERIOD OF RECORD.--June 1922 to August 1930, June to August 1932, June 1934 to September 1981 (fragmentary). October 1981 to September 1984, data unpublished in district files. October 1984 to current year.

REVISED RECORDS.--WDR WI-78-1: Drainage area.

GAGE.--Water-stage recorder installed July 17, 1991. Datum of gage is 955.00 ft, above NGVD of 1929.

REMARKS.--Lake has no surface outlet. Water removed from lake by siphon Oct. 1-16 and Sept. 6-30. No water diverted into lake (during runoff events) during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 14.13 ft, July 18, 1993; minimum observed, 1.49 ft Feb. 8, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 8.95 ft, Apr. 11; minimum recorded, 7.01 ft, Sept. 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.74	8.12	7.90	7.90	8.01	8.15	8.74	8.68	8.66	8.29	7.95	7.70
2	8.71	8.14	7.89	7.95	8.00	8.15	8.78	8.66	8.64	8.27	7.93	7.67
3	8.66	8.13	7.88	7.95	8.00	8.15	8.81	8.64	8.62	8.24	7.91	7.65
4	8.60	8.11	7.87	7.95	8.00	8.15	8.83	8.63	8.60	8.25	7.90	7.63
5	8.55	8.10	7.86	7.96	8.00	8.14	8.85	8.61	8.61	8.23	7.88	7.61
6	8.49	8.08	7.88	8.00	8.00	8.14	8.86	8.61	8.59	8.21	7.85	7.59
7	8.45	8.06	7.93	8.01	8.03	8.16	8.87	8.61	8.57	8.19	7.83	7.55
8	8.45	8.05	7.95	8.00	8.04	8.16	8.88	8.60	8.55	8.18	7.81	7.51
9	8.41	8.04	7.95	8.00	8.05	8.16	8.88	8.61	8.55	8.15	7.79	7.48
10	8.37	8.01	7.99	7.99	8.05	8.18	8.87	8.61	8.56	8.13	7.78	7.45
11	8.33	8.00	8.02	7.99	8.05	8.19	8.87	8.69	8.54	8.11	7.78	7.42
12	8.29	7.99	8.01	8.00	8.05	8.20	8.88	8.71	8.54	8.08	7.85	7.39
13	8.25	7.97	7.99	8.00	8.07	8.20	8.88	8.76	8.58	8.06	7.83	7.37
14	8.20	7.96	7.98	7.99	8.11	8.20	8.88	8.78	8.64	8.04	7.81	7.34
15	8.16	7.95	7.98	7.99	8.12	8.19	8.87	8.77	8.64	8.02	7.79	7.31
16	8.12	7.95	7.96	7.99	8.12	8.19	8.86	8.77	8.61	8.00	7.77	7.27
17	8.10	7.95	7.96	7.98	8.12	8.19	8.86	8.77	8.58	7.98	7.75	7.23
18	8.08	7.94	7.95	7.98	8.12	8.22	8.86	8.77	8.56	7.95	7.83	7.19
19	8.07	7.95	7.93	7.97	8.12	8.25	8.85	8.78	8.53	7.91	7.97	7.22
20	8.06	7.96	7.92	7.98	8.14	8.25	8.84	8.78	8.51	7.92	7.95	7.22
21	8.05	7.95	7.92	7.99	8.15	8.25	8.83	8.77	8.49	7.96	7.93	7.19
22	8.05	7.94	7.91	8.04	8.15	8.25	8.82	8.76	8.46	7.97	7.90	7.19
23	8.15	7.93	7.91	8.03	8.15	8.24	8.79	8.74	8.43	7.96	7.87	7.16
24	8.16	7.91	7.90	8.03	8.15	8.24	8.77	8.73	8.40	7.96	7.85	7.13
25	8.15	7.90	7.90	8.03	8.15	8.25	8.75	8.72	8.41	7.96	7.83	7.12
26	8.14	7.89	7.89	8.03	8.14	8.25	8.74	8.70	8.40	8.09	7.81	7.11
27	8.14	7.91	7.89	8.02	8.14	8.25	8.74	8.70	8.39	8.06	7.80	7.09
28	8.14	7.92	7.89	8.02	8.15	8.27	8.72	8.68	8.36	8.04	7.78	7.08
29	8.14	7.92	7.88	8.01	---	8.33	8.71	8.67	8.34	8.01	7.76	7.06
30	8.14	7.91	7.88	8.01	---	8.47	8.69	8.69	8.35	7.99	7.74	7.03
31	8.13	---	7.89	8.01	---	8.67	---	8.67	---	7.97	7.72	---
MEAN	8.27	7.99	7.92	7.99	8.09	8.23	8.82	8.70	8.52	8.07	7.84	7.33
MAX	8.74	8.14	8.02	8.04	8.15	8.67	8.88	8.78	8.66	8.29	7.97	7.70
MIN	8.05	7.89	7.86	7.90	8.00	8.14	8.69	8.60	8.34	7.91	7.72	7.03

05404500 DEVILS LAKE NEAR BARABOO, WI—Continued

PRECIPITATION QUANTITY

PERIOD OF RECORD.-October 1996 to current year (non-frozen precipitation).

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Gage established on July 17, 1991. Prior to Oct. 1, 1996, record was not published. Rainfall estimated to be 0.00 for December 30, Jan. 6, 23-25, Feb. 6, 9-11, 20, 22-25 and Mar. 3 and 7 because recorded precipitation interpreted as snowmelt.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 5.01 in., June 1, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 2.93 in., Aug. 18.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.48	0.32	0.00	0.17	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
2	0.00	0.10	0.01	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.36	0.00
5	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00
6	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
7	0.19	0.00	0.86	0.00	0.13	0.00	0.00	0.02	0.00	0.00	0.00	0.03
8	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
9	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.25	0.42	0.00	0.20	0.00
10	0.00	0.09	0.53	0.00	0.00	0.07	0.00	0.00	0.03	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.10	0.00	1.23	0.00
12	0.00	0.00	0.07	0.24	0.00	0.00	0.32	0.13	0.03	0.00	0.01	0.00
13	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.41	1.24	0.00	0.00	0.14
14	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.04	0.32	0.00	0.00	0.00
15	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00
18	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	2.93	0.00
19	0.04	0.33	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.99
20	0.00	0.01	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.34	0.00	0.01
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00
22	0.23	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.56
23	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.12	1.58	0.01	0.19
26	0.24	0.11	0.00	0.00	0.00	0.00	0.08	0.01	0.07	0.35	0.10	0.00
27	0.00	0.52	0.00	0.00	0.00	0.00	0.02	0.24	0.00	0.00	0.00	0.00
28	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43
29	0.03	0.00	0.00	0.00	---	0.00	0.00	0.36	0.00	0.00	0.00	0.00
30	0.01	0.00	0.00	0.00	---	0.71	0.00	0.01	0.36	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.05	---	0.00	---	0.00	0.00	---
TOTAL	2.65	1.56	1.95	0.77	0.77	1.11	0.57	2.94	3.22	4.17	4.84	2.36

CAL YR 2004 TOTAL 42.73
WTR YR 2005 TOTAL 26.91

05405000 BARABOO RIVER NEAR BARABOO, WI

LOCATION.--Lat 43°28'51", long 89°38'09", in NW ¼ NW ¼ sec.35, T.12 N., R.7 E., Sauk County, Hydrologic Unit 07070004, on left bank 50 ft downstream from highway bridge, 0.3 mi downstream from Rowley Creek and 5.3 mi east of Baraboo.

DRAINAGE AREA.--609 mi^2.

PERIOD OF RECORD.--December 1913 to March 1922. September 1942 to current year.

REVISED RECORDS.--WSP 455: 1915. WSP 505: 1917(M). WSP 1438: 1914, 1915(M), 1916-17, 1918-20(M), 1944(M), 1949(M). WSP 1914: 1948, 1950, 1956. WDR WI-75-1: 1968. WDR WI-77-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 788.21 ft above NGVD of 1929. Dec. 18, 1913, to Mar. 31, 1922, nonrecording gage at bridge 2.3 mi upstream at datum 7.6 ft higher. Sept. 24, 1942, to June 10, 1963, nonrecording gage at present site and datum.

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

EXTREMES OUTSIDE THE PERIOD OF RECORD.--Flood of Aug. 6, 1935, reached a stage of 15.8 ft from floodmarks, site and datum in use in 1922, discharge, 5,100 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244	469	393	e270	e250	298	1,160	286	279	227	234	189
2	258	467	337	e330	e250	285	1,050	280	266	234	222	184
3	272	425	305	e320	e250	244	908	269	244	224	215	179
4	307	411	293	e290	e260	253	712	263	235	274	213	173
5	325	398	284	e280	306	300	590	258	243	300	204	170
6	291	369	308	e270	606	489	546	257	270	268	199	170
7	269	337	384	e260	1,020	963	524	252	320	228	190	170
8	280	313	483	e250	1,200	1,150	506	254	308	209	184	179
9	268	302	531	e250	1,150	1,110	481	293	274	198	182	176
10	264	293	573	e250	1,090	1,070	449	313	301	190	187	179
11	266	288	654	e250	1,040	939	416	405	325	185	191	180
12	265	285	679	e260	891	582	413	494	461	181	285	178
13	265	281	640	e250	662	389	433	538	428	177	300	179
14	267	275	525	e250	979	341	435	550	394	173	293	181
15	270	268	294	e250	1,280	318	415	570	434	172	255	181
16	274	267	361	e250	1,300	326	382	530	405	169	221	190
17	266	274	363	e250	1,240	326	359	445	424	165	203	190
18	270	286	353	e250	1,120	340	352	390	345	163	245	181
19	278	310	241	e240	695	342	362	372	273	159	412	218
20	280	327	e230	e230	448	332	366	378	244	167	496	203
21	279	359	e230	e240	391	332	354	384	230	203	381	217
22	279	393	e230	e250	354	393	398	386	221	216	277	254
23	383	391	e230	e250	335	567	398	347	214	283	228	241
24	419	345	e230	e250	319	725	356	312	209	296	208	237
25	457	312	e230	e250	307	780	327	292	223	284	200	235
26	459	297	e230	e250	299	767	311	281	249	545	200	236
27	422	324	e240	e250	307	758	305	269	261	588	203	240
28	418	364	e240	e250	310	801	313	258	244	603	202	263
29	450	431	e240	e250	---	909	314	255	225	522	198	263
30	450	437	e240	e250	---	1,100	296	264	234	356	196	250
31	444	---	e250	e250	---	1,240	---	271	---	262	192	---
TOTAL	9,939	10,298	10,821	7,990	18,659	18,769	14,231	10,716	8,783	8,221	7,416	6,086
MEAN	321	343	349	258	666	605	474	346	293	265	239	203
MAX	459	469	679	330	1,300	1,240	1,160	570	461	603	496	263
MIN	244	267	230	230	250	244	296	252	209	159	182	170
CFSM	0.53	0.56	0.57	0.42	1.09	0.99	0.78	0.57	0.48	0.44	0.39	0.33
IN.	0.61	0.63	0.66	0.49	1.14	1.15	0.87	0.65	0.54	0.50	0.45	0.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

MEAN	283	329	250	248	341	796	705	460	462	326	266	314
MAX	842	942	519	945	1,135	1,759	2,588	1,518	1,575	1,495	1,018	1,285
(WY)	(1973)	(1986)	(1993)	(1946)	(1966)	(1948)	(1993)	(1973)	(2004)	(1993)	(1980)	(1965)
MIN	117	116	76.2	78.3	89.3	170	253	138	112	112	95.8	100
(WY)	(1959)	(1959)	(1959)	(1959)	(1959)	(1964)	(1946)	(1958)	(1958)	(1965)	(1958)	(1958)

05405000 BARABOO RIVER NEAR BARABOO, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1914 - 2005	
ANNUAL TOTAL	218,744		131,929			
ANNUAL MEAN	598		361		398	
HIGHEST ANNUAL MEAN					824	1993
LOWEST ANNUAL MEAN					158	1958
HIGHEST DAILY MEAN	3,980	May 26	1,300	Feb 16	7,540	Mar 26, 1917
LOWEST DAILY MEAN	(a)150	Jan 23-25	159	Jul 19	26	Oct 6, 1950
ANNUAL SEVEN-DAY MINIMUM	(a)157	Jan 21	167	Jul 14	(a)72	Dec 8, 1958
MAXIMUM PEAK FLOW			1,340	Feb 15	(b)7,900	Mar 26, 1917
MAXIMUM PEAK STAGE			11.74	Feb 15	22.78	Jul 18, 1993
ANNUAL RUNOFF (CFSM)	0.981		0.594		0.654	
ANNUAL RUNOFF (INCHES)	13.36		8.06		8.88	
10 PERCENT EXCEEDS	1,230		589		783	
50 PERCENT EXCEEDS	330		284		252	
90 PERCENT EXCEEDS	200		197		140	

(a) Ice affected
(b) Estimated gage height, 17.50 ft, site and datum then in use, from rating curve extended above 6,000 ft^3/s
(e) Estimated

05406450 BLACK EARTH CREEK NEAR CROSS PLAINS, WI

LOCATION.--Lat 43°05'16", long 89°34'35" in NW $^1/_4$ NW $^1/_4$ sec.17, T.7 N., R.8 E., Dane County, Hydrologic Unit 07070005, just upstream from Twin Valley Road bridge, 3.8 mi southeast of Cross Plains.

DRAINAGE AREA.--3.32 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 2004 to September 2005 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 920 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	1.2	0.87	0.93	0.88	3.7	0.80	0.58	0.72	0.72	0.47
2	---	---	1.1	0.91	0.94	0.75	3.1	0.80	0.53	0.68	0.74	0.47
3	---	---	1.1	0.86	0.92	0.78	3.1	0.76	0.54	0.68	0.78	0.47
4	---	---	1.1	0.86	0.94	0.90	3.0	0.72	0.59	0.69	0.76	0.51
5	---	---	1.1	0.88	0.98	0.97	2.8	0.71	0.66	0.67	0.73	0.50
6	---	---	1.3	0.84	1.4	1.9	3.0	0.72	0.60	0.63	0.75	0.49
7	---	---	1.6	0.81	5.0	4.6	5.0	0.64	0.57	0.63	0.74	0.48
8	---	---	1.8	0.83	3.4	2.5	3.8	0.71	0.52	0.61	0.73	0.48
9	---	---	1.6	0.84	2.1	2.6	2.8	0.70	0.55	0.62	0.74	0.48
10	---	1.2	1.5	0.84	2.1	2.2	2.1	0.66	0.56	0.60	0.74	0.48
11	---	1.2	1.5	0.85	1.8	1.9	1.8	0.94	0.57	0.61	0.82	0.45
12	---	1.1	1.4	1.00	1.7	1.8	1.7	1.2	0.54	0.61	0.86	0.48
13	---	1.2	1.3	1.0	2.2	1.8	1.8	1.4	0.60	0.71	0.82	0.49
14	---	1.1	1.2	0.83	5.0	1.8	1.6	1.3	0.62	0.67	0.77	0.43
15	---	1.2	1.1	0.80	5.8	1.7	1.4	1.2	0.62	0.64	0.80	0.44
16	---	1.2	1.1	0.79	4.5	1.7	1.1	1.1	0.59	0.64	0.77	0.44
17	---	1.1	1.1	0.78	2.9	1.7	1.1	0.87	0.57	0.64	0.81	0.45
18	---	1.1	1.1	0.78	1.7	1.6	0.94	0.75	0.58	0.66	0.94	0.45
19	---	1.2	0.94	0.78	1.5	1.5	0.93	0.90	0.57	0.63	0.89	0.49
20	---	1.3	0.96	0.80	1.5	1.5	0.92	0.91	0.61	0.70	0.87	0.42
21	---	1.2	0.94	0.82	1.4	1.5	0.90	0.81	0.62	0.98	0.84	0.43
22	---	1.2	0.88	0.83	1.3	1.5	0.91	0.82	0.62	0.72	0.84	0.40
23	---	1.2	0.84	0.78	1.2	1.7	0.96	0.72	0.66	0.75	0.83	0.37
24	---	1.1	0.85	0.84	1.1	2.2	0.91	0.74	0.71	0.81	0.81	0.40
25	---	1.1	0.85	0.87	1.1	2.1	0.86	0.66	0.75	1.0	0.75	0.48
26	---	1.1	0.84	0.84	1.0	2.0	0.86	0.65	0.74	1.0	0.77	0.45
27	---	1.2	0.86	0.76	1.0	2.4	0.89	0.63	0.74	0.77	0.71	0.42
28	---	1.3	0.88	0.81	0.97	3.4	0.87	0.64	0.75	0.71	0.66	0.44
29	---	1.2	0.85	0.87	---	3.4	0.77	0.66	0.75	0.70	0.58	0.47
30	---	1.2	0.94	0.88	---	4.3	0.78	0.63	0.77	0.71	0.59	0.44
31	---	---	0.90	0.90	---	5.1	---	0.59	---	0.76	0.52	---
TOTAL	---	24.7	34.73	26.15	56.38	64.68	54.40	25.34	18.68	21.95	23.68	13.67
MEAN	---	1.18	1.12	0.84	2.01	2.09	1.81	0.82	0.62	0.71	0.76	0.46
MAX	---	1.3	1.8	1.0	5.8	5.1	5.0	1.4	0.77	1.0	0.94	0.51
MIN	---	1.1	0.84	0.76	0.92	0.75	0.77	0.59	0.52	0.60	0.52	0.37
CFSM	---	0.35	0.34	0.25	0.61	0.63	0.55	0.25	0.19	0.21	0.23	0.14
IN.	---	0.28	0.39	0.29	0.63	0.72	0.61	0.28	0.21	0.25	0.27	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

MEAN	---	1.18	1.12	0.84	2.01	2.09	1.81	0.82	0.62	0.71	0.76	0.46
MAX	---	1.18	1.12	0.84	2.01	2.09	1.81	0.82	0.62	0.71	0.76	0.46
(WY)	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	---	1.18	1.12	0.84	2.01	2.09	1.81	0.82	0.62	0.71	0.76	0.46
(WY)	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR (November 10 - September)	
ANNUAL TOTAL	364.36	
ANNUAL MEAN	1.12	
HIGHEST DAILY MEAN	5.8	Feb 15
LOWEST DAILY MEAN	0.37	Sep 23
ANNUAL SEVEN-DAY MINIMUM	0.42	Sep 20
MAXIMUM PEAK FLOW	7.0	Mar 7
MAXIMUM PEAK STAGE	11.36	Mar 7
INSTANTANEOUS LOW FLOW	0.29	Sep 23
ANNUAL RUNOFF (CFSM)	0.338	
ANNUAL RUNOFF (INCHES)	4.08	
10 PERCENT EXCEEDS	1.9	
50 PERCENT EXCEEDS	0.85	
90 PERCENT EXCEEDS	0.53	

054064509 BLACK EARTH CREEK LOW FLOW NO. 3 NEAR CROSS PLAINS, WI

LOCATION.--Lat 43°05'49", long 89°37'33" in SE ¼ NE ¼ sec.11, T.7 N., R.7 E., Dane County, Hydrologic Unit 07070005, 60 ft upstream from Stagecoach Road, 1.7 mi southeast of Cross Plains.

DRAINAGE AREA.--9.02 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 2004 to September 2005 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 990 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	0.93	e0.71	e1.2	e1.3	7.0	1.6	0.83	0.75	0.55	0.31
2	---	---	1.1	e7.7	e1.2	e1.2	5.4	1.7	0.82	0.74	0.53	0.34
3	---	---	1.0	e3.3	e1.2	e1.2	4.8	1.7	0.74	0.72	0.56	0.36
4	---	---	1.1	e0.72	e1.3	e1.5	4.3	1.6	0.74	0.76	0.52	0.38
5	---	---	1.2	e0.68	e4.0	e1.6	4.0	1.5	0.86	0.74	0.45	0.39
6	---	---	1.3	e0.67	e16	e13	4.1	1.2	0.84	0.72	0.48	0.38
7	---	---	1.8	e0.68	e19	e11	8.8	0.92	0.82	0.71	0.47	0.35
8	---	---	2.0	e0.68	e7.2	e3.2	5.9	0.90	0.68	0.73	0.45	0.32
9	---	---	1.6	e0.71	e3.5	e2.6	3.8	0.94	0.64	0.74	0.44	0.32
10	---	1.3	1.6	e0.84	e3.4	e2.3	2.5	0.99	0.66	0.75	0.46	0.34
11	---	1.2	1.5	e0.84	3.0	e2.1	1.9	1.4	0.67	0.77	0.46	0.34
12	---	1.1	1.3	e2.0	3.6	e1.9	1.8	1.6	0.67	0.71	0.50	0.34
13	---	1.2	e1.1	e3.7	13	e1.8	2.1	1.8	0.69	0.82	0.46	0.38
14	---	1.1	e1.0	e2.1	23	e1.8	1.8	1.8	0.69	0.77	0.43	0.34
15	---	1.2	e1.1	e1.3	11	e1.8	1.6	1.8	0.65	0.75	0.41	0.33
16	---	1.3	e1.2	e1.2	e6.0	e1.9	1.3	1.6	0.69	0.77	0.39	0.33
17	---	1.2	e1.1	e1.1	e4.0	e1.8	1.2	1.3	0.65	0.75	0.38	0.32
18	---	1.2	e1.1	e1.1	e2.4	e1.9	1.1	1.2	0.63	0.78	0.42	0.32
19	---	1.2	e1.0	e1.1	e2.2	e1.9	1.1	1.5	0.60	0.62	0.42	0.35
20	---	1.2	e1.0	e1.1	e2.2	e2.2	0.94	1.4	0.68	0.60	0.41	0.33
21	---	1.0	e1.0	e1.1	e2.1	e2.4	1.0	1.3	0.72	0.80	0.36	0.33
22	---	1.1	e0.96	e1.1	e1.9	e2.7	0.99	1.3	0.72	0.66	0.37	0.36
23	---	1.0	e0.87	e1.1	e1.8	e3.9	1.1	1.2	0.77	0.63	0.39	0.30
24	---	0.97	e0.80	e1.1	e1.7	e3.4	1.2	1.2	0.85	0.68	0.41	0.32
25	---	0.97	e0.78	e1.1	e1.6	e2.9	1.2	1.0	0.82	0.79	0.40	0.37
26	---	0.99	e0.96	e1.1	e1.5	e2.8	1.3	1.0	0.76	0.82	0.39	0.38
27	---	1.1	e1.1	e1.1	e1.5	e2.7	1.5	0.93	0.79	0.62	0.37	0.32
28	---	1.0	e1.1	e1.1	e1.4	e3.5	1.7	0.91	0.79	0.58	0.34	0.36
29	---	0.94	e0.80	e1.1	---	e4.3	1.6	0.93	0.77	0.53	0.33	0.44
30	---	0.92	e0.84	e1.1	---	7.6	1.6	0.93	0.80	0.54	0.33	0.39
31	---	---	e0.92	e1.2	---	10	---	0.87	---	0.60	0.32	---
TOTAL	---	23.19	35.16	44.43	141.9	104.2	78.63	40.02	22.04	21.95	13.20	10.44
MEAN	---	1.10	1.13	1.43	5.07	3.36	2.62	1.29	0.73	0.71	0.43	0.35
MAX	---	1.3	2.0	7.7	23	13	8.8	1.8	0.86	0.82	0.56	0.44
MIN	---	0.92	0.78	0.67	1.2	1.2	0.94	0.87	0.60	0.53	0.32	0.30
CFSM	---	0.12	0.13	0.16	0.56	0.37	0.29	0.14	0.08	0.08	0.05	0.04
IN.	---	0.10	0.15	0.18	0.59	0.43	0.32	0.17	0.09	0.09	0.05	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

MEAN	---	1.10	1.13	1.43	5.07	3.36	2.62	1.29	0.73	0.71	0.43	0.35
MAX	---	1.10	1.13	1.43	5.07	3.36	2.62	1.29	0.73	0.71	0.43	0.35
(WY)	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	---	1.10	1.13	1.43	5.07	3.36	2.62	1.29	0.73	0.71	0.43	0.35
(WY)	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR (November 10 - September)	
ANNUAL TOTAL	535.16	
ANNUAL MEAN	1.65	
HIGHEST DAILY MEAN	23	Feb 14
LOWEST DAILY MEAN	0.30	Sep 23
ANNUAL SEVEN-DAY MINIMUM	0.33	Sep 15
MAXIMUM PEAK FLOW	47	Feb 13
MAXIMUM PEAK STAGE	(a)8.40	Feb 6
ANNUAL RUNOFF (CFSM)	0.183	
ANNUAL RUNOFF (INCHES)	2.21	
10 PERCENT EXCEEDS	3.2	
50 PERCENT EXCEEDS	1.0	
90 PERCENT EXCEEDS	0.38	

(a) Ice affected
(e) Estimated

05406460 BLACK EARTH CREEK AT CROSS PLAINS, WI

LOCATION.--Lat 43°06'40", long 89°38'45" in NW ¼ SE ¼ sec.3, T.7 N., R.7 E., Dane County, Hydrologic Unit 07070005, at bridge at County Trunk P at Cross Plains.

DRAINAGE AREA.--12.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1984 to September 1986, October 1989 to July 1993, November 2004 to September 2005 (discontinued).

REVISED RECORDS.--WDR WI-90-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 880 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good (see Introduction).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	9.0	9.6	8.4	11	18	12	11	7.9	8.4	6.8
2	---	---	9.0	12	8.2	10	17	12	11	7.9	8.2	7.1
3	---	---	9.0	9.8	8.2	10	17	12	10	7.9	8.4	7.5
4	---	---	8.7	9.5	8.4	11	16	12	11	8.0	8.2	7.5
5	---	---	8.6	9.4	9.8	14	16	12	11	8.2	7.6	7.2
6	---	---	9.3	9.0	38	37	18	11	11	7.8	8.0	6.9
7	---	---	11	8.7	49	34	20	11	11	8.0	7.9	7.1
8	---	---	10	9.0	16	15	17	11	11	7.9	7.7	7.1
9	---	---	9.9	8.9	13	15	16	11	9.6	8.1	7.8	7.0
10	---	14	9.9	8.9	12	14	14	11	9.8	8.0	7.9	6.7
11	---	14	9.8	8.7	12	14	13	12	9.5	7.9	8.3	6.1
12	---	14	9.6	9.6	13	13	14	12	9.3	7.8	8.4	5.8
13	---	14	9.9	12	30	13	14	13	9.2	8.3	8.2	6.0
14	---	14	10	9.2	49	13	14	13	9.4	8.2	8.1	5.6
15	---	14	9.6	8.1	27	13	13	12	9.0	8.3	8.1	5.6
16	---	14	9.8	8.0	20	14	13	12	9.0	8.1	8.1	5.5
17	---	14	9.5	7.8	17	13	13	11	8.9	8.2	8.1	5.3
18	---	14	10	7.5	15	14	13	11	8.8	8.2	8.5	5.3
19	---	14	9.2	7.5	14	14	13	12	8.6	8.0	8.4	5.6
20	---	14	9.6	7.8	14	15	13	12	8.8	8.0	8.3	5.0
21	---	14	10	7.8	13	15	13	11	9.1	9.9	8.2	5.2
22	---	14	9.7	8.1	13	16	13	12	8.9	8.6	8.1	5.5
23	---	14	9.4	7.3	12	18	13	11	9.0	8.3	8.0	5.0
24	---	13	9.3	8.0	12	17	12	12	9.1	9.0	8.1	5.3
25	---	13	9.4	8.2	12	16	11	11	8.2	10	7.7	6.2
26	---	13	9.4	8.0	11	16	11	11	7.8	11	7.9	5.3
27	---	13	9.4	7.5	11	16	11	11	8.1	8.7	7.5	5.2
28	---	13	9.8	7.5	11	17	12	11	7.9	8.4	7.4	5.7
29	---	13	9.9	7.9	---	17	12	11	8.2	8.0	7.4	5.9
30	---	12	10	8.2	---	19	12	11	8.7	8.0	7.3	5.9
31	---	---	9.9	8.2	---	20	---	11	---	8.3	6.9	---
TOTAL	---	286	297.6	267.7	477.0	494	422	358	281.9	258.9	247.1	181.9
MEAN	---	13.6	9.60	8.64	17.0	15.9	14.1	11.5	9.40	8.35	7.97	6.06
MAX	---	14	11	12	49	37	20	13	11	11	8.5	7.5
MIN	---	12	8.6	7.3	8.2	10	11	11	7.8	7.8	6.9	5.0
CFSM	---	0.93	0.66	0.59	1.17	1.09	0.96	0.79	0.64	0.57	0.55	0.42
IN.	---	0.73	0.76	0.68	1.22	1.26	1.08	0.91	0.72	0.66	0.63	0.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2005, BY WATER YEAR (WY)

MEAN	10.2	12.0	10.6	16.9	23.7	17.2	15.6	13.3	13.0	15.2	9.77	9.84
MAX	17.4	22.2	17.5	113	123	24.1	23.6	18.9	19.7	38.7	15.1	16.7
(WY)	(1987)	(1986)	(1986)	(1995)	(1995)	(1993)	(1993)	(1986)	(1993)	(1993)	(1986)	(1986)
MIN	5.97	5.88	5.81	5.78	5.92	11.3	7.98	8.35	6.96	7.88	6.79	5.70
(WY)	(1991)	(1991)	(1991)	(1991)	(1991)	(1992)	(1990)	(1990)	(1992)	(1990)	(1990)	(1991)

05406460 BLACK EARTH CREEK AT CROSS PLAINS, WI—Continued

SUMMARY STATISTICS	FOR 2005 WATER YEAR (November 10 - September)	WATER YEARS 1985 - 2005
ANNUAL TOTAL	3,538.7	
ANNUAL MEAN	10.9	14.1
HIGHEST ANNUAL MEAN		119 1995
LOWEST ANNUAL MEAN		7.96 1991
HIGHEST DAILY MEAN	48 Feb 7	136 Feb 11, 1995
LOWEST DAILY MEAN	5.0 Sep 20, 23	5.0 (a)Sep 11, 1991
ANNUAL SEVEN-DAY MINIMUM	5.3 Sep 17	5.2 Sep 5, 1991
MAXIMUM PEAK FLOW	93 (b)Feb 14	230 Jul 5, 1993
MAXIMUM PEAK STAGE	11.15 Mar 6	13.32 Jul 5, 1993
INSTANTANEOUS LOW FLOW	4.5 (c)Sep 16	4.5 (c)Sep 16, 2005
ANNUAL RUNOFF (CFSM)	0.746	0.967
ANNUAL RUNOFF (INCHES)	9.02	13.14
10 PERCENT EXCEEDS	14	20
50 PERCENT EXCEEDS	9.7	11
90 PERCENT EXCEEDS	7.4	6.1

(a) Also occurred Sept. 20 and 23, 2005
(b) Also occurred Mar. 6
(c) Also occurred Sept. 19, 20, 23, and 27, 2005

05406465 BREWERY CREEK AT COUNTY HIGHWAY K AT CROSS PLAINS, WI

LOCATION.--Lat 43°08'56", long 89°35'50" in SW $^1/_4$ SW $^1/_4$ sec.19, T.8 N., R.8 E., Dane County, Hydrologic Unit 07070005, just upstream from County Highway K, 3.0 mi northeast of Cross Plains.

DRAINAGE AREA.--3.26 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 2004 to September 2005 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 945 ft above NGVD of 1929, from topographic map.

REMARKS.--Records are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	0.00	0.00	0.00	e0.00	e0.00	0.00	e0.00	0.00	0.00	e0.00
2	---	---	0.00	e0.18	0.00	e0.00	0.01	0.00	e0.00	e0.00	0.00	0.00
3	---	---	0.00	e0.13	e0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00
4	---	---	0.00	e0.01	e3.8	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00
5	---	---	0.00	0.00	e6.2	e0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
6	---	---	0.00	0.00	e7.4	e0.90	e0.50	e0.00	e0.00	0.00	0.00	0.00
7	---	---	0.00	0.00	e5.8	e0.07	e0.60	0.00	0.00	0.00	0.00	0.00
8	---	---	0.00	0.00	e2.2	e0.01	e0.02	e0.00	e0.00	0.00	0.00	0.00
9	---	---	0.00	0.00	e0.02	e0.00	0.00	0.00	0.00	e0.00	0.00	0.00
10	---	---	0.00	0.00	0.00	e0.00	e0.00	e0.00	e0.00	e0.00	0.00	0.00
11	---	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	e0.00	0.00	0.00	0.00
12	---	0.00	0.00	e0.04	e0.60	e0.00	0.00	0.00	e0.00	0.00	0.00	0.00
13	---	0.00	0.00	e0.17	e2.5	e0.00	0.00	0.00	e0.00	e0.00	0.00	0.00
14	---	0.00	0.00	e0.09	e2.7	e0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
15	---	0.00	0.00	e0.01	e2.2	e0.00	0.00	0.00	0.00	e0.00	0.00	0.00
16	---	0.00	0.00	e0.00	e1.2	e0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00
17	---	0.00	0.00	e0.00	e0.02	e0.00	0.00	0.00	0.00	e0.00	0.00	0.00
18	---	0.00	0.00	e0.00	e0.00	0.00	e0.00	e0.00	e0.00	e0.00	0.00	0.00
19	---	0.00	0.00	0.00	e0.00	0.00	e0.00	e0.00	e0.00	e0.00	0.00	0.00
20	---	0.00	0.00	0.00	e0.00	e0.00	0.00	e0.00	e0.00	e0.01	e0.00	0.00
21	---	0.00	0.00	0.00	0.00	e0.03	e0.00	0.00	e0.00	e0.02	e0.00	0.00
22	---	0.00	0.00	0.00	e0.00	e0.30	0.00	e0.00	e0.00	e0.00	e0.00	0.00
23	---	0.00	0.00	0.00	e0.00	e0.37	0.00	0.00	e0.00	0.00	e0.00	0.00
24	---	0.00	0.00	0.00	e0.00	e0.39	e0.00	e0.00	e0.00	e0.00	e0.00	0.00
25	---	0.00	0.00	0.00	e0.00	e0.02	e0.00	e0.00	0.00	e0.01	e0.00	0.00
26	---	0.00	0.00	0.00	e0.00	0.00	0.00	e0.00	0.00	e0.02	e0.00	0.00
27	---	0.00	0.00	0.00	e0.00	e0.00	e0.00	0.00	e0.00	0.00	e0.00	0.00
28	---	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	e0.00	0.00
29	---	0.00	0.00	0.00	---	e0.00	e0.00	e0.00	0.00	0.00	e0.00	0.00
30	---	0.00	0.00	0.00	---	e0.10	0.00	e0.00	e0.00	0.00	e0.00	0.00
31	---	---	0.00	0.00	---	e0.00	---	e0.00	---	0.00	e0.00	---
TOTAL	---	0.00	0.00	0.63	34.64	2.19	1.13	0.00	0.00	0.06	0.00	0.00
MEAN	---	0.00	0.00	0.02	1.24	0.07	0.04	0.00	0.00	0.00	0.00	0.00
MAX	---	0.00	0.00	0.18	7.4	0.90	0.60	0.00	0.00	0.02	0.00	0.00
MIN	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFSM	---	0.00	0.00	0.02	1.22	0.07	0.04	0.00	0.00	0.00	0.00	0.00
IN.	---	0.00	0.00	0.02	1.28	0.08	0.04	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

MEAN	---	0.00	0.00	0.02	1.24	0.07	0.04	0.00	0.00	0.00	0.00	0.00
MAX	---	0.00	0.00	0.02	1.24	0.07	0.04	0.00	0.00	0.00	0.00	0.00
(WY)	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	---	0.00	0.00	0.02	1.24	0.07	0.04	0.00	0.00	0.00	0.00	0.00
(WY)	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR (November 11 - September)
ANNUAL TOTAL	38.65
ANNUAL MEAN	0.12
HIGHEST DAILY MEAN	(e)7.4 Feb 6
LOWEST DAILY MEAN	0.00 (a)Nov 11
ANNUAL SEVEN-DAY MINIMUM	0.00 (a)Nov 11
ANNUAL RUNOFF (CFSM)	0.118
ANNUAL RUNOFF (INCHES)	1.42
10 PERCENT EXCEEDS	0.01
50 PERCENT EXCEEDS	0.00
90 PERCENT EXCEEDS	0.00

(a) Occurred many days
(e) Estimated

05406465 BREWERY CREEK AT COUNTY HIGHWAY K AT CROSS PLAINS, WI—Continued

PRECIPITATION QUANTITY

PERIOD OF RECORD.-November 2004 to September 2005 (discontinued).

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Gage established November 2004. Rainfall estimated from Nov. 1-8 from nearby raingages. Rainfall estimated to be 0.00 for Jan. 5, 8, 24-26, Feb. 9, 20, 23-25, 27, Mar. 10, 12, and 18-20 because precipitation interpreted as collective snowmelt. Raingage plugged from July 20-27.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 2.64 in., Apr. 6.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	e0.45	0.00	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
2	---	e0.03	0.02	0.64	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
3	---	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
4	---	e0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.12	0.01
5	---	e0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00
6	---	e0.00	0.13	0.00	0.18	0.00	2.64	0.24	0.00	0.00	0.00	0.00
7	---	e0.00	0.68	0.00	0.21	0.19	0.00	0.00	0.00	0.00	0.00	0.00
8	---	e0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
9	---	e0.00	0.07	0.00	0.00	0.00	0.00	0.14	0.07	0.00	0.03	0.00
10	---	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.05	0.00
11	---	0.00	0.00	0.00	0.04	0.00	0.00	0.82	0.15	0.00	0.62	0.00
12	---	0.00	0.00	0.40	0.00	0.00	0.37	0.01	0.00	0.00	0.00	0.00
13	---	0.00	0.00	0.00	0.43	0.00	0.00	0.43	0.61	0.00	0.04	0.00
14	---	0.01	0.00	0.00	0.17	0.00	0.00	0.08	0.08	0.00	0.00	0.00
15	---	0.08	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	---	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
17	---	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
18	---	0.09	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.47	0.00
19	---	0.18	0.00	0.00	0.00	0.00	0.18	0.33	0.00	0.00	0.00	0.00
20	---	0.01	0.00	0.00	0.00	0.00	0.04	0.00	0.00	---	0.00	0.00
21	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.01
22	---	0.00	0.00	0.00	0.00	0.00	0.09	0.01	0.00	---	0.00	0.03
23	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.02
24	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	---	0.00	0.01
25	---	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.19	---	0.00	0.02
26	---	0.07	0.00	0.00	0.00	0.00	0.01	0.00	0.01	---	0.78	0.03
27	---	0.52	0.00	0.00	0.00	0.00	0.02	0.07	0.00	---	0.01	0.02
28	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	---	0.00	0.00	0.00	---	0.00	0.00	0.01	0.00	0.00	0.00	0.02
30	---	0.00	0.07	0.00	---	0.78	0.00	0.00	0.01	0.00	0.00	0.00
31	---	---	0.00	0.00	---	0.06	---	0.00	---	0.00	0.00	---
TOTAL	---	1.51	1.45	1.05	1.09	1.03	3.47	2.31	1.75	---	2.12	0.18

e Estimated

05406470 BREWERY CREEK AT CROSS PLAINS, WI

LOCATION.--Lat 43°07'09", long 89°38'25" in SW $^1/_4$ SW $^1/_4$ sec.35, T.8 N., R.7 E., Dane County, Hydrologic Unit 07070005, on right bank 60 ft upstream of culvert on Brewery Rd., 0.75 mi upstream from Black Earth Creek.

DRAINAGE AREA.--10.5 mi^2, of which 2.80 mi^2 is non-contributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1984 to September 1986, October 1989 to September 1998, May 1999 to September 2002, October 2004 to September 2005 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 900 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	2.0	1.5	1.2	0.87	e1.4	2.5	0.97	0.48	0.64	0.77	0.61
2	---	2.5	1.4	5.2	0.93	e1.3	2.0	0.93	0.47	0.69	0.75	0.59
3	---	1.9	1.4	1.7	0.96	e1.3	1.8	0.91	0.45	0.65	0.74	0.53
4	---	1.6	1.4	1.2	1.3	e1.4	1.7	0.86	0.74	0.82	0.77	0.52
5	---	1.5	1.4	e1.4	7.1	7.7	1.6	0.80	1.2	0.89	0.71	0.53
6	---	1.4	2.0	e1.7	45	41	12	0.88	0.98	0.81	0.71	0.53
7	---	1.3	3.6	e1.6	49	31	9.0	0.98	0.92	0.83	0.84	0.54
8	---	1.2	2.9	e1.6	4.5	e2.6	2.4	1.1	0.87	0.79	0.89	0.54
9	---	1.2	2.3	e1.4	e2.1	e1.3	1.9	1.1	0.89	0.78	1.00	0.60
10	---	1.2	2.2	1.2	e1.7	1.2	1.6	1.0	1.00	0.78	1.1	0.50
11	---	1.2	2.4	1.2	e1.8	1.1	1.5	1.7	0.92	0.77	1.1	0.49
12	---	1.1	2.2	1.7	3.7	e1.0	1.6	1.3	0.88	0.77	1.3	0.51
13	---	1.1	e1.9	e4.9	27	e0.95	1.6	1.8	1.1	0.80	1.1	0.46
14	---	1.1	e1.9	e4.0	44	0.94	1.4	1.4	1.1	0.74	1.1	0.48
15	---	1.2	1.8	e3.3	16	1.1	1.3	1.2	0.89	0.71	1.1	0.49
16	---	1.2	1.8	e2.8	e3.8	1.3	1.3	1.1	0.83	0.71	1.1	0.50
17	---	1.3	e1.7	e2.3	e1.9	1.0	1.2	0.87	0.73	0.71	1.1	0.50
18	---	1.4	1.7	e2.3	e1.8	1.0	1.2	0.77	0.66	0.71	1.2	0.45
19	---	1.5	e1.7	e3.0	e1.7	0.97	1.2	1.0	0.60	0.81	1.1	0.65
20	---	1.6	e1.7	e3.7	1.6	1.1	1.3	0.83	0.60	0.96	0.97	0.52
21	---	1.5	e1.8	e3.0	1.4	1.7	1.2	0.81	0.58	1.8	0.87	0.49
22	1.5	1.4	e1.6	e2.5	1.4	3.7	1.1	1.0	0.55	1.2	0.85	0.70
23	3.0	1.4	e1.4	e2.0	e1.5	9.7	1.1	0.87	0.55	0.95	0.84	0.68
24	2.2	1.3	e1.2	e2.2	e1.5	6.9	1.1	0.79	0.57	1.2	0.77	0.58
25	2.0	1.3	e1.1	e2.3	1.4	3.2	1.1	0.73	0.76	1.4	0.73	0.99
26	1.9	1.3	e1.1	e1.9	e1.5	2.4	1.1	0.72	0.77	2.5	0.78	0.87
27	2.0	1.7	e1.1	e1.7	1.3	2.5	1.2	0.75	0.76	1.3	0.88	0.68
28	1.9	1.9	e1.1	e1.8	1.3	2.9	1.1	0.73	0.67	0.98	0.68	0.76
29	1.9	1.5	e1.2	e2.0	---	2.9	1.1	0.62	0.68	0.88	0.67	0.74
30	2.6	1.5	1.2	e1.0	---	5.3	1.0	0.55	0.70	0.81	0.63	0.66
31	2.0	---	1.3	0.86	---	4.9	---	0.53	---	0.80	0.61	---
TOTAL	21.0	43.3	53.0	68.66	228.06	146.76	61.2	29.60	22.90	29.19	27.76	17.69
MEAN	2.10	1.44	1.71	2.21	8.14	4.73	2.04	0.95	0.76	0.94	0.90	0.59
MAX	3.0	2.5	3.6	5.2	49	41	12	1.8	1.2	2.5	1.3	0.99
MIN	1.5	1.1	1.1	0.86	0.87	0.94	1.0	0.53	0.45	0.64	0.61	0.45
CFSM	0.27	0.19	0.22	0.29	1.06	0.61	0.26	0.12	0.10	0.12	0.12	0.08
IN.	0.10	0.21	0.26	0.33	1.10	0.71	0.30	0.14	0.11	0.14	0.13	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2005, BY WATER YEAR (WY)

MEAN	2.23	2.24	1.85	1.93	3.25	3.89	2.54	2.49	3.03	3.06	2.62	2.22
MAX	6.60	4.73	3.82	3.22	8.14	10.5	3.66	6.90	10.0	13.4	11.6	5.15
(WY)	(1987)	(1986)	(1994)	(1994)	(2005)	(1993)	(1993)	(2000)	(2000)	(1993)	(2001)	(1993)
MIN	0.25	0.16	0.12	0.01	0.15	1.08	0.64	0.47	0.40	0.22	0.22	0.11
(WY)	(1991)	(1991)	(1991)	(1991)	(1991)	(1992)	(1990)	(1992)	(1991)	(1990)	(1990)	(1990)

05406470 BREWERY CREEK AT CROSS PLAINS, WI—Continued

SUMMARY STATISTICS	FOR 2005 WATER YEAR (October 22 - September)		WATER YEARS 1985 - 2005	
ANNUAL TOTAL	749.12			
ANNUAL MEAN	2.18		2.60	
HIGHEST ANNUAL MEAN			6.60	1987
LOWEST ANNUAL MEAN			0.55	2004
HIGHEST DAILY MEAN	49	Feb 7	257	Aug 2, 2001
LOWEST DAILY MEAN	0.45	(a)Jun 3	0.00	(b)Jul 18, 1991
ANNUAL SEVEN-DAY MINIMUM	0.48	Sep 12	0.00	Jul 31, 1991
MAXIMUM PEAK FLOW	128	Mar 6	420	Jul 6, 1993
MAXIMUM PEAK STAGE	11.97	Mar 6	15.05	Jul 6, 1993
INSTANTANEOUS LOW FLOW	(c)0.19	Mar 3	0.00	(b)Aug 9, 1990
ANNUAL RUNOFF (CFSM)	0.283		0.338	
ANNUAL RUNOFF (INCHES)	3.62		4.59	
10 PERCENT EXCEEDS	2.6		3.8	
50 PERCENT EXCEEDS	1.2		2.1	
90 PERCENT EXCEEDS	0.62		0.43	

(a) Also occurred Sept. 18
(b) Also occurred many days during 1991 water year
(c) Result of freezeup
(e) Estimated

05406470 BREWERY CREEK AT CROSS PLAINS, WI—Continued

PRECIPITATION QUANTITY

PERIOD OF RECORD.-October 1999 to September 2005 (discontinued).

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Gage established October 1999. Rainfall estimated to be 0.00 for Jan. 5-6, 21-22, Feb. 6, 9, 20, and Mar. 19-20.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 6.25 in., Aug 2, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 1.42 in., July 25.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.45	0.00	0.52	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
2	---	0.03	0.02	0.17	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
3	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
4	---	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.08	0.00
5	---	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00
6	---	0.00	0.03	0.00	0.00	0.00	0.38	0.26	0.00	0.00	0.00	0.00
7	---	0.00	0.30	0.00	0.00	0.15	0.00	0.01	0.00	0.00	0.00	0.00
8	---	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
9	---	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.04	0.00	0.05	0.00
10	---	0.07	0.00	0.00	0.00	0.12	0.00	0.00	0.26	0.00	0.04	0.00
11	---	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.04	0.00	0.54	0.00
12	---	0.00	0.00	0.16	0.00	0.01	0.42	0.01	0.00	0.00	0.01	0.00
13	---	0.00	0.00	0.00	0.09	0.00	0.00	0.70	0.03	0.04	0.03	0.35
14	---	0.00	0.00	0.00	0.04	0.00	0.00	0.04	0.26	0.00	0.00	0.00
15	---	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	---	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
17	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	---	0.12	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.42	0.00
19	---	0.24	0.00	0.00	0.00	0.00	0.24	0.40	0.00	0.00	0.00	0.61
20	---	0.01	0.00	0.00	0.00	0.04	0.09	0.00	0.00	0.43	0.00	0.01
21	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.00
22	---	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.00	0.00	0.00	0.41
23	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00
24	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.05
25	---	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.40	1.42	0.00	1.08
26	0.19	0.11	0.00	0.00	0.00	0.00	0.02	0.00	0.04	0.26	0.36	0.01
27	0.00	0.57	0.00	0.00	0.00	0.00	0.02	0.11	0.00	0.00	0.00	0.01
28	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.40
29	0.56	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.02	0.00	0.03	0.00	---	0.62	0.00	0.00	0.09	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.08	---	0.00	---	0.00	0.00	---
TOTAL	---	1.93	0.62	0.85	0.13	1.02	1.37	2.95	1.79	3.68	1.55	2.93

054064775 BLACK EARTH CREEK TRIBUTARY AT COUNTY TRUNK HIGHWAY KP AT CROSS PLAINS, WI

LOCATION.--Lat 43°06'43", long 89°39'26" in SW ¼ NW ¼ sec.3, T.7 N., R.7 E., Dane County, Hydrologic Unit 07070005, 0.7 mi east of Garfoot Road and 0.2 mi west of Bourbon Road at Cross Plains.

DRAINAGE AREA.--0.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1998 to current year.

GAGE.--Water-stage recorder in a 2-ft H-flume. Elevation of gage is 873 ft, from topographic map. Unpublished discharge data from June 1998 to September 1999 available in district office.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.01	e0.08	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.44	e0.64	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.03	0.00	e0.68	0.82	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	e0.16	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	e0.28	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	e0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	e0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	e0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	e0.05	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	e0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.03	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.02	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.03	0.31	3.43	2.07	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	0.00	0.00	0.00	0.01	0.12	0.07	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.00	0.03	0.28	0.68	0.82	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFSM	0.00	0.00	0.00	0.05	0.61	0.33	0.00	0.00	0.00	0.00	0.00	0.00
IN.	0.00	0.00	0.01	0.06	0.64	0.39	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

MEAN	0.00	0.02	0.00	0.00	0.03	0.02	0.01	0.06	0.04	0.01	0.04	0.01
MAX	0.01	0.16	0.01	0.01	0.12	0.07	0.02	0.19	0.18	0.02	0.29	0.06
(WY)	(2003)	(2004)	(2004)	(2005)	(2005)	(2005)	(2001)	(2004)	(2000)	(2003)	(2001)	(2001)
MIN	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1999)	(1999)	(1999)	(1999)	(2001)	(1999)	(2004)	(2005)	(2003)	(1998)	(2002)	(1998)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1998 - 2005	
ANNUAL TOTAL	9.39		5.84			
ANNUAL MEAN	0.03		0.02		0.02	
HIGHEST ANNUAL MEAN					0.04	2004
LOWEST ANNUAL MEAN					0.00	1999
HIGHEST DAILY MEAN	2.3	May 22	0.82	Mar 7	8.2	Aug 2, 2001
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jun 26, 1998
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Jun 30, 1998
MAXIMUM PEAK FLOW			2.5	Mar 7	69	Mar 20, 1999
MAXIMUM PEAK STAGE			0.30	Mar 7	2.85	Mar 20, 1999
ANNUAL RUNOFF (CFSM)	0.128		0.080		0.108	
ANNUAL RUNOFF (INCHES)	1.75		1.09		1.46	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

(e) Estimated

054064775 BLACK EARTH CREEK TRIBUTARY AT COUNTY TRUNK HIGHWAY KP AT CROSS PLAINS, WI—Continued

PRECIPITATION QUANTITY

PERIOD OF RECORD.-July 1998 to current year.

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Gage established July 1998.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 6.52 in., Aug 2, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 1.34 in., Jul. 21.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.54	0.35	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
2	0.00	0.04	0.02	0.86	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
4	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.04	0.00
5	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.32	0.01	0.00	0.00
6	0.00	0.00	0.17	0.03	0.16	0.00	0.52	0.19	0.00	0.00	0.00	0.00
7	0.06	0.00	0.65	0.00	0.20	0.16	0.00	0.00	0.00	0.00	0.00	0.00
8	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.09	0.01	0.02	0.00	0.00	0.15	0.03	0.00	0.04	0.00
10	0.00	0.06	0.23	0.00	0.09	0.10	0.00	0.00	0.19	0.00	0.04	0.00
11	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.94	0.02	0.00	0.38	0.00
12	0.00	0.00	0.00	0.33	0.00	0.00	0.31	0.01	0.00	0.01	0.00	0.00
13	0.01	0.00	0.00	0.00	0.47	0.00	0.00	0.41	0.00	0.03	0.04	0.24
14	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.07	0.09	0.00	0.01	0.00
15	0.02	0.12	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
17	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.01	0.11	0.00	0.00	0.00	0.30	0.00	0.15	0.00	0.00	0.00	0.00
19	0.30	0.19	0.00	0.00	0.00	0.08	0.21	0.41	0.00	0.00	0.01	0.50
20	0.00	0.01	0.00	0.00	0.22	0.17	0.14	0.00	0.00	0.24	0.00	0.00
21	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	1.34	0.00	0.00
22	0.27	0.00	0.00	0.00	0.01	0.00	0.05	0.03	0.00	0.01	0.12	0.38
23	0.52	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.12	0.00	0.00
24	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.05
25	0.00	0.00	0.00	0.14	0.00	0.00	0.07	0.00	0.33	1.26	0.00	0.84
26	0.18	0.10	0.00	0.01	0.00	0.00	0.01	0.00	0.03	0.22	0.15	0.01
27	0.00	0.32	0.00	0.00	0.01	0.00	0.02	0.12	0.00	0.00	0.00	0.00
28	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
29	0.08	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.02	0.00	0.05	0.00	---	0.51	0.00	0.01	0.02	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.05	---	0.00	---	0.00	0.00	---
TOTAL	2.76	1.41	1.47	1.55	1.50	1.37	1.34	2.51	1.27	3.29	0.84	2.30

CAL YR 2004 TOTAL 32.01
WTR YR 2005 TOTAL 21.61

054064775 BLACK EARTH CREEK TRIBUTARY AT COUNTY TRUNK HIGHWAY KP AT CROSS PLAINS, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1998 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August 2000 to current year.

INSTRUMENTATION.--Continuous water temperature recorder August 2000 to current year.

REMARKS.--Water temperature recorder located near H-flume represent water temperature at sensor within 0.5°C. Unpublished water temperature data from August 2000 to September 2002 are available in the District Office.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum observed, 33.5°C, June 1, 2002; minimum observed, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum observed, 31.0°C, Jun. 24 and Jul. 17; minimum observed, 0.0°C on many days during winter period.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	3.5	11.5	8.0	5.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0
2	10.0	1.5	5.0	7.5	5.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0
3	15.0	1.5	8.5	9.5	4.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
4	10.5	0.5	5.0	8.0	1.5	5.0	2.0	0.0	0.5	0.0	0.0	0.0
5	11.0	0.0	5.0	9.0	0.0	4.0	1.0	0.0	0.5	0.0	0.0	0.0
6	17.0	3.0	9.0	11.0	0.5	5.0	2.5	0.5	2.0	0.0	0.0	0.0
7	16.5	5.5	11.0	8.5	0.0	4.5	3.5	1.5	3.0	0.0	0.0	0.0
8	17.5	8.0	14.0	4.5	0.0	2.0	4.0	1.0	2.0	0.0	0.0	0.0
9	14.5	5.0	9.0	7.0	0.0	4.0	3.5	2.5	3.0	0.0	0.0	0.0
10	11.0	3.0	6.5	10.0	3.0	7.0	3.0	0.0	2.0	0.0	0.0	0.0
11	11.0	2.5	6.5	3.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
12	11.5	4.0	7.5	2.0	0.0	0.5	2.0	0.0	0.5	0.0	0.0	0.0
13	11.0	5.5	8.0	2.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
14	9.0	6.5	7.5	3.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
15	9.5	4.0	6.5	4.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
16	5.0	2.0	3.5	7.5	4.0	6.0	1.0	0.0	0.0	0.0	0.0	0.0
17	8.5	0.0	4.0	12.5	7.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0
18	10.5	4.0	7.0	9.5	7.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
19	8.5	6.0	7.5	8.0	6.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
20	10.0	5.5	8.0	8.5	0.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
21	11.5	3.5	7.5	3.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
22	11.5	6.5	9.5	4.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
23	14.0	8.5	11.0	5.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
24	10.5	5.0	8.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	11.0	4.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	9.0	5.5	8.0	3.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
27	10.0	8.0	9.0	4.5	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
28	12.5	8.5	10.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	17.0	12.0	15.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	16.5	9.5	12.0	0.0	0.0	0.0	3.5	0.0	0.5	0.0	0.0	0.0
31	9.5	4.5	7.5	---	---	---	2.5	0.0	0.0	0.0	0.0	0.0
MONTH	17.5	0.0	8.2	12.5	0.0	3.4	4.0	0.0	0.5	0.0	0.0	0.0

0054064775 BLACK EARTH CREEK TRIBUTARY AT COUNTY TRUNK HIGHWAY KP AT CROSS PLAINS, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	0.0	0.0	0.0	7.0	5.0	5.5	6.5	0.0	2.5
2	0.0	0.0	0.0	0.0	0.0	0.0	5.5	3.0	4.5	5.5	0.0	2.5
3	0.0	0.0	0.0	0.0	0.0	0.0	6.5	2.0	4.0	8.5	0.0	3.5
4	0.0	0.0	0.0	0.0	0.0	0.0	9.5	1.0	5.5	12.5	0.0	5.0
5	0.0	0.0	0.0	0.0	0.0	0.0	15.0	6.0	10.0	15.0	1.0	7.0
6	0.0	0.0	0.0	0.0	0.0	0.0	16.0	9.5	12.5	17.5	7.0	11.5
7	0.0	0.0	0.0	0.0	0.0	0.0	13.0	7.0	10.0	15.0	7.5	10.5
8	0.0	0.0	0.0	0.0	0.0	0.0	10.0	3.0	7.0	19.5	8.0	13.5
9	0.0	0.0	0.0	0.0	0.0	0.0	13.5	5.0	8.5	18.5	12.5	15.0
10	0.0	0.0	0.0	0.0	0.0	0.0	17.0	7.0	11.5	20.5	11.5	15.0
11	0.0	0.0	0.0	0.0	0.0	0.0	16.0	10.0	12.5	13.0	8.0	11.5
12	0.0	0.0	0.0	0.0	0.0	0.0	11.0	4.5	7.5	9.5	4.5	7.0
13	0.0	0.0	0.0	0.0	0.0	0.0	10.0	2.5	6.0	11.0	6.0	8.5
14	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.5	6.5	10.5	6.0	8.0
15	0.0	0.0	0.0	0.0	0.0	0.0	12.5	0.0	6.5	9.5	5.0	7.0
16	0.0	0.0	0.0	0.0	0.0	0.0	16.0	4.0	9.0	11.5	5.0	8.5
17	0.0	0.0	0.0	0.0	0.0	0.0	16.0	8.0	11.5	14.5	7.5	10.5
18	0.0	0.0	0.0	0.0	0.0	0.0	19.0	8.0	13.0	15.5	9.0	12.5
19	0.0	0.0	0.0	0.0	0.0	0.0	19.5	8.5	14.0	18.0	11.0	14.0
20	0.0	0.0	0.0	0.0	0.0	0.0	14.5	8.5	12.5	15.5	8.5	12.5
21	0.0	0.0	0.0	0.0	0.0	0.0	12.0	5.5	9.0	16.0	6.0	12.0
22	0.0	0.0	0.0	0.5	0.0	0.0	10.5	2.5	8.0	21.0	11.5	15.0
23	0.0	0.0	0.0	3.0	0.0	0.5	7.0	0.0	2.5	18.5	10.0	14.0
24	0.0	0.0	0.0	3.5	0.0	1.0	10.5	0.0	4.0	19.0	7.0	12.0
25	0.0	0.0	0.0	3.0	0.0	1.5	12.5	0.0	5.5	17.5	7.0	12.5
26	0.0	0.0	0.0	4.5	1.0	2.5	9.0	2.5	5.5	20.0	9.5	14.0
27	0.0	0.0	0.0	5.0	2.0	3.5	9.0	0.0	4.5	16.5	7.0	11.0
28	0.0	0.0	0.0	5.5	2.0	3.5	10.0	0.0	4.0	16.5	5.5	11.0
29	---	---	---	10.5	2.0	6.0	10.5	0.0	5.0	15.5	7.0	12.0
30	---	---	---	10.0	5.5	8.0	10.0	0.0	4.0	19.0	8.0	13.5
31	---	---	---	7.5	4.5	6.0	---	---	---	19.0	8.0	13.5
MONTH	0.0	0.0	0.0	10.5	0.0	1.0	19.5	0.0	7.7	21.0	0.0	10.5
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.0	8.0	14.5	21.0	11.0	17.0	24.5	16.0	20.5	23.5	12.5	18.0
2	21.0	12.0	16.0	22.0	9.0	16.0	25.5	16.5	21.0	22.5	9.0	15.0
3	19.5	11.5	15.5	23.5	12.5	18.5	27.5	19.5	23.5	21.0	8.5	15.0
4	22.0	14.5	18.0	22.5	14.5	19.5	24.0	15.5	21.5	22.0	14.5	18.0
5	22.0	15.0	18.5	24.5	12.5	18.5	23.0	13.5	18.0	24.0	14.0	18.5
6	22.0	13.5	17.5	25.5	15.5	19.5	24.0	12.0	17.5	25.5	16.0	20.0
7	23.5	14.5	19.0	26.0	12.5	19.0	24.0	13.0	18.0	26.0	14.0	18.5
8	25.0	16.0	20.0	26.5	12.5	19.0	24.5	14.5	19.5	23.0	16.0	18.5
9	24.5	16.0	19.0	25.5	15.0	20.0	27.0	16.5	21.5	24.5	14.0	19.0
10	24.5	16.0	20.0	25.0	15.0	20.0	24.5	17.0	20.5	26.0	17.0	20.5
11	24.5	17.0	20.5	27.0	14.0	20.5	22.0	16.5	19.0	26.5	17.0	21.0
12	24.0	17.0	20.5	25.5	17.0	20.5	23.0	16.0	20.0	26.5	16.0	20.5
13	24.5	17.0	20.5	26.0	17.5	21.5	20.0	14.5	17.0	26.5	17.0	21.0
14	23.0	15.5	19.5	28.5	16.0	21.5	21.5	12.5	16.5	19.5	10.0	15.5
15	19.0	12.0	16.5	27.0	14.5	20.5	22.0	11.5	16.5	19.0	7.5	13.0
16	23.0	8.5	16.0	29.0	15.5	21.5	23.0	13.0	17.0	19.5	8.0	13.5
17	22.5	9.5	16.0	31.0	16.5	23.0	22.0	12.0	17.5	19.5	7.5	13.5
18	21.0	10.5	16.0	26.5	17.0	23.0	23.5	18.0	19.5	23.0	13.0	17.0
19	21.5	11.5	17.0	26.5	13.5	20.0	23.0	18.0	20.5	22.0	12.0	17.5
20	25.0	12.0	18.5	26.0	15.5	20.5	23.5	15.5	20.0	20.5	10.0	15.0
21	28.0	15.0	21.0	22.0	17.5	20.0	22.0	13.0	17.0	22.0	12.0	17.5
22	23.5	14.5	19.5	24.5	17.5	20.5	20.5	10.5	15.0	19.5	13.5	17.0
23	27.5	17.0	22.0	22.0	17.5	19.5	20.0	9.0	14.5	16.5	10.0	13.5
24	31.0	18.5	22.5	27.0	20.0	23.5	20.5	11.0	16.0	16.5	11.0	14.5
25	26.0	19.0	22.0	25.5	20.0	22.5	23.0	16.5	19.0	17.5	14.5	16.5
26	26.5	18.5	22.0	21.5	14.5	19.0	24.0	16.0	19.0	16.5	10.0	14.5
27	26.5	18.0	22.0	19.0	12.5	16.0	24.5	15.5	19.5	15.5	8.0	11.5
28	26.5	19.0	21.5	19.5	12.0	16.0	22.5	12.0	16.5	15.5	7.5	11.5
29	26.0	17.0	22.0	21.5	13.0	17.5	23.0	11.5	17.0	10.5	4.5	8.0
30	26.5	18.0	22.0	24.0	14.5	19.0	22.5	12.5	17.0	13.0	7.0	10.0
31	---	---	---	24.5	17.5	21.0	22.0	11.5	16.5	---	---	---
MONTH	31.0	8.0	19.2	31.0	9.0	19.8	27.5	9.0	18.5	26.5	4.5	16.1
YEAR	31.0	0.0	8.8									

054064895 GARFOOT CREEK AT BRAUN ROAD NEAR CROSS PLAINS, WI

LOCATION.--Lat 43°05'13", long 89°41'25" in NW ¼ NE ¼ sec.17, T.7 N., R.7 E., Dane County, Hydrologic Unit 07070005, just upstream from the intersection of Braun Road and Garfoot Road, 3.0 mi southwest of Cross Plains.

DRAINAGE AREA.--1.80 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 2004 to September 2005 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 880 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except thos for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	0.01	e0.02	e0.00	e0.03	0.17	0.02	0.01	0.01	0.01	0.00
2	---	---	0.01	e0.20	e0.00	e0.02	0.12	0.03	0.01	0.01	0.01	0.00
3	---	---	0.01	e0.03	e0.00	e0.02	0.08	0.04	0.01	0.01	0.01	0.00
4	---	---	0.01	e0.02	e0.01	e0.05	0.04	0.04	0.01	0.01	0.00	0.00
5	---	---	0.00	e0.02	e0.25	e0.69	0.04	0.03	0.01	0.01	0.00	0.00
6	---	---	0.02	e0.02	e4.2	e4.2	0.05	0.02	0.01	0.01	0.00	0.00
7	---	---	0.42	e0.01	e4.6	e4.7	0.04	0.01	0.01	0.01	0.00	0.00
8	---	---	0.02	e0.01	e0.45	e0.08	0.03	0.02	0.00	0.01	0.00	0.00
9	---	---	0.01	e0.01	e0.08	e0.05	0.03	0.01	0.00	0.02	0.00	0.00
10	---	0.01	0.02	e0.01	e0.01	e0.05	0.02	0.02	0.00	0.03	0.00	0.00
11	---	0.01	0.02	e0.02	e0.06	e0.04	0.01	0.05	0.00	0.01	0.00	0.00
12	---	0.01	0.01	e0.07	e0.29	e0.04	0.02	0.03	0.00	0.01	0.00	0.00
13	---	0.01	0.01	e0.21	e1.7	e0.03	0.04	0.05	0.00	0.04	0.00	0.00
14	---	0.00	0.01	e0.08	e7.0	e0.03	0.03	0.04	0.00	0.03	0.00	0.00
15	---	0.01	0.01	e0.02	e1.3	e0.03	0.03	0.04	0.00	0.04	0.00	0.00
16	---	0.02	0.02	e0.02	e0.30	e0.05	0.02	0.03	0.00	0.03	0.00	0.00
17	---	0.02	0.01	e0.01	e0.07	e0.02	0.03	0.01	0.00	0.05	0.00	0.00
18	---	0.02	0.02	e0.01	e0.02	0.01	0.03	0.01	0.00	0.00	0.00	0.00
19	---	0.02	e0.01	e0.00	e0.03	0.01	0.03	0.02	0.00	0.00	0.00	0.00
20	---	0.03	e0.02	e0.00	e0.04	e0.04	0.01	0.02	0.00	0.00	0.00	0.00
21	---	0.02	e0.02	e0.00	e0.04	e0.80	0.02	0.01	0.00	0.05	0.00	0.00
22	---	0.02	e0.01	e0.00	e0.04	e0.10	0.02	0.02	0.00	0.01	0.00	0.00
23	---	0.02	e0.01	e0.00	e0.04	e0.70	0.03	0.01	0.01	0.01	0.00	0.00
24	---	0.02	e0.02	e0.00	e0.04	e0.50	0.04	0.01	0.02	0.02	0.00	0.00
25	---	0.02	e0.01	e0.00	e0.04	e0.24	0.03	0.01	0.01	0.02	0.00	0.00
26	---	0.01	e0.01	e0.00	e0.04	e0.24	0.03	0.02	0.00	0.05	0.00	0.00
27	---	0.05	e0.01	e0.00	e0.04	e0.25	0.03	0.01	0.01	0.01	0.00	0.00
28	---	0.02	e0.02	e0.00	e0.03	e0.26	0.03	0.01	0.01	0.01	0.00	0.00
29	---	0.01	e0.02	e0.00	---	e0.27	0.02	0.02	0.01	0.01	0.00	0.00
30	---	0.01	e0.02	e0.00	---	0.83	0.02	0.02	0.01	0.01	0.00	0.00
31	---	---	e0.02	e0.00	---	0.45	---	0.01	---	0.01	0.00	---
TOTAL	---	0.36	0.84	0.79	20.72	14.83	1.14	0.69	0.15	0.55	0.03	0.00
MEAN	---	0.02	0.03	0.03	0.74	0.48	0.04	0.02	0.01	0.02	0.00	0.00
MAX	---	0.05	0.42	0.21	7.0	4.7	0.17	0.05	0.02	0.05	0.01	0.00
MIN	---	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00
CFSM	---	0.01	0.02	0.01	0.41	0.27	0.02	0.01	0.00	0.01	0.00	0.00
IN.	---	0.01	0.02	0.02	0.43	0.31	0.02	0.01	0.00	0.01	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

MEAN	---	0.02	0.03	0.03	0.74	0.48	0.04	0.02	0.00	0.02	0.00	0.00
MAX	---	0.02	0.03	0.03	0.74	0.48	0.04	0.02	0.00	0.02	0.00	0.00
(WY)	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	---	0.02	0.03	0.03	0.74	0.48	0.04	0.02	0.00	0.02	0.00	0.00
(WY)	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR (November 10 - September)
ANNUAL TOTAL	40.10
ANNUAL MEAN	0.12
HIGHEST DAILY MEAN	(a)7.0 Feb 14
LOWEST DAILY MEAN	0.00 (b)Nov 14
ANNUAL SEVEN-DAY MINIMUM	0.00 (b)Jan 19
MAXIMUM PEAK STAGE	(a)16.27 Feb 13
INSTANTANEOUS LOW FLOW	0.00 (b)Nov 9
ANNUAL RUNOFF (CFSM)	0.069
ANNUAL RUNOFF (INCHES)	0.83
10 PERCENT EXCEEDS	0.07
50 PERCENT EXCEEDS	0.01
90 PERCENT EXCEEDS	0.00

(a) Ice affected
(b) Also occurred additional days
(e) Estimated

054064895 GARFOOT CREEK AT BRAUN ROAD NEAR CROSS PLAINS, WI—Continued

PRECIPITATION QUANTITY

PERIOD OF RECORD.-November 2004 to September 2005 (discontinued).

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Gage established Nov. 9, 2004. Rainfall estimated for Nov. 1-8 from nearby raingages. Rainfall estimated to be 0.00 for Jan. 6, 19, 25, Feb. 9, 11, 21-25, and Mar. 7, 10, 18 and 20 because precipitation interpreted as collective snowmelt.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 1.65 in., July 21.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	e0.45	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00
2	---	e0.03	0.01	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	---	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00
4	---	e0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.02	0.00
5	---	e0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00
6	---	e0.00	0.12	0.00	0.16	0.00	0.56	0.27	0.00	0.00	0.00	0.00
7	---	e0.00	0.74	0.00	0.21	0.17	0.00	0.01	0.00	0.00	0.00	0.00
8	---	e0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
9	---	0.00	0.09	0.00	0.00	0.00	0.00	0.18	0.03	0.00	0.03	0.00
10	---	0.03	0.24	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.04	0.00
11	---	0.01	0.00	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.40	0.00
12	---	0.00	0.00	0.42	0.00	0.00	0.32	0.01	0.00	0.03	0.01	0.00
13	---	0.00	0.00	0.00	0.44	0.00	0.00	0.37	0.00	0.10	0.03	0.14
14	---	0.00	0.00	0.00	0.20	0.00	0.01	0.03	0.09	0.00	0.00	0.00
15	---	0.09	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	---	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
17	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	---	0.11	0.00	0.00	0.00	0.19	0.00	0.16	0.00	0.00	0.30	0.00
19	---	0.21	0.00	0.00	0.00	0.00	0.18	0.41	0.00	0.00	0.00	0.55
20	---	0.03	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.12	0.00	0.00
21	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.65	0.00	0.00
22	---	0.00	0.00	0.00	0.00	0.00	0.03	0.12	0.00	0.00	0.00	0.02
23	---	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.32	0.00	0.00
24	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00
25	---	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.42	---	0.00	0.01
26	---	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.04	---	0.19	0.01
27	---	0.50	0.00	0.00	0.00	0.00	0.02	0.07	0.00	---	0.00	0.00
28	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01
29	---	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	---	0.00	0.03	0.00	---	0.48	0.00	0.00	0.09	0.00	0.00	0.01
31	---	---	0.00	0.00	---	0.04	---	0.00	---	0.00	0.00	---
TOTAL	---	1.73	1.49	1.17	1.11	0.88	1.25	2.72	1.42	---	1.10	0.75

e Estimated

054064915 GARFOOT CREEK AT CT HIGHWAY KP NEAR CROSS PLAINS, WI

LOCATION.--Lat 43°06'42", long 89°40'54" in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.5, T.7 N., R.7 E., Dane County, Hydrologic Unit 07070005, just upstream from CT Highway KP, 1.8 mi west of Cross Plains.

DRAINAGE AREA.--5.86 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 2004 to September 2005 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 850 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	3.3	2.8	2.6	3.3	5.2	3.9	3.0	2.4	2.6	2.3
2	---	---	3.3	6.1	2.6	3.1	4.8	3.9	3.0	2.4	2.5	2.2
3	---	---	3.2	3.6	2.5	3.1	4.4	3.7	3.0	2.3	2.6	2.3
4	---	---	3.2	3.2	2.6	3.6	4.0	3.5	3.1	2.5	2.6	2.3
5	---	---	3.1	3.3	4.7	6.7	4.0	3.3	3.6	2.5	2.5	2.4
6	---	---	4.2	3.2	18	18	4.2	3.4	3.4	2.4	2.6	2.4
7	---	---	7.3	3.0	22	22	5.3	3.2	3.0	2.4	2.6	2.3
8	---	---	4.7	3.0	4.5	5.2	4.1	3.3	2.6	2.4	2.6	2.3
9	---	---	4.0	3.0	2.8	4.1	3.8	3.4	2.8	2.4	2.6	2.3
10	---	3.5	4.3	3.0	2.5	3.9	3.7	3.3	2.7	2.5	2.7	2.3
11	---	3.5	4.4	3.1	2.9	3.8	3.6	4.4	2.7	2.4	2.7	2.3
12	---	3.5	4.0	4.0	3.6	3.5	3.7	4.1	2.7	2.4	2.9	2.3
13	---	3.6	3.6	6.0	17	3.3	3.9	4.7	2.5	2.6	2.7	2.5
14	---	3.5	3.4	4.1	32	3.4	3.6	4.2	2.6	2.5	2.6	2.3
15	---	3.6	3.2	e3.1	10	3.4	3.5	4.0	2.6	2.6	2.5	2.4
16	---	3.9	3.3	e2.9	5.2	3.9	3.7	3.7	2.5	2.6	2.5	2.4
17	---	3.7	3.0	e2.8	3.8	3.6	3.6	3.3	2.4	2.6	2.5	2.3
18	---	3.6	3.1	e2.7	3.3	3.5	3.4	3.3	2.4	3.0	2.6	2.3
19	---	3.8	e2.8	2.6	3.5	3.6	3.5	3.9	2.2	2.4	2.6	2.5
20	---	4.0	3.1	2.5	3.5	4.2	3.5	3.8	2.3	2.5	2.6	2.2
21	---	3.7	3.1	2.6	3.7	7.3	3.5	3.4	2.4	3.6	2.5	2.1
22	---	3.6	e2.8	2.6	3.7	6.6	3.6	3.5	2.4	2.9	2.5	2.3
23	---	3.6	e2.8	e2.5	3.5	6.5	3.9	3.3	2.4	2.9	2.6	2.1
24	---	3.5	e2.9	2.5	3.5	6.0	4.0	3.4	2.6	3.2	2.6	2.1
25	---	3.2	2.8	2.7	3.8	5.2	3.9	3.2	2.6	3.3	2.5	2.6
26	---	3.2	2.7	2.5	3.6	5.3	3.9	3.2	2.4	4.5	2.5	2.5
27	---	4.2	2.7	e2.3	3.7	5.3	3.9	3.2	2.5	2.9	2.6	2.3
28	---	4.2	2.9	2.2	3.5	5.4	3.9	3.2	2.4	2.8	2.5	2.4
29	---	3.7	2.9	2.5	---	5.5	3.7	3.3	2.4	2.6	2.4	2.5
30	---	3.6	3.1	2.6	---	6.9	3.7	3.4	2.6	2.6	2.5	2.4
31	---	---	3.1	2.6	---	7.1	---	3.1	---	2.7	2.4	---

SUMMARY STATISTICS	FOR 2005 WATER YEAR (November 10 - September)	
ANNUAL TOTAL	1,174.7	
ANNUAL MEAN	3.61	
HIGHEST DAILY MEAN	32	Feb 14
LOWEST DAILY MEAN	2.1	(a)Sep 21
ANNUAL SEVEN-DAY MINIMUM	2.2	Sep 18
MAXIMUM PEAK FLOW	73	Feb 13
MAXIMUM PEAK STAGE	5.88	Feb 13
INSTANTANEOUS LOW FLOW	1.9	(b)Jan 27, 28
ANNUAL RUNOFF (CFSM)	0.617	
ANNUAL RUNOFF (INCHES)	7.46	
10 PERCENT EXCEEDS	4.4	
50 PERCENT EXCEEDS	3.1	
90 PERCENT EXCEEDS	2.4	

(a) Also occurred Sept. 23 and 24
(b) Also occurred Sept. 19-24, 27 and 30
(e) Estimated

05406500 BLACK EARTH CREEK AT BLACK EARTH, WI

LOCATION.--Lat 43°08'03", long 89°43'56" in SE ¼ SW ¼ sec.25, T.8 N., R.6 E., Dane County, Hydrologic Unit 07070005, on right bank, 0.8 mi east of Black Earth and 2.1 mi upstream from Vermont Creek.

DRAINAGE AREA.--45.6 mi^2, of which 2.8 mi^2 probably is noncontributing.

PERIOD OF RECORD.--February 1954 to current year.

REVISED RECORDS.--WDR WI-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 812.95 ft above NGVD of 1929.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	36	36	34	32	31	62	31	28	29	29	24
2	35	39	35	59	32	30	55	31	27	29	29	23
3	33	38	35	42	32	30	52	31	27	28	27	23
4	33	38	35	36	33	30	49	31	27	28	26	22
5	33	36	34	35	46	51	48	31	29	28	26	22
6	33	37	39	34	178	127	50	32	28	27	26	22
7	32	38	52	33	286	197	86	32	28	26	26	22
8	40	38	48	32	67	58	59	32	26	24	26	22
9	36	37	43	33	43	46	52	33	26	24	26	22
10	34	38	42	32	37	44	46	32	29	23	23	22
11	33	38	44	31	36	40	44	41	29	23	23	22
12	33	37	42	34	41	38	44	37	28	22	26	21
13	34	37	39	51	102	37	43	42	28	22	25	22
14	34	38	37	41	274	38	41	39	27	24	24	23
15	34	38	36	e32	111	36	40	36	29	28	24	22
16	35	38	35	e31	65	36	38	35	28	27	23	22
17	35	38	34	e31	43	37	38	34	26	26	23	22
18	34	39	34	31	37	36	38	33	26	25	23	22
19	34	39	34	31	35	38	37	37	25	26	24	26
20	35	39	34	32	35	38	39	36	25	28	23	24
21	34	39	33	32	34	52	37	35	25	38	22	23
22	34	39	33	33	33	61	36	34	25	31	25	21
23	44	39	33	33	33	65	35	33	26	29	26	22
24	39	37	33	33	32	62	34	32	28	29	26	22
25	37	37	e33	33	32	56	33	32	29	30	26	28
26	35	38	33	33	32	48	33	31	29	43	26	26
27	36	41	33	32	32	48	33	30	29	31	28	22
28	36	43	33	32	32	54	31	30	30	30	27	22
29	35	41	33	32	---	57	31	29	29	29	26	23
30	43	40	33	32	---	65	31	29	30	29	25	23
31	38	---	34	32	---	79	---	28	---	28	25	---
TOTAL	1,093	1,150	1,132	1,072	1,825	1,665	1,295	1,029	826	864	784	682
MEAN	35.3	38.3	36.5	34.6	65.2	53.7	43.2	33.2	27.5	27.9	25.3	22.7
MAX	44	43	52	59	286	197	86	42	30	43	29	28
MIN	32	36	33	31	32	30	31	28	25	22	22	21
CFSM	0.82	0.90	0.85	0.81	1.52	1.25	1.01	0.78	0.64	0.65	0.59	0.53
IN.	0.95	1.00	0.98	0.93	1.59	1.45	1.13	0.89	0.72	0.75	0.68	0.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2005, BY WATER YEAR (WY)

MEAN	31.7	33.4	30.7	29.4	34.2	47.7	42.4	39.8	39.2	37.1	33.2	32.8
MAX	51.5	70.2	48.0	51.6	65.2	85.3	86.5	92.0	119	140	104	66.0
(WY)	(1999)	(1986)	(1988)	(1974)	(2005)	(1961)	(1993)	(2004)	(2000)	(1993)	(2001)	(1980)
MIN	15.9	16.1	14.8	15.1	16.0	16.9	22.5	18.7	14.4	14.0	15.5	15.3
(WY)	(1967)	(1967)	(1965)	(1959)	(1959)	(1968)	(1957)	(1965)	(1965)	(1965)	(1958)	(1958)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1954 - 2005	
ANNUAL TOTAL	16,519		13,417			
ANNUAL MEAN	45.1		36.8		36.0	
HIGHEST ANNUAL MEAN					61.0	1993
LOWEST ANNUAL MEAN					19.8	1964
HIGHEST DAILY MEAN	686	May 22	286	Feb 7	1,230	Aug 2, 2001
LOWEST DAILY MEAN	(e)24	(a)Jan 28	21	Sep 12, 22	12	(b)Feb 16, 1958
ANNUAL SEVEN-DAY MINIMUM	24	Feb 13	22	Sep 6	13	Jul 24, 1965
MAXIMUM PEAK FLOW			378	Feb 14	(c)1,750	Jul 3, 1954
MAXIMUM PEAK STAGE			3.94	Feb 14	7.08	Aug 2, 2001
INSTANTANEOUS LOW FLOW					(d)4.8	Nov 29, 1958
ANNUAL RUNOFF (CFSM)	1.05		0.859		0.841	
ANNUAL RUNOFF (INCHES)	14.36		11.66		11.43	
10 PERCENT EXCEEDS	59		46		52	
50 PERCENT EXCEEDS	38		33		31	
90 PERCENT EXCEEDS	28		24		19	

05406500 BLACK EARTH CREEK AT BLACK EARTH, WI—Continued

(a) Also occurred Feb. 16-19 (not estimated)
(b) Also occurred July 26, 29, 1965
(c) Gage height, 6.58 ft
(d) Result of freezeup
(e) Estimated

054065145 VERMONT CREEK AT CT HIGHWAY KP AT BLACK EARTH, WI

LOCATION.--Lat 43°08'08", long 89°45'06" in SE $^1/_4$ SW $^1/_4$ sec.26, T.8 N., R.6 E., Dane County, Hydrologic Unit 07070005, just upstream from CT Highway KP at Black Earth.

DRAINAGE AREA.--14.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 2004 to September 2005 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 820 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	5.9	4.4	5.6	5.3	14	5.9	3.6	3.8	2.5	3.2
2	---	---	5.5	16	5.6	4.8	12	6.0	3.7	3.7	2.5	3.0
3	---	---	5.2	7.3	5.4	4.7	11	5.6	3.7	3.6	2.6	3.1
4	---	---	5.4	5.4	5.9	5.3	9.9	5.3	3.6	4.1	2.8	3.1
5	---	---	5.4	e4.6	11	12	9.6	5.1	4.5	4.1	2.4	3.1
6	---	---	9.6	e4.7	43	28	12	5.3	4.4	3.9	2.3	3.1
7	---	---	15	e4.5	65	57	18	4.9	4.3	3.9	2.2	3.2
8	---	---	11	e4.8	15	12	10	4.9	4.7	3.9	2.3	3.2
9	---	---	8.6	5.0	8.7	8.7	8.7	5.9	4.2	4.1	2.6	2.8
10	---	5.4	10	5.1	8.1	7.9	8.1	5.4	4.0	4.1	2.9	2.7
11	---	5.7	11	5.2	8.1	7.9	7.8	10	3.9	4.3	3.1	2.7
12	---	5.6	8.5	6.8	10	7.2	8.5	7.5	4.0	4.3	3.6	2.6
13	---	5.4	7.4	e12	27	6.6	8.9	9.3	3.8	4.3	3.4	3.0
14	---	5.1	6.9	e7.7	70	7.0	7.7	7.8	3.9	4.3	3.4	2.9
15	---	5.5	6.0	e5.0	25	6.9	7.1	6.9	4.0	3.9	3.3	2.7
16	---	6.2	6.3	e4.8	12	8.1	6.3	6.1	3.7	3.8	3.1	2.9
17	---	6.1	5.7	e4.5	7.1	8.3	6.2	5.2	3.5	3.5	3.0	2.6
18	---	6.2	5.9	e4.5	6.0	7.2	5.9	4.7	3.3	3.8	3.9	2.6
19	---	6.9	5.3	e4.8	6.1	7.1	5.8	6.5	3.2	3.1	3.6	3.2
20	---	7.5	5.0	e5.2	6.2	8.5	6.5	7.3	3.4	2.8	3.5	2.8
21	---	6.7	5.3	e4.9	6.5	14	6.1	5.3	3.7	6.1	3.4	2.7
22	---	6.2	e4.8	e4.5	6.6	17	6.2	5.5	3.5	3.7	3.5	3.1
23	---	6.2	e4.3	e4.3	5.8	17	6.5	5.1	3.5	3.2	3.6	2.8
24	---	6.1	e4.0	e4.4	5.7	14	6.4	4.8	4.6	3.4	3.5	2.7
25	---	5.8	e4.2	e4.5	6.5	13	6.0	4.5	4.9	3.8	3.3	4.4
26	---	5.8	e4.2	e4.5	6.1	12	6.1	4.6	4.2	6.3	3.2	3.7
27	---	8.3	e4.2	e4.5	5.7	12	6.2	4.4	3.9	3.0	3.6	2.9
28	---	8.8	e4.2	e4.5	6.0	14	5.9	4.3	4.2	2.5	3.4	3.1
29	---	7.0	e4.2	e4.6	---	14	5.8	4.3	3.9	2.3	3.3	3.6
30	---	6.2	e4.6	5.1	---	22	5.9	4.2	4.0	2.3	3.2	3.1
31	---	---	5.0	5.4	---	22	---	3.9	---	2.5	3.2	---
TOTAL	---	132.7	198.6	173.5	399.7	391.5	245.1	176.5	117.8	116.4	96.2	90.6
MEAN	---	6.32	6.41	5.60	14.3	12.6	8.17	5.69	3.93	3.75	3.10	3.02
MAX	---	8.8	15	16	70	57	18	10	4.9	6.3	3.9	4.4
MIN	---	5.1	4.0	4.3	5.4	4.7	5.8	3.9	3.2	2.3	2.2	2.6
CFSM	---	0.43	0.43	0.38	0.96	0.85	0.55	0.38	0.27	0.25	0.21	0.20
IN.	---	0.33	0.50	0.44	1.00	0.98	0.62	0.44	0.30	0.29	0.24	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

MEAN	---	6.32	6.41	5.60	14.3	12.6	8.17	5.69	3.93	3.75	3.10	3.02
MAX	---	6.32	6.41	5.60	14.3	12.6	8.17	5.69	3.93	3.75	3.10	3.02
(WY)	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	---	6.32	6.41	5.60	14.3	12.6	8.17	5.69	3.93	3.75	3.10	3.02
(WY)	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR (November 10 - September)	
ANNUAL TOTAL	2,138.6	
ANNUAL MEAN	6.58	
HIGHEST DAILY MEAN	70	Feb 14
LOWEST DAILY MEAN	2.2	Aug 7
ANNUAL SEVEN-DAY MINIMUM	2.4	Aug 2
MAXIMUM PEAK FLOW	90	Feb 14
MAXIMUM PEAK STAGE	8.54	Feb 14
INSTANTANEOUS LOW FLOW	1.5	Mar 3
ANNUAL RUNOFF (CFSM)	0.445	
ANNUAL RUNOFF (INCHES)	5.38	
10 PERCENT EXCEEDS	11	
50 PERCENT EXCEEDS	5.0	
90 PERCENT EXCEEDS	3.0	

(e) Estimated

05406540 BLACK EARTH CREEK AT MAZOMANIE, WI

LOCATION.--Lat 43°10'47", long 89°47'45" in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.9, T.8 N., R.6 E., Dane County, Hydrologic Unit 07070005, just upstream from Bridge Street in Mazomanie.

DRAINAGE AREA.--99.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 2004 to September 2005 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 750 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	53	43	44	48	92	47	39	32	35	29
2	---	---	50	85	44	47	80	47	38	32	35	28
3	---	---	49	64	44	46	74	46	38	32	34	28
4	---	---	49	49	45	45	70	45	39	37	34	28
5	---	---	48	46	64	70	68	44	40	34	33	27
6	---	---	63	e46	276	159	71	46	38	33	32	27
7	---	---	84	e45	526	317	137	45	38	33	32	27
8	---	---	81	e45	154	105	85	44	37	31	32	27
9	---	---	68	45	84	72	73	46	36	30	32	27
10	---	---	70	44	70	65	66	40	39	30	29	27
11	---	54	73	44	66	60	62	63	39	30	30	26
12	---	53	66	48	73	57	63	56	38	30	32	26
13	---	53	59	74	155	54	63	65	37	30	30	e27
14	---	52	e57	e60	494	53	60	59	38	32	30	e28
15	---	53	e54	e47	221	51	62	54	38	34	30	e27
16	---	54	51	e45	123	51	59	51	37	33	29	e27
17	---	54	49	e45	77	54	56	48	36	33	28	e27
18	---	54	49	e44	e68	53	53	47	35	32	32	e27
19	---	57	e48	e43	60	54	52	52	35	32	32	e33
20	---	59	e48	e45	60	52	57	51	34	33	30	e30
21	---	56	e47	e45	56	64	53	47	34	52	29	e28
22	---	54	e47	e47	55	97	52	45	33	42	29	e27
23	---	54	e47	e47	53	106	51	44	33	e37	29	e27
24	---	53	e47	e47	52	105	48	42	36	e37	30	e27
25	---	52	e47	e47	52	91	47	41	40	e38	31	e36
26	---	52	e47	e46	52	74	48	42	36	e67	31	e32
27	---	60	e47	e46	50	74	47	42	35	e41	32	e27
28	---	67	e47	e46	50	80	45	42	34	39	30	e27
29	---	59	e46	e46	---	87	47	41	34	37	30	e28
30	---	56	e46	e45	---	101	47	40	33	36	30	e28
31	---	---	46	45	---	127	---	39	---	35	30	---
TOTAL	---	1,106	1,683	1,514	3,168	2,519	1,888	1,461	1,097	1,104	962	840
MEAN	---	55.3	54.3	48.8	113	81.3	62.9	47.1	36.6	35.6	31.0	28.0
MAX	---	67	84	85	526	317	137	65	40	67	35	36
MIN	---	52	46	43	44	45	45	39	33	30	28	26
CFSM	---	0.56	0.55	0.49	1.14	0.82	0.64	0.48	0.37	0.36	0.31	0.28
IN.	---	0.42	0.63	0.57	1.19	0.95	0.71	0.55	0.41	0.41	0.36	0.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

MEAN	---	55.3	54.3	48.8	113	81.3	62.9	47.1	36.6	35.6	31.0	28.0
MAX	---	55.3	54.3	48.8	113	81.3	62.9	47.1	36.6	35.6	31.0	28.0
(WY)	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	---	55.3	54.3	48.8	113	81.3	62.9	47.1	36.6	35.6	31.0	28.0
(WY)	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS FOR 2005 WATER YEAR

ANNUAL TOTAL	17,342	
ANNUAL MEAN	53.5	
HIGHEST DAILY MEAN	526	Feb 7
LOWEST DAILY MEAN	26	Sep 11, 12
ANNUAL SEVEN-DAY MINIMUM	27	Sep 6
MAXIMUM PEAK FLOW	626	Feb 7
MAXIMUM PEAK STAGE	12.67	Feb 7
INSTANTANEOUS LOW FLOW	23	Sep 11
ANNUAL RUNOFF (CFSM)	0.541	
ANNUAL RUNOFF (INCHES)	6.52	
10 PERCENT EXCEEDS	73	
50 PERCENT EXCEEDS	46	
90 PERCENT EXCEEDS	30	

(e) Estimated

05407000 WISCONSIN RIVER AT MUSCODA, WI

LOCATION.--Lat 43°11'53", long 90°26'36", in SE 1/4 NW 1/4 sec.1, T.8 N., R.1 W., Grant County, Hydrologic Unit 07070005, on left bank at bridge on State Highway 80, 0.5 mi upstream from Eagle Mill Creek and 1.0 mi north of Muscoda.

DRAINAGE AREA.--10,400 mi^2.

PERIOD OF RECORD.--December 1902 to December 1903, gage height and discharge measurements only, October 1913 to current year. Monthly discharge for October and November 1913 published in WSP 1308. Gage-height records collected at same site November 1908 to December 1912 are contained in reports of U. S. Weather Bureau.

REVISED RECORDS.--WSP 785: 1921(M). WSP 875: 1921. WSP 1308: 1915(M), 1917-18(M), 1920-21(M), 1924(M). WDR WI-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 666.77 ft above NGVD of 1929. Prior to Nov. 22, 1929, nonrecording gage on bridge 200 ft upstream at same datum. Nov. 22, 1929, to Mar. 15, 1930, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges and June 5-28, which are poor (see Introduction). Flow regulated by 24 reservoirs and many powerplants upstream from station. In 1938 when the maximum of record occurred, there were 21 reservoirs upstream from station, the two large reservoirs, Petenwell and Castle Rock were not yet in existence. Usually flows less than 20 ft^3/s were diverted out of the basin through Portage Canal to the Fox River throughout the year. Gage-height telemeter and data-collection platform at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,200	8,860	6,390	e6,940	e8,280	7,250	12,500	8,510	5,780	4,170	4,920	3,570
2	4,290	11,300	5,570	e7,020	e7,200	6,460	13,100	7,910	5,120	4,980	4,930	3,680
3	4,250	12,200	4,720	e7,150	e6,000	7,210	13,000	6,690	5,060	4,700	4,430	3,520
4	4,180	13,600	4,920	e9,170	e5,540	7,230	12,900	7,160	4,830	4,430	4,520	4,060
5	4,710	10,100	5,130	e9,630	e7,240	6,650	12,900	7,070	5,700	4,570	4,620	3,510
6	4,770	8,770	6,140	e9,580	e8,370	6,560	14,100	6,030	6,930	4,540	4,100	3,750
7	4,560	7,290	5,870	e9,340	e8,390	8,330	19,600	5,970	7,110	4,290	4,280	3,730
8	4,780	6,440	6,160	e9,040	e8,150	10,100	20,900	5,340	6,990	3,940	4,090	3,250
9	4,590	5,950	7,030	e7,920	e9,260	9,910	19,300	5,880	7,390	3,810	3,870	2,870
10	5,300	5,980	6,740	e8,490	e8,940	9,510	17,800	6,490	8,380	3,830	3,820	3,470
11	5,490	5,180	6,410	e7,590	e8,700	8,310	17,700	6,190	7,200	4,090	3,820	3,530
12	4,920	4,730	6,350	e7,880	e9,160	8,060	14,600	8,030	5,830	3,740	4,090	3,130
13	4,630	4,560	7,110	e7,090	e9,690	8,400	12,000	6,780	7,900	3,690	4,200	3,350
14	4,370	4,880	8,310	e7,310	e9,460	8,020	10,700	7,040	7,610	3,700	4,560	3,350
15	4,120	4,880	7,620	e6,410	e10,400	7,890	8,020	6,000	8,040	3,700	3,750	3,430
16	4,360	5,010	6,200	e6,720	e10,900	7,040	8,830	6,380	9,870	3,570	3,940	3,470
17	4,200	5,780	5,760	e6,430	e10,400	6,640	8,980	7,720	13,300	3,400	4,080	3,530
18	4,190	4,400	6,100	e6,370	e7,240	6,830	8,020	8,150	14,100	3,590	4,250	3,490
19	4,920	4,730	e5,000	e7,020	e8,370	6,660	6,540	7,580	10,000	3,180	4,030	3,820
20	4,160	6,050	e3,460	e7,160	e8,410	6,630	7,220	7,710	8,340	3,660	4,500	4,050
21	4,590	5,720	e5,360	e6,980	e8,510	7,130	7,630	8,440	6,950	4,050	4,450	3,990
22	4,620	6,080	e6,080	e7,240	e7,930	7,060	7,180	8,230	6,410	4,070	4,250	3,770
23	4,610	5,850	e6,000	e7,080	e8,250	7,700	10,200	8,100	5,260	4,070	3,940	3,460
24	4,780	6,020	e6,550	e8,360	e7,980	7,490	11,700	9,120	4,300	4,500	3,760	3,340
25	5,820	6,460	e5,980	e8,240	e6,770	7,220	16,600	8,540	4,730	4,110	3,590	3,090
26	4,630	5,740	e5,750	e7,290	e6,600	7,460	13,900	7,840	4,790	4,750	3,840	5,150
27	5,280	6,950	e5,440	e6,940	7,180	8,010	10,500	6,340	4,720	5,640	3,860	3,840
28	6,280	5,230	e5,840	e8,050	7,950	7,410	7,930	6,450	5,100	5,730	3,830	4,090
29	6,660	5,800	e6,860	e8,030	---	8,070	8,600	5,910	e5,140	6,380	3,740	4,140
30	6,050	6,120	e6,900	e7,330	---	8,800	8,960	6,340	e5,230	6,110	3,700	4,390
31	5,700	---	e6,900	e8,380	---	10,500	---	6,590	---	4,890	3,720	---
TOTAL	150,010	200,660	188,650	238,180	231,270	240,540	361,910	220,530	208,110	133,880	127,480	109,820
MEAN	4,839	6,689	6,085	7,683	8,260	7,759	12,060	7,114	6,937	4,319	4,112	3,661
MAX	6,660	13,600	8,310	9,630	10,900	10,500	20,900	9,120	14,100	6,380	4,930	5,150
MIN	4,120	4,400	3,460	6,370	5,540	6,460	6,540	5,340	4,300	3,180	3,590	2,870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

MEAN	7,311	7,672	6,519	6,114	6,655	10,640	16,730	11,970	10,750	7,336	5,941	7,106
MAX	25,460	17,130	13,100	11,400	12,020	30,400	37,650	32,270	28,840	17,780	11,610	31,280
(WY)	(1987)	(1986)	(1966)	(1973)	(1966)	(1973)	(1922)	(1960)	(1993)	(1978)	(1924)	(1938)
MIN	2,638	2,662	2,616	3,209	3,113	3,501	4,788	4,621	3,091	2,754	2,567	2,651
(WY)	(1977)	(1977)	(1977)	(1924)	(1924)	(1934)	(1964)	(1977)	(1988)	(1988)	(1988)	(1976)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1914 - 2005	
ANNUAL TOTAL	3,436,740		2,411,040			
ANNUAL MEAN	9,390		6,606		8,723	
HIGHEST ANNUAL MEAN					16,030	1973
LOWEST ANNUAL MEAN					4,145	1977
HIGHEST DAILY MEAN	40,500	Jun 18	20,900	Apr 8	79,500	Sep 16, 1938
LOWEST DAILY MEAN	(a)3,460	Dec 20	2,870	Sep 9	1,460	Jul 3, 1988
ANNUAL SEVEN-DAY MINIMUM	4,260	Sep 28	3,280	Sep 8	1,900	Aug 13, 1988
MAXIMUM PEAK FLOW			21,500	Apr 8	80,800	Sep 16, 1938
MAXIMUM PEAK STAGE			5.00	Apr 8	11.48	Sep 16, 1938
10 PERCENT EXCEEDS	18,200		9,540		15,200	
50 PERCENT EXCEEDS	6,600		6,280		6,910	
90 PERCENT EXCEEDS	4,630		3,770		3,960	

05407000 WISCONSIN RIVER AT MUSCODA, WI—Continued

(a) Ice affected
(e) Estimated

05407470 KICKAPOO RIVER AT HWY 33 AT ONTARIO, WI

LOCATION.--Lat 43°43'18", long 90°35'15", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.2, T.14 N., R.2 W., Vernon County, Hydrologic Unit 07070006, on right bank 85 ft downstream from Highway 33 bridge at Ontario.

DRAINAGE AREA.--117 mi^2.

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 850 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see Introduction). Recorded gage heights are available from June 15, 2001 to Sept. 30, 2001. Sediment loads are available from November 1972 to Sept. 1973. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	55	e46	e50	e46	e48	102	53	36	37	38	34
2	65	70	e46	e67	e46	e47	85	52	36	36	37	32
3	46	58	e46	e52	e46	e47	80	51	36	36	37	32
4	43	54	e46	e46	e52	e57	80	50	38	37	36	33
5	41	53	e46	e46	e68	e72	80	48	46	37	34	33
6	42	52	e52	e46	e440	324	81	51	39	35	34	32
7	42	51	65	e46	e160	445	76	49	38	36	33	32
8	44	49	67	e46	e92	94	72	48	41	35	33	42
9	42	51	65	e46	e60	65	69	58	41	35	35	38
10	41	51	86	e46	e55	62	67	55	40	34	47	35
11	41	50	85	e46	e60	59	65	54	48	33	39	33
12	42	49	72	e46	71	57	68	52	59	33	48	32
13	42	49	e58	e43	124	e56	67	62	50	33	41	36
14	43	49	e51	e35	267	54	61	58	57	33	38	41
15	44	50	e50	e35	123	52	59	56	56	33	36	36
16	47	52	e53	e35	70	56	60	51	45	32	35	35
17	45	54	e50	e35	56	59	68	51	41	31	35	34
18	43	53	e50	e35	e53	61	62	50	40	30	42	34
19	43	59	e41	e37	e53	55	62	65	38	28	51	46
20	42	74	e44	e44	53	55	83	52	36	30	39	41
21	42	61	e46	e46	54	62	67	47	36	56	36	37
22	43	59	e45	e46	51	83	62	45	35	46	35	38
23	62	58	e39	e46	e50	109	60	43	34	39	35	39
24	51	56	e38	e46	e50	126	57	41	34	38	35	36
25	46	56	e38	e46	51	142	57	39	41	45	35	85
26	53	57	e40	e46	50	144	59	39	39	177	36	64
27	66	69	e41	e46	50	201	59	38	39	54	42	45
28	57	71	e41	e46	49	226	57	39	35	46	37	48
29	68	e57	e44	e46	---	241	55	39	36	42	35	57
30	79	e49	e52	e46	---	225	54	39	47	40	34	44
31	59	---	e60	e46	---	180	---	36	---	40	34	---
TOTAL	1,511	1,676	1,603	1,388	2,400	3,564	2,034	1,511	1,237	1,297	1,162	1,204
MEAN	48.7	55.9	51.7	44.8	85.7	115	67.8	48.7	41.2	41.8	37.5	40.1
MAX	79	74	86	67	440	445	102	65	59	177	51	85
MIN	41	49	38	35	46	47	54	36	34	28	33	32
CFSM	0.42	0.48	0.44	0.38	0.73	0.98	0.58	0.42	0.35	0.36	0.32	0.34
IN.	0.48	0.53	0.51	0.44	0.76	1.13	0.65	0.48	0.39	0.41	0.37	0.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	52.2	53.6	50.2	44.3	63.9	116	74.0	81.7	77.1	54.5	48.2	44.7
MAX	62.4	58.4	58.1	53.3	85.7	150	95.1	133	127	66.3	56.1	53.4
(WY)	(2003)	(2002)	(2002)	(2002)	(2005)	(2004)	(2002)	(2004)	(2004)	(2002)	(2004)	(2002)
MIN	39.6	49.8	42.5	36.3	46.6	89.0	60.0	48.7	41.2	41.8	37.5	39.5
(WY)	(2004)	(2003)	(2004)	(2004)	(2004)	(2002)	(2004)	(2005)	(2005)	(2005)	(2005)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	26,712		20,587			
ANNUAL MEAN	73.0		56.4		63.4	
HIGHEST ANNUAL MEAN					71.0	2004
LOWEST ANNUAL MEAN					56.4	2005
HIGHEST DAILY MEAN	899	Mar 5	445	Mar 7	899	Mar 5, 2004
LOWEST DAILY MEAN	(a)30	Jan 27	28	Jul 19	28	Jul 19, 2005
ANNUAL SEVEN-DAY MINIMUM	(a)31	Jan 25	31	Jul 14	30	Aug 18, 2003
MAXIMUM PEAK FLOW			(b)	Feb 6	(c)1,950	Mar 15, 2003
MAXIMUM PEAK STAGE			(a)14.49	Feb 6	(d)16.95	Mar 1, 2004
INSTANTANEOUS LOW FLOW			27	Jul 19	27	Jul 19, 2005
ANNUAL RUNOFF (CFSM)	0.624		0.482		0.542	
ANNUAL RUNOFF (INCHES)	8.49		6.55		7.36	
10 PERCENT EXCEEDS	98		71		85	
50 PERCENT EXCEEDS	53		46		52	
90 PERCENT EXCEEDS	39		35		37	

05407470 KICKAPOO RIVER AT HWY 33 AT ONTARIO, WI—Continued

(a) Ice affected
(b) Unknown, ice affected
(c) Gage height 16.24 ft
(d) Discharge 1440 cfs
(e) Estimated

05408000 KICKAPOO RIVER AT LA FARGE, WI

LOCATION.--Lat 43°34'27", long 90°38'35", in NE ¼ SW ¼ sec.29, T.13 N., R.2 W., Vernon County, Hydrologic Unit 07070006, on left bank 10 ft upstream from bridge on State Highway 82, in La Farge, 0.3 mi upstream from Otter Creek, and 1.3 mi downstream from powerplant.

DRAINAGE AREA.--266 mi^2.

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1388: 1951(M), 1954(M). WSP 1438: 1944-45(M), 1946, 1948, 1950(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 781.54 ft above NGVD of 1929. Prior to Dec. 4, 1939, nonrecording gage on highway bridge at same datum.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	152	e140	e130	e120	e120	324	138	115	127	104	91
2	199	176	e130	e130	e120	e120	244	137	115	113	100	88
3	149	173	134	e130	e120	e120	224	134	112	110	98	87
4	132	150	135	e130	e120	e120	214	129	116	112	97	88
5	125	143	135	e120	e160	e140	210	125	138	110	93	88
6	125	140	139	e120	e400	e300	208	128	133	105	91	87
7	125	138	154	e120	e1,000	1,190	202	130	124	104	91	86
8	126	131	173	e120	e300	393	188	126	133	102	90	93
9	126	130	159	e120	e200	204	179	139	134	102	94	102
10	122	132	181	e120	e150	183	174	143	124	99	115	96
11	121	133	241	e120	e150	170	168	159	135	95	110	91
12	122	128	188	e120	e200	e150	173	154	175	94	127	88
13	125	126	163	e120	e300	e150	189	195	152	93	116	90
14	126	125	139	e110	e600	e150	166	181	182	91	106	100
15	126	128	e130	e92	e400	151	156	167	186	90	101	98
16	129	131	e130	e90	e300	154	153	153	148	88	97	93
17	130	134	e130	e90	e200	162	169	142	131	86	96	92
18	123	133	e130	e90	e140	162	162	141	123	85	117	92
19	121	140	e130	e90	e140	148	154	164	119	83	153	122
20	121	193	e120	e90	e140	151	196	168	115	83	115	125
21	119	168	e110	e90	e140	167	178	143	112	118	102	103
22	119	149	e110	e90	e140	213	161	136	110	159	98	100
23	159	145	e110	e100	e130	231	155	129	108	115	98	106
24	172	141	e100	e110	e130	308	148	125	107	121	97	101
25	134	138	e100	e120	e130	336	146	121	117	110	96	128
26	135	139	e100	e120	e130	317	152	119	123	408	98	205
27	197	161	e100	e120	e130	373	155	119	121	196	113	128
28	157	196	e100	e120	e130	486	149	125	110	131	105	119
29	183	163	e100	e120	---	520	142	125	108	118	96	148
30	210	150	e110	e120	---	569	139	138	129	110	94	126
31	186	---	e120	e120	---	501	---	122	---	108	93	---
TOTAL	4,370	4,386	4,141	3,482	6,320	8,459	5,378	4,355	3,855	3,666	3,201	3,161
MEAN	141	146	134	112	226	273	179	140	128	118	103	105
MAX	210	196	241	130	1,000	1,190	324	195	186	408	153	205
MIN	119	125	100	90	120	120	139	119	107	83	90	86
CFSM	0.53	0.55	0.50	0.42	0.85	1.03	0.67	0.53	0.48	0.44	0.39	0.40
IN.	0.61	0.61	0.58	0.49	0.88	1.18	0.75	0.61	0.54	0.51	0.45	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

MEAN	145	153	133	127	160	298	271	199	198	163	143	158
MAX	317	337	336	421	499	761	723	580	445	838	446	539
(WY)	(1960)	(1983)	(1985)	(1946)	(1966)	(1961)	(1965)	(1973)	(1947)	(1978)	(1980)	(1965)
MIN	73.4	78.5	62.0	61.3	62.2	114	126	80.4	80.9	77.8	60.4	72.7
(WY)	(1959)	(1940)	(1959)	(1959)	(1959)	(1957)	(1942)	(1958)	(1958)	(1958)	(1958)	(1940)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	73,616		54,774			
ANNUAL MEAN	201		150		179	
HIGHEST ANNUAL MEAN					282	1993
LOWEST ANNUAL MEAN					97.1	1958
HIGHEST DAILY MEAN	1,940	May 22	1,190	Mar 7	7,730	Feb 9, 1966
LOWEST DAILY MEAN	(a)95	Jan 29, 30	83	Jul 19, 20	36	Nov 3, 1939
ANNUAL SEVEN-DAY MINIMUM	(a)98	Jan 24	87	Jul 14	(a)49	Jan 3, 1968
MAXIMUM PEAK FLOW			(b)1,520	Mar 7	14,300	Jul 1, 1978
MAXIMUM PEAK STAGE			(a)9.63	Feb 7	14.92	Jul 1, 1978
ANNUAL RUNOFF (CFSM)	0.756		0.564		0.673	
ANNUAL RUNOFF (INCHES)	10.30		7.66		9.14	
10 PERCENT EXCEEDS	284		198		260	
50 PERCENT EXCEEDS	141		129		135	
90 PERCENT EXCEEDS	107		94		88	

(a) Ice affected
(b) Gage height 9.25 ft
(e) Estimated

05410490 KICKAPOO RIVER AT STEUBEN, WI

LOCATION.--Lat 43°10'58", long 90°51'30", in NE $^1/_4$ SW $^1/_4$ sec.9, T.8 N., R.4 W., Crawford County, Hydrologic Unit 07070006, on right bank at upstream corner of town road bridge at Steuben and 18.6 mi upstream from mouth.

DRAINAGE AREA.--687 mi^2.

PERIOD OF RECORD.--May 1933 to current year. Prior to October 1982, all records published under station number 05410500.

REVISED RECORDS.--WSP 855: Drainage area. WSP 1438: 1933-38. WDR WI-79-1: 1978(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 657.00 ft above NGVD of 1929. May 1933 to Oct. 19, 1938, nonrecording gage at same site at datum 1.7 ft higher. Oct. 20, 1938 to September 1982, recording gage at site 1.2 mi downstream at datum 0.36 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see Introduction). Data-collection platform and gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	396	517	450	e360	e390	e420	945	433	420	406	367	311
2	422	479	434	e390	e390	e410	805	428	403	401	357	305
3	456	465	430	e390	e390	395	672	426	396	388	349	302
4	464	478	434	e390	e390	394	621	422	396	380	353	315
5	419	457	427	e390	e390	432	598	416	406	378	340	307
6	403	440	437	e360	e450	553	584	413	419	374	331	305
7	398	432	447	e360	e800	1,030	573	414	421	368	325	303
8	400	424	461	e360	e1,100	1,290	557	417	408	363	320	303
9	397	417	479	e360	e900	1,200	537	418	413	360	318	309
10	394	414	497	e360	e700	722	521	423	418	358	331	315
11	390	413	506	e360	e530	577	510	456	413	354	352	316
12	387	410	546	e360	e470	530	511	475	420	349	402	307
13	388	406	544	e360	e500	495	510	502	450	345	398	309
14	390	402	486	e360	933	459	517	516	465	343	381	301
15	392	402	413	e330	1,190	473	499	529	473	342	357	304
16	394	406	e390	e290	1,000	469	477	502	476	339	342	312
17	391	410	e390	e270	694	465	472	482	452	337	332	309
18	390	414	e390	e270	551	474	473	463	416	335	354	304
19	389	420	e390	e270	e450	472	479	470	399	332	362	327
20	383	437	e390	e270	e450	465	474	473	389	334	407	344
21	378	460	e360	e270	e450	459	483	485	382	366	401	360
22	380	476	e330	e270	e440	495	499	465	374	420	355	348
23	396	448	e330	e270	e440	568	469	443	368	473	337	331
24	417	434	e330	e330	e420	618	453	431	370	433	329	324
25	450	429	e300	e390	e420	675	446	421	419	406	326	330
26	437	425	e300	e390	e420	715	446	414	427	509	326	346
27	450	435	e300	e390	e420	726	447	413	425	620	327	385
28	462	457	e300	e390	e420	763	446	409	415	646	332	410
29	480	479	e300	e390	---	873	444	414	399	455	336	371
30	477	477	e300	e390	---	935	438	422	415	401	325	366
31	513	---	e330	e390	---	977	---	425	---	384	314	---
TOTAL	12,883	13,163	12,421	10,730	16,098	19,529	15,906	13,820	12,447	12,299	10,786	9,779
MEAN	416	439	401	346	575	630	530	446	415	397	348	326
MAX	513	517	546	390	1,190	1,290	945	529	476	646	407	410
MIN	378	402	300	270	390	394	438	409	368	332	314	301
CFSM	0.60	0.64	0.58	0.50	0.84	0.92	0.77	0.65	0.60	0.58	0.51	0.47
IN.	0.70	0.71	0.67	0.58	0.87	1.06	0.86	0.75	0.67	0.67	0.58	0.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2005, BY WATER YEAR (WY)

MEAN	421	438	385	362	427	763	697	539	532	490	428	451
MAX	798	858	781	846	1,276	1,856	1,748	1,415	1,480	1,901	1,180	1,331
(WY)	(1973)	(1983)	(1985)	(1946)	(1966)	(1946)	(1959)	(1973)	(2000)	(1978)	(1935)	(1938)
MIN	206	222	172	172	184	252	351	228	223	189	188	199
(WY)	(1959)	(1938)	(1959)	(1959)	(1959)	(1934)	(1942)	(1934)	(1934)	(1936)	(1936)	(1937)

05410490 KICKAPOO RIVER AT STEUBEN, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1933 - 2005	
ANNUAL TOTAL	208,134		159,861			
ANNUAL MEAN	569		438		495	
HIGHEST ANNUAL MEAN					792	1993
LOWEST ANNUAL MEAN					273	1958
HIGHEST DAILY MEAN	2,660	May 26	1,290	Mar 8	12,600	Jul 3, 1978
LOWEST DAILY MEAN	(a)260	Jan 30	(a)270	Jan 17-23	(a)165	(b)Dec 10-20, 1958
ANNUAL SEVEN-DAY MINIMUM	(a)277	Jan 25	270	Jan 17	(a)165	Dec 10, 1958
MAXIMUM PEAK FLOW			(c)1,300	Mar 8	16,500	Jul 3, 1978
MAXIMUM PEAK STAGE			(a)11.02	Feb 8	(d)14.81	Jul 3, 1978
INSTANTANEOUS LOW FLOW					(d)161	Aug 9, 1936
ANNUAL RUNOFF (CFSM)	0.828		0.638		0.721	
ANNUAL RUNOFF (INCHES)	11.27		8.66		9.80	
10 PERCENT EXCEEDS	957		540		746	
50 PERCENT EXCEEDS	449		413		412	
90 PERCENT EXCEEDS	290		325		266	

(a) Ice affected
(b) Also occurred Jan. 4-9, Feb. 5-7, 1959, ice affected
(c) Gage height 10.08 ft
(d) Site and datum then in use
(e) Estimated

The 24 reservoirs listed below are used to stabilize the flow of the Wisconsin and Tomahawk Rivers for power generation and are also used for recreational purposes. The first 21 reservoirs are owned and operated by the Wisconsin Valley Improvement Co., which furnishes the gage heights and capacity tables. Revised capacity tables for all 21 reservoirs were received from the Company in April 1957 and were used to compute month-end usable contents beginning Sept. 30, 1955. Another revised capacity table for Burnt Rollways Reservoir was used to compute month-end usable contents beginning Sept. 30, 1964. Lake Dubay is owned by the Consolidated Water Power Co. Petenwell and Castle Rock are owned and operated by the Wisconsin River Power Co., which furnished the gage heights and capacity tables for those two reservoirs. Month-end contents are computed by the U.S. Geological Survey. The usable capacity of these reservoirs is usually less in summer than in winter because the allowable summer drawdown is limited by the Department of Natural Resources in the interest of riparian property owners. There are occasionally formal or informal changes in capacity and in minimum drawdown levels. Usable capacity figures listed below are for winter regulation.

05390100 Lac Vieux Desert on Wisconsin River, lat 46°07'18", long 89°09'07", in SE 1/4 NW 1/4 sec.17, T.42 N., R.11 E., Vilas County, 4.8 mi northwest of Phelps, used as a reservoir since 1908, has a usable capacity of 652,000,000 ft^3. Drainage area, 34.4 mi^2.

05390150 Twin Lakes on Twin River, lat 46°01'20", long 89°10'05", in SW 1/4 NE 1/4 sec.19, T.41 N., R.11 E., Vilas County, 5.0 mi southwest of Phelps, used as a reservoir since 1908, has a usable capacity of 313,000,000 ft^3. Drainage area, 26 mi^2.

05390200 Buckatahpon Lakes on Buckatabon Creek, lat 46°01'18", long 89°18'40", in SE 1/4 NE 1/4 sec.24, T.41 N., R.9 E., Vilas County, 3.3 mi southwest of Conover, used as a reservoir since 1908, has a usable capacity of 130,000,000 ft^3. Drainage area, 16.9 mi^2.

05390250 Sevenmile Lake on Sevenmile Creek, lat 45°52'30", long 89°04'07", in SE 1/4 NE 1/4 sec.11, T.39 N., R.11 E., Oneida County, 9.1 mi southeast of town of Eagle River, used as a reservoir since 1908, has a usable capacity of 93,000,000 ft^3. Drainage area, 12.1 mi^2.

05390300 Lower Ninemile Lake on Ninemile Creek, lat 45°53'37", long 89°07'15", in NE 1/4 NW 1/4 sec.4, T.39 N., R.11 E., Oneida County, 6.6 mi southeast of town of Eagle River, used as a reservoir since 1908, has a usable capacity of 121,000,000 ft^3. Drainage area, 28.8 mi^2.

05390350 Burnt Rollways Reservoir on Eagle River, lat 45°53'40", long 89°08'28", in NE 1/4 NW 1/4 sec.5, T.39 N., R.11 E., Oneida County, 5.3 mi southeast of town of Eagle6 River, used as a reservoir since 1908, has a usable capacity of 779,000,000 ft^3. This reservoir includes 18 lakes controlled by the same dam. Drainage area, 142 mi^2.

05390400 Long Lake on Deerskin River, lat 46°02'37", long 89°02'44", in NW 1/4 SE 1/4 sec.7, T.41 N., R.12 E., Vilas County, 2.5 mi southeast of Phelps, used as a reservoir since 1908, has a usable capacity of 400,000,000 ft^3. Drainage area, 22.9 mi^2.

05390600 Deerskin Lake on Little Deerskin River, lat 45°59'07", long 89°09'40", in SE 1/4 sec.31, T.41 N., R.ll E., Vilas County, 6.3 mi northeast of town of Eagle River, used as a reservoir since 1908, has a usable capacity of 22,000,000 ft^3. Drainage area, 2.47 mi^2.

05390650 Sugar Camp Reservoir on Sugar Camp Creek, lat 45°52'19", long 89°23'40", in NE 1/4 sec.17, T.39 N., R.9 E., Oneida County, 7.6 mi southwest of town of Eagle River, used as a reservoir since 1908, has a usable capacity of 471,000,000 ft^3. Drainage area, 48.4 mi^2.

05390700 Little St. Germain Lake on Little St. Germain Creek, lat 45°53'55", long 89°27'10", in SE 1/4 sec.35, T.40 N., R.8 E., Vilas County, 9.6 mi west of town of Eagle River, used as a reservoir since 1908, has a usable capacity of 79,000,000 ft^3. Drainage area, 19 mi^2.

05390750 Big St. Germain Lake on St. Germain River, lat 45°55'06", long 89°31'55", in SE 1/4 sec.30, T.40 N., R.8 E., Vilas County, 5.0 mi south of Sayner, used as a reservoir since 1908, has a usable capacity of 202,000,000 ft^3. Drainage area, 73.1 mi^2.

05390800 Pickerel Lake on St. Germain River, lat 45°52'22", long 89°31'47", in NE 1/4 sec.18, T.39 N., R.8 E., Oneida County, 5.0 mi northeast of town of Lake Tomahawk, used as a reservoir since 1935, has a usable capacity of 338,000,000 ft^3. Drainage area, 86.2 mi^2.

05390900 Rainbow Lake on Wisconsin River, lat 45°50'02", long 89°32'42", in SW 1/4 sec.30, T.39 N., R.8 E., Oneida County, 800 ft upstream from U.S. Geological Survey river gaging station, 2.7 mi northeast of town of Lake Tomahawk, used as a reservoir since 1935, has a usable capacity of 2,181,000,000 ft^3. Drainage area, 744 mi^2.

05391100 South Pelican Lake on Pelican River, lat 45°31'37", long 89°12'24", in S 1/2 sec.11, T.35 N., R.10 E., Oneida County, 2.8 mi northwest of town of Pelican Lake, used as a reservoir since 1909, has a usable capacity of 305,000,000 ft^3. Drainage area, 19.8 mi^2.

05391300 North Pelican Lake (includes Moen Lakes) on North Branch Pelican River, lat 45°38'05", long 89°14'38", in SE 1/4 sec.4, T.36 N., R.10 E., Oneida County, 0.2 mi below Twin Lakes Creek and 8.0 mi east of Rhinelander city limits, used as a reservoir since 1908, has a usable capacity of 218,000,000 ft^3. Drainage area, 95 mi^2.

05392100 Minocqua Lake on Tomahawk River, lat 45°52'35", long 89°43'38", on line between secs.10 and 15, T.39 N., R.6 E., Oneida County, 1.0 mi west of Minocqua, used as a reservoir since 1910, has a usable capacity of 628,000,000 ft^3. Drainage area, 72.5 mi^2.

05392200 Squirrel Lake on Squirrel River, lat 45°50'37", long 89°54'13", in NE 1/4 sec.30, T.39 N., R.5 E., Oneida County, 9.4 mi west of Minocqua, used as a reservoir since 1908, has a usable capacity of 182,000,000 ft^3. Drainage area, 15.2 mi^2.

05392300 Willow Reservoir on Tomahawk River, lat 45°42'45", long 89°50'38", in NE 1/4 sec.10, T.37 N., R.5 E., Oneida County, 8.8 mi southwest of Hazelhurst, used as a reservoir since 1927, has a usable capacity of 3,302,000,000 ft^3. Drainage area, 310 mi^2.

05392500 Lake Nokomis on Tomahawk River, lat 45°32'20", long 89°44'48", in NW 1/4 sec.9, T.35 N., R.6 E., Lincoln County, at U.S. Geological Survey river gaging station, 0.5 mi east of Bradley, used as a reservoir since 1912, has a usable capacity of 1,808,000,000 ft^3. Drainage area, 544 mi^2.

05393600 Spirit River Flowage on Spirit River, lat 45°26'18", long 89°44'30", in NE 1/4 sec.16, T.34 N., R.6 E., Lincoln County, 2.0 mi south of Tomahawk, used as a reservoir since 1923, has a usable capacity of 756,000,000 ft^3. Drainage area, 158 mi^2.

05399600 Big Eau Pleine Reservoir on Big Eau Pleine River, lat 44°43'52", long 89°45'35", in SW 1/4 sec.14, T.26 N., R.6 E., Marathon County, 3.0 mi northeast of Dancy, used as a reservoir since 1937, has a capacity of 4,457,000,000 ft^3. Drainage area, 363 mi^2.

05400295 Lake Dubay on Wisconsin River, lat 44°39'54", long 89°39'03", in sec.10, T.25 N., R.7 E., Wood County, 1.5 mi downstream of Little Eau Pleine River and 10.5 mi northwest of Stevens Point, has a usable capacity of 2,117,000,000 ft^3. Drainage area, 4,900 mi^2.

05401400 Petenwell Flowage on Wisconsin River, lat 44°03'26", long 90°01'18", in SE 1/4 sec.4, T.18 N., R.4 E., Adams County, 5.2 mi upstream from Roche a Cri Creek, 2.4 mi west of Strongs Prairie, and 3.5 mi northeast of Necedah, used as a reservoir since 1950, has a total capacity of 19,880,000,000 ft^3. Drainage area, 5,970 mi^2.

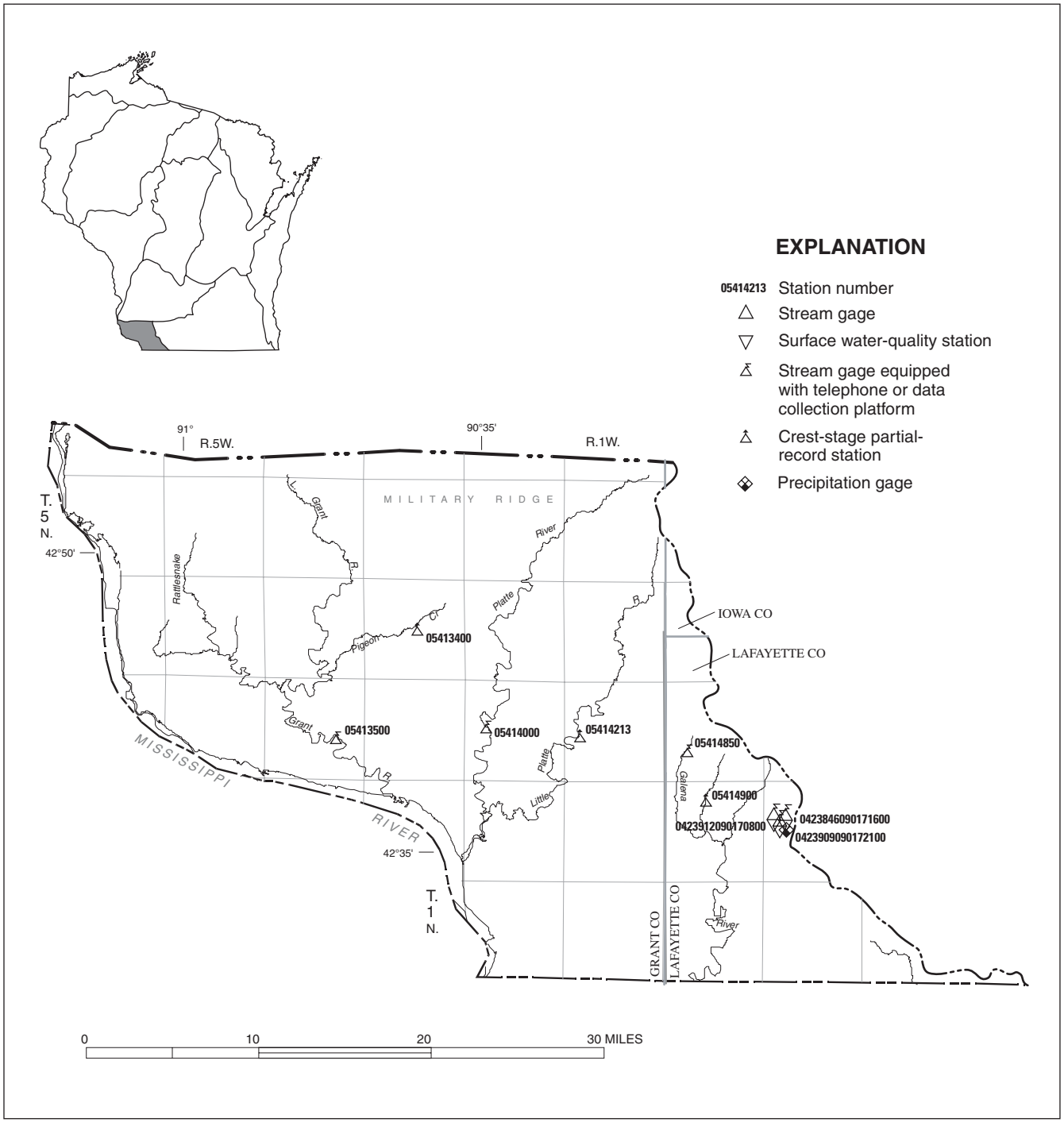
05403200 Castle Rock Flowage on Wisconsin River, lat 43°51'48", long 89°57'38", in sec.13, T.16 N., R.4 E., Adams County, 4.5 mi upstream from Duck Creek, and 2.0 mi south of Germantown, and 7.0 mi northeast of Mauston, used as a reservoir since 1950, has a total capacity of 7,630,000,000 ft^3. Drainage area, 7,056 mi^2.

MONTH-END CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	LAC VIEUX DESERT	TWIN LAKES	BUCKATAHPON LAKE	SEVENMILE LAKE	LOWER NINEMILE LAKE	BURNT ROLLWAYS RESERVOIR	LONG LAKE	DEERSKIN LAKE
Sept. 30	211	217	110	40	99	533	114	16
Oct. 31	256	229	114	68	120	779	80	18
Nov. 30	191	202	99	53	91	584	45	10
Dec. 31	123	130	82	30	52	253	58	6
Jan. 31	73	52	62	11	26	126	89	5
Feb. 29	46	0	53	10	0	61	101	5
Mar. 31	42	14	51	31	88	186	110	6
Apr. 30	117	80	89	59	117	779	178	7
May 31	123	108	107	62	115	739	198	7
June 30	187	136	108	61	115	725	211	8
July 31	191	136	115	45	117	655	194	9
Aug.31	155	108	113	39		610	150	7
Sept. 30	155	108	116	33	121	616	144	9

	SUGAR CAMP RESERVOIR	LITTLE ST. GERMAIN LAKE	BIG ST. GERMAIN LAKE	PICKEREL LAKE	RAINBOW LAKE	SOUTH PELICAN LAKE	NORTH PELICAN LAKE	MINOCQUA LAKE
Sept. 30	363	64	156	276	848	246	129	442
Oct. 31	403	78	184	277	854	289	137	505
Nov. 30	263	53	116	255	1,708	255	121	398
Dec. 31	296	34	84	238	1,991	191	56	315
Jan. 31	146	17	60	224	1,567	127	0	219
Feb. 29	125	5	46	219	934	88	66	110
Mar. 31	96	15	42	211	422	106	68	108
Apr. 30	335	35	130	274	1,300	222	133	214
May 31	377	43	157	275	1,402	258	132	280
June 30	382	51	157	276	1,328	246	138	335
July 31	352	43	159	271	941	216	114	258
Aug. 31	320	36	141	263	657	164	99	198
Sept. 30	314	37	161	262	533	164	91	208

	SQUIRREL LAKE	WILLOW RESERVOIR	LAKE NOKOMIS	SPIRIT RIVER FLOWAGE	BIG EAU PLEINE RESERVOIR	LAKE DUBAY	PETENWELL FLOWAGE	CASTLE ROCK FLOWAGE
Sept. 30	166	1,232	806	316	2,414	4,128	17,571	5,786
Oct. 31	238	1,317	786	359	2,149	1,709	17,800	5,896
Nov. 30	194	1,763	997	425	2,412	1,604	17,474	5,850
Dec. 31	131	1,730	861	325	2,321	1,409	17,100	5,818
Jan. 31	62	1,444	664	255	2,026	829	13,826	5,607
Feb. 29	10	1,136	548	230	1,803	317	13,922	4,339
Mar. 31	47	930	516	194	2,916	711	14,870	4,091
Apr. 30	112	1,825	1,433	748	4,232	1,614	18,240	5,709
May 31	174	1,938	1,514	679	4,325	1,618	18,257	6,221
June 30	207	2,094	1,422	613	4,070	1,618	17,553	5,850
July 31	178	1,575	1,107	389	3,052	1,629	17,395	5,870
Aug. 31	140	964	850	207	1,924	1,604	17,307	5,786
Sept. 30	133	678	604	181	1,490	1,582	17,228	5,722



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

GRANT-PLATTE-GALENA RIVER BASIN

05413500 GRANT RIVER AT BURTON, WI

LOCATION.--Lat 42°43'13", long 90°49'09", in SW ¼ NW ¼ sec.23, T.3 N., R.4 W., Grant County, Hydrologic Unit 07060003, on right bank at downstream side of highway bridge at Burton, 5.9 mi northwest of Potosi and 9.5 mi upstream from mouth.

DRAINAGE AREA.--269 mi^2.

PERIOD OF RECORD.--October 1934 to current year. Published as "near Burton" October 1934 to September 1947. Records published for both sites March to September 1947. October 1934, monthly discharge published in WSP 1308.

REVISED RECORDS.--WSP 825: 1935-36. WSP 1308: 1935-37(M), 1941(M), 1945-46(M), 1949(M). WSP 1728: 1942(M). WDR WI-76-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 606.43 ft above NGVD of 1929. Oct. 17, 1934, to Sept. 30, 1947, non- recording gage at site 6 mi upstream at datum 33.18 ft higher. Mar. 18, 1947, to July 27, 1949, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see Introduction). Data-collection platform and gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	135	126	e150	e110	e150	158	116	98	108	106	91
2	144	153	124	e200	e110	e130	149	116	97	103	102	88
3	134	146	123	e210	e110	e130	145	115	97	102	100	87
4	128	137	123	e160	e110	e140	143	112	100	103	99	88
5	124	134	123	e150	e110	347	140	111	120	102	103	89
6	125	131	143	e130	e300	656	144	110	118	99	97	88
7	126	130	172	e120	e1,000	863	139	113	101	96	94	87
8	130	125	183	e120	e600	295	131	115	96	95	93	88
9	132	124	151	e120	e300	203	129	115	96	95	92	94
10	127	125	150	e120	e180	188	128	114	95	94	94	91
11	125	125	148	e130	e160	182	128	130	99	92	96	88
12	126	122	142	e140	e150	174	156	146	97	92	106	86
13	128	121	138	e130	e500	e150	169	131	96	92	106	89
14	129	121	e100	e100	e2,000	e150	143	132	95	91	98	102
15	130	123	e120	e110	e800	150	136	121	93	92	94	89
16	130	127	e110	e100	e400	151	133	116	90	91	91	88
17	128	127	e110	e100	e220	154	141	114	88	91	90	88
18	128	127	e100	e100	e180	151	138	114	87	90	461	88
19	132	131	e100	e100	e170	161	132	130	87	88	291	189
20	130	137	e100	e100	e160	149	141	122	86	94	138	150
21	127	130	e99	e100	168	184	134	114	86	101	116	102
22	128	125	e98	e100	195	171	137	113	85	105	107	95
23	156	126	e97	e100	168	161	137	109	84	343	102	92
24	154	124	e97	e110	158	160	128	106	84	469	99	93
25	133	123	e97	e120	159	157	127	104	419	155	98	111
26	136	123	e96	e110	186	156	128	103	232	278	97	111
27	185	136	e96	e110	166	155	125	104	150	208	99	103
28	148	147	e98	e110	175	155	120	105	126	143	96	98
29	138	132	e100	e110	---	155	118	104	118	126	94	104
30	143	127	e110	e110	---	157	117	103	116	117	93	99
31	141	---	e130	e110	---	174	---	100	---	111	92	---
TOTAL	4,172	3,894	3,704	3,780	9,045	6,459	4,094	3,558	3,436	4,066	3,644	2,956
MEAN	135	130	119	122	323	208	136	115	115	131	118	98.5
MAX	185	153	183	210	2,000	863	169	146	419	469	461	189
MIN	124	121	96	100	110	130	117	100	84	88	90	86
CFSM	0.50	0.48	0.44	0.45	1.20	0.77	0.51	0.43	0.43	0.49	0.44	0.37
IN.	0.58	0.54	0.51	0.52	1.25	0.89	0.57	0.49	0.48	0.56	0.50	0.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2005, BY WATER YEAR (WY)

MEAN	121	131	112	133	202	312	183	173	212	176	149	133
MAX	276	626	350	467	668	1,057	505	489	920	808	502	330
(WY)	(1994)	(1962)	(1973)	(1974)	(1948)	(1959)	(1973)	(1973)	(1947)	(1993)	(1943)	(1993)
MIN	45.8	41.3	37.7	33.4	36.1	55.3	66.0	46.8	50.6	35.8	41.6	42.2
(WY)	(1935)	(1938)	(1959)	(1959)	(1959)	(1958)	(1957)	(1958)	(1936)	(1936)	(1937)	(1958)

05413500 GRANT RIVER AT BURTON, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1935 - 2005	
ANNUAL TOTAL	68,322		52,808			
ANNUAL MEAN	187		145		170	
HIGHEST ANNUAL MEAN					351	1993
LOWEST ANNUAL MEAN					59.3	1958
HIGHEST DAILY MEAN	2,250	May 23	(a)2,000	Feb 14	10,700	Jun 13, 1947
LOWEST DAILY MEAN	(a)68	Jan 19	84	Jun 23, 24	30	(b)Aug 5, 1936
ANNUAL SEVEN-DAY MINIMUM	(a)76	Jan 27	86	Jun 18	31	(c)Aug 3, 1936
MAXIMUM PEAK FLOW			(d)		(f)25,000	Jul 16, 1950
MAXIMUM PEAK STAGE			(g)20.01	Feb 14	24.82	Jul 16, 1950
INSTANTANEOUS LOW FLOW			(h)73	Dec 14	(h)21	Mar 4, 1954
ANNUAL RUNOFF (CFSM)	0.694		0.538		0.631	
ANNUAL RUNOFF (INCHES)	9.45		7.30		8.57	
10 PERCENT EXCEEDS	300		174		257	
50 PERCENT EXCEEDS	138		123		120	
90 PERCENT EXCEEDS	88		92		61	

(a) Ice affected
(b) Also occurred Aug. 8, 9, 1936, Sept. 22, 1937, and Feb. 19, 20, 1959, ice affected
(c) Also occurred Jan. 4, 1959, ice affected
(d) Unknown, ice affected
(e) Estimated due to ice effect or missing record
(f) From rating curve extended above 18,000 ft^3/s on basis of slope-area measurement of peak flow
(g) Backwater from ice jam
(h) Result of freezeup

05413730 MARTINVILLE CREEK NEAR LIVINGSTON, WI

LOCATION.--Lat 42°54'45", long 90°28'13", in NE ¼ NE ¼ sec.15, T.5 N., R.1 W., Grant County, Hydrologic Unit 07060003, on left bank 3 ft downstream from culvert on Rock Church Road.

DRAINAGE AREA.--2.6 mi^2.

PERIOD OF RECORD.--May to September 2005.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 890 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for May 19 which is fair, and for those estimated daily discharges, which are poor (see Introduction). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e1.1	0.62	0.75	0.66	0.58
2	---	---	---	---	---	---	---	e1.1	0.61	0.75	0.71	0.56
3	---	---	---	---	---	---	---	e1.1	0.65	0.77	0.70	0.54
4	---	---	---	---	---	---	---	e1.1	0.75	0.89	0.77	0.67
5	---	---	---	---	---	---	---	e1.1	0.86	0.78	0.64	0.58
6	---	---	---	---	---	---	---	e1.1	0.67	0.77	0.63	0.56
7	---	---	---	---	---	---	---	e1.1	0.62	0.76	0.60	0.58
8	---	---	---	---	---	---	---	e1.1	0.66	0.73	0.58	0.61
9	---	---	---	---	---	---	---	e1.2	0.60	0.72	0.58	0.63
10	---	---	---	---	---	---	---	e1.1	0.58	0.72	0.67	0.59
11	---	---	---	---	---	---	---	e1.4	0.59	0.71	0.72	0.56
12	---	---	---	---	---	---	---	e1.2	0.58	0.68	0.95	0.57
13	---	---	---	---	---	---	---	e1.2	0.58	0.65	0.72	0.56
14	---	---	---	---	---	---	---	e1.1	0.61	0.65	0.67	0.55
15	---	---	---	---	---	---	---	e1.0	0.61	0.65	0.63	0.50
16	---	---	---	---	---	---	---	e1.0	0.56	0.65	0.62	0.48
17	---	---	---	---	---	---	---	e1.0	0.55	0.65	0.63	0.46
18	---	---	---	---	---	---	---	e1.0	0.54	0.66	1.8	0.46
19	---	---	---	---	---	---	---	e0.96	0.50	0.65	0.83	0.86
20	---	---	---	---	---	---	---	0.82	0.49	0.68	0.75	0.58
21	---	---	---	---	---	---	---	0.78	0.49	0.79	0.68	0.53
22	---	---	---	---	---	---	---	0.74	0.47	0.70	0.65	0.52
23	---	---	---	---	---	---	---	0.74	0.47	2.3	0.65	0.52
24	---	---	---	---	---	---	---	0.67	0.67	0.87	0.65	0.60
25	---	---	---	---	---	---	---	0.66	3.1	1.0	0.66	1.1
26	---	---	---	---	---	---	---	0.64	1.1	2.3	0.69	0.82
27	---	---	---	---	---	---	---	0.66	0.80	0.98	0.70	0.64
28	---	---	---	---	---	---	---	0.65	0.79	0.83	0.66	0.72
29	---	---	---	---	---	---	---	0.66	0.80	0.77	0.61	0.74
30	---	---	---	---	---	---	---	0.69	0.78	0.69	0.61	0.69
31	---	---	---	---	---	---	---	0.63	---	0.67	0.60	---
TOTAL	---	---	---	---	---	---	---	29.30	21.70	26.17	22.02	18.36
MEAN	---	---	---	---	---	---	---	0.95	0.72	0.84	0.71	0.61
MAX	---	---	---	---	---	---	---	1.4	3.1	2.3	1.8	1.1
MIN	---	---	---	---	---	---	---	0.63	0.47	0.65	0.58	0.46
CFSM	---	---	---	---	---	---	---	0.36	0.28	0.32	0.27	0.24
IN.	---	---	---	---	---	---	---	0.42	0.31	0.37	0.32	0.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	0.95	0.72	0.84	0.71	0.61
MAX	---	---	---	---	---	---	---	0.95	0.72	0.84	0.71	0.61
(WY)	---	---	---	---	---	---	---	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	---	---	---	---	---	---	---	0.95	0.72	0.84	0.71	0.61
(WY)	---	---	---	---	---	---	---	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR (May - September)	
ANNUAL TOTAL	117.55	
ANNUAL MEAN	0.77	
HIGHEST DAILY MEAN	3.1	Jun 25
LOWEST DAILY MEAN	0.46	Sep 17, 18
ANNUAL SEVEN-DAY MINIMUM	0.50	Jun17
MAXIMUM PEAK FLOW	10	Jul 23
MAXIMUM PEAK STAGE	2.42	Jul 23
INSTANTANEOUS LOW FLOW	0.39	Jul 23, 24
ANNUAL RUNOFF (CFSM)	0.296	
ANNUAL RUNOFF (INCHES)	1.68	
10 PERCENT EXCEEDS	1.1	
50 PERCENT EXCEEDS	0.67	
90 PERCENT EXCEEDS	0.55	

(e) Estimated

05414000 PLATTE RIVER NEAR ROCKVILLE, WI

LOCATION.--Lat 42°43'52", long 90°38'25", in SW $^1/_4$ sec.17, T.3 N., R.2 W., Grant County, Hydrologic Unit 07060003, on right bank just downstream from bridge on County Trunk Highway B, 0.8 mi upstream from Blakely Branch, 2.2 mi east of Rockville, 4.5 mi northeast of Potosi, and 15.2 mi upstream from mouth.

DRAINAGE AREA.--142 mi^2.

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge for October and November 1934 published in WSP 1308.

REVISED RECORDS.--WSP 1438: 1935-36, 1937(M), 1939(M), 1941-43(M), 1946(M). WDR WI-76-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 642.50 ft above NGVD of 1929. Prior to Oct. 1, 1941, nonrecording gage at site 1.3 mi upstream at datum 12.55 ft higher. Oct. 1, 1941, to June 29, 1949, nonrecording gage at present site and datum.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	89	79	e80	e65	80	92	68	55	60	64	48
2	98	98	78	e160	e65	e71	88	68	54	58	61	46
3	92	91	77	e110	e66	e71	84	67	54	57	60	45
4	90	90	77	e86	e67	88	80	65	59	58	58	46
5	88	88	77	e70	e68	215	79	65	67	59	58	49
6	88	86	89	e73	e160	497	83	64	63	55	56	46
7	88	84	102	e74	e600	617	94	68	55	54	55	45
8	91	81	106	e75	227	168	82	67	52	52	55	46
9	89	82	91	e74	119	119	79	72	53	51	54	48
10	87	82	96	e74	e88	109	77	70	52	49	56	47
11	86	81	95	e75	e85	102	77	87	56	48	57	45
12	87	79	89	e78	85	96	94	91	54	48	62	45
13	88	79	83	e80	347	e83	91	79	50	47	60	46
14	88	78	e73	e62	1,190	e83	82	75	51	47	56	46
15	88	80	e72	e74	468	83	79	72	51	47	54	44
16	87	82	e71	e72	219	91	77	70	49	46	52	44
17	86	82	e70	e70	124	91	80	68	48	47	51	44
18	86	82	e68	e70	101	87	77	68	47	48	215	44
19	88	86	e64	e70	98	112	75	78	46	49	90	76
20	87	87	e64	e69	93	90	81	71	45	53	66	65
21	85	82	e63	e68	92	150	76	67	45	58	59	51
22	86	80	e63	e68	97	110	81	66	45	53	56	49
23	108	80	e62	e68	85	99	79	63	44	476	55	47
24	100	79	e61	e67	84	97	74	62	44	141	53	49
25	88	78	e60	e67	89	95	74	60	270	98	53	65
26	90	79	e61	e67	104	96	74	60	113	168	53	64
27	104	87	e62	e66	88	95	73	61	82	115	54	56
28	92	92	e64	e66	90	95	70	60	71	89	52	54
29	90	83	e67	e66	---	94	69	59	68	78	50	55
30	92	80	e70	e66	---	95	68	59	64	72	49	53
31	89	---	e78	e66	---	102	---	56	---	68	48	---
TOTAL	2,798	2,507	2,332	2,331	5,064	4,081	2,389	2,106	1,907	2,449	1,922	1,508
MEAN	90.3	83.6	75.2	75.2	181	132	79.6	67.9	63.6	79.0	62.0	50.3
MAX	108	98	106	160	1,190	617	94	91	270	476	215	76
MIN	85	78	60	62	65	71	68	56	44	46	48	44
CFSM	0.64	0.59	0.53	0.53	1.27	0.93	0.56	0.48	0.45	0.56	0.44	0.35
IN.	0.73	0.66	0.61	0.61	1.33	1.07	0.63	0.55	0.50	0.64	0.50	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2005, BY WATER YEAR (WY)

MEAN	70.6	76.9	64.2	76.0	106	172	113	108	135	107	88.9	78.4
MAX	146	372	155	315	379	483	291	328	586	660	348	202
(WY)	(1962)	(1962)	(1973)	(1946)	(1938)	(1959)	(1993)	(1960)	(1947)	(1993)	(1943)	(1942)
MIN	25.3	29.2	23.7	22.1	24.3	33.4	42.0	36.1	34.3	24.0	30.3	33.7
(WY)	(1951)	(1938)	(1959)	(1959)	(1959)	(1957)	(1990)	(1958)	(1936)	(1936)	(1937)	(1989)

05414000 PLATTE RIVER NEAR ROCKVILLE, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1935 - 2005	
ANNUAL TOTAL	50,354		31,394			
ANNUAL MEAN	138		86.0		99.5	
HIGHEST ANNUAL MEAN					234	1993
LOWEST ANNUAL MEAN					40.8	1958
HIGHEST DAILY MEAN	1,330	May 22	1,190	Feb 14	7,830	Jul 16, 1950
LOWEST DAILY MEAN	(a)46	Jan 27-31	44	(b)Jun 23, 24	7.0	Dec 22, 1939
ANNUAL SEVEN-DAY MINIMUM	(a)46	Jan 26	45	Sep 12	18	Nov 1, 1950
MAXIMUM PEAK FLOW			1,820	Feb 14	(c)43,500	Jul 16, 1950
MAXIMUM PEAK STAGE			8.63	Feb 14	17.26	Jul 16, 1950
INSTANTANEOUS LOW FLOW			(d)28	Dec 19	(d)0.00	Nov 24, 1950
ANNUAL RUNOFF (CFSM)	0.969		0.606		0.701	
ANNUAL RUNOFF (INCHES)	13.19		8.22		9.52	
10 PERCENT EXCEEDS	241		99		156	
50 PERCENT EXCEEDS	98		74		69	
90 PERCENT EXCEEDS	51		49		36	

(a) Ice affected
(b) Also occurred Sept. 15-18
(c) From rating curve extended above 7,000 ft^3/s on basis of slope-area measurement of peak flow
(d) Result of freezeup
(e) Estimated

05414850 GALENA RIVER AT U.W. PLATTEVILLE FARMS NEAR PLATTEVILLE, WI

LOCATION.--Lat 42°42'39", long 90°23'58", in NW ¼ NE ¼ NW ¼ sec.29, T.3 N., R.1 E., Lafayette County, Hydrologic Unit 07060005, on right bank 110 ft downstream from College Farm Road bridge.

DRAINAGE AREA.--2.94 mi^2.

PERIOD OF RECORD.--August 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 995 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair, except for estimated periods and May 12-Jun. 3, Jun. 10-24, and Sept. 5-19, which are poor (see Introduction). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.2	2.1	3.0	e1.5	1.5	1.6	1.4	0.78	0.95	0.78	0.78
2	2.6	2.4	2.1	6.3	e1.6	1.4	1.6	1.4	0.80	0.92	0.75	0.74
3	2.5	2.0	2.1	3.0	e1.8	1.5	1.6	1.4	0.81	0.95	0.75	0.74
4	2.4	2.4	2.1	e2.7	e2.0	8.2	1.6	1.4	0.92	0.98	0.79	0.75
5	2.3	2.0	2.1	e2.0	e2.4	22	1.5	1.4	1.0	0.93	0.80	0.70
6	2.3	1.9	2.6	e1.8	13	17	1.6	1.4	0.99	0.87	0.86	0.68
7	2.3	1.8	3.4	e1.6	25	12	1.7	1.4	0.98	0.80	0.89	0.65
8	2.6	1.7	2.6	e1.6	4.5	2.5	1.5	1.4	0.94	0.77	0.85	0.66
9	2.3	1.7	2.5	e1.8	2.0	2.1	1.5	1.5	0.89	0.75	0.83	0.66
10	2.3	1.7	2.8	e2.2	1.6	2.1	1.5	1.4	0.91	0.72	0.89	0.57
11	2.3	1.7	2.7	e2.8	1.8	2.0	1.6	1.8	1.0	0.68	0.92	0.51
12	2.3	1.7	2.6	e3.7	1.9	1.8	1.9	1.4	0.93	0.66	1.0	0.49
13	2.4	1.7	2.4	e6.0	21	1.8	1.6	1.5	0.76	0.66	0.98	0.58
14	2.4	1.6	2.4	e3.0	32	1.7	1.5	1.4	0.76	0.67	0.95	0.54
15	2.3	1.7	2.4	e2.4	13	1.8	1.5	1.3	0.75	0.71	0.88	0.51
16	2.3	1.8	2.4	e2.0	4.0	1.9	1.5	1.3	0.74	0.68	0.81	0.51
17	2.2	1.8	2.4	e1.9	2.0	1.7	1.5	1.2	0.75	0.72	0.80	0.52
18	2.2	1.9	e2.4	e1.9	1.7	2.6	1.5	1.2	0.74	0.82	2.0	0.50
19	2.4	2.2	e2.1	e1.7	1.7	1.9	1.5	1.3	0.74	0.72	1.0	8.8
20	2.3	2.1	e1.9	e1.7	1.6	2.8	1.6	1.1	0.74	0.83	0.98	0.96
21	2.2	2.0	e1.8	e1.6	1.8	1.9	1.6	1.0	0.75	0.83	0.90	0.74
22	2.3	2.0	e1.7	e1.6	1.7	1.8	1.9	1.0	0.75	0.82	0.87	0.69
23	3.7	1.9	e1.6	e1.5	1.5	1.7	1.6	0.96	0.74	4.2	0.88	0.65
24	2.3	1.9	e1.6	e1.5	1.6	1.7	1.5	0.94	0.74	0.93	0.88	0.72
25	2.1	1.9	e1.6	e1.5	3.3	1.7	1.5	0.94	1.2	1.1	0.88	5.7
26	2.2	1.9	e1.7	e1.5	2.2	1.6	1.5	0.92	1.6	2.8	0.92	1.5
27	2.3	2.4	e1.9	e1.4	2.4	1.6	1.5	0.92	0.96	1.0	0.94	0.98
28	2.1	2.2	e2.2	e1.4	2.1	1.6	1.5	0.88	1.0	0.90	0.85	0.97
29	2.3	2.1	e2.5	e1.4	---	1.6	1.5	0.83	1.0	0.84	0.87	0.92
30	2.5	2.1	2.9	e1.4	---	1.7	1.5	0.82	1.1	0.83	0.83	0.84
31	2.1	---	2.9	e1.5	---	1.7	---	0.79	---	0.82	0.84	---
TOTAL	73.4	58.4	70.5	69.4	152.7	108.9	47.0	37.60	26.77	30.86	28.17	34.56
MEAN	2.37	1.95	2.27	2.24	5.45	3.51	1.57	1.21	0.89	1.00	0.91	1.15
MAX	3.7	2.4	3.4	6.3	32	22	1.9	1.8	1.6	4.2	2.0	8.8
MIN	2.1	1.6	1.6	1.4	1.5	1.4	1.5	0.79	0.74	0.66	0.75	0.49
CFSM	0.81	0.66	0.77	0.76	1.85	1.19	0.53	0.41	0.30	0.34	0.31	0.39
IN.	0.93	0.74	0.89	0.88	1.93	1.38	0.59	0.48	0.34	0.39	0.36	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	2.12	2.07	1.83	1.68	3.07	2.46	1.68	2.67	2.77	2.28	1.83	1.82
MAX	2.66	2.66	2.27	2.24	5.45	3.51	2.04	4.96	6.17	4.04	3.17	2.46
(WY)	(2003)	(2004)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	1.32	1.59	1.42	1.29	1.29	1.32	1.44	1.21	0.89	1.00	0.91	1.15
(WY)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	1,098.4		738.26			
ANNUAL MEAN	3.00		2.02		2.16	
HIGHEST ANNUAL MEAN					2.93	2004
LOWEST ANNUAL MEAN					1.51	2003
HIGHEST DAILY MEAN	26	May 22	32	Feb 14	32	Feb 14, 2005
LOWEST DAILY MEAN	1.4	(a)Feb 5, 14-17	0.49	Sep 12	0.49	Sep 12, 2005
ANNUAL SEVEN-DAY MINIMUM	(b)1.4	Feb 12	0.52	Sep 12	0.52	Sep 12, 2005
MAXIMUM PEAK FLOW			106	Mar 5	106	Mar 5, 2005
MAXIMUM PEAK STAGE			6.00	Mar 5	(c)6.44	Jun 16, 2004
INSTANTANEOUS LOW FLOW			0.46	Sep 12	0.46	Sep 12, 2005
ANNUAL RUNOFF (CFSM)	1.02		0.688		0.733	
ANNUAL RUNOFF (INCHES)	13.90		9.34		9.96	
10 PERCENT EXCEEDS	5.2		2.6		3.3	
50 PERCENT EXCEEDS	2.3		1.6		1.6	
90 PERCENT EXCEEDS	1.5		0.75		0.92	

05414850 GALENA RIVER AT U.W. PLATTEVILLE FARMS NEAR PLATTEVILLE, WI—Continued

(a) Feb. 14-16 were ice affected
(b) Ice affected
(c) Discharge 72 ft^3/s
(e) Estimated

423912090170800 DISCOVERY FARMS WATERWAY SITE NO. 1 NEAR BELMONT, WI

LOCATION.--Lat 42°39'12", long 90°17'08", Lafayette County, Hydrologic Unit 07060005, 1000 ft east of intersection of Pleasant View Rd. and St. Peters Rd., south of St. Peters Rd. in waterway, 6.3 mi south-southeast of Belmont, WI.

DRAINAGE AREA.--16.9 acres.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 2003 to current year.

GAGE.--Water-stage recorder. Water levels are controlled by 2.5 ft H flume. Elevation of gage is 1,038 ft above NGVD of 1929, from topographic map.

REMARKS.--Records are excellent. Note that discharge is the daily sum, in cubic feet.

DAILY SUM DISCHARGE, CUBIC FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	1,431	0	0	0	0	0	0	0	0
3	0	0	0	0	0	158	0	0	0	0	0	0
4	0	0	0	0	0	4,170	0	0	0	0	0	0
5	0	0	0	0	172	6,463	0	0	0	0	0	0
6	0	0	0	0	18,220	7,496	0	0	0	0	0	0
7	0	0	0	0	10,500	1,893	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	5,297	0	0	0
12	0	0	0	5,488	0	0	0	0	0	0	0	0
13	0	0	0	5,498	18,320	0	0	0	0	0	0	0
14	0	0	0	10	11,120	0	0	0	0	0	0	0
15	0	0	0	0	2,916	0	0	0	0	0	0	0
16	0	0	0	0	0	80	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	49	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	296	0	0	0	0	0	0
21	0	0	0	0	627	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	647	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	1,037	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0	0	0	12,427	63,559	20,605	0	0	5,297	0	0	0
MEAN	0	0	0	401	2,270	665	0	0	177	0	0	0
MAX	0	0	0	5,498	18,320	7,496	0	0	5,297	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

423912090170800 DISCOVERY FARMS WATERWAY SITE NO. 1 NEAR BELMONT, WI—Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--December 2003 to current year.

INSTRUMENTATION.--Water-quality sampler since December 2003.

REMARKS.--Chemical analyses by the Water and Environmental Analysis Lab (formerly the Environmental Task Force Lab) at the University of Wisconsin-Stevens Point. Samples with start and end dates/times are flow-composite samples which represent the event-mean concentation for the specified runoff period. Samples with only start dates/times are discrete samples collected by the same automatic point sampler. Runoff perods which were not sampled have zero subsamples. The sample runoff volume is the total flow that occurs between the start and end time of each flow-composite sample. The storm runoff volume is the total flow that occurs between the time that runoff starts and ends. In most cases, the sample runoff volume is slightly less than the storm runoff volume. A storm load (in pounds) can be computed by multiplying the storm runoff volume (in cubic feet) by the constituent concentration (in mg/L) and a factor of 6.2428x10^-5.

STORM-RUNOFF AND SAMPLE SUMMARY, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Storm Beginning Date	Storm Beginning Time	Storm Ending Date	Storm Ending Time	Storm Runoff Volume, Cubic Feet	Peak Discharge (CFS)	Number of Subsamples
01-02-05	0050	01-02-05	0540	852	0.12	15
01-02-05	1204	01-02-05	1700	579	0.06	0
01-12-05	1629	01-14-05	0100	10997	0.36	21
02-05-05	2230	02-07-05	2342	28895	0.50	19
02-13-05	1010	02-14-05	0822	21246	0.56	12
02-14-05	0822	02-14-05	2330	8188	0.58	5
02-15-05	0408	02-15-05	2040	2908	0.12	6
02-21-05	1435	02-21-05	2118	627	0.05	0
02-25-05	1420	02-25-05	2032	643	0.07	2
02-27-05	1517	02-27-05	2300	1037	0.06	0
03-03-05	1808	03-03-05	2135	158	0.02	0
03-04-05	1307	03-04-05	2028	4165	0.38	5
03-05-05	1145	03-05-05	1934	6463	0.46	4
03-06-05	1040	03-06-05	2012	7496	0.48	5
03-07-05	0100	03-07-05	0446	1893	0.39	2
03-16-05	1914	03-16-05	2050	80	0.03	0
03-18-05	1531	03-18-05	1700	49	0.01	0
03-20-05	1210	03-20-05	1500	296	0.06	0
06-11-05	2022	06-11-05	2135	5297	4.75	12

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DISCRETE SAMPLES

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat flt mg/L (00515)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
FEB											
07...	0842	.18	70	.5	110	1.9	<.100	1.76	1.10	1.74	10
07...	0843	.18	50	.5	92	1.5	.300	1.86	1.10	1.83	4

423912090170800 DISCOVERY FARMS WATERWAY SITE NO. 1 NEAR BELMONT, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
COMPOSITE SAMPLES

Date	End date	Time	End time	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat flt mg/L (00515)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Sample runoff volume, cubic feet (99906)
JAN 02-02	20050102	0056	0533	50	4.0	--	4.1	.980	3.73	2.60	3.99	8	852
JAN 12-13	20050113	1645	1246	50	.5	60	1.1	.480	1.07	.600	1.15	<2	11,000
FEB 05-07	20050207	2236	2211	50	.5	120	1.8	.600	2.01	1.10	1.91	7	28,900
FEB 13-14	20050214	1019	0822	50	.5	36	1.1	.400	1.01	.600	.951	12	21,200
FEB 14-14	20050214	0823	2212	50	.5	28	1.8	.400	1.78	.600	1.82	14	8,190
FEB 15-15	20050215	0429	1956	50	.5	66	2.1	.600	2.81	1.10	2.79	16	2,910
FEB 25-25	20050225	1444	1931	50	.5	136	3.9	1.30	2.47	.900	2.57	20	643
MAR 04-04	20050304	1312	2005	50	<.5	122	3.7	1.00	2.08	.600	2.16	36	4,160
MAR 05-05	20050305	1149	1917	50	<.5	138	4.2	1.10	2.41	.700	2.47	37	6,460
MAR 06-06	20050306	1043	1949	50	<.5	140	3.8	1.20	2.11	1.20	2.32	26	7,500
MAR 07-07	20050307	0105	0437	50	<.5	138	3.5	1.30	1.77	1.90	1.91	47	1,890
JUN 11-11	20050611	1953	2131	50	.5	86	3.1	.210	1.31	1.30	1.80	309	5,300

423909090172100 DISCOVERY FARMS WATERWAY SITE NO. 2 NEAR BELMONT, WI

LOCATION.--Lat 42°39'09", long 90°17'21", Lafayette County, Hydrologic Unit 07060005, 400 ft south of intersection of Pleasant View Rd. and St. Peters Rd., east of Pleasant View Rd. in waterway, 6.4 mi south-southeast of Belmont, WI.

DRAINAGE AREA.--17.2 acres.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 2003 to current year.

GAGE.--Water-stage recorder. Water levels are controlled by 2.5 ft H flume. Elevation of gage is 1,028 ft above NGVD of 1929, from topographic map.

REMARKS.--Records are excellent. Note that discharge is the daily sum, in cubic feet.

DAILY SUM DISCHARGE, CUBIC FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	10	0	0	0	0	0	0	0	0
2	0	0	0	3,734	0	0	0	0	0	0	0	0
3	0	0	0	0	0	862	0	0	0	0	0	0
4	0	0	0	0	0	9,559	0	0	0	0	0	0
5	0	0	0	0	2,254	11,210	0	0	0	0	0	0
6	0	0	0	0	39,380	6,091	0	0	0	0	0	0
7	0	0	0	0	21,150	244	0	0	0	0	0	0
8	0	0	0	0	1,162	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	27	0	0	0
12	0	0	0	13,460	0	0	0	0	0	0	0	0
13	0	0	0	12,540	34,260	96	0	0	0	0	0	0
14	0	0	0	92	23,070	0	0	0	0	0	0	0
15	0	0	0	0	9,955	546	0	0	0	0	0	0
16	0	0	0	0	985	865	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	1,169	0	0	0	0	0	0
19	0	0	0	0	0	765	0	0	0	0	0	0
20	0	0	0	0	0	792	0	0	0	0	0	0
21	0	0	0	0	2,230	0	0	0	0	0	0	0
22	0	0	0	0	32	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	1,375	0	0	0	0	0	0	0
25	0	0	0	0	4,336	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	3,522	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0	0	0	29,836	143,711	32,199	0	0	27	0	0	0
MEAN	0	0	0	962	5,133	1,039	0	0	0	0	0	0
MAX	0	0	0	13,460	39,380	11,210	0	0	27	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

423909090172100 DISCOVERY FARMS WATERWAY SITE NO. 2 NEAR BELMONT, WI—Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--December 2003 to current year.

INSTRUMENTATION.--Water-quality sampler since December 2003.

REMARKS.--Chemical analyses by the Water and Environmental Analysis Lab (formerly the Environmental Task Force Lab) at the University of Wisconsin-Stevens Point. Samples with start and end dates/times are flow-composite samples which represent the event-mean concentation for the specified runoff period. Samples with only start dates/times are discrete samples collected by the same automatic point sampler. Runoff perods which were not sampled have zero subsamples. The sample runoff volume is the total flow that occurs between the start and end time of each flow-composite sample. The storm runoff volume is the total flow that occurs between the time that runoff starts and ends. In most cases, the sample runoff volume is slightly less than the storm runoff volume. A storm load (in pounds) can be computed by multiplying the storm runoff volume (in cubic feet) by the constituent concentration (in mg/L) and a factor of 6.2428x10^-5.

STORM-RUNOFF AND SAMPLE SUMMARY, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Storm Beginning Date	Storm Beginning Time	Storm Ending Date	Storm Ending Time	Storm Runoff Volume, Cubic Feet	Peak Discharge (CFS)	Number of Subsamples
01-01-05	2335	01-02-05	2218	3741	0.14	24
01-12-05	1420	01-13-05	1114	19552	0.73	22
01-13-05	1114	01-14-05	0230	6540	0.27	1
02-05-05	1500	02-08-05	1453	63947	0.96	32
02-13-05	0829	02-14-05	0834	40519	1.06	15
02-14-05	0834	02-15-05	0239	17209	1.23	7
02-15-05	0239	02-16-05	0435	9808	0.26	6
02-16-05	1330	02-16-05	2141	734	0.06	0
02-21-05	1200	02-22-05	0206	2262	0.12	0
02-24-05	1400	02-24-05	2313	1375	0.08	5
02-25-05	1200	02-25-05	2347	4336	0.28	3
02-27-05	1400	02-28-05	0020	3523	0.16	0
03-03-05	1400	03-03-05	2106	862	0.07	0
03-04-05	1040	03-05-05	0900	10268	0.67	5
03-05-05	0900	03-06-05	0916	10897	0.62	6
03-06-05	0916	03-06-05	1740	5690	0.54	3
03-07-05	0203	03-07-05	0400	244	0.09	0
03-13-05	1525	03-13-05	1832	96	0.01	0
03-15-05	1320	03-15-05	2151	546	0.04	0
03-16-05	0800	03-16-05	2144	865	0.06	0
03-18-05	1210	03-19-05	0040	1172	0.08	4
03-19-05	0824	03-20-05	0214	781	0.03	0
03-20-05	0920	03-20-05	1620	773	0.06	0
06-11-05	2043	06-11-05	2059	27	0.06	3

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DISCRETE SAMPLES

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat flt mg/L (00515)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
JAN											
12...	1722	.67	70	.5	52	1.2	.610	.89	.700	.912	2
12...	1723	.67	50	.5	40	1.3	.620	.91	.700	.960	6
13...	0853	.10	50	.5	58	1.2	.490	1.51	.500	1.59	4

423909090172100 DISCOVERY FARMS WATERWAY SITE NO. 2 NEAR BELMONT, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
COMPOSITE SAMPLES

Date	End date	Time	End time	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat flt mg/L (00515)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Sample runoff volume, cubic feet (99906)
JAN 01-02	20050102	2355	1100	50	6.0	26	4.2	.910	4.61	2.40	4.83	28	3,740
JAN 12-13	20050113	1421	1114	50	.5	26	1.1	.450	1.10	.700	1.12	3	19,600
FEB 05-09	20050209	1512	0032	50	.5	94	1.7	.600	2.02	1.20	1.96	12	63,900
FEB 13-14	20050214	0857	0834	50	.5	16	1.3	.600	1.16	.700	1.17	22	40,500
FEB 14-15	20050215	0835	0239	50	.5	64	2.0	.600	1.75	.700	1.91	24	17,200
FEB 15-16	20050216	0240	0337	50	.5	66	2.4	.800	2.81	1.20	2.75	4	9,810
FEB 24-25	20050225	1404	0059	50	.5	143	3.7	1.40	2.62	1.70	2.64	13	1,380
FEB 25-26	20050226	1229	0239	50	.5	132	3.6	1.20	2.47	1.20	2.54	23	4,340
MAR 04-05	20050305	1056	0900	50	<.5	144	2.7	1.00	2.05	.700	2.16	47	10,300
MAR 05-06	20050306	0900	0916	50	<.5	146	3.6	1.40	2.37	.800	2.44	36	10,900
MAR 06-06	20050306	0916	1709	50	<.5	140	3.6	1.40	2.03	.900	2.20	30	5,690
MAR 18-18	20050318	1234	2203	50	1.0	130	5.3	2.30	1.85	2.10	2.02	18	1,170
JUN 11-11	20050611	2037	2057	50	0.5	76	3.59	.05	1.18	.7	2.07	345	27

423846090171600 DISCOVERY FARMS WATERWAY SITE NO. 3 NEAR BELMONT, WI

LOCATION.--Lat 42°38'46", long 90°17'16", Lafayette County, Hydrologic Unit 07060005, 2600 ft south of intersection of Pleasant View Rd. and St. Peters Rd., 400 ft east of Pleasant View Rd. in waterway, 6.8 mi south-southeast of Belmont, WI.

DRAINAGE AREA.--39.5 acres.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 2003 to current year.

GAGE.--Water-stage recorder. Water levels are controlled by 2.5 ft H flume. Elevation of gage is 1,018 ft above NGVD of 1929, from topographic map.

REMARKS.--Records are excellent. Note that discharge is the daily sum, in cubic feet.

DAILY SUM DISCHARGE, CUBIC FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	215	0	0	0	0	0	0	0	0
2	0	0	0	5,038	0	0	0	0	0	0	0	0
3	0	0	0	22	3,860	2,694	0	0	0	0	0	0
4	0	0	0	0	8,654	6,578	0	0	0	0	0	0
5	0	0	0	0	18,000	6,011	0	0	0	0	0	0
6	0	0	0	0	78,010	871	0	0	0	0	0	0
7	0	0	0	0	31,820	0	0	0	0	0	0	0
8	0	0	0	0	557	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	107	0	0	0
12	0	0	0	18,740	5,592	0	0	0	0	0	0	0
13	0	0	0	26,250	68,700	0	0	0	0	0	0	0
14	0	0	0	294	43,520	0	0	0	0	0	0	0
15	0	0	0	0	14,510	0	0	0	0	0	0	0
16	0	0	0	0	1,412	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	885	0	0	0	0	0	0	104
20	0	0	0	0	17	0	0	0	0	0	0	0
21	0	0	0	0	6,888	0	0	0	0	0	0	0
22	0	0	0	0	2,058	0	0	0	0	0	0	0
23	0	0	0	0	934	0	0	0	0	0	0	0
24	0	0	0	0	4,040	0	0	0	0	0	0	0
25	0	0	0	0	6,501	0	0	0	0	0	0	0
26	0	0	0	0	811	0	0	0	0	0	0	0
27	0	0	0	0	3,705	0	0	0	0	0	0	0
28	0	0	0	0	1,242	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0	0	0	50,559	301,716	16,154	0	0	107	0	0	104
MEAN	0	0	0	1,631	10,780	521	0	0	4	0	0	3
MAX	0	0	0	26,250	78,010	6,578	0	0	107	0	0	104
MIN	0	0	0	0	0	0	0	0	0	0	0	0

423846090171600 DISCOVERY FARMS WATERWAY SITE NO. 3 NEAR BELMONT, WI—Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--December 2003 to current year.

INSTRUMENTATION.--Water-quality sampler since December 2003.

REMARKS.--Chemical analyses by the Water and Environmental Analysis Lab (formerly the Environmental Task Force Lab) at the University of Wisconsin-Stevens Point. Samples with start and end dates/times are flow-composite samples which represent the event-mean concentation for the specified runoff period. Samples with only start dates/times are discrete samples collected by the same automatic point sampler. Runoff perods which were not sampled have zero subsamples. The sample runoff volume is the total flow that occurs between the start and end time of each flow-composite sample. The storm runoff volume is the total flow that occurs between the time that runoff starts and ends. In most cases, the sample runoff volume is slightly less than the storm runoff volume. A storm load (in pounds) can be computed by multiplying the storm runoff volume (in cubic feet) by the constituent concentration (in mg/L) and a factor of 6.2428x10^-5.

STORM-RUNOFF AND SAMPLE SUMMARY, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Storm Beginning Date	Storm Beginning Time	Storm Ending Date	Storm Ending Time	Storm Runoff Volume, Cubic Feet	Peak Discharge (CFS)	Number of Subsamples
01-01-05	2200	01-02-05	0408	974	0.10	5
01-02-05	0408	01-02-05	1054	1005	0.10	6
01-02-05	1054	01-03-05	0147	3290	0.16	0
01-12-05	1534	01-13-05	0938	30385	1.18	21
01-13-05	0938	01-14-05	0500	14905	0.49	1
02-03-05	1100	02-08-05	0848	140893	1.99	46
02-12-05	1445	02-14-05	0814	83835	2.28	15
02-14-05	0814	02-15-05	0430	34769	2.90	8
02-15-05	0430	02-16-05	0719	14234	0.46	10
02-16-05	1330	02-17-05	0019	889	0.05	0
02-19-05	1515	02-20-05	0100	901	0.07	0
02-21-05	1200	02-22-05	1303	7860	0.42	0
02-22-05	1303	02-22-05	2357	1085	0.07	7
02-23-05	1500	02-24-05	0044	939	0.06	0
02-24-05	1330	02-25-05	0245	4149	0.24	9
02-25-05	1200	02-26-05	0700	6632	0.46	5
02-26-05	1400	02-27-05	0125	600	0.03	0
02-27-05	1400	02-28-05	0450	4575	0.14	0
02-28-05	1700	03-01-05	0011	339	0.02	0
03-03-05	1305	03-04-05	0040	2690	0.17	0
03-04-05	1200	03-05-05	0442	6777	0.39	5
03-05-05	1008	03-05-05	2300	5809	0.38	5
03-06-05	1018	03-06-05	1400	871	0.13	0
06-11-05	2029	06-11-05	2049	107	0.18	4
09-19-05	0602	09-19-05	0622	104	0.17	4

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DISCRETE SAMPLES

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat flt mg/L (00515)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
JAN											
13...	0928	.22	50	3.0	112	4.2	1.80	3.46	.500	3.68	7
FEB											
07...	0819	.48	70	1.5	272	3.5	1.40	4.86	1.20	4.69	6
07...	0820	.48	50	1.5	178	3.2	1.10	4.27	1.50	4.19	16

423846090171600 DISCOVERY FARMS WATERWAY SITE NO. 3 NEAR BELMONT, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
COMPOSITE SAMPLES

Date	End date	Time	End time	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat flt mg/L (00515)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Sample runoff volume, cubic feet (99906)
JAN 02-02	20050102	0011	0023	50	13.0	--	7.8	2.52	4.02	3.70	4.36	14	974
JAN 02-02	20050102	0707	0722	50	7.0	--	6.0	2.15	5.09	3.30	5.06	12	1,010
JAN 12-13	20050113	1544	0938	50	1.5	96	2.9	1.26	2.17	.400	2.29	8	30,400
FEB 03-08	20050208	1200	0840	50	4.0	318	4.9	1.70	4.66	.900	4.63	4	141,000
FEB 13-14	20050214	0724	0814	50	19.0	250	24	.800	5.55	<.100	7.52	171	83,800
FEB 14-15	20050215	0815	0430	50	5.5	174	11	.400	6.77	.800	7.14	11	34,800
FEB 15-16	20050216	0431	0632	50	4.0	220	9.7	.400	7.87	1.00	7.86	13	14,200
FEB 22-23	20050223	1303	0015	50	29.0	522	21	9.50	7.44	.200	8.45	7	1,090
FEB 24-25	20050225	1357	0357	50	24.0	578	23	9.20	10.2	<.100	11.2	24	4,150
FEB 25-26	20050226	1201	0539	50	12.0	384	16	6.50	8.32	.200	9.00	25	6,630
MAR 04-05	20050305	1205	0355	50	1.5	176	6.5	3.50	4.70	.200	4.67	24	6,780
MAR 05-05	20050305	1041	2221	50	1.0	132	6.4	3.20	3.12	<.100	3.38	21	5,810
JUN 11-11	20050611	2030	2048	50	.5	90	8.8	.430	1.43	3.90	3.44	1,340	107
SEP 19-19	20050919	0603	0622	50	5.5	168	15	.300	1.83	4.90	5.64	2,300	104

423900090172100 DISCOVERY FARMS WEATHER STATION NEAR BELMONT, WI

LOCATION.--Lat 42°39'00", long 90°17'21", Lafayette County, Hydrologic Unit 07060005, 1,270 ft south of intersection of Pleasant View Rd. and St. Peters Rd., 30 ft east of Pleasant View Rd., 6.5 mi south-southeast of Belmont, WI.

PERIOD OF RECORD.--November 2003 to current year.

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Rainfall estimated to be 0.00 for Jan. 24, Feb. 11, and Mar. 19-20 because recorded precipitation was interpreted as collector snowmelt.

EXTREMES FOR CURRENT PERIOD.--Maximum daily rainfall, 1.91 in., May 23, 2004.

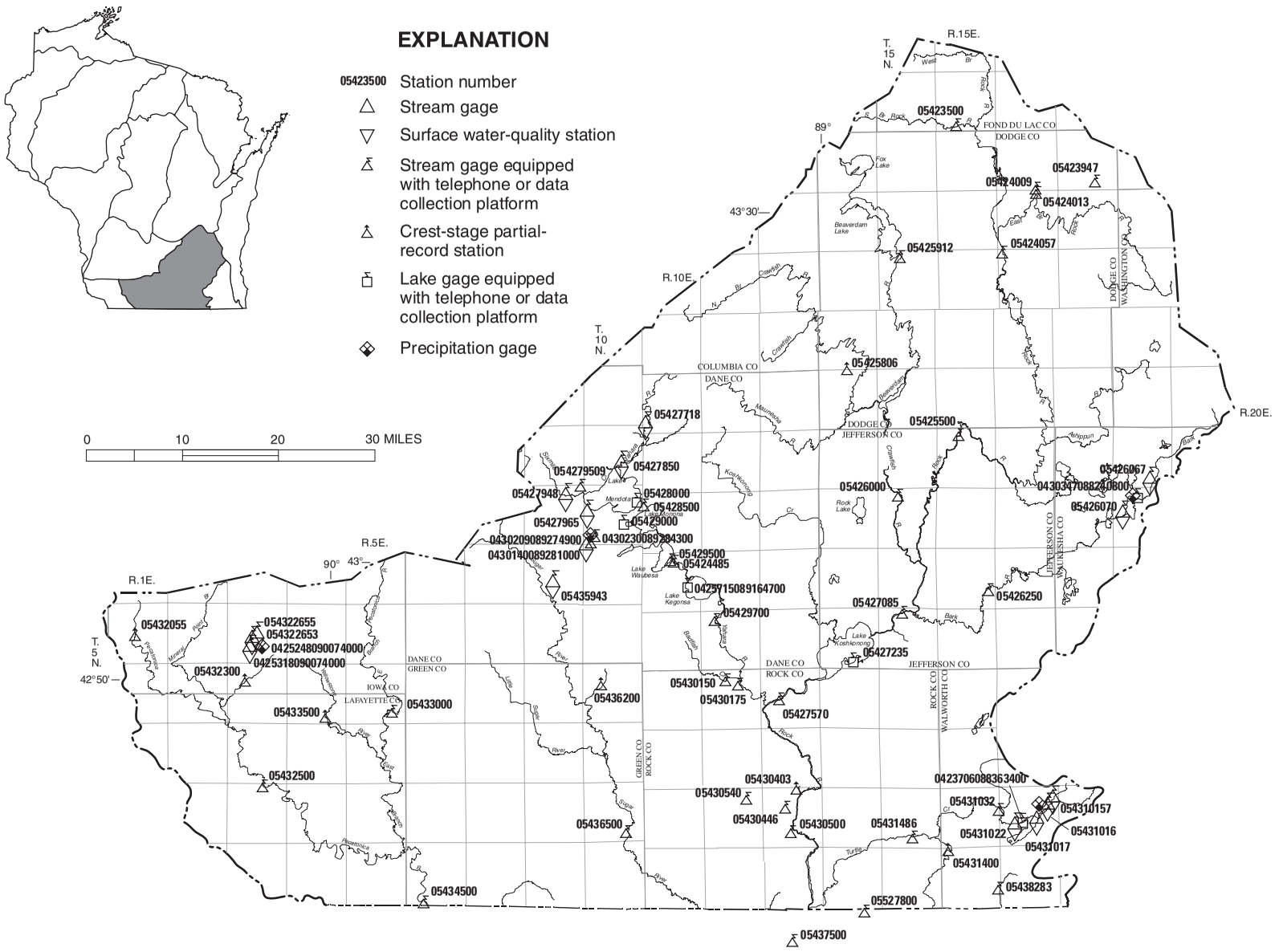
EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 1.75 in., Sept. 19.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.38	0.41	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.03	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
4	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.18	0.00	0.04
5	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.65	0.01	0.00	0.00
6	0.00	0.00	0.14	0.00	0.14	0.00	0.74	0.04	0.00	0.00	0.00	0.00
7	0.06	0.00	0.42	0.00	0.10	0.18	0.00	0.06	0.00	0.00	0.00	0.00
8	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.02	0.00	0.00	0.02
9	0.00	0.00	0.12	e0.00	0.00	0.00	0.00	0.37	0.05	0.00	0.27	0.00
10	0.00	0.07	0.06	0.00	0.00	0.01	0.00	0.00	0.15	0.00	0.03	0.00
11	0.00	0.00	0.00	0.00	e0.00	0.00	0.55	0.57	1.36	0.00	0.78	0.00
12	0.00	0.00	0.00	0.74	0.00	0.00	0.32	0.10	0.00	0.00	0.00	0.00
13	0.17	0.00	0.00	0.00	0.26	0.00	0.00	0.30	0.00	0.01	0.02	0.00
14	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.03	0.00	0.00	0.00
15	0.01	0.12	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.01	0.07	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.04	0.00	0.00
18	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.95	0.00
19	0.14	0.19	0.00	0.00	0.00	e0.00	0.00	0.10	0.00	0.00	0.04	1.75
20	0.00	0.00	0.00	0.00	0.07	e0.00	0.00	0.00	0.00	0.17	0.06	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
22	0.37	0.00	0.00	0.00	0.00	0.00	0.41	0.01	0.00	0.00	0.00	0.00
23	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	0.00	0.00
24	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
25	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	1.08	0.25	0.00	0.67
26	0.26	0.03	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.19	0.02	0.00
27	0.00	0.33	0.00	0.00	0.04	0.00	0.00	0.06	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
29	0.37	0.00	0.00	0.00	---	0.00	0.00	0.07	0.00	0.00	0.00	0.00
30	0.00	0.00	0.01	0.00	---	0.34	0.00	0.00	0.02	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.02	---	0.00	---	0.00	0.00	---
TOTAL	2.84	1.69	0.98	1.23	0.78	0.55	2.24	2.27	3.77	2.39	2.19	3.59

CAL YR 2004 TOTAL 31.67
WTR YR 2005 TOTAL 24.52

(e) Estimated



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

ROCK RIVER BASIN

05423500 SOUTH BRANCH ROCK RIVER AT WAUPUN, WI

LOCATION.--Lat 43°38'30", long 88°43'14", in SW ¼ NW ¼ sec.33, T.14 N., R.15 E., Fond du Lac County, Hydrologic Unit 07090001, on left bank 260 ft upstream from U.S. Business Route 151 at Waupun, and 2.8 mi upstream from mouth.

DRAINAGE AREA.--63.6 mi^2.

PERIOD OF RECORD.--October 1948 to September 1969. March 1987 to current year. Monthly discharge for October and November 1948 published in WSP 1308, but unpublished daily discharges available for October to November 1948.

REVISED RECORDS.--WDR WI-88-1: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 863.46 ft above NGVD of 1929. October 1948 to September 1969, recording gage at site 150 ft downstream at same datum.

REMARKS.--Records good. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	16	17	11	7.8	13	324	22	11	3.3	3.8	1.8
2	6.4	17	16	26	7.8	12	238	22	10	3.3	3.6	1.5
3	5.9	17	14	17	7.7	12	177	21	9.4	3.0	3.8	1.8
4	5.2	17	14	16	8.3	12	134	20	13	4.7	3.7	1.6
5	5.7	18	13	14	11	13	107	19	15	3.5	3.3	1.7
6	5.5	15	15	13	54	77	87	20	11	3.8	3.3	1.6
7	5.2	13	28	13	234	322	77	19	10	3.9	3.0	2.6
8	17	12	31	12	142	106	69	18	9.5	3.8	3.0	1.9
9	8.5	12	30	11	74	86	62	22	10	3.6	2.4	1.9
10	8.1	12	47	11	66	65	56	21	9.1	3.4	1.5	1.5
11	8.0	11	49	11	56	42	51	34	8.0	3.4	4.5	1.4
12	7.9	11	45	21	39	27	47	31	7.7	2.4	11	1.4
13	7.6	10	40	25	34	23	43	47	7.2	2.6	2.9	3.2
14	7.6	9.7	41	23	131	21	39	47	8.5	2.3	2.4	1.8
15	7.1	10	26	13	156	19	35	43	7.4	1.9	2.1	0.89
16	8.0	10	22	12	95	21	32	37	6.9	1.7	2.1	1.0
17	6.9	10	19	9.1	85	24	32	34	6.2	3.4	2.1	1.1
18	7.2	11	17	7.9	64	24	34	31	6.0	2.3	3.2	1.3
19	7.3	14	13	7.6	33	20	31	41	5.9	0.87	2.2	7.3
20	7.7	17	12	7.7	26	19	39	35	5.8	2.2	3.7	2.0
21	7.8	16	12	7.6	22	22	37	30	6.5	5.2	1.6	1.6
22	7.7	16	12	8.1	20	40	36	26	5.1	2.8	1.6	18
23	21	15	13	9.1	17	88	31	22	4.2	11	2.1	3.0
24	14	14	13	9.4	16	102	29	20	3.9	4.5	2.2	2.3
25	12	13	11	9.3	16	97	29	17	3.3	4.9	1.8	12
26	12	12	9.6	8.8	14	90	29	15	5.7	22	8.4	4.8
27	13	19	9.2	8.8	14	98	29	13	4.1	7.6	14	2.8
28	14	21	9.4	8.7	14	106	27	13	3.7	6.0	2.7	5.0
29	15	20	9.3	8.5	---	130	26	15	4.1	4.7	2.4	3.0
30	18	19	10	8.0	---	185	23	15	8.5	4.2	2.6	2.3
31	16	---	13	7.6	---	389	---	14	---	4.3	2.1	---
TOTAL	299.8	427.7	630.5	375.2	1,464.6	2,305	2,010	784	226.7	136.57	109.1	94.09
MEAN	9.67	14.3	20.3	12.1	52.3	74.4	67.0	25.3	7.56	4.41	3.52	3.14
MAX	21	21	49	26	234	389	324	47	15	22	14	18
MIN	5.2	9.7	9.2	7.6	7.7	12	23	13	3.3	0.87	1.5	0.89
CFSM	0.15	0.22	0.32	0.19	0.82	1.17	1.05	0.40	0.12	0.07	0.06	0.05
IN.	0.18	0.25	0.37	0.22	0.86	1.35	1.18	0.46	0.13	0.08	0.06	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2005, BY WATER YEAR (WY)

MEAN	16.8	20.6	16.3	11.6	18.7	66.9	71.5	40.1	39.2	28.5	16.3	14.1
MAX	90.9	106	80.0	64.6	105	176	266	226	390	246	115	76.2
(WY)	(1996)	(1962)	(1966)	(1996)	(1966)	(1952)	(1993)	(2004)	(2004)	(1993)	(1960)	(1960)
MIN	0.63	0.53	0.16	0.09	0.08	5.40	7.80	3.54	1.36	0.95	0.56	0.55
(WY)	(1965)	(1965)	(1959)	(1959)	(1959)	(1964)	(1964)	(1958)	(1964)	(1964)	(1964)	(1963)

05423500 SOUTH BRANCH ROCK RIVER AT WAUPUN, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1949 - 2005	
ANNUAL TOTAL	30,099.4		8,863.26			
ANNUAL MEAN	82.2		24.3		30.2	
HIGHEST ANNUAL MEAN					94.1	1993
LOWEST ANNUAL MEAN					2.47	1964
HIGHEST DAILY MEAN	1,080	Jun 11	389	Mar 31	1,280	Apr 4, 1959
LOWEST DAILY MEAN	5.2	Oct 4	0.87	Jul 19	0.00	(a)
ANNUAL SEVEN-DAY MINIMUM	5.5	Sep 24	1.5	Sep 12	0.00	(b)Sep 7, 1958
MAXIMUM PEAK FLOW			410	Mar 31	(c)1,500	Apr 3, 1959
MAXIMUM PEAK STAGE			5.16	Mar 31	8.20	Jun 11, 2004
INSTANTANEOUS LOW FLOW			0.69	(d)Jul 19	0.00	(f)
ANNUAL RUNOFF (CFSM)	1.29		0.382		0.476	
ANNUAL RUNOFF (INCHES)	17.61		5.18		6.46	
10 PERCENT EXCEEDS	266		50		71	
50 PERCENT EXCEEDS	24		12		11	
90 PERCENT EXCEEDS	9.1		2.3		1.1	

(a) Many days in 1958-59, 1963-64
(b) Also occurred in 1959
(c) From rating curve extended above 650 ft^3/s; gage height, 7.97 ft
(d) Also occurred additional days
(e) Estimated
(f) No flow at times in 1949, 1953-54, 1958-59, 1963-64

05423947 KUMMEL CREEK NEAR THERESA, WI

LOCATION.--Lat 43°32'32", long 88°26'33", in NE $^1/_4$ NE $^1/_4$ sec.3, T.12 N., R.17 E., Dodge County, Hydrologic Unit 07090001, at downstream side of Highways 67 and 175.

DRAINAGE AREA.--28.7 mi^2.

PERIOD OF RECORD.--July 2004 to September 2005.

REVISED RECORDS.--WSP 1438: 1933,1935(M), 1937(M), 1938-39, 1945(M); WDR WI-79-1: Drainage area.

GAGE.--Water-stage recorder, Sontek shallow water velocity meter, and crest-stage gage. Elevation of gage is 880 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair (see Introduction).

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	---	---	---	---	---	---	---	---	---	e56	25	16
2	---	---	---	---	---	---	---	---	---	e54	27	16
3	---	---	---	---	---	---	---	---	---	e51	27	15
4	---	---	---	---	---	---	---	---	---	e50	28	14
5	---	---	---	---	---	---	---	---	---	e49	26	14
6	---	---	---	---	---	---	---	---	---	e48	25	14
7	---	---	---	---	---	---	---	---	---	e49	23	15
8	---	---	---	---	---	---	---	---	---	e47	21	14
9	---	---	---	---	---	---	---	---	---	e43	e21	13
10	---	---	---	---	---	---	---	---	---	e40	21	13
11	---	---	---	---	---	---	---	---	---	e37	21	13
12	---	---	---	---	---	---	---	---	---	e35	20	12
13	---	---	---	---	---	---	---	---	---	e34	19	12
14	---	---	---	---	---	---	---	---	---	33	18	12
15	---	---	---	---	---	---	---	---	---	31	18	12
16	---	---	---	---	---	---	---	---	---	29	17	12
17	---	---	---	---	---	---	---	---	---	27	20	12
18	---	---	---	---	---	---	---	---	---	26	23	11
19	---	---	---	---	---	---	---	---	---	25	25	11
20	---	---	---	---	---	---	---	---	---	24	26	11
21	---	---	---	---	---	---	---	---	---	23	22	11
22	---	---	---	---	---	---	---	---	---	23	19	10
23	---	---	---	---	---	---	---	---	---	22	18	10
24	---	---	---	---	---	---	---	---	---	21	17	9.9
25	---	---	---	---	---	---	---	---	---	20	17	9.6
26	---	---	---	---	---	---	---	---	---	20	17	9.4
27	---	---	---	---	---	---	---	---	---	20	18	9.2
28	---	---	---	---	---	---	---	---	---	20	20	9.1
29	---	---	---	---	---	---	---	---	---	20	18	8.8
30	---	---	---	---	---	---	---	---	---	22	17	8.6
31	---	---	---	---	---	---	---	---	---	23	16	---
TOTAL	---	---	---	---	---	---	---	---	---	1,022	650	357.6
MEAN	---	---	---	---	---	---	---	---	---	33.0	21.0	11.9
MAX	---	---	---	---	---	---	---	---	---	56	28	16
MIN	---	---	---	---	---	---	---	---	---	20	16	8.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	---	33.0	21.0	11.9
MAX	---	---	---	---	---	---	---	---	---	33.0	21.0	11.9
(WY)	---	---	---	---	---	---	---	---	---	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	---	---	---	---	33.0	21.0	11.9
(WY)	---	---	---	---	---	---	---	---	---	(2004)	(2004)	(2004)

SUMMARY STATISTICS	FOR 2004 WATER YEAR (July - September)		WATER YEARS 2003 - 2004	
ANNUAL TOTAL	2029.6			
ANNUAL MEAN	22.1		22.1	
HIGHEST ANNUAL MEAN			22.1	2004
LOWEST ANNUAL MEAN			22.1	2004
HIGHEST DAILY MEAN	(e)56	Jul 1	(e)56	Jul 1, 2004
LOWEST DAILY MEAN	8.6	Sep 30	8.6	Sep 30, 2004
ANNUAL SEVEN-DAY MINIMUM	9.2	Sep 24	9.2	Sep 24, 2004
10 PERCENT EXCEEDS	42		42	
50 PERCENT EXCEEDS	20		20	
90 PERCENT EXCEEDS	10		10	

(e) Estimated

05423947 KUMMEL CREEK NEAR THERESA, WI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	8.7	8.2	e7.5	e2.3	12	24	8.9	6.1	6.0	4.4	2.4
2	8.8	10	7.6	e13	e3.7	14	21	8.6	6.1	5.8	4.3	2.3
3	8.5	10	7.8	e10	e4.0	12	20	8.1	6.4	5.8	4.1	2.3
4	8.4	10	7.9	e8.5	e10	11	19	7.9	6.5	6.1	3.9	2.3
5	7.9	9.8	7.6	e8.1	e17	11	19	7.7	8.3	6.3	3.7	2.3
6	7.8	9.1	7.9	e8.6	e166	48	19	7.6	7.9	6.1	3.5	2.3
7	7.7	8.8	12	e9.0	e186	199	19	7.7	7.9	5.7	3.4	2.2
8	9.4	8.1	15	e8.1	e201	157	17	7.4	8.0	5.7	3.2	2.2
9	10	7.6	11	e7.9	e122	45	16	7.2	8.3	5.6	3.0	2.3
10	8.6	7.8	14	e7.6	65	16	15	7.2	8.3	5.3	2.9	2.3
11	8.4	7.8	15	e7.7	45	13	15	9.0	8.7	5.0	3.0	2.3
12	8.2	7.4	12	e9.4	42	13	14	8.9	8.7	4.9	3.7	2.2
13	8.1	7.3	e12	e92	41	14	14	9.4	8.1	5.1	3.3	2.2
14	8.3	7.1	e11	e108	125	11	13	9.3	8.1	4.9	3.0	2.2
15	8.1	7.1	e11	e27	171	11	13	8.5	8.0	4.6	2.9	2.2
16	8.2	7.2	e11	e6.1	104	12	12	7.3	8.0	4.6	2.8	2.2
17	7.9	7.2	e9.5	e0.00	37	13	12	7.2	7.5	4.3	2.7	2.2
18	8.0	7.1	e9.6	e0.00	25	11	12	7.1	7.2	4.3	2.7	2.2
19	7.8	7.3	e9.6	e0.00	22	11	12	12	7.3	4.1	2.9	2.3
20	7.9	9.9	e9.1	e0.00	20	11	13	9.8	7.0	4.2	2.7	2.4
21	7.6	9.0	e8.5	e0.00	18	17	12	7.6	6.8	4.4	2.6	2.2
22	7.9	8.2	e7.8	e0.00	14	33	12	7.0	6.4	4.6	2.5	2.8
23	10	7.9	e7.1	e0.00	13	35	11	6.6	6.1	4.8	2.6	2.8
24	13	7.7	e7.1	e0.00	13	23	10	6.4	5.7	5.7	2.5	2.4
25	9.6	7.4	e7.5	e0.00	12	20	10	6.3	5.5	4.8	2.4	3.6
26	9.2	7.3	e7.8	e0.00	12	19	11	6.2	5.5	9.0	2.4	4.3
27	8.9	8.6	e7.8	e0.00	11	20	11	6.3	5.7	6.2	2.9	2.8
28	8.8	13	e8.6	e0.00	12	21	10	6.4	5.6	5.1	2.6	2.8
29	9.1	9.9	e8.6	e0.00	---	23	9.7	6.3	5.7	4.9	2.5	3.0
30	9.2	8.8	e8.6	e1.1	---	26	9.4	6.4	5.9	4.7	2.4	2.7
31	8.9	---	e8.9	e2.0	---	35	---	6.3	---	4.5	2.4	---
TOTAL	268.6	253.1	297.1	341.60	1,514.0	917	425.1	238.6	211.3	163.1	93.9	74.7
MEAN	8.66	8.44	9.58	11.0	54.1	29.6	14.2	7.70	7.04	5.26	3.03	2.49
MAX	13	13	15	108	201	199	24	12	8.7	9.0	4.4	4.3
MIN	7.6	7.1	7.1	0.00	2.3	11	9.4	6.2	5.5	4.1	2.4	2.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)

MEAN	8.66	8.44	9.58	11.0	54.1	29.6	14.2	7.70	7.04	19.1	12.0	7.21
MAX	8.66	8.44	9.58	11.0	54.1	29.6	14.2	7.70	7.04	33.0	21.0	11.9
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)
MIN	8.66	8.44	9.58	11.0	54.1	29.6	14.2	7.70	7.04	5.26	3.03	2.49
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2003 - 2005	
ANNUAL TOTAL	4,798.10			
ANNUAL MEAN	13.1		14.9	
HIGHEST ANNUAL MEAN			22.1	2004
LOWEST ANNUAL MEAN			13.1	2005
HIGHEST DAILY MEAN	(a)201	Feb 8	(a)201	Feb 8, 2005
LOWEST DAILY MEAN	(a)0.00	Jan 17-29	(a)0.00	Jan 17, 2005
ANNUAL SEVEN-DAY MINIMUM	(a)0.00	Jan 17	(a)0.00	Jan 17, 2005
MAXIMUM PEAK FLOW	(b)	Feb 7	(b)	Feb 7, 2005
MAXIMUM PEAK STAGE	(a)8.28	Feb 7	(a)8.28	Feb 7, 2005
10 PERCENT EXCEEDS	19		26	
50 PERCENT EXCEEDS	7.9		8.8	
90 PERCENT EXCEEDS	2.4		2.6	

(a) Ice affected
(b) Unknown
(e) Estimated

05424009 GILL CREEK AT COUNTY TRUNK HIGHWAY Y NEAR KEKOSKEE, WI

LOCATION.--Lat 43°32'09", long 88°33'40", in NW ¼ NW ¼ SW ¼ sec.2, T.12 N., R.16 E., Dodge County, Hydrologic Unit 07090001, at upstream side of County Y.

DRAINAGE AREA.--12.2 mi^2.

PERIOD OF RECORD.--July 2004 to September 2005.

REVISED RECORDS.--WSP 1438: 1933,1935(M), 1937(M), 1938-39, 1945(M); WDR WI-79-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 860 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see Introduction).

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	---	---	---	---	---	---	---	---	---	e30	11	4.1
2	---	---	---	---	---	---	---	---	---	27	9.6	4.0
3	---	---	---	---	---	---	---	---	---	27	8.8	3.8
4	---	---	---	---	---	---	---	---	---	30	10	3.7
5	---	---	---	---	---	---	---	---	---	26	7.7	3.7
6	---	---	---	---	---	---	---	---	---	26	6.9	4.3
7	---	---	---	---	---	---	---	---	---	26	6.5	4.1
8	---	---	---	---	---	---	---	---	---	23	6.3	3.9
9	---	---	---	---	---	---	---	---	---	21	6.1	3.8
10	---	---	---	---	---	---	---	---	---	20	5.8	3.7
11	---	---	---	---	---	---	---	---	---	18	5.5	3.5
12	---	---	---	---	---	---	---	---	---	25	5.1	3.5
13	---	---	---	---	---	---	---	---	---	20	4.9	3.4
14	---	---	---	---	---	---	---	---	---	17	4.8	3.4
15	---	---	---	---	---	---	---	---	---	16	4.6	3.5
16	---	---	---	---	---	---	---	---	---	16	4.5	3.6
17	---	---	---	---	---	---	---	---	---	15	6.9	3.5
18	---	---	---	---	---	---	---	---	---	14	5.4	3.3
19	---	---	---	---	---	---	---	---	---	13	6.3	3.2
20	---	---	---	---	---	---	---	---	---	12	5.0	3.2
21	---	---	---	---	---	---	---	---	---	12	4.7	3.1
22	---	---	---	---	---	---	---	---	---	12	4.6	3.1
23	---	---	---	---	---	---	---	---	---	10	4.5	3.0
24	---	---	---	---	---	---	---	---	---	9.4	4.5	3.1
25	---	---	---	---	---	---	---	---	---	9.0	4.5	3.1
26	---	---	---	---	---	---	---	---	---	8.5	4.4	3.1
27	---	---	---	---	---	---	---	---	---	8.2	5.6	3.0
28	---	---	---	---	---	---	---	---	---	7.8	4.6	3.0
29	---	---	---	---	---	---	---	---	---	7.7	4.6	3.1
30	---	---	---	---	---	---	---	---	---	14	4.4	3.1
31	---	---	---	---	---	---	---	---	---	12	4.2	---
TOTAL	---	---	---	---	---	---	---	---	---	532.6	182.3	103.9
MEAN	---	---	---	---	---	---	---	---	---	17.2	5.88	3.46
MAX	---	---	---	---	---	---	---	---	---	30	11	4.3
MIN	---	---	---	---	---	---	---	---	---	7.7	4.2	3.0
CFSM	---	---	---	---	---	---	---	---	---	1.41	0.48	0.28
IN.	---	---	---	---	---	---	---	---	---	1.62	0.56	0.32

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

MEAN	---	---	---	---	---	---	---	---	---	17.2	5.88	3.46
MAX	---	---	---	---	---	---	---	---	---	17.2	5.88	3.46
(WY)	---	---	---	---	---	---	---	---	---	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	---	---	---	---	17.2	5.88	3.46
(WY)	---	---	---	---	---	---	---	---	---	(2004)	(2004)	(2004)

SUMMARY STATISTICS	FOR 2004 WATER YEAR (July - September)	
ANNUAL TOTAL	818.8	
ANNUAL MEAN	8.90	
HIGHEST DAILY MEAN	30	(a)Jul 4
LOWEST DAILY MEAN	3.0	(b)Sep 23
ANNUAL SEVEN-DAY MINIMUM	3.1	Sep 22
MAXIMUM PEAK FLOW	33	Jul 12
MAXIMUM PEAK STAGE	2.80	Jul 12
ANNUAL RUNOFF (CFSM)	0.730	
ANNUAL RUNOFF (INCHES)	2.50	
10 PERCENT EXCEEDS	22	
50 PERCENT EXCEEDS	5.2	
90 PERCENT EXCEEDS	3.1	

05424009 GILL CREEK AT COUNTY TRUNK HIGHWAY Y NEAR KEKOSKEE, WI—Continued

(a) Also occurred Jul. 1, estimated
(b) Also occurred Sept. 27, 28
(e) Estimated

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	2.9	2.9	2.6	e3.3	e2.4	8.4	3.0	2.3	1.5	1.4	0.47
2	3.8	3.3	2.7	5.1	e3.3	e2.4	7.0	3.0	2.2	1.5	1.3	0.41
3	3.5	3.0	2.6	3.7	e3.2	e2.4	6.3	2.9	2.2	1.4	1.3	0.41
4	3.4	3.1	2.7	3.0	e3.3	e2.4	5.8	2.9	2.8	1.7	1.2	0.38
5	3.3	2.9	2.6	e2.8	20	3.0	5.5	2.8	3.0	1.6	1.1	0.35
6	3.4	2.8	2.9	e2.8	e112	63	5.5	2.8	2.8	1.5	1.0	0.32
7	3.3	2.7	4.6	e2.8	e114	66	5.2	2.8	2.6	1.7	0.98	0.29
8	4.5	2.5	4.2	e2.8	23	e15	4.7	2.7	2.4	1.6	0.89	0.32
9	3.9	2.4	3.7	2.7	8.1	e7.0	4.5	2.8	2.4	1.3	0.77	0.36
10	3.6	2.5	4.6	2.6	e5.8	e3.7	4.3	2.9	2.4	1.2	0.74	0.30
11	3.5	2.5	4.5	2.6	e3.9	e3.6	4.1	3.7	2.5	1.1	0.90	0.24
12	3.5	2.4	4.1	26	e3.8	e4.1	3.9	3.4	2.3	1.2	2.1	0.20
13	3.4	2.4	e3.5	66	4.5	e5.1	3.8	3.8	2.7	1.3	1.2	0.20
14	2.9	2.4	e3.4	62	66	e3.4	3.6	3.6	2.7	1.1	1.1	0.23
15	2.9	2.4	3.4	e39	41	4.0	3.6	3.3	2.7	1.1	0.93	0.22
16	3.1	2.5	3.4	e14	16	4.8	3.5	3.1	2.5	1.1	0.80	0.25
17	3.1	2.5	3.1	e3.1	e7.5	4.4	3.5	3.0	2.4	0.98	0.74	0.22
18	2.9	2.4	e2.9	e3.3	e4.3	4.1	3.5	2.8	2.3	0.92	0.86	0.20
19	3.0	2.9	e2.9	e3.4	e2.8	3.9	3.4	4.2	2.2	0.88	1.00	0.41
20	2.9	3.7	e2.9	e3.5	3.6	4.1	3.7	3.5	2.1	0.99	0.79	0.36
21	2.8	3.1	e2.9	e3.4	3.3	11	3.4	3.1	2.0	1.6	0.69	0.27
22	2.8	3.0	e2.4	e3.0	3.1	19	3.4	2.9	1.9	1.6	0.66	0.80
23	4.4	2.9	e2.3	e2.9	e2.8	18	3.2	2.9	1.7	1.9	0.67	0.52
24	3.7	2.6	e2.3	e3.2	e2.8	12	3.2	2.8	1.5	2.3	0.64	0.52
25	3.2	2.5	e2.5	e3.3	2.8	10	3.3	2.6	1.6	1.6	0.60	1.9
26	3.0	2.6	e2.6	e3.2	2.8	9.3	3.6	2.6	1.8	7.8	0.59	1.5
27	3.0	3.4	e2.6	e3.2	2.7	9.3	3.4	2.8	1.7	2.8	1.1	0.96
28	2.9	4.0	e2.9	e3.3	2.7	10	3.3	2.7	1.5	2.2	0.62	0.95
29	2.9	3.3	2.9	e3.3	---	11	3.2	2.6	1.5	1.9	0.56	1.2
30	3.1	3.0	2.9	e3.3	---	12	3.1	2.6	1.7	1.7	0.54	0.91
31	2.9	---	3.3	e3.4	---	12	---	2.5	---	1.5	0.53	---
TOTAL	101.8	84.6	97.2	289.3	472.4	342.4	126.9	93.1	66.4	52.57	28.30	15.67
MEAN	3.28	2.82	3.14	9.33	16.9	11.0	4.23	3.00	2.21	1.70	0.91	0.52
MAX	4.5	4.0	4.6	66	114	66	8.4	4.2	3.0	7.8	2.1	1.9
MIN	2.8	2.4	2.3	2.6	2.7	2.4	3.1	2.5	1.5	0.88	0.53	0.20
CFSM	0.27	0.23	0.26	0.76	1.38	0.91	0.35	0.25	0.18	0.14	0.07	0.04
IN.	0.31	0.26	0.30	0.88	1.44	1.04	0.39	0.28	0.20	0.16	0.09	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	3.28	2.82	3.14	9.33	16.9	11.0	4.23	3.00	2.21	9.44	3.40	1.99
MAX	3.28	2.82	3.14	9.33	16.9	11.0	4.23	3.00	2.21	17.2	5.88	3.46
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)
MIN	3.28	2.82	3.14	9.33	16.9	11.0	4.23	3.00	2.21	1.70	0.91	0.52
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR (July - December)	FOR 2005 WATER YEAR	WATER YEARS 2004 - 2005
ANNUAL TOTAL	1,102.4	1,770.64	
ANNUAL MEAN	5.99	4.85	5.67
HIGHEST ANNUAL MEAN			
LOWEST ANNUAL MEAN			4.85 2005
HIGHEST DAILY MEAN	30 (a) Jul 4	(b)114 Feb 7	(b)114 Feb 7, 2005
LOWEST DAILY MEAN	(b)2.3 Dec 23-24	0.20 (c)Sep 12	0.20 (c)Sep 12, 2005
ANNUAL SEVEN-DAY MINIMUM	2.4 Nov 9	0.22 Sep 12	0.22 Sep 12, 2005
MAXIMUM PEAK FLOW		171 Mar 6	171 Mar 6, 2005
MAXIMUM PEAK STAGE		4.45 Mar 6	4.45 Mar 6, 2005
INSTANTANEOUS LOW FLOW		0.17 Sep 13	0.17 Sep 13, 2005
ANNUAL RUNOFF (CFSM)	0.491	0.398	0.464
ANNUAL RUNOFF (INCHES)	3.36	5.40	6.31
10 PERCENT EXCEEDS	14	5.5	11
50 PERCENT EXCEEDS	3.5	2.9	3.1
90 PERCENT EXCEEDS	2.6	0.78	0.93

(a) Also occurred Jul. 1, estimated
(b) Ice affected
(c) Also occurred Sept. 13, 18
(e) Estimated

05424013 IRISH CREEK AT COUNTY TRUNK HIGHWAY Y NEAR KEKOSKEE, WI

LOCATION.--Lat 43°33'03", long 88°33'40", in NW ¼ NW ¼ SW ¼ sec.35, T.13 N., R.16 E., Dodge County, Hydrologic Unit 07090001, at upstream side of County Y.

DRAINAGE AREA.--1.32 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 2004 to September 2005.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 880 ft, from topographic map.

REMARKS.--Records good.

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	---	---	---	---	---	---	---	---	---	e11	5.6	3.2
2	---	---	---	---	---	---	---	---	---	11	5.5	3.2
3	---	---	---	---	---	---	---	---	---	10	5.4	3.1
4	---	---	---	---	---	---	---	---	---	10	5.4	3.0
5	---	---	---	---	---	---	---	---	---	9.6	5.2	3.0
6	---	---	---	---	---	---	---	---	---	9.5	5.1	3.1
7	---	---	---	---	---	---	---	---	---	9.3	5.0	3.0
8	---	---	---	---	---	---	---	---	---	8.7	4.9	2.9
9	---	---	---	---	---	---	---	---	---	8.3	4.8	2.8
10	---	---	---	---	---	---	---	---	---	8.0	4.7	2.7
11	---	---	---	---	---	---	---	---	---	8.1	4.6	2.6
12	---	---	---	---	---	---	---	---	---	8.4	4.5	2.6
13	---	---	---	---	---	---	---	---	---	7.8	4.4	2.5
14	---	---	---	---	---	---	---	---	---	7.6	4.3	2.5
15	---	---	---	---	---	---	---	---	---	7.4	4.2	2.5
16	---	---	---	---	---	---	---	---	---	7.3	4.2	2.5
17	---	---	---	---	---	---	---	---	---	7.1	4.4	2.3
18	---	---	---	---	---	---	---	---	---	6.9	4.2	2.2
19	---	---	---	---	---	---	---	---	---	6.8	4.2	2.2
20	---	---	---	---	---	---	---	---	---	6.7	4.1	2.1
21	---	---	---	---	---	---	---	---	---	6.6	3.9	2.1
22	---	---	---	---	---	---	---	---	---	6.4	3.9	2.0
23	---	---	---	---	---	---	---	---	---	6.3	3.8	2.0
24	---	---	---	---	---	---	---	---	---	6.1	3.8	1.9
25	---	---	---	---	---	---	---	---	---	6.0	3.7	1.9
26	---	---	---	---	---	---	---	---	---	5.9	3.7	1.8
27	---	---	---	---	---	---	---	---	---	5.8	3.8	1.8
28	---	---	---	---	---	---	---	---	---	5.7	3.6	1.8
29	---	---	---	---	---	---	---	---	---	5.6	3.5	1.8
30	---	---	---	---	---	---	---	---	---	6.0	3.4	1.7
31	---	---	---	---	---	---	---	---	---	5.6	3.3	---
TOTAL	---	---	---	---	---	---	---	---	---	235.5	135.1	72.8
MEAN	---	---	---	---	---	---	---	---	---	7.60	4.36	2.43
MAX	---	---	---	---	---	---	---	---	---	11	5.6	3.2
MIN	---	---	---	---	---	---	---	---	---	5.6	3.3	1.7
CFSM	---	---	---	---	---	---	---	---	---	5.76	3.30	1.84
IN.	---	---	---	---	---	---	---	---	---	6.64	3.81	2.05

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

MEAN	---	---	---	---	---	---	---	---	---	7.60	4.36	2.43
MAX	---	---	---	---	---	---	---	---	---	7.60	4.36	2.43
(WY)	---	---	---	---	---	---	---	---	---	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	---	---	---	---	7.60	4.36	2.43
(WY)	---	---	---	---	---	---	---	---	---	(2004)	(2004)	(2004)

(e) Estimated

05424013 IRISH CREEK AT COUNTY TRUNK HIGHWAY Y NEAR KEKOSKEE, WI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.2	1.1	1.4	1.1	2.1	3.8	1.8	1.2	0.88	0.96	0.59
2	1.8	1.2	1.1	1.9	1.1	2.0	3.6	1.8	1.2	0.85	0.96	0.57
3	1.7	1.2	1.0	1.7	1.1	1.9	3.5	1.7	1.2	0.82	0.95	0.55
4	1.7	1.2	1.1	1.6	1.2	1.9	3.3	1.7	1.3	0.96	0.91	0.53
5	1.6	1.2	1.1	1.5	5.1	2.0	3.3	1.6	1.2	0.87	0.86	0.50
6	1.6	1.2	1.1	e1.7	16	14	3.1	1.6	1.2	0.85	0.83	0.49
7	1.5	1.2	1.4	1.5	18	8.2	3.0	1.6	1.1	1.1	0.81	0.48
8	1.7	1.1	1.3	1.4	5.9	4.1	2.9	1.6	1.1	0.93	0.77	0.52
9	1.6	1.1	1.2	1.4	4.2	3.2	2.7	1.6	1.1	0.87	0.76	0.52
10	1.5	1.1	1.5	1.3	3.6	2.8	2.7	1.6	1.1	0.84	0.76	0.49
11	1.5	1.0	1.4	1.3	3.2	2.6	2.6	1.7	1.1	0.81	0.84	0.45
12	1.5	1.0	1.5	8.2	3.1	2.4	2.5	1.5	1.1	0.84	1.0	0.43
13	1.5	0.98	1.5	6.5	3.2	2.3	2.5	1.6	1.1	0.83	0.86	0.46
14	1.5	0.96	1.4	e3.1	13	2.2	2.4	1.5	1.1	0.78	0.84	0.47
15	1.5	0.96	1.5	e2.3	7.0	2.2	2.4	1.5	1.1	0.75	0.78	0.41
16	1.5	1.0	1.6	e2.0	4.7	2.4	2.5	1.5	1.0	0.72	0.76	0.37
17	1.5	1.0	1.6	2.0	3.7	2.3	2.5	1.5	0.99	0.72	0.77	0.33
18	1.4	1.0	1.6	1.9	3.3	2.3	2.4	1.4	0.96	0.70	0.83	0.34
19	1.4	1.1	e1.8	1.9	3.0	2.1	2.4	1.7	0.93	0.69	0.88	0.47
20	1.4	1.1	1.8	1.8	3.0	2.1	2.4	1.5	0.90	0.70	0.82	0.37
21	1.3	1.0	1.7	1.7	2.8	3.8	2.3	1.5	0.92	0.80	0.76	0.31
22	1.3	1.0	e1.6	1.7	2.6	4.3	2.2	1.5	0.89	0.68	0.73	0.61
23	1.5	1.0	e1.6	1.8	2.5	4.3	2.2	1.5	0.89	0.92	0.70	0.44
24	1.4	0.97	e1.6	1.5	2.4	4.0	2.2	1.4	0.90	0.75	0.70	0.33
25	1.3	0.96	e1.5	1.4	2.4	3.8	2.2	1.4	0.94	0.77	0.65	0.69
26	1.3	1.0	1.5	1.4	2.3	3.7	2.2	1.4	0.96	2.0	0.65	0.51
27	1.2	1.3	1.5	e1.3	2.2	3.8	2.1	1.4	0.89	1.2	0.78	0.46
28	1.2	1.2	1.5	e1.3	2.2	4.0	2.0	1.4	0.88	1.2	0.68	0.51
29	1.3	1.1	1.5	1.2	---	4.2	1.9	1.4	0.87	1.1	0.66	0.51
30	1.3	1.1	1.5	1.2	---	4.4	1.9	1.3	0.92	1.0	0.64	0.47
31	1.2	---	1.5	1.1	---	4.4	---	1.3	---	1.0	0.63	---
TOTAL	45.5	32.43	44.6	62.0	123.9	109.8	77.7	47.5	31.04	27.93	24.53	14.18
MEAN	1.47	1.08	1.44	2.00	4.42	3.54	2.59	1.53	1.03	0.90	0.79	0.47
MAX	1.8	1.3	1.8	8.2	18	14	3.8	1.8	1.3	2.0	1.0	0.69
MIN	1.2	0.96	1.0	1.1	1.1	1.9	1.9	1.3	0.87	0.68	0.63	0.31
CFSM	1.11	0.82	1.09	1.52	3.35	2.68	1.96	1.16	0.78	0.68	0.60	0.36
IN.	1.28	0.91	1.26	1.75	3.49	3.09	2.19	1.34	0.87	0.79	0.69	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	1.47	1.08	1.44	2.00	4.42	3.54	2.59	1.53	1.03	4.08	2.57	1.45
MAX	1.47	1.08	1.44	2.00	4.42	3.54	2.59	1.53	1.03	7.37	4.35	2.43
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)
MIN	1.47	1.08	1.44	2.00	4.42	3.54	2.59	1.53	1.03	0.90	0.79	0.47
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	641.11			
ANNUAL MEAN	1.76		2.35	
HIGHEST ANNUAL MEAN			4.71	2004
LOWEST ANNUAL MEAN			1.76	2005
HIGHEST DAILY MEAN	18	Feb 7	18	Feb 7, 2005
LOWEST DAILY MEAN	0.31	Sep 21	0.31	Sep 21, 2005
ANNUAL SEVEN-DAY MINIMUM	0.37	Sep 15	0.37	Sep 15, 2005
MAXIMUM PEAK FLOW	59	Mar 6	59	Mar 6, 2005
MAXIMUM PEAK STAGE	4.34	Mar 6	4.34	Mar 6, 2005
ANNUAL RUNOFF (CFSM)	1.33		1.78	
ANNUAL RUNOFF (INCHES)	18.07		24.15	
10 PERCENT EXCEEDS	3.1		5.0	
50 PERCENT EXCEEDS	1.4		1.5	
90 PERCENT EXCEEDS	0.69		0.74	

(a)Also occurred on Nov. 15, 25
(e)Estimated

05424057 ROCK RIVER AT HORICON, WI

LOCATION.--Lat 43°27'01", long 88°37'56", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.6, T.11 N., R.16 E., Dodge County, Hydrologic Unit 07090001, on left bank downstream side of State Highway 33, 1,700 ft upstream of dam, at Horicon.

DRAINAGE AREA.--456 mi^2.

PERIOD OF RECORD.--November 1997 to December 2000, November 2001 to current year.

GAGE.--Water-stage recorder. Side-looking velocity meter system. Elevation of gage is 860 ft, from topographic map.

REMARKS.--Records fair except for periods of estimated record and days with negative mean daily flow, which are poor (see Introduction). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	67	81	93	e71	108	1,150	212	35	81	43	-0.26
2	78	75	86	94	e72	80	1,190	256	49	-22	7.4	0.96
3	68	69	89	106	e69	80	1,180	190	65	-31	-58	1.2
4	73	71	83	123	e69	91	1,150	105	19	34	100	-12
5	64	65	91	175	e66	96	1,140	43	-37	64	60	-9.8
6	65	67	94	209	103	115	1,160	58	169	45	-4.3	-4.5
7	62	74	100	221	257	241	1,170	181	88	18	4.4	-2.3
8	67	69	98	236	491	447	1,080	31	80	10	-9.0	2.6
9	68	60	112	241	627	536	971	26	149	-14	14	-8.2
10	68	63	144	430	618	565	877	191	26	20	40	-11
11	69	78	162	619	752	741	685	288	-25	37	-17	-6.4
12	47	72	156	717	784	756	622	248	81	44	65	-5.8
13	43	69	166	835	727	722	761	203	66	15	35	-3.8
14	43	73	153	785	826	710	708	346	26	50	11	66
15	36	71	153	754	878	681	649	398	183	20	10	19
16	45	70	152	711	956	634	629	261	115	5.9	20	13
17	52	70	148	667	1,000	587	600	208	61	-12	-9.6	-20
18	55	69	143	599	992	508	504	142	12	e5.0	-37	19
19	56	78	134	523	951	445	469	226	-4.4	22	51	9.3
20	54	71	126	e335	887	401	578	350	20	6.0	24	3.5
21	51	70	122	e190	845	370	474	265	76	51	34	-48
22	42	70	120	22	797	401	480	267	-7.7	31	25	95
23	44	70	114	e27	711	506	598	370	-41	-21	5.5	17
24	51	86	110	e48	633	556	456	291	24	47	-10	-12
25	55	75	102	e60	536	643	218	129	48	34	-10	58
26	58	77	100	e71	e420	665	275	231	-21	192	-8.4	70
27	46	76	85	e77	157	706	315	218	-15	94	-0.61	-23
28	41	79	83	e74	170	766	285	226	38	23	-5.9	87
29	59	80	86	e73	---	850	259	123	38	83	-5.9	-44
30	49	85	84	e70	---	931	276	182	11	-28	5.1	-61
31	61	---	86	e65	---	1,080	---	130	---	14	3.2	---
TOTAL	1,742	2,169	3,563	9,250	15,465	16,018	20,909	6,395	1,327.9	917.9	381.89	189.50
MEAN	56.2	72.3	115	298	552	517	697	206	44.3	29.6	12.3	6.32
MAX	78	86	166	835	1,000	1,080	1,190	398	183	192	100	95
MIN	36	60	81	22	66	80	218	26	-41	-31	-58	-61
CFSM	0.12	0.16	0.25	0.65	1.21	1.13	1.53	0.45	0.10	0.06	0.03	0.01
IN.	0.14	0.18	0.29	0.75	1.26	1.31	1.71	0.52	0.11	0.07	0.03	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

MEAN	64.0	131	136	127	266	512	585	444	571	284	105	70.4
MAX	106	229	283	298	552	1,071	1,194	929	2,621	1,066	448	166
(WY)	(1999)	(2002)	(2004)	(2005)	(2005)	(2004)	(1998)	(2004)	(2004)	(2004)	(1999)	(1999)
MIN	10.6	72.3	63.1	42.2	26.4	81.6	145	206	44.3	29.6	12.3	6.24
(WY)	(2004)	(2005)	(2003)	(2003)	(2003)	(2003)	(2003)	(2005)	(2005)	(2005)	(2005)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1998 - 2005	
ANNUAL TOTAL	209,428		78,328.19			
ANNUAL MEAN	572		215		274	
HIGHEST ANNUAL MEAN					584	2004
LOWEST ANNUAL MEAN					98.7	2003
HIGHEST DAILY MEAN	3,130	Jun 18	1,190	Apr 2	3,130	Jun 18, 2004
LOWEST DAILY MEAN	(e)23	(a)Jan 31	-61	Sep 30	-61	Sep 30, 2005
ANNUAL SEVEN-DAY MINIMUM	(e)25	Jan 28	-6.5	Sep 4	-6.5	Sep 4, 2005
ANNUAL RUNOFF (CFSM)	1.25		0.471		0.601	
ANNUAL RUNOFF (INCHES)	17.08		6.39		8.17	
10 PERCENT EXCEEDS	1,950		710		711	
50 PERCENT EXCEEDS	151		78		118	
90 PERCENT EXCEEDS	51		-4.3		24	

(a) Also occurred Feb. 1
(e) Estimated

05425500 ROCK RIVER AT WATERTOWN, WI

LOCATION.--Lat 43°11'17", long 88°43'34", in NE ¼ SW ¼ sec.4, T.8 N., R.15 E., Jefferson County, Hydrologic Unit 07090001, on left bank, 700 ft downstream from Milwaukee Street bridge, 1.1 mi downstream from Silver Creek, at Watertown.

DRAINAGE AREA.--969 mi^2.

PERIOD OF RECORD.--June 1931 to September 1970, October 1976 to current year; June to September 1914, daily gage heights available only in District files. Several 1914 water year discharges published in WSP 385.

REVISED RECORDS.--WSP 1438: 1933,1935(M), 1937(M), 1938-39, 1945(M); WDR WI-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 792.58 ft above NGVD of 1929. Prior to Sept. 26, 1933, nonrecording gage at site 700 ft upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see Introduction). Flow partly regulated by powerplant at Watertown. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	204	385	298	247	e897	1,370	492	265	62	84	53
2	151	234	369	369	229	e876	1,380	468	207	66	71	38
3	155	228	351	364	240	e839	1,390	404	191	65	72	41
4	150	240	344	e343	324	e792	1,400	421	197	77	68	e33
5	160	241	329	e341	383	e726	1,410	412	206	82	52	e20
6	151	236	341	e314	486	e640	1,440	350	207	73	49	39
7	138	244	388	e294	1,050	e1,130	1,490	414	214	91	47	48
8	174	248	444	336	e1,010	e1,040	1,500	342	222	104	46	46
9	147	232	467	367	e914	e1,010	1,500	351	228	86	45	e24
10	159	248	490	367	e883	e953	1,510	356	220	77	29	e13
11	176	237	492	370	e898	e922	1,490	391	208	67	28	e31
12	173	227	478	418	947	e922	1,440	448	194	64	37	35
13	182	250	446	698	991	e930	1,380	630	159	74	35	19
14	180	261	369	e732	1,380	e953	1,300	735	140	43	37	19
15	180	274	345	e732	1,500	1,010	1,210	757	109	49	39	22
16	173	268	e330	e659	1,370	1,030	1,150	750	119	58	39	28
17	168	243	e320	e654	e1,220	1,080	1,080	660	119	52	36	28
18	177	234	e300	e640	e1,170	1,060	1,030	555	119	43	41	28
19	179	234	e285	e638	e1,160	1,060	988	578	112	34	37	29
20	172	233	e277	e630	e1,130	1,110	991	580	100	46	36	27
21	167	244	e262	e615	e1,100	1,250	957	584	92	75	34	22
22	151	255	e251	e602	e1,060	1,340	950	584	82	57	33	e20
23	185	264	e227	e582	e1,020	1,290	910	573	73	81	34	e13
24	157	292	e224	e560	e1,000	1,190	854	557	70	120	33	e66
25	170	299	e219	e522	e1,000	1,180	789	543	67	98	39	96
26	197	317	e213	e478	e990	1,150	721	516	58	148	44	111
27	e200	326	e216	e425	e980	1,170	644	491	70	148	69	97
28	e201	334	e207	e351	e965	1,200	597	460	62	169	48	81
29	e202	354	e213	e241	---	1,260	552	389	68	170	53	88
30	203	359	273	250	---	1,320	523	370	71	148	56	82
31	196	---	304	252	---	1,350	---	288	---	128	50	---
TOTAL	5,321	7,860	10,159	14,442	25,647	32,680	33,946	15,449	4,249	2,655	1,421	1,297
MEAN	172	262	328	466	916	1,054	1,132	498	142	85.6	45.8	43.2
MAX	203	359	492	732	1,500	1,350	1,510	757	265	170	84	111
MIN	138	204	207	241	229	640	523	288	58	34	28	13
CFSM	0.18	0.27	0.34	0.48	0.95	1.09	1.17	0.51	0.15	0.09	0.05	0.04
IN.	0.20	0.30	0.39	0.55	0.98	1.25	1.30	0.59	0.16	0.10	0.05	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2005, BY WATER YEAR (WY)

MEAN	334	412	338	286	371	961	1,281	750	514	365	252	254
MAX	2,981	2,034	1,148	1,055	1,627	2,448	3,875	2,634	3,817	1,754	1,540	1,552
(WY)	(1987)	(1986)	(1986)	(1946)	(1938)	(1985)	(1979)	(1993)	(2004)	(2004)	(1960)	(1986)
MIN	11.6	27.2	22.3	20.4	29.8	114	192	58.2	23.6	19.4	8.42	3.60
(WY)	(1964)	(1964)	(1938)	(1940)	(1936)	(1964)	(1964)	(1958)	(1931)	(1936)	(1934)	(1932)

05425500 ROCK RIVER AT WATERTOWN, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931 - 2005	
ANNUAL TOTAL	357,675		155,126			
ANNUAL MEAN	977		425		512	
HIGHEST ANNUAL MEAN					1,186	1993
LOWEST ANNUAL MEAN					64.5	1964
HIGHEST DAILY MEAN	4,350	Jun 12	1,510	Apr 10	4,970	Apr 4, 1959
LOWEST DAILY MEAN	138	Sep 27	(e)13	Sep 10, 23	0.90	(a)Oct 15, 1939
ANNUAL SEVEN-DAY MINIMUM	145	Sep 26	(e)23	Sep 9	1.1	Sep 15, 1932
MAXIMUM PEAK FLOW			1,580	Feb 15	(b)5,080	Mar 31, 1979
MAXIMUM PEAK STAGE			3.70	Feb 15	(c)6.96	Jan 17, 1997
ANNUAL RUNOFF (CFSM)	1.01		0.439		0.528	
ANNUAL RUNOFF (INCHES)	13.73		5.96		7.17	
10 PERCENT EXCEEDS	2,930		1,100		1,350	
50 PERCENT EXCEEDS	368		251		270	
90 PERCENT EXCEEDS	179		41		41	

(a) Also occurred Sept. 9, 1944
(b) Gage height, 6.19 ft
(c) Backwater from ice
(e) Estimated

05425912 BEAVERDAM RIVER AT BEAVER DAM, WI

LOCATION.--Lat 43°26'57", long 88°50'21", in NE ¼ SW ¼ sec.4, T.11 N., R.14 E., Dodge County, Hydrologic Unit 07090002, on left bank 5 ft upstream from bridge on Davis Street, 0.8 mi downstream from outlet of Beaverdam Lake, at Beaver Dam.

DRAINAGE AREA.--157 mi^2.

PERIOD OF RECORD.--March 1985 to current year. Instantaneous stages from November 1984 to February 1985 in District data files.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 839.42 ft above NGVD of 1929.

REMARKS.--Records good (see Introduction). Flow regulated by dam 0.8 mi upstream. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	27	109	37	5.8	152	219	15	51	9.9	5.6	8.8
2	9.8	109	106	40	6.2	144	288	17	24	5.3	4.4	8.1
3	8.3	140	100	37	6.7	137	309	13	16	3.5	3.0	6.5
4	9.8	163	97	36	6.8	104	346	11	21	9.1	6.3	5.1
5	7.8	142	96	36	6.9	70	368	10	32	5.3	3.9	5.2
6	9.3	139	97	38	7.9	72	332	18	38	8.1	2.2	4.5
7	9.3	157	142	37	9.7	67	270	14	34	15	1.8	4.3
8	17	140	141	37	9.3	82	97	13	33	12	1.6	4.6
9	14	121	139	37	11	128	29	13	34	9.6	1.6	3.5
10	13	127	148	36	13	192	23	18	34	8.6	6.1	2.9
11	14	129	151	63	25	244	16	24	31	7.7	9.4	3.4
12	14	88	174	118	17	259	18	20	31	7.3	14	3.1
13	15	40	183	112	20	244	21	16	31	7.6	12	3.5
14	16	39	156	106	69	226	21	16	30	8.4	11	4.8
15	17	34	125	101	203	181	16	15	33	7.8	9.9	2.9
16	22	31	121	96	322	118	20	10	29	6.9	7.8	2.8
17	18	33	117	92	396	87	27	9.3	25	5.0	6.5	1.00
18	14	34	114	88	402	87	25	8.4	19	7.4	7.2	2.8
19	15	37	110	86	380	87	6.9	18	10	3.8	9.7	6.8
20	15	43	107	82	361	82	13	20	7.2	8.1	9.5	3.7
21	15	40	79	79	341	65	11	20	6.9	16	9.9	1.9
22	13	39	60	85	321	47	13	26	5.5	13	8.0	12
23	22	43	59	82	301	47	20	27	4.8	16	6.3	4.6
24	21	53	58	79	285	48	15	21	5.7	14	4.8	3.7
25	21	57	57	110	269	52	10	19	5.8	18	4.6	7.9
26	21	54	56	161	253	54	9.2	27	6.4	17	7.7	8.3
27	22	67	44	166	239	57	12	33	5.2	10	11	6.8
28	21	101	39	154	187	59	9.5	54	6.1	8.8	10	8.6
29	23	109	38	144	---	56	9.4	75	4.6	7.8	9.2	7.0
30	32	107	39	88	---	64	13	81	12	5.8	9.4	5.3
31	28	---	38	22	---	116	---	75	---	6.5	8.7	---
TOTAL	507.3	2,443	3,100	2,485	4,474.3	3,428	2,587.0	756.7	626.2	289.3	223.1	154.40
MEAN	16.4	81.4	100	80.2	160	111	86.2	24.4	20.9	9.33	7.20	5.15
MAX	32	163	183	166	402	259	368	81	51	18	14	12
MIN	7.8	27	38	22	5.8	47	6.9	8.4	4.6	3.5	1.6	1.0
CFSM	0.10	0.52	0.64	0.51	1.02	0.70	0.55	0.16	0.13	0.06	0.05	0.03
IN.	0.12	0.58	0.73	0.59	1.06	0.81	0.61	0.18	0.15	0.07	0.05	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2005, BY WATER YEAR (WY)

MEAN	64.0	91.4	81.5	73.3	81.9	160	162	112	141	99.5	61.8	51.7
MAX	446	350	289	281	182	327	527	449	755	561	287	282
(WY)	(1987)	(1986)	(1986)	(1986)	(1986)	(2004)	(1993)	(1993)	(2004)	(1993)	(1999)	(1986)
MIN	2.89	6.66	10.6	11.7	14.4	10.9	3.97	4.55	4.86	2.86	3.05	5.13
(WY)	(1989)	(1989)	(2003)	(2003)	(2003)	(1988)	(2000)	(1989)	(1985)	(1988)	(1988)	(1988)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1985 - 2005	
ANNUAL TOTAL	65,879.1		21,074.30			
ANNUAL MEAN	180		57.7		98.7	
HIGHEST ANNUAL MEAN					244	1993
LOWEST ANNUAL MEAN					21.0	2003
HIGHEST DAILY MEAN	1,050	Jun 14	402	Feb 18	1,050	Jun 14, 2004
LOWEST DAILY MEAN	3.7	Jul 29	1.0	Sep 17	0.64	Oct 30, 1988
ANNUAL SEVEN-DAY MINIMUM	6.3	Jul 23	2.9	Aug 3	0.77	Feb 11, 1987
MAXIMUM PEAK FLOW			427	Feb 17	1,140	Jun 14, 2004
MAXIMUM PEAK STAGE			8.15	Feb 17	10.68	Jun 14, 2004
INSTANTANEOUS LOW FLOW			0.54	Sep 18	0.54	Sep 18, 2005
ANNUAL RUNOFF (CFSM)	1.15		0.368		0.629	
ANNUAL RUNOFF (INCHES)	15.61		4.99		8.55	
10 PERCENT EXCEEDS	564		151		267	
50 PERCENT EXCEEDS	56		21		46	
90 PERCENT EXCEEDS	14		5.3		7.7	

05426000 CRAWFISH RIVER AT MILFORD, WI

LOCATION.--Lat 43°06'00", long 88°50'58", in NW $^1/_4$ SW $^1/_4$ sec.4, T.7 N., R.14 E., Jefferson County, Hydrologic Unit 07090002, on left bank near upstream side of highway bridge in Milford, 1.4 mi downstream from Rock Creek and 9.8 mi upstream from mouth.

DRAINAGE AREA.--762 mi^2.

PERIOD OF RECORD.--June 1931 to current year.

REVISED RECORDS.--WSP 975: 1937-38. WSP 1438: 1932-33(M), 1935(M), 1937, 1938-41(M), 1943-44(M), 1947-48(M). WDR WI-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 779.40 ft above NGVD of 1929. Prior to July 28, 1966, nonrecording gage at present site and datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor (see Introduction). Some diurnal fluctuation at lower flows, due to manipulation of gates on small dams upstream. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	229	335	228	e300	e1,160	1,300	208	225	67	88	50
2	95	245	342	257	e290	e1,070	1,330	207	212	54	76	49
3	77	228	331	273	e280	e994	1,310	196	203	45	66	46
4	114	263	322	286	e270	e932	1,280	180	184	59	80	38
5	92	248	335	259	e281	e795	1,230	166	182	73	84	38
6	91	284	338	e240	e301	e671	1,200	165	211	71	70	36
7	91	322	381	e230	e498	e1,090	1,210	187	210	67	63	43
8	98	313	421	e230	e674	e1,100	1,140	182	194	67	55	48
9	125	286	496	e220	e873	e1,150	1,080	178	193	58	52	41
10	125	287	582	e220	e922	e1,150	1,030	203	171	58	57	36
11	130	340	617	e220	e898	e1,180	964	241	154	59	47	35
12	130	312	e570	e220	e942	e1,180	900	246	154	57	51	35
13	135	298	e510	e270	e910	e1,200	837	262	153	61	56	29
14	136	290	e480	e370	e1,000	e1,100	741	302	134	59	55	48
15	124	276	e430	e500	e1,050	e1,050	646	327	153	53	52	41
16	120	259	e400	e520	e1,100	e1,000	578	318	137	50	53	43
17	120	243	e380	e480	e1,130	986	526	302	121	44	47	35
18	111	230	e350	e440	e1,190	877	461	284	110	42	42	33
19	120	216	e370	e420	e1,250	843	400	320	99	48	56	34
20	118	218	e330	e410	e1,300	829	406	411	89	48	57	41
21	111	230	e310	e390	e1,300	846	373	450	91	74	56	33
22	98	232	e280	e380	e1,250	885	357	490	76	91	55	56
23	99	247	e270	e360	e1,230	983	383	509	61	90	50	73
24	165	272	e260	e330	e1,230	1,050	337	468	57	102	43	78
25	187	220	e255	e310	e1,230	1,120	263	400	69	107	43	85
26	197	216	e250	e300	e1,210	1,150	255	357	63	128	45	100
27	205	230	e230	e310	e1,230	1,180	254	323	58	126	62	88
28	189	269	e220	e320	e1,130	1,200	240	298	67	115	58	101
29	182	286	e205	e320	---	1,190	227	258	60	121	59	111
30	166	321	195	e310	---	1,210	220	265	55	102	64	79
31	217	---	215	e310	---	1,260	---	250	---	89	58	---
TOTAL	4,034	7,910	11,010	9,933	25,269	32,431	21,478	8,953	3,946	2,285	1,800	1,603
MEAN	130	264	355	320	902	1,046	716	289	132	73.7	58.1	53.4
MAX	217	340	617	520	1,300	1,260	1,330	509	225	128	88	111
MIN	66	216	195	220	270	671	220	165	55	42	42	29
CFSM	0.17	0.35	0.47	0.42	1.18	1.37	0.94	0.38	0.17	0.10	0.08	0.07
IN.	0.20	0.39	0.54	0.48	1.23	1.58	1.05	0.44	0.19	0.11	0.09	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2005, BY WATER YEAR (WY)

MEAN	263	300	254	237	321	1,016	967	522	416	302	201	234
MAX	2,565	1,958	1,065	1,278	1,576	2,473	3,206	2,337	2,939	2,189	899	1,881
(WY)	(1987)	(1986)	(1983)	(1946)	(1938)	(1948)	(1959)	(1973)	(2004)	(1993)	(1993)	(1986)
MIN	16.8	25.9	18.0	15.2	16.2	56.2	193	73.8	34.4	17.9	18.0	8.11
(WY)	(1964)	(1950)	(1959)	(1940)	(1959)	(1940)	(1964)	(1958)	(1934)	(1965)	(1964)	(1958)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931 - 2005	
ANNUAL TOTAL	283,716		130,652			
ANNUAL MEAN	775		358		421	
HIGHEST ANNUAL MEAN					1,117	1993
LOWEST ANNUAL MEAN					61.8	1964
HIGHEST DAILY MEAN	3,400	Jun 2	1,330	Apr 2	6,130	Apr 6, 1959
LOWEST DAILY MEAN	66	Oct 1	29	Sep 13	0.30	Sep 15, 1958
ANNUAL SEVEN-DAY MINIMUM	87	Sep 29	37	Sep 15	1.5	Sep 11, 1958
MAXIMUM PEAK FLOW			(a)1,350	Apr 2	6,140	Apr 6, 1959
MAXIMUM PEAK STAGE			(b)5.72	Feb 20	11.15	Apr 6, 1959
ANNUAL RUNOFF (CFSM)	1.02		0.470		0.552	
ANNUAL RUNOFF (INCHES)	13.85		6.38		7.50	
10 PERCENT EXCEEDS	2,230		1,090		1,100	
50 PERCENT EXCEEDS	380		230		200	
90 PERCENT EXCEEDS	130		52		41	

(a) Gage height, 4.63 ft
(b) Backwater from ice
(e) Estimated

05426067 BARK RIVER AT NAGAWICKA ROAD AT DELAFIELD, WI

LOCATION.--Lat 43°05'16" long 88°22'34", in NE $^1/_4$ NW $^1/_4$ sec.9, T.7 N., R.18 E., Waukesha County, Hydrologic Unit 07090001, on left bank 20 ft upstream from Nagawicka Road in Delafield.

DRAINAGE AREA.--35.9 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 2002 to current year.

GAGE.--Water-stage recorder.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	18	18	16	e15	e18	54	22	17	10	9.0	8.6
2	15	20	16	29	e15	e17	55	22	16	10	8.9	8.3
3	14	22	16	21	e15	e17	50	22	16	10	8.8	8.3
4	13	20	15	19	e15	e17	46	21	16	11	8.8	8.6
5	14	19	15	15	e17	e17	43	21	16	11	8.5	8.3
6	14	19	19	e14	21	24	43	27	15	11	8.4	8.2
7	14	18	25	e14	50	58	49	26	14	11	8.2	8.6
8	17	16	25	e14	47	50	41	25	14	10	8.3	8.8
9	16	16	24	e14	31	e30	38	25	14	9.9	8.2	8.5
10	16	17	24	e14	e25	e27	36	24	14	9.5	8.3	8.4
11	16	17	23	16	e23	e25	33	33	13	9.1	8.5	8.3
12	16	17	21	32	22	e24	31	29	13	9.5	10	8.2
13	15	16	19	76	23	23	29	33	12	9.8	9.1	9.1
14	15	16	e17	e40	53	23	27	29	12	9.4	8.8	9.5
15	16	17	e16	e28	51	22	26	28	12	9.3	8.7	9.4
16	16	17	e15	e18	40	22	25	26	12	9.1	8.5	9.6
17	16	17	e14	e16	e28	23	25	24	12	9.0	8.3	9.5
18	16	17	e14	e15	e25	23	24	23	12	8.8	9.8	9.1
19	18	19	e14	e15	e24	24	23	30	11	e8.6	9.1	10
20	19	19	e15	e15	e23	24	27	28	11	e8.4	9.1	9.5
21	16	19	e14	e14	e22	25	25	26	11	12	8.5	9.3
22	15	18	e13	e13	e21	26	25	24	11	11	8.4	14
23	17	18	e13	e13	e20	27	25	23	10	12	8.5	11
24	18	17	e13	e15	e20	27	23	22	10	12	8.5	11
25	17	17	e14	17	e20	32	23	21	11	10	8.5	14
26	17	17	e14	16	e19	30	23	20	12	14	8.4	14
27	17	19	e14	e13	e19	33	23	19	11	11	11	11
28	17	21	e14	e12	e19	37	23	19	11	11	10	11
29	17	20	e14	e13	---	44	22	19	10	9.9	9.5	10
30	17	18	16	e14	---	54	22	18	10	9.6	9.0	9.7
31	16	---	18	e15	---	65	---	17	---	9.3	8.7	---
TOTAL	494	541	522	596	723	908	959	746	379	316.2	274.3	291.8
MEAN	15.9	18.0	16.8	19.2	25.8	29.3	32.0	24.1	12.6	10.2	8.85	9.73
MAX	19	22	25	76	53	65	55	33	17	14	11	14
MIN	13	16	13	12	15	17	22	17	10	8.4	8.2	8.2
CFSM	0.44	0.50	0.47	0.54	0.72	0.82	0.89	0.67	0.35	0.28	0.25	0.27
IN.	0.51	0.56	0.54	0.62	0.75	0.94	0.99	0.77	0.39	0.33	0.28	0.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)

MEAN	13.9	18.8	16.1	13.9	14.9	24.4	25.3	39.7	27.5	16.8	14.2	12.4
MAX	15.9	21.1	16.8	19.2	25.8	29.3	32.0	58.6	50.6	26.5	20.8	17.0
(WY)	(2005)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	11.9	17.4	14.6	11.1	9.45	14.7	18.9	24.1	12.6	10.2	8.85	9.73
(WY)	(2004)	(2003)	(2003)	(2004)	(2004)	(2003)	(2003)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2003 - 2005
ANNUAL TOTAL	9,139.4	6,750.3	
ANNUAL MEAN	25.0	18.5	21.7
HIGHEST ANNUAL MEAN			24.9 2004
LOWEST ANNUAL MEAN			18.5 2005
HIGHEST DAILY MEAN	113 May 25	76 Jan 13	113 May 25, 2004
LOWEST DAILY MEAN	8.8 Feb 16	8.2 (a)Aug 7	8.2 (a)Aug 7, 2005
ANNUAL SEVEN-DAY MINIMUM	8.9 Feb 13	8.3 Aug 5	8.3 Aug 5, 2005
MAXIMUM PEAK FLOW		92 Jan 13	117 May 25, 2004
MAXIMUM PEAK STAGE		13.30 Jan 13	13.48 May 25, 2004
ANNUAL RUNOFF (CFSM)	0.696	0.515	0.604
ANNUAL RUNOFF (INCHES)	9.47	6.99	8.21
10 PERCENT EXCEEDS	48	29	40
50 PERCENT EXCEEDS	19	16	17
90 PERCENT EXCEEDS	9.7	9.0	9.4

05426067 BARK RIVER AT NAGAWICKA ROAD AT DELAFIELD, WI—Continued

(a) Also occurred Aug. 9 and Sept. 6, 12
(e) Estimated

05426067 BARK RIVER AT NAGAWICKA ROAD AT DELAFIELD, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2002 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: November 2002 to October 2004 (discontinued).
TOTAL-PHOSPHORUS DISCHARGE: November 2002 to current year.

INSTRUMENTATION.--Refrigerated automatic pumping sampler since November 2002.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 312 mg/L, May 1, 2003; minimum observed, 5 mg/L, Oct. 2, 2003.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 57 tons, May 22, 2004; minimum daily, 0.13 ton, Oct. 9-11, 2003.
TOTAL PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.59 mg/L, May 1, 2003; minimum observed, <0.02 mg/L, Feb. 13, 2003.
TOTAL PHOSPHORUS DISCHARGE: Maximum daily, 109 lb, May 22-23, 2004; minimum daily, 0.80 lb, Feb. 25-27 and Mar. 6-8, 2003.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 76 mg/L, Oct. 23; minimum observed, 38 mg/L, Oct. 20.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 3.1 tons, Oct. 25; minimum daily, 1.2 tons, Oct. 1.
TOTAL PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.39 mg/L, Feb. 8; minimum observed, 0.02 mg/L, Jan. 26.
TOTAL PHOSPHORUS DISCHARGE: Maximum daily, 103 lb, Jan. 13; minimum daily, 1.30 lb, Jan. 28.

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	---	---	---	---	---	---	---	---	---	---	---
2	2.1	---	---	---	---	---	---	---	---	---	---	---
3	1.9	---	---	---	---	---	---	---	---	---	---	---
4	1.8	---	---	---	---	---	---	---	---	---	---	---
5	1.8	---	---	---	---	---	---	---	---	---	---	---
6	1.8	---	---	---	---	---	---	---	---	---	---	---
7	1.8	---	---	---	---	---	---	---	---	---	---	---
8	2.4	---	---	---	---	---	---	---	---	---	---	---
9	2.0	---	---	---	---	---	---	---	---	---	---	---
10	1.9	---	---	---	---	---	---	---	---	---	---	---
11	1.8	---	---	---	---	---	---	---	---	---	---	---
12	1.8	---	---	---	---	---	---	---	---	---	---	---
13	1.8	---	---	---	---	---	---	---	---	---	---	---
14	1.8	---	---	---	---	---	---	---	---	---	---	---
15	1.8	---	---	---	---	---	---	---	---	---	---	---
16	1.8	---	---	---	---	---	---	---	---	---	---	---
17	1.7	---	---	---	---	---	---	---	---	---	---	---
18	1.7	---	---	---	---	---	---	---	---	---	---	---
19	2.3	---	---	---	---	---	---	---	---	---	---	---
20	2.3	---	---	---	---	---	---	---	---	---	---	---
21	1.6	---	---	---	---	---	---	---	---	---	---	---
22	1.4	---	---	---	---	---	---	---	---	---	---	---
23	2.8	---	---	---	---	---	---	---	---	---	---	---
24	2.7	---	---	---	---	---	---	---	---	---	---	---
25	2.0	---	---	---	---	---	---	---	---	---	---	---
26	2.3	---	---	---	---	---	---	---	---	---	---	---
27	3.1	---	---	---	---	---	---	---	---	---	---	---
28	3.0	---	---	---	---	---	---	---	---	---	---	---
29	3.0	---	---	---	---	---	---	---	---	---	---	---
30	3.0	---	---	---	---	---	---	---	---	---	---	---
31	2.7	---	---	---	---	---	---	---	---	---	---	---
TOTAL	65.1	---	---	---	---	---	---	---	---	---	---	---

05426067 BARK RIVER AT NAGAWICKA ROAD AT DELAFIELD, WI—Continued

PHOSPHORUS, WATER, UNFILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.02	4.27	4.44	6.05	e1.60	e5.70	36.8	3.55	4.32	2.24	2.43	1.99
2	3.77	4.93	3.95	26.7	e1.60	e5.20	35.4	3.53	4.22	2.28	2.40	1.91
3	2.48	7.35	3.68	11.2	e1.60	e5.00	31.2	3.50	4.13	2.22	2.37	1.91
4	1.97	7.52	3.51	6.78	e1.60	e4.90	27.2	3.40	4.11	e2.70	2.37	1.95
5	1.73	6.62	3.39	4.02	e1.80	e4.80	24.3	3.35	4.06	e2.60	2.30	1.88
6	1.65	5.86	e5.40	e3.50	5.65	13.4	28.3	11.2	3.76	2.36	2.26	1.84
7	1.59	5.20	e13.4	e3.30	82.2	82.9	47.8	10.8	3.59	2.28	2.22	1.92
8	4.23	4.43	e13.0	e3.00	92.9	52.5	32.2	9.05	3.47	2.21	2.24	1.95
9	3.69	4.21	e11.7	e2.80	42.0	e22.0	25.9	e7.00	3.38	2.15	2.20	1.87
10	3.40	e3.70	e11.0	e2.60	e27.5	e14.7	21.0	6.90	3.37	2.06	2.23	1.85
11	3.27	4.00	e10.2	2.88	e20.0	e12.7	16.5	15.2	3.23	1.97	2.29	1.79
12	3.25	3.72	e7.50	33.1	15.4	e11.7	13.5	9.81	3.11	2.05	e2.70	1.71
13	3.15	3.51	3.30	103	14.8	10.4	10.9	13.6	3.05	2.11	2.40	2.25
14	3.12	3.30	e2.80	e48.0	73.6	10.1	8.82	10.6	2.91	2.03	2.32	2.63
15	3.21	3.22	e2.50	e21.0	74.4	9.33	7.29	9.30	2.84	2.00	2.26	2.22
16	3.23	3.15	e2.40	e7.90	49.1	8.86	6.11	8.07	2.86	1.97	2.20	2.05
17	3.07	3.04	e2.30	e4.40	e25.8	8.62	5.26	7.03	2.77	1.95	2.14	1.84
18	3.00	2.85	e2.30	e3.60	e17.7	8.94	4.45	6.33	2.75	1.91	e2.60	1.59
19	4.39	5.57	e2.30	e3.20	e14.2	9.57	3.84	e11.4	2.69	e1.90	e2.40	2.58
20	4.82	6.36	e2.40	e2.90	e11.4	9.42	e8.60	e9.50	2.62	e1.90	2.29	2.06
21	3.82	4.83	e2.30	e2.50	e9.30	10.0	4.07	e7.80	2.56	e3.00	2.13	2.01
22	3.21	4.29	e2.10	e2.10	e8.60	10.9	4.07	6.49	2.47	e2.70	2.09	6.45
23	5.62	3.79	e2.10	e1.90	e7.90	11.3	3.99	6.18	2.43	e3.00	2.10	2.32
24	6.46	3.46	e2.10	e1.90	e7.70	12.3	3.77	5.93	2.38	e3.00	2.09	1.73
25	6.10	3.08	e2.30	1.95	e7.30	19.2	3.65	5.58	e2.70	e2.30	2.07	4.27
26	6.23	2.83	e2.30	1.79	e6.80	17.4	3.69	5.34	e3.00	e3.70	2.04	4.72
27	6.99	6.38	e2.30	e1.40	e6.60	20.8	3.74	5.16	2.53	e2.70	e2.70	e2.70
28	5.83	7.36	e2.30	e1.30	e6.20	21.5	3.70	5.09	2.39	e2.70	2.40	2.68
29	4.97	5.60	e2.30	e1.40	---	34.4	3.61	4.96	2.34	2.68	2.26	2.41
30	4.18	4.79	2.60	e1.50	---	57.2	3.56	4.72	2.30	2.59	2.12	2.14
31	3.23	---	2.85	e1.60	---	53.5	---	4.48	---	2.52	2.05	---
TOTAL	117.68	139.22	137.02	319.27	635.25	579.24	433.22	224.85	92.34	73.78	70.67	71.22

WTR YR 2005 TOTAL 2,893.76

e Estimated

05426067 BARK RIVER AT NAGAWICKA ROAD AT DELAFIELD, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Discharge, cfs (00060)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT							
05...	0940	--	14	10	.008	.023	49
20...	0030	--	20	50	--	.051	64
20...	1130	--	18	50	--	.046	38
23...	1530	--	19	50	--	.071	76
25...	1015	--	18	50	--	.065	42
27...	0245	--	21	50	--	.079	66
29...	0915	--	16	50	--	.057	67
NOV							
03...	1000	--	18	10	--	.034	57
03...	1700	--	31	50	--	.10	--
28...	2245	--	25	50	--	.07	--
DEC							
15...	1030	16	--	10	--	E.03	--
JAN							
02...	0530	--	38	50	--	.24	--
02...	0930	--	34	50	--	.20	--
02...	1730	--	26	50	--	.13	--
12...	1815	--	44	50	--	.23	--
12...	1915	--	64	50	--	.31	--
12...	2115	--	82	50	--	.31	--
13...	0515	--	89	50	--	.31	--
13...	1715	--	70	50	--	.19	--
14...	0515	40	--	50	--	.25	--
15...	0115	28	--	50	--	.18	--
15...	2115	28	--	50	--	.11	--
26...	0920	--	16	10	--	E.02	--
FEB							
07...	0015	--	31	50	--	.17	--
07...	0815	--	47	50	--	.34	--
07...	1615	--	57	50	--	.31	--
08...	0015	--	58	50	--	.34	--
08...	0815	--	51	50	--	.39	--
08...	1615	--	42	50	--	.39	--
09...	0815	--	30	50	--	.24	--
10...	0415	25	--	50	--	.22	--
13...	2330	--	31	50	--	.15	--
14...	0330	--	46	10	--	.21	--
14...	0730	--	54	50	--	.32	--
14...	1530	--	56	50	--	.24	--
14...	2330	--	57	50	--	.28	--
15...	1130	--	52	50	--	.26	--
15...	2330	--	46	50	--	.28	--
16...	1530	--	38	50	--	.21	--
17...	1300	28	--	50	--	.17	--
19...	0315	24	--	50	--	.11	--
19...	2315	24	--	50	--	.11	--
20...	2045	23	--	50	--	.08	--
MAR							
06...	1630	--	28	50	--	.12	--
07...	0430	--	52	50	--	.28	--
07...	1230	--	63	50	--	.29	--
07...	2030	--	65	50	--	.24	--
17...	0950	--	23	10	--	.07	--
27...	1245	--	32	50	--	.13	--
27...	2100	--	36	50	--	.10	--
28...	1300	--	36	50	--	.10	--
28...	2100	--	42	50	--	.12	--
30...	2100	--	62	50	--	.22	--
31...	0530	--	67	50	--	.17	--
31...	1730	--	65	50	--	.13	--
APR							
19...	0930	--	24	10	--	E.03	--
MAY							
11...	0815	--	44	50	--	.13	--
11...	1215	--	39	50	--	.09	--
25...	0845	--	21	10	--	.05	--
JUL							
07...	1015	--	11	10	--	E.04	--
19...	1215	--	20	50	--	.14	--
21...	1500	--	20	50	--	.11	--
AUG							
10...	0935	--	8.2	10	--	.05	--

05426067 BARK RIVER AT NAGAWICKA ROAD AT DELAFIELD, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Phosphorus, water, unfltrd mg/L (00665)
SEP				
12...	0950	8.2	10	.04
13...	2145	13	50	.11
19...	1045	13	50	.07
22...	0615	21	50	.17
22...	1015	16	50	.09
22...	1415	14	50	.07
22...	2215	12	50	.07
23...	0615	11	50	.04
23...	1815	11	50	E.03
25...	1330	14	50	.042
25...	1730	18	50	.07
25...	2130	20	50	.09
26...	0130	18	50	.10
26...	0530	14	50	.07
26...	1330	13	50	.05
27...	0130	11	50	.05

05426070 BARK RIVER AT DELAFIELD, WI

LOCATION.--Lat 43°03'46" long 88°24'09", in SW $^1/_4$ SW $^1/_4$ sec.17, T.7 N., R.18 E., Waukesha County, Hydrologic Unit 07090001, on right bank about 200 ft downstream from dam and 140 ft upstream from County Highway C in Delafield.

DRAINAGE AREA.--44.9 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 2002 to current year.

GAGE.--Water-stage recorder.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	34	29	16	23	34	63	7.4	11	2.7	5.1	2.5
2	3.5	34	29	17	23	34	44	6.7	9.6	2.5	2.3	2.5
3	3.5	34	29	35	23	34	46	6.5	9.2	2.5	2.2	2.5
4	7.0	34	29	46	23	34	56	6.2	9.1	2.6	2.1	2.5
5	11	34	28	36	23	34	61	13	8.9	2.7	2.2	2.5
6	10	34	28	22	23	34	61	19	9.0	2.4	2.2	2.5
7	10	34	29	22	24	34	62	38	9.4	2.3	2.2	2.5
8	9.9	34	29	22	26	35	48	29	9.7	2.3	2.2	2.5
9	8.9	24	29	22	27	35	40	18	9.8	2.4	2.2	2.4
10	8.6	20	28	22	27	35	40	19	15	2.5	2.3	2.4
11	8.1	20	28	22	27	35	40	58	17	2.4	2.4	2.4
12	7.2	20	23	23	27	35	40	70	11	2.4	2.3	2.4
13	6.5	20	17	26	27	35	40	42	8.3	2.1	2.3	2.5
14	5.9	20	16	27	51	34	39	13	8.3	2.3	2.3	2.6
15	5.8	20	16	27	85	34	39	12	8.4	2.4	2.2	2.6
16	6.0	20	16	27	73	34	39	12	7.7	2.4	2.1	2.5
17	6.1	20	16	27	53	34	21	16	7.0	2.4	2.2	2.5
18	6.0	20	16	27	52	34	11	17	6.7	2.4	2.2	2.4
19	5.7	20	16	26	51	34	11	46	6.8	2.4	2.3	2.4
20	15	20	16	26	51	34	14	58	4.1	2.5	2.3	2.5
21	22	20	15	26	50	34	12	47	2.7	6.1	2.4	2.5
22	21	20	15	26	45	35	12	13	2.2	13	2.3	2.5
23	21	20	15	26	36	35	12	13	2.0	13	2.1	2.6
24	21	21	15	26	36	34	12	12	2.1	21	2.1	2.3
25	40	20	15	25	35	35	8.9	12	2.1	23	2.2	13
26	54	20	15	25	35	35	7.9	12	2.0	24	2.3	22
27	54	20	15	24	35	35	7.6	12	2.0	19	2.4	21
28	40	26	15	24	35	36	7.4	11	3.0	9.5	2.5	21
29	34	30	15	24	---	36	7.7	11	2.9	9.5	2.6	17
30	34	30	15	24	---	72	7.7	11	2.8	9.4	2.5	7.0
31	34	---	16	24	---	90	---	12	---	9.4	2.4	---
TOTAL	523.4	743	633	792	1,046	1,163	910.2	672.8	209.8	205.5	73.4	160.5
MEAN	16.9	24.8	20.4	25.5	37.4	37.5	30.3	21.7	6.99	6.63	2.37	5.35
MAX	54	34	29	46	85	90	63	70	17	24	5.1	22
MIN	3.5	20	15	16	23	34	7.4	6.2	2.0	2.1	2.1	2.3
CFSM	0.38	0.55	0.45	0.57	0.83	0.84	0.68	0.48	0.16	0.15	0.05	0.12
IN.	0.43	0.62	0.52	0.66	0.87	0.96	0.75	0.56	0.17	0.17	0.06	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)

MEAN	11.2	29.0	18.1	18.5	20.6	26.0	23.1	44.5	27.2	15.9	12.5	8.14
MAX	16.9	38.8	20.4	25.5	37.4	37.5	30.3	74.4	59.5	30.8	24.9	15.0
(WY)	(2005)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	5.53	23.5	15.9	14.0	10.7	13.0	13.2	21.7	6.99	6.63	2.37	4.09
(WY)	(2004)	(2003)	(2004)	(2004)	(2003)	(2003)	(2003)	(2005)	(2005)	(2005)	(2005)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003 - 2005	
ANNUAL TOTAL	10,620.4		7,132.6			
ANNUAL MEAN	29.0		19.5		24.2	
HIGHEST ANNUAL MEAN					28.8	2004
LOWEST ANNUAL MEAN					19.5	2005
HIGHEST DAILY MEAN	123	May 24	90	Mar 31	123	May 24, 2004
LOWEST DAILY MEAN	2.1	Sep 25	2.0	(a)Jun 23	1.8	Jun 28, 2003
ANNUAL SEVEN-DAY MINIMUM	3.4	Sep 23	2.2	Jun 21	2.1	Sep 5, 2003
MAXIMUM PEAK FLOW			93	Mar 30	126	Nov 4, 2003
MAXIMUM PEAK STAGE			3.28	Mar 30	3.70	Nov 4, 2003
ANNUAL RUNOFF (CFSM)	0.646		0.435		0.539	
ANNUAL RUNOFF (INCHES)	8.80		5.91		7.32	
10 PERCENT EXCEEDS	62		39		51	
50 PERCENT EXCEEDS	20		16		17	
90 PERCENT EXCEEDS	13		2.4		2.5	

05426070 BARK RIVER AT DELAFIELD, WI—Continued

(a) Also occurred Jun. 26, 27

05426070 BARK RIVER AT DELAFIELD, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2002 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: November 2002 to September 2005 (discontinued).
TOTAL-PHOSPHORUS DISCHARGE: November 2002 to current year.

REMARKS.--Records good. Samples collected using equal-width increment method (EWI) unless otherwise noted.

EXTREMES FOR PERIOD OF RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 46 mg/L, Mar. 13, 2003; minimum observed, 1 mg/L, Mar. 5, 2004, Oct. 5, 2004, Jan. 26, 2005, and Aug. 10, 2005.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 8.0 tons, Mar. 16, 2003; minimum daily, 0.00 ton, on Aug. 2-19, 2005.
TOTAL PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.053 mg/L, Sept. 3, 2004; minimum observed, 0.006 mg/L, Dec. 18, 2004.
TOTAL PHOSPHORUS DISCHARGE: Maximum daily, 16.1 lb, May 24, 2004; minimum daily, 0.12 lb, May 12, 2003.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 24 mg/L, Apr. 19 and May 25; minimum observed, 1 mg/L, Oct. 5, 2004, Jan. 26, 2005, and Aug. 10.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 4.5 tons, May 12; minimum daily, 0.00 ton, Aug. 2-19.
TOTAL PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.021 mg/L, Mar. 17 and Sept. 12; minimum observed, 0.008 mg/L, Jan. 26.
TOTAL PHOSPHORUS DISCHARGE: Maximum daily, 9.49 lb, Mar. 31; minimum daily, 0.19 lb, Jun. 23, 26, 27.

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.08	0.65	0.38	0.10	0.07	0.20	0.88	0.48	0.48	0.03	0.02	0.02
2	0.04	0.65	0.38	0.10	0.07	0.20	0.83	0.43	0.38	0.02	0.00	0.02
3	0.03	0.64	0.37	0.20	0.07	0.20	1.1	0.42	0.35	0.02	0.00	0.02
4	0.03	0.64	0.36	0.26	0.08	0.21	1.8	0.40	0.32	0.02	0.00	0.02
5	0.03	0.62	0.35	0.20	0.08	0.21	2.1	0.83	0.30	0.02	0.00	0.02
6	0.03	0.61	0.34	0.12	0.08	0.22	2.2	1.2	0.28	0.02	0.00	0.03
7	0.03	0.60	0.34	0.11	0.08	0.22	2.3	2.5	0.28	0.02	0.00	0.03
8	0.03	0.59	0.34	0.11	0.09	0.23	1.8	1.9	0.27	0.02	0.00	0.03
9	0.02	0.42	0.34	0.11	0.10	0.24	1.6	1.2	0.26	0.02	0.00	0.03
10	0.02	0.35	0.33	0.10	0.10	0.24	1.7	1.2	0.36	0.02	0.00	0.03
11	0.02	0.35	0.32	0.10	0.10	0.25	1.8	3.7	0.39	0.02	0.00	0.03
12	0.02	0.34	0.26	0.10	0.10	0.25	1.9	4.5	0.24	0.02	0.00	0.03
13	0.02	0.33	0.19	0.11	0.11	0.26	2.0	2.8	0.17	0.01	0.00	0.03
14	0.02	0.32	0.18	0.11	0.21	0.26	2.0	0.87	0.16	0.02	0.00	0.03
15	0.02	0.32	0.17	0.11	0.36	0.27	2.1	0.80	0.15	0.02	0.00	0.03
16	0.02	0.31	0.17	0.10	0.31	0.27	2.2	0.80	0.13	0.01	0.00	0.03
17	0.02	0.31	0.16	0.10	0.23	0.27	1.3	1.0	0.11	0.01	0.00	0.03
18	0.02	0.31	0.16	0.09	0.23	0.28	0.71	1.1	0.10	0.01	0.00	0.03
19	0.02	0.31	0.15	0.09	0.23	0.28	0.71	3.0	0.10	0.01	0.00	0.03
20	0.04	0.30	0.14	0.09	0.24	0.28	0.88	3.8	0.06	0.01	0.01	0.03
21	0.09	0.30	0.14	0.08	0.24	0.28	0.77	3.1	0.04	0.03	0.01	0.02
22	0.12	0.30	0.13	0.08	0.22	0.28	0.77	0.86	0.03	0.06	0.01	0.02
23	0.18	0.29	0.13	0.08	0.18	0.28	0.75	0.83	0.03	0.06	0.01	0.02
24	0.27	0.29	0.12	0.07	0.18	0.28	0.75	0.78	0.02	0.10	0.01	0.02
25	0.73	0.28	0.12	0.07	0.19	0.28	0.58	0.77	0.02	0.10	0.01	0.11
26	1.0	0.28	0.12	0.07	0.19	0.28	0.51	0.76	0.02	0.10	0.01	0.19
27	1.0	0.28	0.11	0.07	0.19	0.29	0.49	0.66	0.02	0.08	0.01	0.17
28	0.76	0.36	0.11	0.07	0.19	0.29	0.48	0.60	0.03	0.04	0.02	0.15
29	0.65	0.40	0.10	0.07	---	0.29	0.50	0.57	0.03	0.04	0.02	0.11
30	0.65	0.39	0.10	0.07	---	0.63	0.50	0.54	0.03	0.04	0.02	0.04
31	0.65	---	0.10	0.07	---	1.0	---	0.52	---	0.03	0.02	---
TOTAL	6.66	12.14	6.71	3.21	4.52	9.02	38.01	42.92	5.16	1.03	0.18	1.40

WTR YR 2005 TOTAL 130.96

05426070 BARK RIVER AT DELAFIELD, WI—Continued

PHOSPHORUS, WATER, UNFILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.28	2.25	2.01	0.90	1.09	2.66	6.58	0.62	0.96	0.27	0.54	0.27
2	0.26	2.24	2.00	0.95	1.09	2.72	4.59	0.56	0.81	0.25	0.25	0.28
3	0.26	2.21	2.00	1.99	1.10	2.77	4.71	0.55	0.78	0.25	0.24	0.28
4	0.53	2.22	1.98	2.59	1.09	2.83	5.78	0.52	0.78	0.27	0.23	0.28
5	0.81	2.21	1.95	1.99	1.10	2.89	6.19	1.08	0.77	0.27	0.24	0.28
6	0.78	2.20	1.95	1.22	1.12	2.97	6.12	1.60	0.78	0.25	0.24	0.28
7	0.76	2.20	1.98	1.20	1.19	3.07	6.14	3.18	0.82	0.23	0.24	0.29
8	0.74	2.19	1.99	1.19	1.29	3.21	4.68	2.40	0.85	0.24	0.23	0.28
9	0.66	1.57	1.99	1.17	1.35	3.27	3.84	1.54	0.86	0.25	0.24	0.28
10	0.63	1.33	1.97	1.15	1.37	3.35	3.83	1.56	1.29	0.26	0.25	0.27
11	0.60	1.35	1.93	1.14	1.39	3.43	3.82	4.80	1.51	0.24	0.26	0.27
12	0.53	1.33	1.62	1.16	1.41	3.52	3.78	5.77	0.99	0.24	0.25	0.27
13	0.47	1.33	1.18	1.32	1.43	3.59	3.69	3.52	0.75	0.22	0.25	0.27
14	0.43	1.31	1.15	1.36	2.76	3.64	3.57	1.11	0.75	0.24	0.25	0.28
15	0.42	1.31	1.14	1.33	4.70	3.71	3.51	1.02	0.77	0.25	0.24	0.28
16	0.43	1.31	1.12	1.33	4.09	3.78	3.45	1.02	0.71	0.25	0.23	0.26
17	0.43	1.31	1.10	1.29	3.07	3.82	1.90	1.29	0.64	0.25	0.24	0.26
18	0.43	1.33	1.09	1.26	3.07	3.86	1.00	1.39	0.62	0.25	0.24	0.24
19	0.40	1.35	1.06	1.23	3.11	3.85	0.95	3.80	0.63	0.25	0.25	0.23
20	1.02	1.35	1.04	1.21	3.18	3.83	1.17	4.78	0.38	0.26	0.26	0.23
21	1.51	1.35	1.01	1.18	3.21	3.80	1.03	3.86	0.25	0.63	0.26	0.23
22	1.42	1.35	0.98	1.20	2.91	3.84	1.02	1.08	0.21	1.32	0.25	0.23
23	1.43	1.36	0.97	1.16	2.38	3.82	0.99	1.04	0.19	1.34	0.24	0.23
24	1.42	1.39	0.95	1.13	2.43	3.75	0.99	0.98	0.20	2.17	0.24	0.20
25	2.69	1.36	0.94	1.10	2.48	3.79	0.76	0.98	0.21	2.43	0.25	1.10
26	3.67	1.36	0.95	1.08	2.52	3.78	0.67	1.01	0.19	2.48	0.26	1.83
27	3.60	1.38	0.94	1.06	2.57	3.81	0.65	0.95	0.19	2.02	0.26	1.71
28	2.70	1.79	0.93	1.06	2.62	3.81	0.63	0.92	0.29	1.01	0.28	1.74
29	2.28	2.03	0.92	1.06	---	3.80	0.65	0.93	0.28	1.01	0.28	1.35
30	2.27	2.03	0.91	1.08	---	7.61	0.65	0.95	0.27	1.00	0.27	0.56
31	2.26	---	0.92	1.08	---	9.49	---	0.97	---	1.00	0.27	---
TOTAL	36.12	49.30	42.67	39.17	61.12	118.07	87.34	55.78	18.73	21.40	8.03	14.56

WTR YR 2005 TOTAL 552.29

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT						
05...	1215	11	10	<.002	.014	1
NOV						
03...	1215	34	10	--	.012	7
DEC						
15...	1140	16	10	--	.013	4
JAN						
26...	1045	25	10	--	.008	1
MAR						
17...	1200	34	10	--	.021	3
APR						
04...	1435	62	10	--	.019	12
19...	1035	11	10	--	.016	24
MAY						
25...	1020	12	10	--	.015	24
JUL						
07...	1130	2.3	10	--	.019	3
AUG						
10...	1110	2.3	10	--	.020	1
SEP						
12...	1050	2.3	10	--	.021	5
27...	1115	21	10	--	.015	3

430347088240800 NAGAWICKA LAKE AT DELAFIELD, WI

LOCATION.--Lat 43°03'47", long 88°24'08", in SW ¼ SW ¼ sec.17, T.7 N., R.18 E., Waukesha County, Hydrologic Unit 07090001, on dike of Nagawicka Lake dam about 120 ft west of gates in Delafield.

DRAINAGE AREA.--44.9 mi^2. Area of Nagawicka Lake, 917 acres.

GAGE-HEIGHT RECORD

PERIOD OF RECORD.--October 2002 to November 2004 (discontinued).

GAGE.--Water-stage recorder.

REMARKS.--Gage established Oct. 29, 2002. Lake levels controlled by city of Delafield.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.40 ft, Oct. 18, 19; minimum gage height, 7.88 ft, Nov. 10, 15.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.24	8.10	---	---	---	---	---	---	---	---	---	---
2	8.27	8.09	---	---	---	---	---	---	---	---	---	---
3	8.26	8.08	---	---	---	---	---	---	---	---	---	---
4	8.28	8.08	---	---	---	---	---	---	---	---	---	---
5	8.26	8.03	---	---	---	---	---	---	---	---	---	---
6	8.24	8.01	---	---	---	---	---	---	---	---	---	---
7	8.25	7.99	---	---	---	---	---	---	---	---	---	---
8	8.28	7.95	---	---	---	---	---	---	---	---	---	---
9	8.30	7.92	---	---	---	---	---	---	---	---	---	---
10	8.31	7.90	---	---	---	---	---	---	---	---	---	---
11	8.31	7.94	---	---	---	---	---	---	---	---	---	---
12	8.32	7.91	---	---	---	---	---	---	---	---	---	---
13	8.31	7.90	---	---	---	---	---	---	---	---	---	---
14	8.32	7.90	---	---	---	---	---	---	---	---	---	---
15	8.33	7.89	---	---	---	---	---	---	---	---	---	---
16	8.33	7.90	---	---	---	---	---	---	---	---	---	---
17	8.34	7.90	---	---	---	---	---	---	---	---	---	---
18	8.37	7.91	---	---	---	---	---	---	---	---	---	---
19	8.38	7.94	---	---	---	---	---	---	---	---	---	---
20	8.38	7.95	---	---	---	---	---	---	---	---	---	---
21	8.37	7.95	---	---	---	---	---	---	---	---	---	---
22	8.36	7.95	---	---	---	---	---	---	---	---	---	---
23	8.37	7.95	---	---	---	---	---	---	---	---	---	---
24	8.38	7.96	---	---	---	---	---	---	---	---	---	---
25	8.36	7.92	---	---	---	---	---	---	---	---	---	---
26	8.32	7.93	---	---	---	---	---	---	---	---	---	---
27	8.24	7.95	---	---	---	---	---	---	---	---	---	---
28	8.18	7.97	---	---	---	---	---	---	---	---	---	---
29	8.14	7.97	---	---	---	---	---	---	---	---	---	---
30	8.10	7.95	---	---	---	---	---	---	---	---	---	---
31	8.09	---	---	---	---	---	---	---	---	---	---	---
MEAN	8.29	7.96	---	---	---	---	---	---	---	---	---	---
MAX	8.38	8.10	---	---	---	---	---	---	---	---	---	---
MIN	8.09	7.89	---	---	---	---	---	---	---	---	---	---

430347088240800 NAGAWICKA LAKE AT DELAFIELD, WI—Continued

PRECIPITATION QUANTITY

PERIOD OF RECORD.-October 2002 to November 2004 (non-frozen precipitation); (discontinued).

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Gage established October 29, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 0.67 in., Nov. 27.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.40	0.44	---	---	---	---	---	---	---	---	---	---
2	0.00	0.16	---	---	---	---	---	---	---	---	---	---
3	0.00	0.00	---	---	---	---	---	---	---	---	---	---
4	0.00	0.26	---	---	---	---	---	---	---	---	---	---
5	0.00	0.00	---	---	---	---	---	---	---	---	---	---
6	0.00	0.00	---	---	---	---	---	---	---	---	---	---
7	0.00	0.00	---	---	---	---	---	---	---	---	---	---
8	0.46	0.00	---	---	---	---	---	---	---	---	---	---
9	0.00	0.00	---	---	---	---	---	---	---	---	---	---
10	0.00	0.07	---	---	---	---	---	---	---	---	---	---
11	0.00	0.03	---	---	---	---	---	---	---	---	---	---
12	0.00	0.00	---	---	---	---	---	---	---	---	---	---
13	0.00	0.00	---	---	---	---	---	---	---	---	---	---
14	0.01	0.00	---	---	---	---	---	---	---	---	---	---
15	0.24	0.07	---	---	---	---	---	---	---	---	---	---
16	0.09	0.03	---	---	---	---	---	---	---	---	---	---
17	0.00	0.00	---	---	---	---	---	---	---	---	---	---
18	0.03	0.03	---	---	---	---	---	---	---	---	---	---
19	0.06	0.41	---	---	---	---	---	---	---	---	---	---
20	0.00	0.00	---	---	---	---	---	---	---	---	---	---
21	0.00	0.00	---	---	---	---	---	---	---	---	---	---
22	0.04	0.00	---	---	---	---	---	---	---	---	---	---
23	0.44	0.00	---	---	---	---	---	---	---	---	---	---
24	0.00	0.00	---	---	---	---	---	---	---	---	---	---
25	0.00	0.00	---	---	---	---	---	---	---	---	---	---
26	0.12	0.06	---	---	---	---	---	---	---	---	---	---
27	0.00	0.67	---	---	---	---	---	---	---	---	---	---
28	0.00	0.00	---	---	---	---	---	---	---	---	---	---
29	0.03	0.00	---	---	---	---	---	---	---	---	---	---
30	0.12	0.00	---	---	---	---	---	---	---	---	---	---
31	0.00	---	---	---	---	---	---	---	---	---	---	---
TOTAL	2.04	2.23	---	---	---	---	---	---	---	---	---	---

05426250 BARK RIVER NEAR ROME, WI

LOCATION.--Lat 42°57'37" long 88°40'14", in SE $^1/_4$ SW $^1/_4$ sec.24, T.6 N., R.15 E., Jefferson County, Hydrologic Unit 07090001, on left bank just upstream from bridge on Cushman Road, 2.8 mi southwest of Rome.

DRAINAGE AREA.--122 mi^2.

PERIOD OF RECORD.--October 1979 to September 1982. October 1982 to September 1983 (fragmentary). October 1983 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 810 ft above NGVD of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	60	64	49	69	e98	196	63	30	21	32	14
2	28	61	63	70	68	e96	195	64	44	16	26	13
3	27	64	62	71	69	e92	186	64	47	17	27	13
4	27	71	63	69	69	e91	181	67	47	20	26	15
5	26	66	63	e52	70	89	180	66	48	24	22	14
6	25	67	68	e51	88	103	178	73	42	33	22	12
7	26	66	77	e49	132	126	185	85	41	28	21	14
8	30	64	88	e47	139	138	179	79	39	16	19	14
9	28	64	98	e47	138	127	171	63	35	18	16	12
10	29	63	93	e47	e120	116	163	79	30	21	14	12
11	30	61	87	e47	e110	e100	156	94	36	18	14	12
12	30	60	83	e60	e100	e99	143	101	40	19	14	11
13	31	58	e64	e100	e110	e98	131	113	31	19	14	11
14	30	58	e63	e93	164	e95	122	105	16	24	14	10
15	29	58	e62	e90	177	93	107	100	16	29	16	10
16	28	58	e61	e83	e170	93	91	104	19	20	16	10
17	27	59	e59	e80	e160	93	93	99	26	19	15	10
18	38	58	e57	e77	e140	96	92	93	26	21	20	9.9
19	46	60	e52	e75	145	117	91	97	25	16	32	10
20	35	61	e49	e73	141	123	94	97	25	20	25	9.7
21	33	61	e46	e70	138	130	93	86	24	23	21	9.5
22	34	61	e44	e72	131	133	91	85	24	27	19	11
23	37	58	e40	e72	e130	130	87	85	22	37	17	10
24	34	57	e38	e73	e120	125	84	86	16	44	16	11
25	37	56	e35	e73	e110	128	85	80	16	44	16	13
26	39	56	e36	e72	e110	129	79	72	20	57	16	15
27	40	61	e37	e71	e100	132	72	68	21	60	17	13
28	42	61	e39	e70	e98	135	72	64	22	50	21	16
29	46	66	e38	e69	---	146	68	62	25	36	16	15
30	48	65	e43	71	---	158	63	59	23	30	15	19
31	51	---	50	69	---	167	---	42	---	40	14	---
TOTAL	1,038	1,839	1,822	2,112	3,316	3,596	3,728	2,495	876	867	593	369.1
MEAN	33.5	61.3	58.8	68.1	118	116	124	80.5	29.2	28.0	19.1	12.3
MAX	51	71	98	100	177	167	196	113	48	60	32	19
MIN	25	56	35	47	68	89	63	42	16	16	14	9.5
CFSM	0.27	0.50	0.48	0.56	0.97	0.95	1.02	0.66	0.24	0.23	0.16	0.10
IN.	0.32	0.56	0.56	0.64	1.01	1.10	1.14	0.76	0.27	0.26	0.18	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)

MEAN	68.1	88.6	78.3	65.1	81.1	123	143	114	85.4	64.5	63.5	65.2
MAX	214	214	138	105	137	248	327	199	231	176	127	212
(WY)	(1987)	(1986)	(1986)	(1985)	(1999)	(1986)	(1993)	(2004)	(2004)	(1993)	(1995)	(1986)
MIN	23.6	47.6	34.2	34.2	25.9	35.0	56.1	48.1	13.3	7.66	6.04	12.3
(WY)	(1989)	(2000)	(1990)	(2003)	(2003)	(2003)	(2003)	(1989)	(1988)	(1988)	(1988)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1980 - 2005	
ANNUAL TOTAL	33,847		22,651.1			
ANNUAL MEAN	92.5		62.1		87.0	
HIGHEST ANNUAL MEAN					139	1993
LOWEST ANNUAL MEAN					46.2	2003
HIGHEST DAILY MEAN	387	May 23	196	Apr 1	459	Apr 20, 1993
LOWEST DAILY MEAN	25	Oct 6	9.5	Sep 21	3.6	Aug 4, 1988
ANNUAL SEVEN-DAY MINIMUM	27	Oct 1	9.9	Sep 15	3.8	Aug 1, 1988
MAXIMUM PEAK FLOW			205	Apr 2	476	Apr 20, 1993
MAXIMUM PEAK STAGE			1.64	Apr 2	2.56	Apr 20, 1993
ANNUAL RUNOFF (CFSM)	0.758		0.509		0.713	
ANNUAL RUNOFF (INCHES)	10.32		6.91		9.69	
10 PERCENT EXCEEDS	205		128		159	
50 PERCENT EXCEEDS	66		58		75	
90 PERCENT EXCEEDS	34		16		30	

(e) Estimated

05427085 ROCK RIVER AT ROBERT STREET AT FORT ATKINSON, WI

LOCATION.--Lat 42°55'39", long 88°50'34", in SW $^1/_4$ NE $^1/_4$ sec.4, T.5 N., R.14 E., Jefferson County, Hydrologic Unit 07090001, on upstream center of Robert Street bridge at Fort Atkinson.

DRAINAGE AREA.--2,240 mi^2.

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder and Accoustical Velocity Meter (AVM) system. Single-path transducer installation. Datum of gage is 775.09 ft above NGVD of 1929 (levels by the City of Fort Atkinson).

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	356	735	1,000	e760	e830	2,400	3,410	839	707	262	339	178
2	402	757	1,020	e900	e830	2,320	3,430	870	547	215	332	199
3	380	777	1,000	e980	e790	2,190	3,400	837	539	216	277	154
4	443	771	963	e980	e760	2,080	3,380	759	524	261	269	158
5	409	793	984	e1,000	e820	1,970	3,310	731	547	324	266	151
6	407	823	962	e1,200	e1,000	2,020	3,320	751	609	281	259	163
7	396	863	1,050	e1,100	e1,600	2,700	3,400	783	583	259	246	153
8	463	872	1,230	e900	e2,600	2,950	3,360	779	549	283	233	135
9	499	828	1,320	e880	e3,300	3,000	3,310	745	528	255	239	108
10	466	837	1,510	e860	e3,500	2,940	3,280	758	508	231	135	115
11	457	897	1,580	e840	e3,700	2,810	3,180	968	481	201	151	115
12	465	842	1,430	e990	3,600	2,680	3,030	1,060	462	227	155	99
13	482	820	1,530	e1,200	2,740	2,580	2,930	1,090	458	227	173	114
14	511	814	983	e1,300	3,100	2,600	2,750	1,230	415	235	177	73
15	458	790	1,080	e1,400	3,560	2,540	2,530	1,400	426	189	195	90
16	469	787	e1,020	e1,500	3,760	2,520	2,330	1,410	386	194	132	73
17	508	781	e1,020	e1,600	3,770	2,500	2,160	1,360	341	202	196	95
18	487	748	e1,000	e1,500	3,520	2,360	1,810	1,280	332	173	253	100
19	491	723	e930	e1,600	3,370	2,400	1,750	1,290	308	225	286	100
20	504	731	e850	e1,500	3,150	2,550	1,840	1,430	308	215	254	114
21	506	765	e860	e1,500	3,080	2,740	1,730	1,470	295	318	256	105
22	455	755	e830	e1,700	2,920	2,920	1,670	1,500	262	386	204	122
23	463	798	e800	e1,600	2,890	3,060	1,680	1,520	251	351	185	121
24	596	832	e790	e1,500	2,890	3,060	1,590	1,450	228	410	169	145
25	577	783	e750	e1,300	2,780	3,080	1,240	1,340	215	529	152	165
26	601	771	e680	e1,200	2,710	3,030	1,140	1,230	310	715	185	233
27	645	799	e680	e1,100	2,630	3,040	1,310	1,110	305	748	217	276
28	639	928	e670	e970	2,520	3,090	1,320	968	300	605	245	265
29	614	938	e660	e900	---	3,140	934	921	264	516	222	307
30	563	974	e660	e870	---	3,200	807	865	224	436	183	307
31	729	---	e700	e820	---	3,300	---	837	---	367	201	---
TOTAL	15,441	24,332	30,542	36,450	72,720	83,770	71,331	33,581	12,212	10,056	6,786	4,533
MEAN	498	811	985	1,176	2,597	2,702	2,378	1,083	407	324	219	151
MAX	729	974	1,580	1,700	3,770	3,300	3,430	1,520	707	748	339	307
MIN	356	723	660	760	760	1,970	807	731	215	173	132	73
CFSM	0.22	0.36	0.44	0.52	1.16	1.21	1.06	0.48	0.18	0.14	0.10	0.07
IN.	0.26	0.40	0.51	0.61	1.21	1.39	1.18	0.56	0.20	0.17	0.11	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	685	940	912	751	1,476	2,208	2,363	2,586	3,186	1,320	766	591
MAX	1,418	1,408	1,427	1,176	2,597	3,275	3,590	3,839	8,530	4,019	1,960	1,548
(WY)	(2002)	(2002)	(2002)	(2005)	(2005)	(2004)	(2001)	(2004)	(2004)	(2004)	(1999)	(2001)
MIN	223	565	446	299	250	581	928	1,083	407	324	219	151
(WY)	(2004)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	831,348		401,754			
ANNUAL MEAN	2,271		1,101		1,479	
HIGHEST ANNUAL MEAN					2,294	2004
LOWEST ANNUAL MEAN					630	2003
HIGHEST DAILY MEAN	9,380	Jun 4	3,770	Feb 17	9,380	Jun 4, 2004
LOWEST DAILY MEAN	356	Oct 1	73	Sep 14, 16	73	(a)Sep 14, 2005
ANNUAL SEVEN-DAY MINIMUM	381	Sep 27	92	Sep 12	92	Sep 12, 2005
ANNUAL RUNOFF (CFSM)	1.01		0.491		0.660	
ANNUAL RUNOFF (INCHES)	13.81		6.67		8.97	
10 PERCENT EXCEEDS	7,290		2,930		3,180	
50 PERCENT EXCEEDS	1,000		790		960	
90 PERCENT EXCEEDS	456		187		306	

(a) Also occurred Sept. 16, 2005
(e) Estimated

05427235 LAKE KOSHKONONG NEAR NEWVILLE, WI

LOCATION.--Lat 42°51'27", long 88°56'27", in NW $^1/_4$ NE $^1/_4$ sec.34, T.5 N., R.13 E., Jefferson County, Hydrologic Unit 07090001, 80 ft east of Pottawatomi Trail Bridge at Bingham Point Estates, and 4.5 mi northeast of Newville.

DRAINAGE AREA.--2,560 mi^2, at lake outlet. Area of Lake Koshkonong, 16.3 mi^2.

PERIOD OF RECORD.--July 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 770.00 ft above NGVD of 1929 (Wisconsin Department of Transportation bench mark).

REMARKS.--Lake level regulated by dam at Indianford. Gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded gage height, 12.23 ft, Apr. 25, 1993; minimum recorded, 5.10 ft, Dec. 28, 29, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 8.18 ft, Apr. 6; minimum recorded gage height, 5.20 ft, Feb. 3.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.26	6.07	5.69	5.74	5.30	7.58	7.99	6.29	6.24	6.18	6.20	6.14
2	6.32	6.10	5.67	5.79	5.25	7.50	8.04	6.28	6.22	6.14	6.20	6.13
3	6.30	6.07	5.63	5.69	5.22	7.42	8.06	6.25	6.19	6.12	6.21	6.11
4	6.32	6.11	5.61	5.64	5.27	7.33	8.07	6.22	6.18	6.16	6.25	6.10
5	6.26	6.08	5.57	5.61	5.33	7.24	8.08	6.19	6.28	6.22	6.23	6.09
6	6.24	6.08	5.58	5.60	5.42	7.17	8.08	6.21	6.22	6.23	6.21	6.09
7	6.21	6.11	5.64	5.57	5.64	7.24	8.10	6.25	6.14	6.22	6.20	6.09
8	6.26	6.07	5.66	5.58	5.94	7.34	8.08	6.25	6.11	6.22	6.19	6.09
9	6.25	5.96	5.71	5.59	6.17	7.45	8.06	6.26	6.14	6.20	6.18	6.08
10	6.21	5.95	5.78	5.60	6.40	7.57	8.05	6.30	6.17	6.19	6.16	6.07
11	6.19	5.84	5.82	5.62	6.61	7.63	8.00	6.30	6.19	6.18	6.14	6.06
12	6.21	5.72	5.92	5.66	6.75	7.65	7.98	6.21	6.20	6.17	6.18	6.05
13	6.25	5.65	5.92	5.76	6.85	7.62	7.94	6.20	6.22	6.17	6.16	6.04
14	6.24	5.59	5.83	5.77	7.05	7.58	7.87	6.26	6.21	6.17	6.14	6.05
15	6.23	5.62	5.76	5.83	7.34	7.54	7.80	6.30	6.18	6.15	6.13	6.01
16	6.29	5.67	5.80	5.90	7.62	7.50	7.71	6.27	6.12	6.14	6.13	6.01
17	6.24	5.71	5.80	5.94	7.84	7.47	7.61	6.25	6.10	6.13	6.11	6.00
18	6.22	5.75	5.85	5.95	7.97	7.42	7.49	6.22	6.09	6.12	6.12	5.99
19	6.23	5.77	5.78	5.95	8.03	7.41	7.33	6.25	6.09	6.09	6.20	6.00
20	6.24	5.74	5.71	5.92	8.06	7.41	7.26	6.26	6.09	6.12	6.22	6.01
21	6.24	5.60	5.66	5.88	8.05	7.45	7.11	6.25	6.09	6.21	6.22	6.00
22	6.22	5.52	5.69	5.89	8.02	7.50	7.03	6.29	6.07	6.26	6.19	6.03
23	6.28	5.57	5.72	5.84	7.96	7.57	6.97	6.30	6.05	6.27	6.16	6.01
24	6.31	5.62	5.71	5.79	7.91	7.64	6.84	6.27	6.05	6.32	6.14	6.01
25	6.30	5.57	5.70	5.74	7.85	7.70	6.67	6.23	6.09	6.33	6.13	6.05
26	6.25	5.54	5.71	5.67	7.79	7.73	6.54	6.22	6.21	6.38	6.13	6.12
27	6.19	5.60	5.71	5.61	7.72	7.76	6.49	6.16	6.24	6.31	6.16	6.12
28	6.13	5.65	5.71	5.53	7.66	7.79	6.43	6.11	6.23	6.24	6.16	6.17
29	6.10	5.64	5.71	5.48	---	7.82	6.37	6.08	6.18	6.19	6.15	6.19
30	6.13	5.66	5.71	5.42	---	7.87	6.31	6.12	6.19	6.16	6.16	6.18
31	6.09	---	5.73	5.36	---	7.96	---	6.17	---	6.18	6.14	---
MEAN	6.23	5.79	5.73	5.71	6.89	7.54	7.48	6.23	6.16	6.20	6.17	6.07
MAX	6.32	6.11	5.92	5.95	8.06	7.96	8.10	6.30	6.28	6.38	6.25	6.19
MIN	6.09	5.52	5.57	5.36	5.22	7.17	6.31	6.08	6.05	6.09	6.11	5.99

05427570 ROCK RIVER AT INDIANFORD, WI

LOCATION.--Lat 42°48'15", long 89°05'24", in SW $^1/_4$ SW $^1/_4$ sec.16, T.4 N., R.12 E., Rock County, Hydrologic Unit 07090001, on right bank 50 ft upstream from bridge on County Trunk Highways F and M, 250 ft upstream from dam in Indianford, and 1.8 mi upstream from Yahara River.

DRAINAGE AREA.--2,630 mi^2.

PERIOD OF RECORD.--May 1975 to current year.

REVISED RECORDS.--WDR WI-79-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 763.84 ft (revised Oct. 1, 1990) above NGVD of 1929 (Rock County Surveyor bench mark).

REMARKS.--Records fair (see Introduction). Natural flow of stream affected by dam in Indianford. Discharge is adjusted for flow through wicket gates. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	1,170	e1,100	884	e900	3,170	3,720	1,160	575	280	270	186
2	358	1,120	e1,100	995	e900	3,080	3,810	1,210	832	283	273	192
3	291	1,080	e1,100	e1,030	e840	2,980	3,860	1,240	780	249	260	211
4	559	1,050	e1,100	e940	e790	2,810	3,950	1,240	734	279	273	196
5	565	945	e1,100	e1,010	e760	2,680	3,840	1,230	1,040	337	306	190
6	536	1,020	e1,100	e930	e780	2,570	3,870	1,050	1,130	376	289	172
7	544	1,080	e1,200	e810	e1,200	2,770	4,060	995	993	359	277	193
8	622	1,220	e1,300	e830	e1,600	2,860	3,930	964	632	343	261	209
9	693	1,060	e1,400	e830	e1,900	3,010	3,900	924	272	321	243	188
10	690	1,080	e1,600	e910	e1,970	3,160	3,990	918	282	319	254	168
11	458	1,330	e1,700	e900	e2,080	3,120	4,050	1,330	352	319	241	147
12	352	969	e1,600	e990	e2,370	3,200	4,020	1,370	403	336	226	141
13	427	823	e1,600	e1,060	e2,500	3,160	3,940	1,200	483	328	256	102
14	658	747	e1,100	e1,190	e3,200	3,120	3,760	1,130	620	327	242	162
15	527	715	e1,200	e1,400	e3,650	3,070	3,610	1,240	684	305	238	148
16	315	731	e1,050	e1,500	e3,500	2,930	3,420	1,260	449	288	232	152
17	409	752	e1,050	e1,600	3,700	2,940	3,330	1,250	269	253	220	134
18	521	798	e1,050	e1,550	3,870	2,920	3,110	1,210	255	192	203	116
19	502	879	e1,050	e1,650	3,970	2,870	2,720	1,260	241	241	261	107
20	475	833	e900	e1,600	4,020	2,880	2,640	1,340	224	278	262	122
21	560	802	e900	e1,500	3,960	2,940	2,490	1,230	251	337	257	92
22	571	678	872	e1,600	3,920	3,040	2,340	1,170	242	388	296	157
23	485	680	932	e1,500	3,840	3,130	2,240	1,290	178	393	271	196
24	613	759	946	e1,500	3,790	3,190	1,980	1,290	166	465	247	134
25	814	623	813	e1,400	3,630	3,300	1,640	1,230	254	694	237	155
26	1,230	e730	752	e1,300	3,540	3,310	1,500	1,120	336	1,220	219	194
27	1,230	e820	760	e1,200	3,430	3,370	1,430	1,030	428	1,310	216	184
28	1,110	e970	759	e1,100	3,270	3,400	1,450	1,030	597	1,140	226	192
29	1,040	e980	775	e1,000	---	3,410	1,410	915	435	892	234	213
30	777	e1,000	772	e950	---	3,460	1,260	657	211	505	263	171
31	1,020	---	756	e900	---	3,540	---	437	---	231	228	---
TOTAL	19,252	27,444	33,437	36,559	73,880	95,390	91,270	34,920	14,348	13,588	7,781	4,924
MEAN	621	915	1,079	1,179	2,639	3,077	3,042	1,126	478	438	251	164
MAX	1,230	1,330	1,700	1,650	4,020	3,540	4,060	1,370	1,130	1,310	306	213
MIN	291	623	752	810	760	2,570	1,260	437	166	192	203	92
CFSM	0.24	0.35	0.41	0.45	1.00	1.17	1.16	0.43	0.18	0.17	0.10	0.06
IN.	0.27	0.39	0.47	0.52	1.04	1.35	1.29	0.49	0.20	0.19	0.11	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2005, BY WATER YEAR (WY)

MEAN	1,326	1,549	1,495	1,084	1,339	2,867	3,586	2,507	1,983	1,461	1,024	1,029
MAX	7,729	5,047	3,745	2,622	2,751	6,113	9,466	6,028	8,433	4,621	3,377	3,911
(WY)	(1987)	(1986)	(1986)	(1985)	(1999)	(1985)	(1979)	(1993)	(2004)	(2004)	(1993)	(1986)
MIN	216	297	262	254	283	741	957	317	185	158	130	164
(WY)	(1977)	(1977)	(1977)	(1977)	(1977)	(2003)	(2003)	(1977)	(1988)	(1988)	(1988)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1975 - 2005	
ANNUAL TOTAL	867,583		452,793			
ANNUAL MEAN	2,370		1,241		1,773	
HIGHEST ANNUAL MEAN					3,252	1993
LOWEST ANNUAL MEAN					509	1977
HIGHEST DAILY MEAN	9,150	Jun 4	4,060	Apr 7	11,700	Apr 7, 1979
LOWEST DAILY MEAN	170	Feb 9	92	Sep 21	39	Jun 19, 1988
ANNUAL SEVEN-DAY MINIMUM	251	Feb 4	124	Sep 15	85	Jun 15, 1988
MAXIMUM PEAK FLOW			4,550	Apr 4	11,900	Apr 5, 1979
MAXIMUM PEAK STAGE			13.23	Apr 4	(a)16.23	Apr 5, 1979
ANNUAL RUNOFF (CFSM)	0.901		0.472		0.674	
ANNUAL RUNOFF (INCHES)	12.27		6.40		9.16	
10 PERCENT EXCEEDS	6,810		3,300		3,770	
50 PERCENT EXCEEDS	1,220		915		1,270	
90 PERCENT EXCEEDS	449		218		360	

05427570 ROCK RIVER AT INDIANFORD, WI—Continued

(a) Datum then in use
(e) Estimated

05427718 YAHARA RIVER AT WINDSOR, WI

LOCATION.--Lat 43°12'32", long 89°21'09", in NW ¼ NE ¼ sec.31, T.9 N., R.10 E., Dane County, Hydrologic Unit 07090001, at bridge on road to Lake Windsor Country Club.

DRAINAGE AREA.--73.6 mi^2, of which 36.5 mi^2 is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1976 to December 1981, October 1989 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 870 ft above NGVD of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	23	19	17	e14	17	37	16	13	9.7	e11	8.6
2	19	26	19	39	15	17	30	16	13	9.7	e11	8.5
3	17	24	18	24	15	17	27	15	13	9.4	e12	8.7
4	17	23	18	18	16	16	25	15	13	13	e17	8.7
5	16	22	18	18	29	27	24	15	14	11	13	9.0
6	16	21	24	e18	179	180	24	17	13	11	11	8.7
7	16	20	40	e18	424	339	25	17	12	10	11	8.6
8	32	19	37	18	192	88	22	16	12	9.9	10	e8.6
9	23	19	27	17	63	41	20	16	12	10	10	e8.7
10	19	19	32	17	40	30	20	15	12	10	10	8.8
11	18	19	34	17	28	24	19	22	12	10	11	8.8
12	18	18	27	28	26	21	21	18	12	11	13	8.5
13	18	18	23	65	58	20	21	21	12	11	12	10
14	18	18	e21	43	363	18	19	19	12	11	11	11
15	18	18	20	e20	262	18	18	17	12	10	11	9.0
16	18	19	19	e17	107	21	18	16	12	10	11	8.9
17	18	19	18	e16	55	21	18	15	11	11	10	8.8
18	18	19	18	e16	41	19	18	15	11	9.8	13	8.9
19	19	20	e17	e16	25	19	18	20	11	9.1	12	12
20	19	22	e17	e16	23	18	20	17	11	37	11	10
21	19	20	e17	e16	21	21	18	15	11	29	10	9.5
22	19	19	e16	e16	20	33	17	15	10	19	10	17
23	33	19	e15	e16	19	68	17	14	9.7	16	10	13
24	29	19	e14	e16	18	84	16	14	9.3	15	10	11
25	22	18	e14	e16	18	73	16	14	10	14	9.9	18
26	20	18	e15	e15	17	48	17	14	10	33	10	22
27	21	23	e15	e14	17	38	16	14	11	17	13	13
28	21	27	e15	e14	17	35	16	14	11	13	9.5	12
29	21	22	e15	e14	---	34	16	13	11	13	9.2	13
30	28	20	e16	e14	---	44	16	14	11	11	9.0	12
31	25	---	18	e14	---	61	---	13	---	11	8.8	---
TOTAL	631	611	636	623	2,122	1,510	609	492	347.0	424.6	340.4	323.3
MEAN	20.4	20.4	20.5	20.1	75.8	48.7	20.3	15.9	11.6	13.7	11.0	10.8
MAX	33	27	40	65	424	339	37	22	14	37	17	22
MIN	16	18	14	14	14	16	16	13	9.3	9.1	8.8	8.5
CFSM	0.28	0.28	0.28	0.27	1.03	0.66	0.28	0.22	0.16	0.19	0.15	0.15
IN.	0.32	0.31	0.32	0.31	1.07	0.76	0.31	0.25	0.18	0.21	0.17	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2005, BY WATER YEAR (WY)

MEAN	16.7	18.7	16.1	16.8	27.8	38.1	24.2	23.1	25.7	21.3	18.5	18.3
MAX	29.2	36.8	27.0	32.5	75.8	135	47.8	69.7	75.4	95.3	40.3	50.1
(WY)	(1994)	(2004)	(1994)	(1996)	(2005)	(1976)	(1993)	(2004)	(2000)	(1993)	(1993)	(1980)
MIN	7.75	8.78	8.54	6.50	4.76	11.8	14.1	7.71	7.48	7.12	7.29	7.12
(WY)	(1978)	(1978)	(1978)	(1978)	(1978)	(1978)	(1978)	(1977)	(1977)	(1977)	(1991)	(1977)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1976 - 2005	
ANNUAL TOTAL	9,516		8,669.3			
ANNUAL MEAN	26.0		23.8		21.8	
HIGHEST ANNUAL MEAN					39.1	1993
LOWEST ANNUAL MEAN					10.9	1977
HIGHEST DAILY MEAN	480	May 23	424	Feb 7	519	Jul 6, 1993
LOWEST DAILY MEAN	(a)10	(b)Feb 12	8.5	Sep 2, 12	(a)4.6	Mar 1, 1978
ANNUAL SEVEN-DAY MINIMUM	(a)10	Feb 11	8.7	Sep 6	(a)4.6	Mar 1, 1978
MAXIMUM PEAK FLOW			449	Feb 7	2,050	Jul 6, 1993
MAXIMUM PEAK STAGE			5.49	Feb 7	6.58	Jul 6, 1993
INSTANTANEOUS LOW FLOW			8.1	(c)Jul 19	(d)2.9	Feb 25, 1991
ANNUAL RUNOFF (CFSM)	0.353		0.323		0.296	
ANNUAL RUNOFF (INCHES)	4.81		4.38		4.03	
10 PERCENT EXCEEDS	34		32		31	
50 PERCENT EXCEEDS	19		17		17	
90 PERCENT EXCEEDS	14		10		9.2	

05427718 YAHARA RIVER AT WINDSOR, WI—Continued

(a) Ice affected
(b) Also occurred Feb. 15-17
(c) Also occurred Sept. 1, 2, 6, 7 and 12
(d) Result of freezeup
(e) Estimated

05427718 YAHARA RIVER AT WINDSOR, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to September 1980, October 1989 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: March 1990 to current year.
TOTAL-PHOSPHORUS DISCHARGE: March 1990 to current year.
TOTAL ORTHO-PHOSPHORUS DISCHARGE: October 1990 to September 1992.

INSTRUMENTATION.--Water-quality sampler since March 1990.

REMARKS.--Records good. Samples are point samples unless otherwise indicated.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 7,070 mg/L, June 29, 1990; minimum observed, 3.0 mg/L, Sept. 10, 2002.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 1,950 tons, May 23, 2004; minimum daily, 0.10 ton, Sept. 10, 2002.
TOTAL-PHOSPHORUS CONCENTRATIONS: Maximum observed, 5.10 mg/L, June 7, 1993; minimum observed, 0.01 mg/L, Jan. 31, 1991, and Oct. 29, 1997.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 5,590 lb, May 23, 2004; minimum daily, 0.70 lb, Nov. 13-15, 1997.
TOTAL ORTHO-0HOSPHORUS CONCENTRATIONS: Maximum observed, 1.13 mg/L, Feb. 6, 2005; minimum observed, <0.01 mg/L, Nov. 13, 1990 and June 26, 1994.
TOTAL ORTHO-PHOSPHORUS DISCHARGE: Maximum daily, 1,260 lb, Mar. 2, 1991; minimum daily, 0.49 lb, Nov. 26, 1990.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 1,020 mg/L, July 26; minimum observed, 4.0 mg/L, Oct. 9 and Sept. 28.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 151 tons, Feb. 7; minimum daily, 0.11 ton, Sept. 21.
TOTAL-PHOSPHORUS CONCENTRATIONS: Maximum observed, 2.43 mg/L, Feb. 6; minimum observed, 0.030 mg/L, Apr. 28.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 3,470 lb, Feb. 7; minimum daily, 2.65 lb, Apr. 29.
TOTAL ORTHO-PHOSPHORUS CONCENTRATIONS: Maximum observed, 1.13 mg/L, Feb. 6; minimum observed, 0.075 mg/L, Dec. 7.

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.51	1.5	0.40	0.53	0.24	0.25	3.3	0.54	0.37	0.29	0.58	0.24
2	1.6	2.4	0.31	7.7	0.25	0.25	1.3	0.53	0.36	0.29	0.57	0.20
3	0.74	2.2	0.30	1.0	0.25	0.25	1.0	0.50	0.35	0.34	0.65	0.17
4	0.45	1.9	0.30	0.35	0.26	0.22	0.85	0.47	0.36	1.7	2.0	0.16
5	0.44	1.5	0.30	0.24	5.8	2.4	0.73	0.45	0.81	0.64	0.59	0.17
6	0.44	0.69	0.82	0.24	74	109	0.66	0.62	0.78	0.46	0.44	0.16
7	0.44	0.39	2.3	0.24	151	114	0.67	0.45	0.71	0.35	0.42	0.16
8	2.4	0.31	1.3	0.24	24	15	0.60	0.42	0.68	0.32	0.41	0.16
9	0.33	0.31	0.55	0.23	4.9	3.8	0.55	0.42	0.64	0.34	0.40	0.16
10	0.20	0.31	0.85	0.23	1.9	1.6	0.53	0.41	0.61	0.33	0.39	0.17
11	0.19	0.31	0.75	0.22	0.69	0.76	0.51	1.9	0.55	0.33	0.41	0.17
12	0.19	0.30	1.0	7.3	0.45	0.58	0.72	1.0	0.50	0.35	0.53	0.16
13	0.20	0.29	1.1	8.9	12	0.55	0.75	1.4	0.47	0.35	0.42	0.32
14	0.19	0.29	0.65	7.1	146	0.49	0.56	0.91	0.44	0.33	0.38	0.31
15	0.20	0.29	0.37	3.1	71	0.49	0.52	0.67	0.42	0.32	0.34	0.17
16	0.19	0.31	0.31	1.3	14	0.56	0.51	0.54	0.40	0.31	0.30	0.17
17	0.19	0.31	0.29	0.66	3.3	0.56	0.50	0.46	0.38	0.32	0.27	0.17
18	0.19	0.31	0.28	0.37	1.6	0.51	0.48	0.43	0.37	0.29	0.52	0.17
19	0.20	0.33	0.26	0.34	0.61	0.51	0.49	1.9	0.37	0.27	0.40	0.39
20	0.21	0.44	0.26	0.33	0.42	0.50	0.81	1.2	0.36	40	0.33	0.13
21	0.20	0.34	0.26	0.33	0.38	0.78	0.71	0.74	0.35	7.5	0.31	0.11
22	0.21	0.31	0.24	0.32	0.35	4.3	0.68	0.55	0.33	2.8	0.29	1.0
23	1.5	0.31	0.22	0.32	0.32	25	0.67	0.46	0.32	2.2	0.28	0.47
24	2.6	0.30	0.20	0.31	0.31	23	0.64	0.44	0.30	2.1	0.27	0.17
25	1.8	0.29	0.20	0.31	0.29	13	0.63	0.43	0.33	6.9	0.25	1.8
26	1.2	0.32	0.21	0.28	0.28	4.8	0.64	0.42	0.32	64	0.26	1.9
27	1.1	1.3	0.21	0.26	0.27	2.2	0.63	0.42	0.34	12	1.3	0.26
28	1.1	2.2	0.21	0.26	0.27	1.5	0.60	0.41	0.34	3.0	0.48	0.18
29	1.1	1.2	0.21	0.25	---	1.1	0.58	0.40	0.34	1.4	0.44	0.21
30	3.5	0.62	0.22	0.25	---	3.4	0.56	0.40	0.33	0.71	0.42	0.14
31	2.4	---	0.32	0.25	---	13	---	0.38	---	0.58	0.33	---
TOTAL	26.21	21.88	15.20	43.76	515.14	344.36	22.38	20.27	13.23	151.12	14.98	10.15

CAL YR 2004 TOTAL 4,126.11
WTR YR 2005 TOTAL 1,198.68

05427718 YAHARA RIVER AT WINDSOR, WI—Continued

PHOSPHORUS, WATER, UNFILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.45	10.4	5.83	4.78	3.52	10.1	48.9	2.75	9.75	5.78	6.14	3.74
2	7.19	13.1	5.47	64.2	3.73	10.1	30.0	2.83	9.65	5.80	5.70	3.70
3	4.90	11.1	5.38	34.6	3.75	10.3	24.8	2.82	9.72	5.65	5.91	3.75
4	4.63	9.46	5.36	14.6	3.97	9.55	23.1	2.82	9.72	9.40	9.18	3.77
5	4.39	8.06	5.28	7.99	130	39.6	22.0	2.86	10.9	7.00	6.43	3.89
6	4.30	7.46	9.05	5.35	1,740	1,310	21.7	4.19	10.2	6.42	5.39	3.76
7	4.20	7.05	32.6	5.07	3,470	2,460	19.9	3.66	9.38	6.31	5.26	3.73
8	32.4	6.58	27.7	5.06	1,480	459	15.0	3.34	9.02	5.99	5.20	3.75
9	19.8	6.36	14.7	4.80	226	112	11.7	3.30	8.86	6.31	5.17	3.79
10	9.39	6.20	17.2	4.76	80.2	58.8	9.40	3.21	8.85	6.18	5.17	3.82
11	5.69	6.05	23.2	4.74	40.2	32.8	8.31	17.1	8.44	6.30	5.55	3.82
12	4.94	5.77	15.4	27.3	31.5	19.3	11.0	13.2	8.17	6.80	7.97	3.70
13	5.02	5.51	10.7	149	201	12.2	9.93	16.0	8.06	6.70	5.87	4.91
14	4.91	5.35	8.75	77.0	3,260	7.82	6.45	13.5	7.94	6.36	5.54	6.17
15	4.91	5.33	7.49	26.0	2,010	7.42	4.94	11.6	7.88	6.15	5.31	4.15
16	4.86	5.53	6.50	10.8	658	9.66	4.46	11.1	7.50	6.14	5.05	4.02
17	4.86	5.56	5.65	7.03	222	10.7	4.31	11.0	7.07	6.31	4.96	4.05
18	4.85	5.52	5.06	5.20	90.6	8.30	4.13	11.0	6.92	5.82	7.36	4.15
19	5.06	6.05	4.64	4.25	36.3	7.22	4.13	15.4	6.84	5.38	6.08	7.17
20	5.09	7.67	4.58	4.21	23.3	7.10	6.83	13.2	6.61	129	5.23	4.88
21	5.00	6.32	4.53	4.20	17.4	9.92	5.74	11.4	6.35	53.9	4.92	4.19
22	5.02	5.46	4.21	4.18	13.2	58.6	5.27	10.9	5.97	27.2	4.74	11.5
23	21.0	5.32	3.90	4.16	11.1	333	4.94	10.6	5.69	20.7	4.80	6.58
24	17.4	5.11	3.60	4.15	10.7	482	4.54	10.3	5.41	18.2	4.71	4.85
25	10.7	4.95	3.55	4.13	10.6	330	4.24	10.2	6.04	16.3	4.58	15.0
26	7.36	4.94	3.76	3.86	10.3	129	4.12	10.1	5.99	50.2	4.63	19.6
27	7.32	7.98	3.72	3.59	10.2	75.7	3.89	10.4	6.28	20.8	10.5	9.37
28	7.16	10.5	3.67	3.57	10.3	43.5	2.96	10.3	6.44	12.3	4.94	8.72
29	7.19	7.76	3.63	3.56	---	35.1	2.65	9.99	6.45	9.91	4.62	9.27
30	16.3	6.51	3.82	3.55	---	53.6	2.71	10.2	6.36	7.56	4.47	8.01
31	12.8	---	5.32	3.53	---	113	---	9.84	---	6.55	3.98	---
TOTAL	263.09	208.96	264.25	509.22	13,807.87	6,265.39	332.05	279.11	232.46	493.42	175.36	181.81

CAL YR 2004 TOTAL 18,115.59
WTR YR 2005 TOTAL 23,012.99

05427718 YAHARA RIVER AT WINDSOR, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Discharge, cfs (00060)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT							
02...	0215	--	22	50	--	--	43
08...	0415	--	23	50	--	.100	11
08...	0815	--	42	50	--	.203	37
08...	0845	--	53	50	--	.225	64
08...	2115	--	31	50	--	--	10
09...	1345	--	22	50	--	.154	4
23...	0500	--	22	50	--	.073	31
23...	1030	--	40	50	--	.120	15
24...	0230	--	34	50	--	.119	15
25...	1030	--	22	50	--	.093	32
30...	0515	--	28	50	--	.093	23
30...	2130	--	30	50	--	.108	49
NOV							
01...	0930	--	22	50	--	--	21
02...	0945	--	27	50	--	--	37
05...	0815	--	22	50	--	--	29
20...	0215	--	22	50	--	--	8
27...	1400	--	22	50	--	.061	19
27...	1900	--	30	50	--	.079	29
29...	1015	--	22	50	--	.065	22
DEC							
06...	1230	--	24	50	--	.067	16
07...	0915	--	33	50	--	--	9
07...	1300	--	52	50	.075	.165	38
07...	2100	--	50	50	.100	.168	20
08...	1300	--	36	50	--	--	12
09...	2100	--	26	50	--	.087	6
10...	1300	--	32	50	--	--	10
10...	2100	--	37	50	--	.111	13
11...	1300	--	34	50	--	.125	6
12...	0500	--	29	50	--	--	13
13...	1300	--	23	50	--	.085	19
JAN							
02...	0345	--	32	50	--	.212	23
02...	0530	--	55	50	--	.378	117
03...	0945	--	24	50	--	.280	11
11...	1025	--	17	10	--	.053	80
12...	1700	--	23	50	--	.079	112
12...	2100	--	54	50	--	.233	135
12...	2130	--	66	50	--	--	217
12...	2215	--	80	50	--	.350	202
13...	1030	--	61	50	--	.446	27
14...	0230	--	45	50	--	--	16
15...	1245	20	--	50	--	.251	58
FEB							
05...	1830	--	44	50	--	1.36	155
05...	2315	--	74	50	--	1.68	93
06...	0630	--	122	50	--	2.43	158
06...	1530	--	183	50	1.13	1.77	149
06...	2130	--	299	50	--	1.50	137
06...	2330	--	399	50	.987	1.55	224
07...	0730	--	436	50	--	--	133
07...	1530	--	443	50	--	1.49	105
08...	0500	--	295	50	--	1.57	40
08...	1215	--	161	50	--	--	56
08...	2115	--	95	50	.812	1.14	38
10...	0415	--	46	50	--	--	20
12...	0400	--	24	50	--	.215	6
13...	1115	--	29	50	--	.261	8
13...	1800	--	69	50	--	.467	96
13...	1900	--	93	50	--	.703	112
13...	2100	--	124	50	.488	.918	102
13...	2345	--	245	50	--	.953	116
14...	0100	--	342	50	.506	.937	149
15...	1830	--	259	50	--	1.17	62
16...	0545	--	117	50	.800	1.23	57
17...	0600	--	52	50	--	.879	24
19...	2315	--	24	50	--	.214	7

05427718 YAHARA RIVER AT WINDSOR, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
MAR						
05...	1715	32	50	--	.325	42
06...	1045	52	50	--	1.04	44
06...	1315	73	50	--	--	67
06...	1400	103	50	--	--	203
06...	1430	158	50	.642	1.20	304
06...	1500	243	50	.624	1.21	317
06...	1545	356	50	--	1.35	348
06...	1630	416	50	.590	1.38	332
06...	2200	339	50	--	--	203
07...	0500	379	50	--	1.47	145
08...	1130	82	50	.602	.978	60
11...	0645	24	50	--	.279	12
21...	1930	23	50	--	.115	17
22...	1515	26	50	--	.377	32
22...	1845	54	50	--	.397	79
23...	0845	39	50	--	.656	50
23...	1545	68	50	--	.709	103
23...	1645	90	50	--	.795	187
23...	1745	114	50	.283	.867	215
23...	1815	130	50	.315	.884	210
24...	0430	93	50	.747	1.31	155
24...	1230	68	50	--	.810	58
25...	0200	88	50	--	1.13	83
27...	0800	38	50	--	.396	22
30...	0800	34	50	--	.186	9
31...	0300	74	50	--	.397	106
APR						
01...	0300	42	50	--	.271	45
06...	1645	24	50	--	.171	10
28...	0745	16	50	--	.042	14
28...	0746	16	10	--	.030	26
MAY						
11...	1045	31	50	--	.191	48
19...	0615	23	50	--	--	44
JUN						
08...	0750	12	50	--	.141	21
08...	0751	12	10	--	.136	41
24...	0615	10	10	--	.107	64
JUL						
04...	0900	20	50	--	--	70
20...	1000	21	50	--	.332	116
20...	1045	48	50	.151	.477	236
20...	1400	79	50	.162	.815	484
20...	1415	90	50	--	--	726
20...	1515	98	50	.158	.946	623
20...	1645	84	50	--	--	664
20...	1830	56	50	.160	.655	339
21...	0630	22	50	--	.296	62
21...	1500	48	50	--	.354	111
25...	0924	12	50	--	.206	45
25...	0925	12	10	--	.218	74
26...	0530	47	50	--	.316	1,020
AUG						
04...	1030	17	50	--	--	66
27...	0315	26	50	--	.189	74
31...	0650	9.0	50	--	.091	17
31...	0651	9.0	10	--	.080	13
SEP						
19...	1230	20	50	--	.136	21
22...	0845	29	50	--	.152	31
25...	1715	38	50	--	.215	66
26...	0515	28	50	--	.188	42
28...	0810	11	10	--	.128	4

05427850 YAHARA RIVER AT STATE HIGHWAY 113 AT MADISON, WI

LOCATION.--Lat 43°09'03", long 89°24'07", in SW $^1/_4$ SW $^1/_4$ sec.23, T.8 N., R.9 E., Dane County, Hydrologic Unit 07090001, at northbound bridge on Highway 113, 5.3 mi north of the state capitol in Madison.

DRAINAGE AREA.--114 mi^2, of which 36.5 mi^2 is non-contributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 2002 to current year.

GAGE.--Water-stage recorder. Side-looking velocity meter system. Datum of gage is 840.00 ft above NGVD of 1929 (Wisconsin Department of Transportation benchmark).

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	74	66	36	30	48	122	52	45	62	32	30
2	63	51	55	71	32	48	87	62	36	32	30	39
3	45	69	43	48	31	48	78	57	49	35	19	27
4	71	63	84	33	29	52	82	53	38	52	54	38
5	31	55	75	31	38	57	76	51	23	35	42	28
6	68	75	61	29	141	137	68	62	70	36	37	39
7	38	65	86	27	406	415	64	66	40	32	34	45
8	66	54	102	17	528	395	75	48	35	31	31	31
9	73	25	101	21	285	127	67	44	41	33	34	28
10	54	102	106	20	93	78	74	73	24	34	32	30
11	55	59	57	20	63	69	64	99	31	33	31	36
12	52	60	92	41	63	60	70	51	44	38	47	22
13	55	56	108	115	71	52	67	69	34	19	41	39
14	53	58	55	86	290	48	61	66	34	26	34	47
15	39	61	52	62	480	51	58	81	56	22	33	37
16	52	64	76	44	344	58	64	60	43	30	35	34
17	66	61	45	39	139	66	61	58	33	18	28	32
18	65	62	80	24	74	60	59	55	35	32	32	37
19	41	60	33	23	63	54	44	78	35	36	47	36
20	50	54	51	17	52	58	100	50	31	51	34	35
21	52	65	51	5.4	57	61	56	54	34	61	40	15
22	39	44	44	14	48	75	81	54	30	51	37	88
23	53	87	43	15	48	114	50	60	24	31	36	40
24	114	59	42	14	47	203	51	45	35	59	33	37
25	66	54	46	17	49	191	44	39	35	34	34	45
26	59	67	39	17	53	120	75	51	32	73	35	59
27	52	62	30	16	52	104	61	53	27	48	35	32
28	41	98	31	7.3	50	100	60	51	54	36	50	55
29	40	70	33	22	---	102	52	48	22	46	37	19
30	64	63	40	47	---	114	54	48	19	22	38	45
31	113	---	64	40	---	158	---	45	---	40	32	---
TOTAL	1,781	1,897	1,891	1,018.7	3,656	3,323	2,025	1,783	1,089	1,188	1,114	1,125
MEAN	57.5	63.2	61.0	32.9	131	107	67.5	57.5	36.3	38.3	35.9	37.5
MAX	114	102	108	115	528	415	122	99	70	73	54	88
MIN	31	25	30	5.4	29	48	44	39	19	18	19	15
CFSM	0.74	0.82	0.79	0.42	1.69	1.38	0.87	0.74	0.47	0.50	0.46	0.48
IN.	0.86	0.91	0.91	0.49	1.76	1.60	0.97	0.86	0.52	0.57	0.54	0.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	49.3	74.2	55.4	38.9	75.4	80.3	65.2	91.6	63.1	49.8	47.2	42.6
MAX	57.5	103	61.0	50.4	131	107	82.1	147	98.4	83.5	82.9	56.8
(WY)	(2005)	(2004)	(2005)	(2002)	(2005)	(2005)	(2002)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	37.4	56.0	45.5	32.9	37.9	47.1	48.2	57.5	36.3	34.4	27.2	37.4
(WY)	(2004)	(2003)	(2003)	(2005)	(2003)	(2003)	(2003)	(2005)	(2005)	(2003)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	27,723.0		21,890.7			
ANNUAL MEAN	75.7		60.0		60.9	
HIGHEST ANNUAL MEAN					77.2	2004
LOWEST ANNUAL MEAN					45.3	2003
HIGHEST DAILY MEAN	747	May 24	528	Feb 8	747	May 24, 2004
LOWEST DAILY MEAN	-41	Apr 18	5.4	Jan 21	-41	Apr 18, 2004
ANNUAL SEVEN-DAY MINIMUM	31	Jan 23	14	Jan 21	14	Jan 21, 2005
ANNUAL RUNOFF (CFSM)	0.979		0.775		0.786	
ANNUAL RUNOFF (INCHES)	13.32		10.52		10.68	
10 PERCENT EXCEEDS	113		87		98	
50 PERCENT EXCEEDS	64		50		49	
90 PERCENT EXCEEDS	39		28		29	

05427850 YAHARA RIVER AT STATE HIGHWAY 113 AT MADISON, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 2002 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: January 2002 to current year.
SUSPENDED-SEDIMENT DISCHARGE: January 2002 to current year.
TOTAL-PHOSPHORUS DISCHARGE: January 2002 to current year.

INSTRUMENTATION.--Automatic pumping sampler since January 2002.

REMARKS.--Records good. Samples are point samples unless otherwise noted.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 32.0°C, July 15, 2005; minimum, 0.0°C, on many days during winter.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 107 mg/L, May 24, 2004; minimum observed, 4.0 mg/L, Feb. 18, 2003.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 216 tons, May 24, 2004; minimum daily, -2.43 ton, Apr. 18, 2004.
TOTAL-PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.781 mg/L, Mar. 16, 2005; minimum observed, 0.013 mg/L, Feb. 18, 2003.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 1,664 lb, Mar. 8, 2005; minimum daily, -42.5 lb, Apr. 18, 2004.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 32.0°C, July 15; minimum, 0.0°C, on many days during winter.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 76 mg/L, Dec. 19, Apr. 20; minimum observed, 5.0 mg/L, Mar. 1.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 41.6 tons, Mar. 8; minimum daily, 0.11 ton, Jan. 21.
TOTAL-PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.781 mg/L, Mar. 16; minimum observed, 0.040 mg/L, Nov. 10.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 1,664 lb, Mar. 8; minimum daily, 1.1 lb, Jan. 21.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	17.5	15.0	16.5	10.0	8.5	9.0	3.5	2.5	3.0	0.5	0.0	0.0
2	15.0	12.5	13.5	8.5	8.0	8.0	3.0	2.0	3.0	0.5	0.0	0.5
3	14.5	12.0	13.0	9.0	7.5	8.5	2.5	1.5	2.0	0.5	0.0	0.0
4	13.5	10.5	12.0	9.0	7.5	8.5	2.5	1.5	2.0	0.5	0.0	0.0
5	12.5	10.0	11.0	8.0	6.5	7.0	3.0	2.0	2.5	0.5	0.0	0.0
6	14.5	10.5	12.0	8.5	6.0	7.5	2.5	1.5	2.0	0.0	0.0	0.0
7	15.0	13.0	14.0	9.0	7.0	8.0	4.0	2.0	3.5	0.0	0.0	0.0
8	16.5	15.0	15.5	7.0	5.5	6.0	3.5	2.5	3.0	0.0	0.0	0.0
9	16.5	14.0	15.0	6.0	4.5	5.5	4.0	3.5	3.5	0.0	0.0	0.0
10	16.5	13.0	15.0	7.5	5.5	6.5	4.5	3.5	4.0	0.0	0.0	0.0
11	15.5	13.0	14.5	7.5	5.0	6.0	3.5	2.0	2.5	0.0	0.0	0.0
12	15.0	13.0	14.0	5.0	3.0	4.0	2.0	0.5	2.0	0.0	0.0	0.0
13	14.0	13.0	13.5	4.5	2.5	3.5	0.5	0.0	0.0	0.0	0.0	0.0
14	13.5	11.5	12.0	5.0	3.0	4.0	1.0	0.0	0.5	0.5	0.0	0.0
15	11.5	10.5	11.0	4.5	3.5	4.0	2.5	1.0	1.5	0.5	0.0	0.0
16	10.5	6.5	8.5	6.5	4.5	5.5	2.0	1.0	1.5	0.5	0.0	0.5
17	8.5	5.0	6.5	8.5	6.5	7.5	2.5	1.0	2.0	1.0	0.0	0.5
18	9.0	7.0	8.0	9.5	8.5	9.0	2.0	1.0	1.5	0.5	0.0	0.5
19	8.5	7.5	8.0	9.0	8.0	8.5	1.5	0.0	1.0	0.5	0.0	0.0
20	9.5	8.0	8.5	8.5	7.5	8.0	1.5	1.0	1.5	0.0	0.0	0.0
21	10.5	8.0	9.0	7.5	5.5	6.0	1.5	0.5	1.0	0.0	0.0	0.0
22	10.5	9.0	9.5	5.5	5.0	5.0	1.5	1.0	1.0	0.0	0.0	0.0
23	13.5	10.0	12.0	6.5	4.5	5.5	1.0	0.5	1.0	0.0	0.0	0.0
24	14.0	11.5	12.5	4.5	2.0	3.0	1.0	0.5	1.0	0.0	0.0	0.0
25	14.0	11.5	13.0	3.0	1.5	2.0	1.0	0.5	0.5	0.0	0.0	0.0
26	13.0	11.0	11.5	2.5	2.5	2.5	0.5	0.5	0.5	0.0	0.0	0.0
27	11.0	10.5	10.5	2.5	2.0	2.5	0.5	0.0	0.5	0.0	0.0	0.0
28	12.0	10.5	11.0	2.5	1.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0
29	14.5	12.0	13.0	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
30	14.5	11.5	13.5	3.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
31	11.5	10.0	10.5	---	---	---	1.0	0.0	0.5	0.0	0.0	0.0
MONTH	17.5	5.0	11.9	10.0	1.0	5.6	4.5	0.0	1.6	1.0	0.0	0.1

05427850 YAHARA RIVER AT STATE HIGHWAY 113 AT MADISON, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	2.0	1.5	1.5	7.5	6.0	7.0	11.0	9.5	10.0
2	0.0	0.0	0.0	2.0	1.5	1.5	10.0	6.5	8.0	9.5	7.5	8.5
3	0.0	0.0	0.0	2.0	1.5	2.0	12.5	8.0	10.0	10.0	7.0	8.5
4	0.0	0.0	0.0	2.0	1.5	2.0	14.0	10.5	12.0	14.0	8.0	10.0
5	0.0	0.0	0.0	2.0	1.5	2.0	15.5	12.0	13.5	16.5	11.5	14.0
6	0.0	0.0	0.0	2.5	1.5	2.0	18.0	15.0	16.0	17.5	14.5	15.5
7	0.0	0.0	0.0	1.5	0.0	0.5	17.0	14.0	15.5	17.0	15.0	16.0
8	0.0	0.0	0.0	1.0	0.0	0.5	17.5	14.0	15.5	18.5	14.5	16.0
9	0.0	0.0	0.0	1.5	0.0	0.5	16.5	14.0	15.0	19.5	17.5	18.5
10	0.0	0.0	0.0	2.0	1.0	1.5	17.5	13.5	15.5	21.5	18.0	19.5
11	0.5	0.0	0.0	1.5	1.0	1.5	16.0	14.5	15.0	20.5	14.0	17.5
12	0.5	0.0	0.5	2.0	1.0	1.5	15.0	10.0	12.0	14.0	10.0	11.5
13	1.0	0.5	1.0	2.5	2.0	2.0	12.5	8.0	10.0	11.5	9.5	10.5
14	0.5	0.0	0.5	2.0	2.0	2.0	14.5	10.0	12.0	14.0	11.5	12.5
15	0.0	0.0	0.0	2.5	1.5	2.0	16.5	11.5	13.5	13.5	12.0	12.5
16	0.5	0.0	0.0	3.0	2.0	2.5	15.5	13.0	14.5	17.5	12.0	14.0
17	0.5	0.0	0.0	3.0	2.5	2.5	18.5	13.5	15.5	17.0	14.5	15.5
18	1.5	0.5	1.0	3.0	2.0	2.5	19.5	15.5	17.0	17.5	15.0	16.0
19	1.5	1.0	1.5	2.5	2.0	2.0	19.5	17.5	18.5	18.0	16.0	17.0
20	1.5	1.0	1.5	2.5	2.0	2.5	19.5	16.0	18.0	19.0	15.5	17.0
21	1.0	1.0	1.0	3.5	2.0	2.5	16.0	13.0	15.0	20.0	17.5	18.5
22	1.5	1.0	1.0	3.5	2.5	3.0	15.0	12.5	14.0	21.5	18.5	19.5
23	1.5	1.0	1.5	3.5	2.5	3.0	12.5	9.5	10.5	20.0	19.0	19.5
24	1.5	1.0	1.5	3.5	2.0	2.5	10.5	7.0	9.0	21.0	17.5	19.0
25	1.5	1.0	1.5	3.5	1.5	2.5	11.5	9.0	10.0	22.0	18.5	20.0
26	2.0	1.5	1.5	4.0	2.0	3.0	11.0	10.0	10.5	21.5	19.5	20.5
27	2.0	1.5	1.5	5.5	3.5	4.5	10.0	8.5	9.5	20.0	18.5	19.5
28	1.5	1.5	1.5	7.0	4.0	5.0	12.5	8.0	9.5	19.0	17.0	18.0
29	---	---	---	8.0	5.5	6.5	13.5	10.0	11.5	20.0	17.0	18.5
30	---	---	---	8.5	5.5	7.5	13.0	11.0	12.0	22.5	17.5	20.0
31	---	---	---	8.0	6.5	7.5	---	---	---	24.5	20.0	22.0
MONTH	2.0	0.0	0.6	8.5	0.0	2.7	19.5	6.0	12.8	24.5	7.0	16.0
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.0	21.0	22.5	26.0	22.5	23.0	29.0	26.0	27.0	25.0	23.0	24.0
2	25.5	21.0	23.0	25.0	20.5	22.5	30.0	27.0	28.0	24.0	21.5	22.5
3	24.0	22.0	22.5	25.0	23.0	23.5	29.5	27.5	28.5	26.5	21.0	23.0
4	23.5	21.0	22.0	23.5	22.5	23.0	28.5	26.5	27.5	25.0	22.5	23.5
5	24.5	22.0	23.5	26.5	22.0	23.5	27.5	25.0	26.0	25.5	22.0	23.5
6	26.0	22.0	23.5	26.0	23.0	24.5	27.0	24.5	25.5	25.5	23.5	24.5
7	28.0	24.0	25.5	29.0	22.5	24.5	27.5	25.0	26.0	25.5	23.0	24.0
8	28.0	26.5	27.0	27.5	24.5	26.0	29.0	25.5	27.0	24.5	22.5	23.5
9	28.0	25.5	26.5	29.5	25.5	27.5	29.5	27.0	28.0	25.0	21.5	23.0
10	29.0	25.5	27.0	30.0	26.0	27.5	29.0	26.5	28.0	26.5	23.5	24.5
11	29.0	26.5	27.5	30.0	26.5	28.5	28.5	25.0	26.5	26.5	24.0	25.5
12	30.0	26.5	28.0	29.0	26.0	27.0	26.0	24.0	25.0	26.5	24.5	25.5
13	29.5	27.5	28.5	28.0	24.5	26.0	25.0	23.5	24.0	26.0	24.5	25.5
14	28.5	25.0	27.0	30.5	26.5	28.5	24.0	22.0	23.0	25.0	22.5	23.5
15	25.0	21.0	22.5	32.0	27.0	29.0	25.0	22.0	23.0	23.0	20.0	21.0
16	23.0	19.0	21.0	31.0	28.5	29.0	26.5	23.5	25.0	22.0	18.5	20.0
17	23.0	20.5	22.0	31.0	28.5	30.0	27.5	24.0	25.0	22.5	19.0	21.0
18	26.0	20.5	22.5	30.5	27.5	29.0	27.0	24.5	25.5	24.0	20.5	22.0
19	27.0	22.5	24.5	28.0	25.0	26.5	26.5	24.5	25.0	23.0	22.0	22.5
20	27.0	24.5	25.5	28.0	25.5	27.0	28.0	26.0	27.0	23.5	20.5	21.5
21	30.0	25.5	27.5	27.5	25.5	26.0	27.0	25.0	26.0	23.5	21.5	22.5
22	29.0	26.5	27.5	31.5	24.5	26.5	25.5	22.5	23.5	23.0	21.0	22.0
23	28.5	25.5	27.0	30.5	25.5	27.5	23.0	20.5	22.0	21.0	18.0	19.5
24	30.0	27.0	28.0	29.5	24.5	26.5	23.0	20.5	21.5	19.5	17.5	18.5
25	29.0	27.0	28.0	29.0	27.5	28.0	23.0	20.5	21.5	19.0	18.0	18.5
26	28.5	26.0	27.0	28.0	23.5	25.5	24.0	21.5	22.5	19.5	18.5	19.0
27	30.0	26.0	27.5	24.5	21.5	23.0	25.0	22.5	23.5	20.5	17.0	18.5
28	29.5	26.5	27.5	24.5	22.0	23.0	25.0	22.5	23.5	19.5	16.0	18.0
29	30.0	26.0	27.5	27.0	23.0	24.5	25.5	22.5	24.0	16.0	13.5	14.5
30	29.0	26.0	27.5	27.5	24.0	25.5	26.0	23.0	24.5	16.0	13.0	14.5
31	---	---	---	28.5	25.5	26.5	24.5	22.0	23.0	---	---	---
MONTH	30.0	19.0	25.6	32.0	20.5	26.1	30.0	20.5	25.0	26.5	13.0	21.6
YEAR	32.0	0.0	12.5									

05427850 YAHARA RIVER AT STATE HIGHWAY 113 AT MADISON, WI—Continued

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.24	3.87	2.74	1.19	1.89	0.64	9.33	4.32	4.83	7.27	3.00	2.26
2	4.25	2.44	2.15	2.72	1.09	2.20	6.17	5.45	3.38	3.15	2.72	3.06
3	2.72	3.48	1.57	1.68	1.08	2.24	5.48	4.88	5.04	3.63	1.54	1.92
4	4.84	3.11	3.62	1.04	0.99	2.45	5.85	4.53	3.71	5.84	5.63	2.91
5	1.66	2.60	3.12	0.96	1.39	2.83	5.44	4.32	1.94	3.56	7.20	2.03
6	4.46	3.79	2.42	0.91	7.15	8.41	4.79	5.61	8.05	3.72	3.46	2.96
7	2.17	3.14	3.67	0.84	26.6	33.8	4.48	6.05	4.05	3.18	3.08	3.54
8	4.18	2.48	4.56	0.48	37.1	41.5	5.49	4.18	3.45	3.09	2.79	2.16
9	4.74	0.96	4.48	0.58	17.4	7.89	4.82	7.66	4.12	3.26	3.07	1.91
10	3.23	19.6	4.72	0.57	4.35	4.35	5.51	7.06	2.15	5.19	2.89	2.11
11	3.24	2.69	2.19	0.56	2.67	3.74	4.62	10.4	2.91	3.31	2.75	2.61
12	2.99	2.72	3.94	1.38	2.70	3.19	5.24	4.56	4.56	4.01	4.56	1.37
13	2.50	2.49	4.78	5.05	3.19	2.67	4.96	6.74	3.30	1.69	3.84	2.77
14	3.05	2.58	2.05	3.51	9.37	2.44	4.52	6.40	3.30	2.49	3.00	3.39
15	2.06	2.70	1.91	2.33	34.5	2.68	4.24	8.40	6.23	1.99	2.90	2.61
16	2.91	2.86	3.07	1.53	23.0	1.87	4.86	5.87	4.53	2.91	3.09	2.30
17	3.84	2.68	1.59	1.33	7.48	3.74	4.60	5.64	3.24	1.52	2.36	2.07
18	3.76	2.75	3.26	0.73	3.44	3.36	4.48	5.34	3.48	3.16	2.69	2.51
19	2.09	2.62	6.70	0.70	2.85	3.01	3.11	8.30	3.57	3.61	4.32	2.41
20	2.65	2.28	1.83	0.46	2.27	3.29	20.6	4.80	3.02	5.65	2.93	2.28
21	2.77	2.82	1.84	0.11	2.55	3.57	4.28	5.30	3.45	7.04	3.52	0.76
22	1.91	1.74	1.54	0.38	2.04	4.60	6.87	7.76	2.97	5.53	3.12	7.12
23	2.79	3.29	1.49	0.41	2.11	7.86	3.79	6.06	2.23	3.03	3.05	2.63
24	4.94	2.45	1.44	0.38	2.06	16.3	3.99	4.26	3.61	6.61	2.74	2.37
25	3.56	2.17	1.60	0.47	2.20	15.3	3.33	3.60	5.07	3.31	2.74	2.95
26	3.12	2.86	1.31	0.49	2.40	8.63	6.50	5.10	3.18	8.60	2.90	4.17
27	2.61	2.60	0.95	0.43	2.37	7.34	5.06	5.42	2.57	5.02	2.81	1.83
28	1.94	4.52	0.99	0.17	2.30	7.02	5.04	5.19	6.20	3.57	4.42	3.68
29	1.86	2.98	1.06	0.65	---	7.24	4.28	4.83	2.02	4.82	2.94	0.95
30	3.32	2.58	1.33	1.77	---	8.48	4.46	4.84	1.69	1.94	3.02	2.83
31	6.64	---	2.43	1.42	---	12.8	---	4.42	---	4.01	2.42	---
TOTAL	100.04	99.85	80.35	35.23	208.54	235.44	166.19	177.29	111.85	125.71	101.50	78.47

WTR YR 2005 TOTAL 1,520.46

05427850 YAHARA RIVER AT STATE HIGHWAY 113 AT MADISON, WI—Continued

PHOSPHORUS, WATER, UNFILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.0	36.9	26.9	12.0	9.70	30.4	102	45.3	40.3	71.4	28.1	20.7
2	39.6	23.1	21.0	27.8	11.3	23.4	66.6	57.4	34.0	30.5	25.4	28.2
3	25.2	33.2	15.3	17.1	11.2	23.9	59.0	51.2	51.1	35.2	14.3	17.6
4	45.2	29.6	35.9	10.4	10.3	26.2	63.0	47.5	37.2	56.9	53.2	26.8
5	15.2	24.7	30.8	9.70	14.5	30.3	58.5	45.2	19.3	34.4	74.5	18.6
6	41.7	36.3	23.8	9.10	76.9	91.8	51.4	58.9	81.8	35.9	32.4	27.3
7	20.0	30.0	36.5	8.40	293	377	48.0	63.5	40.6	30.6	28.7	32.7
8	39.1	23.6	45.5	4.80	411	1,660	59.0	43.5	34.5	29.6	26.0	19.8
9	44.5	9.00	44.8	5.90	191	86.1	51.7	47.2	41.2	31.3	28.6	17.5
10	30.1	22.1	47.3	5.70	46.5	46.9	59.1	74.0	21.2	56.6	26.9	19.3
11	30.3	25.8	21.7	5.60	28.3	40.3	49.4	110	28.9	31.7	25.6	24.0
12	27.9	26.0	39.5	14.1	28.7	34.2	56.1	47.4	45.6	38.5	42.7	12.5
13	18.9	23.8	48.1	52.9	34.0	28.6	53.0	70.3	32.8	16.0	35.8	25.5
14	28.5	24.8	20.4	36.5	495	26.0	48.2	66.6	32.6	23.7	27.8	36.2
15	19.1	26.0	19.0	24.1	383	28.7	45.1	87.8	62.3	18.8	26.9	24.0
16	27.2	27.5	30.7	15.8	254	102	51.8	60.9	45.0	27.7	28.6	21.1
17	36.1	25.9	15.7	13.7	81.1	40.2	49.0	58.4	32.0	14.3	21.8	18.9
18	35.4	26.6	32.8	7.50	36.8	36.0	47.6	55.2	34.3	30.0	24.9	23.1
19	19.5	25.3	8.30	7.10	30.4	32.3	32.8	86.4	35.1	34.3	40.2	22.2
20	24.8	22.0	18.3	4.70	24.1	35.3	147	49.4	29.7	54.1	27.1	21.0
21	26.0	27.3	18.4	1.10	27.1	38.3	45.4	54.6	33.9	67.6	32.7	6.80
22	17.9	16.8	15.4	3.80	21.7	49.6	73.3	49.2	29.1	52.8	28.9	66.7
23	26.2	19.3	14.9	4.20	22.4	85.6	40.0	62.4	21.7	28.6	28.2	24.2
24	54.3	23.8	14.4	3.90	21.9	180	42.1	43.6	35.3	63.2	25.2	21.8
25	33.7	21.0	16.0	4.80	23.4	168	35.0	36.7	45.5	31.2	25.3	27.3
26	29.4	27.9	13.1	4.90	25.6	94.0	69.0	52.1	31.0	82.5	26.7	38.8
27	24.6	25.3	9.50	4.40	25.3	79.7	53.5	55.4	24.9	47.6	25.9	17.4
28	18.2	44.5	9.80	1.70	24.6	76.2	53.1	53.0	61.0	33.6	41.1	34.2
29	17.5	29.3	10.6	6.70	---	78.5	45.0	49.1	19.5	45.7	27.1	8.60
30	31.5	25.3	13.4	18.5	---	92.2	46.9	49.2	16.2	18.1	27.8	26.2
31	63.8	---	24.7	14.8	---	140	---	44.8	---	37.8	22.2	---
TOTAL	941.4	782.70	742.50	361.70	2,662.80	3,881.7	1,701.6	1,776.2	1,097.6	1,210.2	950.6	729.00

WTR YR 2005 TOTAL 16,838.00

05427850 YAHARA RIVER AT STATE HIGHWAY 113 AT MADISON, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
COMPOSITE SAMPLES

Date	End date	Time	End time	Discharge, cfs (00060)	Sampling method, code (82398)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT 13-13	20041013	0300	2100	55	50	.064	17
OCT 24-24	20041024	0300	2100	114	50	.088	16
NOV 10-10	20041110	0300	2100	102	50	.040	71
NOV 23-23	20041123	0300	2100	87	50	.041	14
DEC 19-19	20041219	0300	2100	33	50	.047	76
FEB 14-14	20050214	0300	2100	86	50	.317	12
MAR 01-01	20050301	0300	2100	48	50	.118	5
MAR 08-08	20050308	0300	2100	395	50	.781	39
MAR 16-16	20050316	0300	2100	58	50	.327	12
APR 20-20	20050420	0200	2000	100	50	.272	76
MAY 09-09	20050509	0200	0930	44	50	.200	65
MAY 22-22	20050522	0300	2100	54	50	.168	53
JUN 01-01	20050601	0300	2100	45	50	.167	40
JUN 25-25	20050625	0300	2100	35	50	.238	53
JUL 10-10	20050710	0300	2100	34	50	.311	57
AUG 05-05	20050805	0300	2100	42	50	.331	64
SEP 14-14	20050914	0300	2100	47	50	.144	27
SEP 27-27	20050927	0300	2100	32	50	.100	21

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DISCRETE SAMPLES

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
FEB 01...	0850	25	50	--	.059	23
MAY 09...	0930	28	10	.006	.188	62

05427948 PHEASANT BRANCH AT MIDDLETON, WI

LOCATION.--Lat 43°06'12", long 89°30'42", in NE ¼ NW ¼ sec.11, T.7 N., R.8 E., Dane County, Hydrologic Unit 07090001, on left bank at bridge on U.S. Highway 12, 2.5 mi upstream from Lake Mendota, at Middleton.

DRAINAGE AREA.--18.3 mi^2, of which 1.22 mi^2 is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1974 to current year.

GAGE.--Water-stage recorder, crest-stage gage, parshall flume, and concrete control. Datum of gage is 901.5 ft above NGVD of 1929.

REMARKS.--Records good except those for October 17 and 18, which are fair (see Introduction). Low flows occasionally affected by construction activities upstream. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	3.5	2.8	1.7	1.5	1.9	9.0	1.6	1.4	0.87	1.2	0.59
2	4.2	6.1	2.3	11	1.5	1.7	4.9	1.7	1.3	0.80	1.1	0.57
3	3.4	4.4	2.1	7.8	1.6	1.6	3.8	1.7	1.2	0.79	1.1	0.43
4	2.7	3.9	1.9	3.8	2.1	1.6	3.5	1.6	1.2	0.86	1.1	0.41
5	2.0	3.3	1.8	2.5	22	12	3.2	1.6	2.3	0.99	1.0	0.44
6	1.8	2.7	4.8	2.2	99	71	20	2.8	1.8	0.93	0.94	0.53
7	1.8	2.4	20	2.0	151	86	50	2.3	1.4	0.96	0.88	0.57
8	9.6	2.1	14	1.8	34	17	9.3	1.8	1.3	0.92	0.97	0.52
9	6.3	2.0	5.1	1.7	9.5	5.5	4.6	1.9	2.1	0.92	1.00	0.58
10	3.3	1.9	4.8	1.7	5.1	3.7	3.5	1.7	3.6	0.88	1.0	0.60
11	2.7	1.9	5.6	1.7	4.1	3.3	3.0	17	2.9	0.87	1.1	0.45
12	2.3	1.8	4.1	10	7.4	2.8	4.1	8.6	2.1	0.86	1.4	0.56
13	2.1	1.7	3.1	51	38	2.2	3.8	9.3	2.5	1.8	1.1	0.69
14	2.0	1.6	2.1	16	140	2.1	3.0	6.0	3.1	1.3	0.92	0.68
15	2.1	1.8	2.6	4.6	61	1.9	2.6	3.7	2.5	1.1	0.92	0.75
16	2.4	2.0	2.2	2.7	22	2.1	2.3	2.9	1.7	0.86	0.88	0.69
17	2.4	1.9	2.1	1.9	6.7	2.4	2.2	2.5	1.4	0.72	0.79	0.56
18	1.9	1.9	2.0	1.6	3.7	2.5	2.1	2.1	1.2	0.73	1.3	0.49
19	2.3	2.7	1.7	1.6	2.9	2.7	2.1	8.4	1.1	0.72	1.6	1.4
20	2.1	3.0	1.7	1.6	2.9	2.8	2.9	12	1.1	2.0	1.1	1.2
21	1.9	2.3	1.7	1.5	2.9	3.4	2.4	4.5	1.0	16	0.77	0.94
22	2.0	2.0	1.6	1.6	2.6	6.0	2.2	3.4	0.96	10	0.78	1.1
23	18	1.9	1.4	1.5	2.2	24	2.3	2.7	0.92	3.9	0.73	1.1
24	9.4	1.8	1.3	1.5	2.0	31	2.2	2.2	0.88	2.8	0.70	1.0
25	3.7	1.7	1.3	1.6	2.0	22	2.2	1.9	1.3	8.0	0.68	3.3
26	1.8	1.8	1.3	1.6	1.9	7.9	2.5	1.8	3.1	28	0.75	5.8
27	2.6	3.5	1.4	1.5	1.9	5.1	2.3	1.8	1.8	7.7	0.75	3.5
28	2.4	4.3	1.5	1.4	2.0	4.4	2.0	1.6	1.3	3.2	0.60	2.9
29	2.4	3.4	1.5	1.4	---	5.2	1.7	1.5	1.1	2.1	0.66	2.7
30	5.9	2.9	1.6	1.4	---	20	1.6	1.5	1.0	1.4	0.65	2.0
31	3.3	---	2.0	1.5	---	33	---	1.5	---	1.2	0.61	---
TOTAL	113.2	78.2	103.4	145.4	633.5	388.8	161.3	115.6	50.56	104.18	29.08	37.05
MEAN	3.65	2.61	3.34	4.69	22.6	12.5	5.38	3.73	1.69	3.36	0.94	1.24
MAX	18	6.1	20	51	151	86	50	17	3.6	28	1.6	5.8
MIN	1.8	1.6	1.3	1.4	1.5	1.6	1.6	1.5	0.88	0.72	0.60	0.41
CFSM	0.21	0.15	0.20	0.27	1.32	0.73	0.31	0.22	0.10	0.20	0.05	0.07
IN.	0.25	0.17	0.23	0.32	1.38	0.85	0.35	0.25	0.11	0.23	0.06	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

MEAN	2.72	3.69	2.46	2.58	6.83	10.1	5.47	5.07	6.86	5.31	4.01	3.68
MAX	6.42	20.7	6.11	7.75	22.6	34.6	16.8	30.2	41.7	32.5	26.5	13.0
(WY)	(1987)	(2004)	(1985)	(1997)	(2005)	(1993)	(1999)	(2004)	(2000)	(1993)	(2001)	(1980)
MIN	0.86	0.67	0.34	0.36	0.46	1.63	0.95	0.96	0.92	0.94	0.92	0.74
(WY)	(1977)	(1991)	(1990)	(1991)	(1978)	(1981)	(1990)	(1977)	(1989)	(1976)	(2003)	(1976)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL TOTAL	2,515.76		1,960.27			
ANNUAL MEAN	6.87		5.37		4.91	
HIGHEST ANNUAL MEAN					11.0	1993
LOWEST ANNUAL MEAN					2.78	1977
HIGHEST DAILY MEAN	352	May 22	151	Feb 7	566	Aug 2, 2001
LOWEST DAILY MEAN	(a)0.69	Apr 10	0.41	Sep 4	0.17	Dec 25-27, 1989
ANNUAL SEVEN-DAY MINIMUM	0.93	Jan 29	0.50	Sep 2	0.18	Dec 21, 1989
MAXIMUM PEAK FLOW			192	Feb 14	964	Aug 2, 2001
MAXIMUM PEAK STAGE			6.39	Feb 14	9.88	Aug 2, 2001
INSTANTANEOUS LOW FLOW			0.40	Sep 3, 4	0.15	Dec 21, 1989
ANNUAL RUNOFF (CFSM)	0.402		0.314		0.288	
ANNUAL RUNOFF (INCHES)	5.48		4.27		3.91	
10 PERCENT EXCEEDS	11		9.1		6.9	
50 PERCENT EXCEEDS	2.5		2.0		2.0	
90 PERCENT EXCEEDS	1.3		0.86		0.85	

05427948 PHEASANT BRANCH AT MIDDLETON, WI—Continued

(a) Result of construction upstream

05427948 PHEASANT BRANCH AT MIDDLETON, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1977 to current year.
TOTAL-PHOSPHORUS DISCHARGE: January 1992 to December 1993, and October 1994 to current year.
TOTAL ORTHO-PHOSPHORUS DISCHARGE: January to September 1992.

INSTRUMENTATION.--Automatic pumping sampler since December 1977.

REMARKS.--Records good. Samples are point samples unless otherwise indicated.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 15,400 mg/L, Apr. 30, 1984; minimum observed, 3 mg/L, Sept. 28, 2005.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 2,870 tons, June 10, 1984; minimum daily, 0.01 ton, on many days in 1990, 1991, 2003, and 2005 water years.
TOTAL-PHOSPHORUS CONCENTRATIONS: Maximum observed, 15.1 mg/L, July 4, 1994; minimum observed, 0.03 mg/L, Jan. 28, 1998.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 4,310 lb, May 18, 2000; minimum daily, 0.18 lb, Sept. 4, 2005.
TOTAL ORTHO-PHOSPHORUS CONCENTRATIONS: Maximum observed, 2.40 mg/L, Feb. 29, 1992; minimum observed, 0.010 mg/L, Nov. 4, 2003.
TOTAL ORTHO-PHOSPHORUS DISCHARGE: Maximum daily, 966 lb, Feb. 28, 1992; minimum daily, 0.13 lb, Sept. 13, 1992.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 1,230 mg/L, Apr. 6; minimum observed, 3 mg/L, Sept. 28.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 42 tons, Apr. 7; minimum daily, 0.01 ton, July 10-12, 16-19, Sept. 3-5, 11, 18, and 30.
TOTAL-PHOSPHORUS CONCENTRATIONS: Maximum observed, 1.96 mg/L, Mar. 6; minimum observed, 0.083 mg/L, Sept. 1.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 1,370 lb, Feb. 7; minimum daily, 0.18 lb, Sept. 4.
TOTAL ORTHO-PHOSPHORUS CONCENTRATIONS: Maximum observed, 1.34 mg/L, Feb. 6; minimum observed, 0.020 mg/L, May 2 and July 11.

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.42	0.11	0.07	0.02	0.02	0.03	2.1	0.05	0.03	0.02	0.02	0.02
2	0.54	0.27	0.06	0.74	0.02	0.03	0.50	0.06	0.03	0.02	0.02	0.02
3	0.14	0.17	0.06	0.22	0.03	0.03	0.18	0.05	0.03	0.02	0.02	0.01
4	0.11	0.12	0.05	0.07	0.05	0.03	0.14	0.05	0.03	0.02	0.02	0.01
5	0.08	0.09	0.05	0.04	5.8	2.1	0.11	0.06	0.05	0.02	0.02	0.01
6	0.07	0.07	0.27	0.03	25	31	40	0.13	0.04	0.02	0.02	0.02
7	0.07	0.06	3.2	0.03	40	30	42	0.10	0.03	0.02	0.02	0.02
8	0.69	0.05	1.4	0.02	2.2	3.6	2.6	0.07	0.03	0.02	0.02	0.02
9	0.51	0.05	0.22	0.02	0.35	0.55	0.38	0.07	0.07	0.02	0.02	0.02
10	0.13	0.05	0.17	0.02	0.15	0.17	0.14	0.06	0.11	0.01	0.02	0.02
11	0.09	0.04	0.20	0.02	0.10	0.14	0.11	1.8	0.07	0.01	0.02	0.01
12	0.07	0.04	0.11	1.1	0.36	0.11	0.19	0.47	0.05	0.01	0.03	0.02
13	0.06	0.04	0.08	9.2	9.7	0.09	0.16	0.74	0.09	0.03	0.02	0.02
14	0.06	0.04	0.05	1.1	38	0.08	0.11	0.30	0.12	0.02	0.02	0.02
15	0.06	0.04	0.06	0.15	9.0	0.07	0.09	0.15	0.09	0.02	0.02	0.02
16	0.07	0.04	0.04	0.07	2.6	0.08	0.08	0.10	0.06	0.01	0.02	0.02
17	0.06	0.04	0.03	0.04	0.40	0.08	0.07	0.08	0.05	0.01	0.02	0.02
18	0.05	0.04	0.03	0.03	0.13	0.08	0.07	0.07	0.04	0.01	0.06	0.01
19	0.06	0.07	0.02	0.03	0.07	0.09	0.07	0.79	0.03	0.01	0.07	0.04
20	0.05	0.07	0.02	0.03	0.06	0.09	0.10	0.71	0.03	0.04	0.04	0.04
21	0.05	0.04	0.02	0.02	0.06	0.10	0.08	0.20	0.03	1.1	0.02	0.03
22	0.05	0.03	0.02	0.03	0.05	0.36	0.07	0.13	0.03	0.50	0.02	0.03
23	3.5	0.03	0.02	0.02	0.04	6.0	0.08	0.09	0.03	0.11	0.02	0.03
24	1.1	0.03	0.02	0.02	0.04	9.2	0.07	0.06	0.04	0.07	0.02	0.03
25	0.17	0.03	0.02	0.03	0.04	5.6	0.07	0.04	0.06	0.42	0.02	1.3
26	0.05	0.03	0.02	0.03	0.04	0.94	0.08	0.04	0.13	3.4	0.02	0.73
27	0.06	0.12	0.02	0.02	0.03	0.28	0.08	0.04	0.06	0.43	0.02	0.10
28	0.06	0.15	0.02	0.02	0.04	0.16	0.06	0.04	0.04	0.07	0.02	0.03
29	0.06	0.10	0.02	0.02	---	0.24	0.06	0.03	0.03	0.04	0.02	0.02
30	0.28	0.07	0.02	0.02	---	7.2	0.05	0.03	0.02	0.03	0.02	0.01
31	0.09	---	0.03	0.02	---	15	---	0.03	---	0.02	0.02	---
TOTAL	8.86	2.13	6.42	13.23	134.38	113.53	89.90	6.64	1.55	6.55	0.74	2.70

WTR YR 2005 TOTAL 386.63

05427948 PHEASANT BRANCH AT MIDDLETON, WI—Continued

PHOSPHORUS, WATER, UNFILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.13	1.30	0.94	0.70	1.13	1.24	30.1	0.78	1.20	0.59	0.74	0.26
2	2.82	2.53	0.79	18.8	1.11	1.15	11.8	0.84	1.17	0.53	0.70	0.26
3	1.32	1.70	0.71	10.1	1.15	1.10	4.22	0.82	1.13	0.52	0.68	0.19
4	0.89	1.49	0.63	3.47	1.48	1.13	1.95	0.80	1.13	0.56	0.68	0.18
5	0.64	1.23	0.59	1.78	128	56.1	1.76	0.82	2.10	0.64	0.65	0.20
6	0.58	1.00	1.80	1.56	991	657	96.1	1.41	1.67	0.59	0.60	0.23
7	0.56	0.86	20.4	1.38	1,370	644	176	1.20	1.37	0.60	0.56	0.26
8	6.00	0.75	17.7	1.23	288	106	21.7	0.95	1.24	0.57	0.62	0.23
9	5.39	0.69	5.30	1.19	72.7	21.5	6.93	1.00	2.02	0.56	0.64	0.26
10	1.88	0.67	3.33	1.21	28.3	3.63	3.64	0.93	3.43	0.53	0.65	0.26
11	1.15	0.66	3.05	1.22	14.3	2.01	2.66	15.3	2.69	0.52	0.70	0.20
12	0.90	0.61	1.83	11.3	27.8	1.69	2.92	5.66	1.96	0.51	0.90	0.25
13	0.75	0.57	1.12	122	280	1.35	2.34	8.28	2.24	1.05	0.71	0.30
14	0.69	0.53	0.67	73.7	1,060	1.24	1.61	4.85	2.77	0.78	0.59	0.30
15	0.70	0.58	0.86	23.4	417	1.17	1.39	2.84	2.19	0.68	0.59	0.33
16	0.83	0.62	0.72	8.57	148	1.27	1.22	2.17	1.53	0.51	0.57	0.30
17	0.80	0.60	0.67	3.78	43.1	1.43	1.15	1.78	1.21	0.43	0.51	0.25
18	0.64	0.59	0.63	2.33	15.2	1.50	1.14	1.49	1.00	0.44	0.83	0.22
19	0.78	0.93	0.54	1.93	7.48	1.59	1.11	6.65	0.93	0.43	0.98	0.63
20	0.71	0.99	0.54	1.66	5.56	1.64	1.59	10.0	0.94	1.20	0.65	0.53
21	0.64	0.74	0.56	1.40	4.32	2.04	1.33	3.50	0.87	15.1	0.46	0.41
22	0.71	0.63	0.52	1.40	3.05	6.14	1.21	2.61	0.79	8.92	0.45	0.46
23	16.6	0.60	0.45	1.25	1.97	117	1.29	2.10	0.74	2.83	0.41	0.46
24	9.15	0.57	0.41	1.30	1.36	200	1.20	1.72	0.65	1.79	0.38	0.45
25	2.58	0.55	0.41	1.33	1.27	141	1.24	1.51	0.96	5.04	0.36	4.31
26	0.85	0.55	0.43	1.33	1.24	42.2	1.41	1.43	2.26	39.2	0.39	6.74
27	1.13	1.35	0.45	1.23	1.23	19.7	1.32	1.48	1.29	12.2	0.38	3.01
28	1.02	1.60	0.48	1.14	1.33	10.1	1.13	1.35	0.92	3.66	0.30	1.87
29	0.99	1.19	0.50	1.07	---	9.10	0.90	1.30	0.79	1.80	0.32	1.74
30	3.11	1.01	0.51	1.05	---	45.8	0.79	1.30	0.71	1.09	0.30	1.25
31	1.32	---	0.65	1.12	---	100	---	1.28	---	0.85	0.28	---
TOTAL	68.26	27.69	68.19	304.93	4,917.08	2,200.82	383.15	88.15	43.90	104.72	17.58	26.34

WTR YR 2005 TOTAL 8,250.81

05427948 PHEASANT BRANCH AT MIDDLETON, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT						
01...	2120	6.2	50	--	.324	187
08...	0330	6.2	50	--	.132	18
08...	0945	8.4	50	--	--	18
08...	1545	12	50	--	.114	18
09...	1000	6.4	50	--	.183	32
23...	0435	5.9	50	--	.103	19
23...	0600	14	50	--	.240	159
23...	1215	23	50	--	.111	29
24...	1830	5.9	50	--	.167	27
DEC						
07...	0545	5.9	50	--	.159	49
07...	1745	30	50	--	.190	55
09...	0015	6.7	50	--	.228	27
11...	0200	6.4	50	--	--	15
JAN						
02...	0215	5.9	50	--	.308	36
02...	1430	16	50	--	.316	14
11...	0910	1.7	10	--	.131	5
12...	1700	7.3	50	--	.188	85
12...	2000	29	50	--	.204	32
13...	0345	66	50	--	.323	96
13...	1600	42	50	--	.572	52
14...	2215	8.1	50	--	1.17	14
FEB						
05...	1500	5.9	50	--	.175	16
05...	1900	48	50	--	.593	79
05...	2245	89	50	1.03	1.84	147
06...	1045	76	50	--	1.88	43
06...	1845	123	50	1.34	1.87	114
06...	2120	151	50	--	--	132
07...	0115	178	50	1.26	1.81	134
07...	0720	179	50	--	--	125
07...	1930	115	50	1.23	1.56	56
08...	1015	32	50	--	1.57	18
09...	2245	7.3	50	--	1.35	12
12...	1800	5.9	50	--	.660	14
13...	0215	22	50	--	--	40
13...	1430	16	50	--	1.28	34
13...	1930	68	50	--	1.10	74
13...	2145	116	50	1.05	1.76	147
13...	2330	143	50	--	--	153
14...	0125	170	50	.938	1.63	136
14...	1030	127	50	.854	1.33	86
14...	1900	132	50	--	1.28	92
15...	1115	53	50	--	1.25	46
16...	1130	20	50	--	--	46
17...	1200	7.0	50	--	1.24	20
MAR						
05...	1700	5.9	50	--	.320	30
05...	2100	45	50	--	1.09	86
06...	0915	20	50	--	1.73	51
06...	1530	76	50	--	1.60	122
06...	1800	149	50	--	1.96	233
07...	0615	108	50	--	1.39	125
07...	1645	66	50	--	--	119
09...	0515	6.2	50	--	.991	45
22...	1815	5.9	50	--	.220	18
23...	1000	9.3	50	--	.897	48
23...	2100	64	50	--	1.11	113
24...	1515	18	50	--	1.37	79
27...	0130	5.9	50	--	.881	29
30...	1420	9.3	50	--	.334	35
30...	1930	50	50	--	.435	166
31...	0130	56	50	--	.538	221
APR						
01...	2015	6.7	50	--	.650	72
06...	1940	18	50	--	.224	32
06...	1955	53	50	--	1.02	1,050
06...	2010	80	50	--	--	1,230
06...	2100	104	50	--	1.09	960
07...	0745	60	50	--	.581	230
08...	2015	6.4	50	--	.384	74
29...	1007	1.7	50	--	.106	12
29...	1008	1.7	10	--	.091	27

05427948 PHEASANT BRANCH AT MIDDLETON, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
MAY						
02...	0920	1.8	10	<.02	.09	28
11...	0605	14	50	--	.251	88
11...	1215	24	50	--	.152	31
14...	0945	6.2	50	--	.147	17
19...	0140	6.1	50	--	--	29
20...	0200	16	50	--	--	21
21...	0230	5.6	50	--	--	18
JUN						
08...	1045	1.3	10	.04	.18	8
23...	1030	.91	10	.03	.15	10
24...	1100	.85	10	--	.137	21
JUL						
11...	1330	.88	10	E.02	.11	6
21...	0920	9.8	50	--	.167	9
21...	1545	25	50	--	.195	42
22...	1600	6.7	50	--	.153	12
26...	0600	34	50	--	.201	29
27...	1230	6.7	50	--	.296	14
AUG						
18...	0815	.88	10	.05	.12	19
SEP						
01...	0640	.65	10	--	.083	11
25...	1245	6.2	50	--	.288	245
28...	0910	2.5	10	--	.118	3

054279509 PHEASANT BRANCH TRIBUTARY AT MIDDLETON, WI

LOCATION.--Lat 43°07'10", long 89°29'02", in SE ¼ SE ¼ sec.36, T.8 N., R.8 E., Dane County, Hydrologic Unit 07090001, on left bank about 1.0 mi from County Highway M and Q bridge in Middleton, and approximately 1.1 mi from mouth.

PERIOD OF RECORD.--October 2000 to December 2004 (discontinued).

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 840 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. Gage-height telemeter at station. Drainage area is not listed because discharge is primarily from springs. On Jan. 22, 2003, the ditch that diverted water from some contriubuting springs to the flume was filled in and the flow from these springs now bypasses the flume.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.7	2.5	---	---	---	---	---	---	---	---	---
2	2.5	2.7	2.4	---	---	---	---	---	---	---	---	---
3	2.5	2.7	2.5	---	---	---	---	---	---	---	---	---
4	2.5	2.7	2.6	---	---	---	---	---	---	---	---	---
5	2.5	2.6	2.5	---	---	---	---	---	---	---	---	---
6	2.5	2.6	2.6	---	---	---	---	---	---	---	---	---
7	2.6	2.6	2.8	---	---	---	---	---	---	---	---	---
8	2.7	2.6	2.6	---	---	---	---	---	---	---	---	---
9	2.6	2.6	2.6	---	---	---	---	---	---	---	---	---
10	2.7	2.6	2.6	---	---	---	---	---	---	---	---	---
11	2.5	2.6	2.5	---	---	---	---	---	---	---	---	---
12	2.6	2.6	2.5	---	---	---	---	---	---	---	---	---
13	2.7	2.7	2.4	---	---	---	---	---	---	---	---	---
14	2.6	2.8	2.4	---	---	---	---	---	---	---	---	---
15	2.6	2.9	2.4	---	---	---	---	---	---	---	---	---
16	2.6	2.8	2.4	---	---	---	---	---	---	---	---	---
17	2.6	2.6	2.5	---	---	---	---	---	---	---	---	---
18	2.7	2.6	2.5	---	---	---	---	---	---	---	---	---
19	2.6	2.6	2.5	---	---	---	---	---	---	---	---	---
20	2.6	2.5	2.5	---	---	---	---	---	---	---	---	---
21	2.6	2.5	2.5	---	---	---	---	---	---	---	---	---
22	2.6	2.5	2.5	---	---	---	---	---	---	---	---	---
23	2.8	2.5	2.5	---	---	---	---	---	---	---	---	---
24	2.7	2.5	e2.4	---	---	---	---	---	---	---	---	---
25	2.6	2.5	2.4	---	---	---	---	---	---	---	---	---
26	2.6	2.5	2.3	---	---	---	---	---	---	---	---	---
27	2.6	2.6	2.3	---	---	---	---	---	---	---	---	---
28	2.6	2.5	2.3	---	---	---	---	---	---	---	---	---
29	2.7	2.5	2.3	---	---	---	---	---	---	---	---	---
30	2.7	2.5	2.4	---	---	---	---	---	---	---	---	---
31	2.7	---	2.4	---	---	---	---	---	---	---	---	---
TOTAL	81.0	78.2	76.6	---	---	---	---	---	---	---	---	---
MEAN	2.61	2.61	2.47	---	---	---	---	---	---	---	---	---
MAX	2.8	2.9	2.8	---	---	---	---	---	---	---	---	---
MIN	2.5	2.5	2.3	---	---	---	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	3.67	3.76	3.55	3.59	3.45	3.58	3.46	3.82	3.64	3.52	3.13	3.06
MAX	4.73	4.71	4.65	4.34	4.74	4.70	4.72	4.70	5.27	4.81	4.61	4.35
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)
MIN	2.21	2.61	2.31	2.28	2.34	2.50	2.34	2.50	2.31	2.22	2.11	2.27
(WY)	(2004)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 CALENDAR YEAR (October - December)		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	958.0		235.8			
ANNUAL MEAN	2.62		2.56		3.55	
HIGHEST ANNUAL MEAN					4.69	2002
LOWEST ANNUAL MEAN					2.56	2005
HIGHEST DAILY MEAN	(e)18	May 22	2.9	Nov 15	(e)18	May 22, 2004
LOWEST DAILY MEAN	2.2	(a)Jan 4	2.3	Dec 26-29	2.0	(a)Jul 19, 2003
ANNUAL SEVEN-DAY MINIMUM	2.2	Jan 4	(e)2.3	Dec 24	2.0	Jul 19, 2003
MAXIMUM PEAK FLOW			3.3	Nov 15	(b)	Jun 3, 2002
MAXIMUM PEAK STAGE			10.58	Nov 15	14.71	Aug 2, 2001
INSTANTANEOUS LOW FLOW			2.2	Dec 26, 27	1.9	(c)Aug 14, 2003
10 PERCENT EXCEEDS	2.7		2.7		4.7	
50 PERCENT EXCEEDS	2.5		2.6		4.0	
90 PERCENT EXCEEDS	2.3		2.4		2.3	

(a) Also occurred many other days
(b) Discharge unknown
(c) Also occurred Aug. 11, 2003
(e) Estimated

05427965 SPRING HARBOR STORM SEWER AT MADISON, WI

LOCATION.--Lat 43°04'45", long 89°28'15", in NW ¼ SE ¼ sec.18, T.7 N., R.9 E., Dane County, Hydrologic Unit 07090001, in city park near the junction of Spring Harbor Drive and University Avenue in Madison.

DRAINAGE AREA.--3.29 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1976 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 855.3 ft above NGVD of 1929.

REMARKS.--Records good except those for periods of flow between 0.00 ft^3/s and 0.3 ft^3/s and flow greater than 100 ft^3/s, which are poor (see Introduction). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	3.2	0.19	0.85	0.12	0.24	0.58	0.00	0.00	0.00	0.00	0.00
2	4.4	3.5	0.15	8.4	0.12	0.14	0.39	0.00	0.00	0.00	0.00	0.00
3	0.42	0.42	0.14	0.95	0.17	0.13	0.33	0.00	0.01	0.00	0.00	0.00
4	0.14	2.3	0.15	0.32	1.7	0.17	0.30	0.02	0.00	0.02	0.07	0.00
5	0.07	0.44	0.62	0.17	8.6	2.5	0.47	0.00	2.7	0.01	0.01	0.00
6	0.09	0.20	6.1	0.16	17	9.7	9.9	3.4	0.26	0.01	0.00	0.00
7	0.05	0.12	17	0.17	15	10	6.0	0.57	0.21	0.00	0.00	0.00
8	13	0.10	2.0	0.15	1.2	0.75	0.78	0.19	0.42	0.00	0.00	0.00
9	0.94	0.10	0.42	0.14	0.35	0.27	0.43	0.26	1.5	0.00	0.00	0.00
10	0.27	0.15	3.3	0.14	0.27	0.44	0.28	0.22	1.5	0.00	0.01	0.00
11	0.12	0.21	2.0	0.11	0.34	0.85	0.19	14	0.29	0.00	0.44	0.00
12	0.06	0.14	0.43	27	1.5	0.46	3.5	1.2	0.16	0.00	2.0	0.00
13	0.05	0.10	0.25	13	13	0.30	1.2	8.9	0.42	0.28	0.22	0.34
14	0.05	0.10	0.16	0.87	16	0.20	1.2	0.69	0.42	0.05	0.05	0.49
15	0.05	0.17	0.15	0.24	4.1	0.24	2.7	0.41	0.49	0.02	0.00	0.93
16	0.05	0.22	0.15	0.09	0.64	0.50	0.29	0.18	0.19	0.00	0.00	0.01
17	0.05	0.31	0.15	0.06	0.24	0.24	0.22	0.03	0.07	0.03	0.00	0.00
18	0.05	0.52	0.13	0.17	0.10	0.98	0.75	0.12	0.00	0.00	7.5	0.00
19	0.98	3.6	0.03	0.12	0.13	1.4	0.51	27	0.00	0.00	2.9	0.94
20	0.40	1.4	0.00	0.08	0.20	2.0	1.4	5.0	0.03	5.2	0.29	0.02
21	0.17	0.35	0.00	0.09	0.82	2.0	0.47	0.41	0.05	16	0.09	0.02
22	1.2	0.19	0.00	0.09	0.98	1.4	0.54	0.39	0.03	1.9	0.00	0.71
23	20	0.14	0.00	0.08	0.52	2.1	0.74	0.09	0.04	1.1	0.00	0.58
24	1.3	0.12	0.00	0.10	0.35	2.8	0.33	0.04	0.01	0.28	0.00	0.21
25	0.25	0.12	0.00	0.13	0.30	2.1	0.66	0.00	5.3	5.5	0.00	12
26	0.58	0.17	0.00	0.13	0.27	1.4	0.55	0.00	6.6	13	0.14	3.6
27	0.70	6.6	0.00	0.06	0.26	1.3	0.32	2.2	0.47	0.81	0.11	0.25
28	0.26	1.8	0.02	0.05	0.35	1.5	0.27	0.35	0.23	0.21	0.00	1.3
29	0.42	0.39	0.03	0.05	---	1.4	0.08	0.13	0.12	0.04	0.00	1.0
30	2.8	0.24	0.12	0.05	---	13	0.00	0.03	0.03	0.00	0.00	0.20
31	0.35	---	0.24	0.09	---	4.5	---	0.00	---	0.00	0.00	---
TOTAL	55.77	27.42	33.93	54.11	84.63	65.01	35.38	65.83	21.55	44.46	13.83	22.60
MEAN	1.80	0.91	1.09	1.75	3.02	2.10	1.18	2.12	0.72	1.43	0.45	0.75
MAX	20	6.6	17	27	17	13	9.9	27	6.6	16	7.5	12
MIN	0.05	0.10	0.00	0.05	0.10	0.13	0.00	0.00	0.00	0.00	0.00	0.00
CFSM	0.55	0.28	0.33	0.53	0.92	0.64	0.36	0.65	0.22	0.44	0.14	0.23
IN.	0.63	0.31	0.38	0.61	0.96	0.74	0.40	0.74	0.24	0.50	0.16	0.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2005, BY WATER YEAR (WY)

MEAN	1.10	1.33	0.56	0.54	1.41	2.02	1.88	1.92	2.51	2.10	1.89	1.71
MAX	3.19	6.60	1.99	1.75	3.60	6.97	6.26	8.04	7.20	6.51	5.01	4.97
(WY)	(1985)	(2004)	(1985)	(2005)	(1994)	(1993)	(1999)	(2004)	(2000)	(1993)	(2001)	(1980)
MIN	0.11	0.03	0.00	0.00	0.05	0.19	0.54	0.25	0.33	0.24	0.11	0.11
(WY)	(2001)	(1977)	(1990)	(1977)	(1978)	(1999)	(1985)	(1994)	(1987)	(2001)	(2003)	(1976)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1976 - 2005
ANNUAL TOTAL	759.34	524.52	
ANNUAL MEAN	2.07	1.44	1.59
HIGHEST ANNUAL MEAN			3.09 1993
LOWEST ANNUAL MEAN			0.97 1988
HIGHEST DAILY MEAN	58 May 22	27 (a)Jan 12	79 Aug 2, 2001
LOWEST DAILY MEAN	0.00 many days	0.00 many days	0.00 many days
ANNUAL SEVEN-DAY MINIMUM	0.00 (b)Jan 2	0.00 (c)Dec 20	0.00 (d)
MAXIMUM PEAK FLOW		522 May 19	754 Jul 5, 1993
MAXIMUM PEAK STAGE		3.56 May 19	4.16 Jul 5, 1993
ANNUAL RUNOFF (CFSM)	0.631	0.437	0.483
ANNUAL RUNOFF (INCHES)	8.59	5.93	6.56
10 PERCENT EXCEEDS	5.7	3.5	3.5
50 PERCENT EXCEEDS	0.21	0.21	0.14
90 PERCENT EXCEEDS	0.02	0.00	0.00

(a) Also occurred May 19
(b) Also occurred Dec. 20
(c) Also occurred Aug. 28
(d) Annual seven-day minimum flows are 0.00 for most years

05427965 SPRING HARBOR STORM SEWER AT MADISON, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1976 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1991 to current year.

INSTRUMENTATION.--Automatic pumping sampler.

REMARKS.--Records good. Samples are point samples unless otherwise indicated.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 3,870 mg/L, July 4, 1994; minimum observed, 1 mg/L, Aug. 6, 1993, Sept. 15, 1998, and July 26, 1999.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 137 tons, June 17, 1996; minimum daily, 0.00 ton, on many days.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 2,900 mg/L, Aug. 3; minimum observed, 4 mg/L, July 31.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 69 tons, May 21; minimum daily, 0.00 ton, on many days.

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	0.24	0.00	0.04	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
2	0.27	0.11	0.00	0.81	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
4	0.00	0.09	0.00	0.00	0.13	0.00	0.01	0.00	0.00	0.00	0.00	0.00
5	0.00	0.01	0.03	0.00	0.82	0.21	0.02	0.00	0.48	0.00	0.00	0.00
6	0.00	0.00	0.36	0.00	2.9	3.3	13	2.2	0.00	0.00	0.00	0.00
7	0.00	0.00	3.1	0.00	2.4	3.2	0.73	0.06	0.00	0.00	0.00	0.00
8	2.9	0.00	0.04	0.00	0.04	0.02	0.02	0.03	0.00	0.00	0.00	0.00
9	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.30	0.00	0.00	0.00
10	0.00	0.00	0.12	0.00	0.00	0.01	0.00	0.09	0.08	0.00	0.00	0.00
11	0.00	0.00	0.04	0.00	0.00	0.02	0.00	3.4	0.00	0.00	0.04	0.00
12	0.00	0.00	0.00	9.9	0.09	0.01	1.2	0.10	0.00	0.00	0.18	0.00
13	0.00	0.00	0.00	0.96	2.1	0.00	0.06	3.2	0.00	0.00	0.00	0.04
14	0.00	0.00	0.00	0.03	1.9	0.00	0.09	0.02	0.00	0.00	0.00	0.05
15	0.00	0.00	0.00	0.00	0.20	0.00	0.74	0.00	0.00	0.00	0.00	0.11
16	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.01	0.00	0.00	0.00	0.04	0.02	0.00	0.00	0.00	5.2	0.00
19	0.03	0.29	0.00	0.00	0.00	0.10	0.02	48	0.00	0.00	0.14	0.12
20	0.01	0.05	0.00	0.00	0.00	0.29	0.11	0.81	0.00	4.2	0.00	0.00
21	0.00	0.00	0.00	0.00	0.03	0.31	0.02	0.00	0.00	19	0.00	0.00
22	0.09	0.00	0.00	0.00	0.03	0.23	0.02	0.01	0.00	0.08	0.00	0.02
23	2.1	0.00	0.00	0.00	0.02	0.35	0.03	0.00	0.00	0.10	0.00	0.01
24	0.03	0.00	0.00	0.00	0.01	0.48	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.28	0.02	0.00	4.3	1.7	0.00	4.9
26	0.02	0.00	0.00	0.00	0.00	0.13	0.02	0.00	0.75	1.1	0.00	0.15
27	0.02	0.45	0.00	0.00	0.00	0.10	0.00	0.14	0.01	0.01	0.00	0.00
28	0.00	0.03	0.00	0.00	0.01	0.11	0.00	0.00	0.00	0.00	0.00	0.05
29	0.08	0.00	0.00	0.00	---	0.08	0.00	0.00	0.00	0.00	0.00	0.03
30	0.34	0.00	0.00	0.00	---	31	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.66	---	0.00	---	0.00	0.00	---
TOTAL	12.20	1.28	3.69	11.76	10.70	40.94	16.20	58.13	5.92	26.19	5.56	5.48

WTR YR 2005 TOTAL 198.05

05427965 SPRING HARBOR STORM SEWER AT MADISON, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Suspended sediment concentration mg/L (80154)
OCT				
01...	1920	35	50	544
01...	1950	106	50	642
01...	2045	26	50	242
02...	0255	9.6	50	19
02...	0905	4.4	50	9
08...	0305	46	50	406
08...	0325	87	50	184
08...	0450	44	50	93
08...	0900	14	50	15
08...	1815	4.7	50	8
22...	2325	5.2	50	24
23...	0455	51	50	84
23...	0800	33	50	36
23...	1410	15	50	15
23...	2325	5.0	50	8
30...	0125	6.4	50	84
30...	0430	4.4	50	24
NOV				
01...	1830	12	50	45
02...	0040	8.2	50	11
02...	0650	4.7	50	8
04...	0450	5.2	50	17
19...	1140	7.7	50	61
19...	1750	5.0	50	18
27...	1215	13	50	40
27...	1520	17	50	33
28...	0035	4.7	50	7
DEC				
06...	0035	16	50	60
06...	0645	9.6	50	12
06...	1255	4.4	50	8
07...	0635	16	50	51
07...	0725	42	50	218
07...	1030	34	50	56
07...	1640	16	50	18
08...	0155	5.0	50	9
10...	1620	4.7	50	18
10...	1925	7.7	50	18
11...	0135	4.4	50	7
JAN				
02...	1320	12	50	39
02...	1930	4.1	50	6
12...	1510	20	50	333
12...	1645	92	50	258
12...	1740	131	50	145
13...	0300	23	50	30
13...	0910	15	50	22
FEB				
04...	1905	4.1	50	39
05...	1355	9.2	50	59
05...	1700	20	50	39
06...	0825	7.2	50	11
06...	2015	40	50	130
07...	0835	20	50	38
07...	2055	4.7	50	12
12...	1640	5.2	50	34
13...	1410	14	50	80
13...	2325	36	50	49
14...	0840	10	50	29
14...	1145	23	50	69
14...	1450	21	50	55
15...	0005	4.4	50	13
15...	0445	7.7	50	21
15...	0750	4.4	50	16
15...	1610	5.0	50	19

05427965 SPRING HARBOR STORM SEWER AT MADISON, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Suspended sediment concentration mg/L (80154)
MAR				
05...	1600	10	50	57
05...	1905	5.0	50	27
06...	1235	22	50	147
06...	1540	28	50	208
06...	2150	10	50	39
07...	0215	38	50	376
07...	0455	16	50	70
07...	1410	5.5	50	23
20...	1615	4.1	50	57
24...	1650	6.7	50	64
26...	1435	4.4	50	35
28...	1530	4.7	50	25
30...	1425	85	50	3,230
30...	1605	16	50	978
30...	1925	30	50	338
31...	0135	12	50	74
31...	0745	5.2	50	42
APR				
06...	1915	90	50	1,440
06...	2025	119	50	734
06...	2230	38	50	195
07...	0435	11	50	34
07...	1045	4.4	50	14
12...	1025	20	50	274
15...	0025	23	50	153
15...	0235	4.7	50	30
MAY				
06...	0650	8.7	50	187
06...	0700	34	50	615
06...	0825	8.2	50	276
06...	1130	4.1	50	25
11...	0510	29	50	213
11...	0600	54	50	154
11...	0805	34	50	92
11...	0806	34	10	135
11...	1130	14	50	30
11...	2350	4.4	50	7
13...	0220	26	50	297
13...	0255	52	50	360
13...	0720	14	50	27
13...	1635	4.1	50	10
19...	0035	26	50	185
19...	0115	49	50	139
19...	0540	12	50	29
19...	1455	5.5	50	7
19...	1605	167	50	893
19...	1615	351	50	1,130
19...	1620	308	50	2,310
19...	1650	219	50	1,990
19...	1715	87	50	1,220
19...	1805	54	50	503
19...	2240	18	50	114
20...	1100	4.1	50	36
JUN				
05...	0235	12	50	156
09...	1840	10	50	460
25...	2105	125	50	475
25...	2150	31	50	410
26...	0400	11	50	19
26...	1315	4.1	50	8

05427965 SPRING HARBOR STORM SEWER AT MADISON, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Suspended sediment concentration mg/L (80154)
JUL				
20...	1010	46	50	533
20...	1040	74	50	707
20...	1150	12	50	291
20...	1800	4.1	50	7
21...	0915	118	50	330
21...	0935	337	50	1,220
21...	1000	80	50	873
21...	1210	23	50	116
21...	1515	15	50	37
23...	1250	5.0	50	45
25...	1540	38	50	841
25...	2025	5.5	50	9
25...	2055	23	50	96
26...	0120	36	50	85
26...	0730	12	50	11
26...	1950	4.4	50	7
AUG				
12...	0130	3.2	50	58
18...	0925	21	50	155
18...	1215	3.4	50	43
18...	1835	77	50	1,050
18...	2010	17	50	123
19...	0525	5.2	50	10
SEP				
15...	0010	15	50	77
19...	0820	5.0	50	71
25...	1025	32	50	263
25...	1050	18	50	226
25...	1120	22	50	714
25...	1210	47	50	336
25...	1710	11	50	17
25...	2015	28	50	88
25...	2320	11	50	26
26...	0835	4.1	50	11

05428000 LAKE MENDOTA AT MADISON, WI

LOCATION.--Lat 43°05'42", long 89°22'12", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.12, T.7 N., R.9 E., Dane County, Hydrologic Unit 07090001, in county boat house at dam at outlet, in Madison.

DRAINAGE AREA.--233 mi^2. Area of Lake Mendota, 15.2 mi^2.

PERIOD OF RECORD.--January 1916 to January 1985 (incomplete), February 1985 to current year.

REVISED RECORDS.--WDR WI-73-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 840.00 ft above NGVD of 1929, or 5.60 ft below City of Madison datum. Prior to Oct. 1, 1979, at datum 7.82 ft higher; prior to Nov. 15, 1971, nonrecording gage at same site at the higher datum.

REMARKS.--Lake level regulated by concrete dam with two 12-foot gates and 20-foot lock at outlet. Gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 12.75 ft, June 5, 2000; minimum observed, 8.02 ft, Feb. 24 to Mar. 10, 1920, current datum.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 10.28 ft, July 25; minimum recorded, 8.67 ft, Dec. 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.54	9.80	9.15	8.75	9.06	9.98	10.11	9.83	9.83	9.85	9.96	9.75
2	9.58	9.83	9.11	8.79	9.06	9.95	10.11	9.81	9.81	9.82	9.95	9.72
3	9.55	9.81	9.07	8.81	9.06	9.93	10.10	9.78	9.80	9.80	9.94	9.69
4	9.54	9.81	9.06	8.81	9.06	9.91	10.09	9.78	9.79	9.81	9.95	9.68
5	9.51	9.76	9.03	8.83	9.06	9.88	10.08	9.76	9.81	9.82	9.93	9.67
6	9.52	9.72	9.06	8.87	9.10	9.88	10.10	9.77	9.82	9.82	9.92	9.66
7	9.54	9.70	9.12	8.87	9.24	9.99	10.20	9.78	9.83	9.81	9.91	9.67
8	9.62	9.65	9.14	8.87	9.40	10.09	10.19	9.76	9.83	9.80	9.90	9.66
9	9.63	9.61	9.15	8.87	9.51	10.12	10.17	9.76	9.84	9.79	9.90	9.65
10	9.62	9.59	9.17	8.88	9.55	10.13	10.15	9.76	9.87	9.78	9.89	9.65
11	9.62	9.56	9.18	8.88	9.57	10.13	10.14	9.81	9.93	9.78	9.88	9.64
12	9.63	9.52	9.20	8.91	9.58	10.12	10.13	9.80	9.94	9.77	9.90	9.65
13	9.63	9.49	9.17	8.99	9.61	10.10	10.14	9.83	9.94	9.78	9.88	9.64
14	9.62	9.46	9.07	9.01	9.74	10.08	10.12	9.85	9.94	9.78	9.88	9.64
15	9.62	9.43	9.04	9.02	9.91	10.05	10.10	9.84	9.93	9.78	9.87	9.62
16	9.63	9.42	9.03	9.02	10.01	10.03	10.09	9.82	9.91	9.77	9.86	9.61
17	9.58	9.42	8.98	9.02	10.06	10.02	10.09	9.81	9.89	9.76	9.85	9.59
18	9.57	9.40	8.99	9.02	10.07	10.03	10.08	9.80	9.87	9.76	9.87	9.58
19	9.58	9.41	8.91	9.02	10.08	10.04	10.07	9.87	9.86	9.71	9.90	9.61
20	9.59	9.40	8.88	9.03	10.11	10.01	10.08	9.92	9.86	9.75	9.90	9.61
21	9.59	9.36	8.89	9.04	10.12	9.99	10.04	9.92	9.86	9.85	9.88	9.60
22	9.59	9.33	8.82	9.08	10.11	9.97	10.03	9.94	9.85	9.88	9.84	9.62
23	9.71	9.31	8.81	9.08	10.10	9.96	10.01	9.94	9.81	9.88	9.82	9.60
24	9.74	9.28	8.79	9.08	10.09	9.98	9.97	9.92	9.82	9.92	9.79	9.59
25	9.75	9.24	8.78	9.08	10.07	10.01	9.94	9.91	9.82	9.95	9.78	9.63
26	9.76	9.20	8.77	9.08	10.04	10.02	9.93	9.91	9.85	10.03	9.78	9.69
27	9.78	9.23	8.76	9.07	10.02	10.03	9.92	9.91	9.84	10.01	9.80	9.68
28	9.78	9.23	8.75	9.07	10.01	10.02	9.89	9.90	9.84	10.00	9.78	9.69
29	9.78	9.19	8.74	9.07	---	10.02	9.88	9.88	9.83	9.99	9.77	9.68
30	9.83	9.17	8.74	9.07	---	10.04	9.86	9.88	9.90	9.97	9.77	9.64
31	9.80	---	8.75	9.07	---	10.09	---	9.85	---	9.97	9.75	---
MEAN	9.64	9.48	8.97	8.97	9.69	10.02	10.06	9.84	9.86	9.84	9.86	9.65
MAX	9.83	9.83	9.20	9.08	10.12	10.13	10.20	9.94	9.94	10.03	9.96	9.75
MIN	9.51	9.17	8.74	8.75	9.06	9.88	9.86	9.76	9.79	9.71	9.75	9.58

05428500 YAHARA RIVER AT EAST MAIN STREET AT MADISON, WI

LOCATION.--Lat 43°05'22", long 89°21'39", in sec.7, T.7 N., R.10 E., Dane County, Hydrologic Unit 07090001, at Main Street bridge in Madison.

DRAINAGE AREA.--233 mi^2, of which 36.5 mi^2 is non-contributing.

PERIOD OF RECORD.--November 2003 to current year.

GAGE.--Water-stage recorder. Side-looking velocity meter system. Elevation of gage is 840 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair (see Introduction). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	91	203	62	89	205	188	131	106	15	16	16
2	20	96	214	76	84	202	183	118	102	21	19	13
3	25	174	164	77	82	206	196	106	56	21	16	13
4	20	223	137	76	80	196	191	117	93	13	16	15
5	20	217	119	80	83	191	193	127	106	18	22	13
6	21	206	136	79	84	196	221	161	71	24	21	12
7	18	205	161	75	83	198	202	124	27	35	19	12
8	28	195	137	72	82	190	175	118	25	28	17	1.8
9	25	182	110	73	83	197	174	110	30	23	18	14
10	23	191	130	73	83	211	176	137	34	20	17	11
11	19	181	144	79	81	194	158	157	33	21	16	16
12	21	174	161	102	77	190	168	89	34	18	19	17
13	15	175	214	68	91	188	155	132	26	17	20	13
14	17	159	183	64	85	184	153	130	28	15	21	10
15	26	162	154	57	94	190	154	159	32	22	18	11
16	23	166	218	60	103	196	173	152	40	21	23	8.8
17	21	160	141	60	115	197	167	147	56	19	24	14
18	25	166	125	71	129	197	161	105	51	14	27	12
19	19	170	105	66	140	201	182	99	40	9.2	22	16
20	24	192	120	75	153	193	190	70	36	21	32	11
21	22	185	135	78	138	185	124	85	32	19	26	12
22	25	188	129	84	139	176	122	97	38	14	20	13
23	38	177	119	68	135	183	158	96	35	14	29	8.2
24	28	162	114	64	206	179	156	98	31	12	22	11
25	21	162	123	80	227	177	143	91	33	11	23	28
26	22	163	99	81	219	181	140	98	26	17	28	11
27	26	192	86	81	216	187	147	102	26	25	25	15
28	55	189	85	81	214	177	147	97	23	20	20	16
29	94	157	84	83	---	182	149	103	27	20	16	6.2
30	111	159	67	85	---	204	146	103	18	26	17	8.7
31	92	---	61	94	---	192	---	105	---	18	15	---
TOTAL	971	5,219	4,178	2,324	3,395	5,945	4,992	3,564	1,315	591.2	644	378.7
MEAN	31.3	174	135	75.0	121	192	166	115	43.8	19.1	20.8	12.6
MAX	111	223	218	102	227	211	221	161	106	35	32	28
MIN	15	91	61	57	77	176	122	70	18	9.2	15	1.8
CFSM	0.13	0.74	0.57	0.32	0.52	0.82	0.71	0.49	0.19	0.08	0.09	0.05
IN.	0.15	0.83	0.66	0.37	0.54	0.94	0.79	0.56	0.21	0.09	0.10	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	31.3	174	125	83.5	105	141	158	137	168	132	63.2	40.4
MAX	31.3	174	135	91.9	121	192	166	159	293	246	106	68.2
(WY)	(2005)	(2005)	(2005)	(2004)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	31.3	174	116	75.0	88.5	89.6	150	115	43.8	19.1	20.8	12.6
(WY)	(2005)	(2005)	(2004)	(2005)	(2004)	(2004)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	49,717		33,516.9			
ANNUAL MEAN	136		91.8		91.8	
HIGHEST ANNUAL MEAN					91.8	2005
LOWEST ANNUAL MEAN					91.8	2005
HIGHEST DAILY MEAN	451	Jun 7	227	Feb 25	451	Jun 7, 2004
LOWEST DAILY MEAN	15	Oct 13	1.8	Sep 8	1.8	Sep 8, 2005
ANNUAL SEVEN-DAY MINIMUM	20	Oct 11	11	Sep 4	11	Sep 4, 2005
ANNUAL RUNOFF (CFSM)	0.578		0.391		0.391	
ANNUAL RUNOFF (INCHES)	7.87		5.31		5.31	
10 PERCENT EXCEEDS	287		191		191	
50 PERCENT EXCEEDS	99		83		83	
90 PERCENT EXCEEDS	42		16		16	

05429000 LAKE MONONA AT MADISON, WI

LOCATION.--Lat 43°03'48", long 89°23'49', in SE $^1/_4$ SW $^1/_4$ sec.23, T.7 N., R.9 E., Dane County, Hydrologic Unit 07090001, in Brittingham Park, in Madison.

DRAINAGE AREA.--279 mi^2. Area of Lake Monona, 5.3 mi^2.

PERIOD OF RECORD.--September 1915 to current year (fragmentary) in reports of the Geological Survey. For 1856 to March 1917 in reports of Wisconsin Railroad Commission, volume 19.

REVISED RECORDS.--WSP 1338: Lake area. WDR WI-73-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 840.00 ft above NGVD of 1929, or 5.60 ft below City of Madison datum. Prior to Oct. 1, 1979, datum 3.61 ft higher; prior to Nov. 15, 1971, nonrecording gage at same site at the higher datum.

REMARKS.--Lake level regulated by concrete dam with four 12-foot stop-log sections and 12-foot lock at outlet of Lake Waubesa. Gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 7.48 ft, June 14, 15, 2000; minimum observed, 3.22 ft, Jan. 20, 1965, current datum.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 5.31 ft, May 20; minimum recorded, 4.20 ft, Feb. 3-5.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.98	4.57	4.84	4.54	4.24	4.65	5.04	4.84	4.92	4.85	4.94	4.84
2	4.98	4.61	4.85	4.57	4.22	4.65	5.03	4.82	4.92	4.85	4.93	4.82
3	4.93	4.64	4.85	4.56	4.21	4.66	5.03	4.82	4.93	4.84	4.91	4.81
4	4.87	4.70	4.82	4.52	4.20	4.66	5.03	4.83	4.95	4.84	4.90	4.81
5	4.82	4.74	4.81	4.50	4.20	4.66	5.02	4.85	4.99	4.85	4.88	4.81
6	4.78	4.78	4.83	4.52	4.22	4.69	5.03	4.92	5.00	4.87	4.87	4.80
7	4.74	4.81	4.88	4.50	4.33	4.76	5.18	4.97	5.00	4.87	4.86	4.80
8	4.78	4.83	4.91	4.48	4.39	4.79	5.18	4.99	5.00	4.87	4.85	4.79
9	4.76	4.86	4.92	4.46	4.41	4.80	5.17	5.01	5.00	4.86	4.84	4.78
10	4.74	4.88	4.92	4.43	4.40	4.82	5.16	5.02	5.01	4.85	4.83	4.77
11	4.71	4.88	4.90	4.40	4.38	4.84	5.15	5.16	5.04	4.85	4.82	4.76
12	4.67	4.87	4.86	4.43	4.37	4.83	5.14	5.21	5.03	4.84	4.83	4.74
13	4.63	4.86	4.79	4.57	4.37	4.83	5.10	5.25	5.03	4.84	4.83	4.72
14	4.59	4.86	4.81	4.59	4.49	4.83	5.06	5.24	5.00	4.84	4.84	4.70
15	4.54	4.85	4.82	4.58	4.56	4.82	5.03	5.21	4.97	4.82	4.84	4.68
16	4.46	4.86	4.83	4.55	4.59	4.82	4.99	5.19	4.95	4.82	4.83	4.67
17	4.41	4.86	4.83	4.51	4.58	4.81	4.96	5.17	4.94	4.82	4.82	4.66
18	4.41	4.86	4.79	4.49	4.58	4.84	4.93	5.15	4.94	4.78	4.82	4.66
19	4.39	4.88	4.75	4.46	4.57	4.87	4.91	5.20	4.93	4.75	4.89	4.66
20	4.36	4.88	4.74	4.43	4.59	4.89	4.93	5.30	4.92	4.78	4.90	4.66
21	4.34	4.87	4.73	4.41	4.60	4.90	4.91	5.29	4.91	4.86	4.89	4.66
22	4.33	4.86	4.71	4.43	4.60	4.93	4.91	5.25	4.90	4.91	4.89	4.67
23	4.42	4.86	4.70	4.41	4.59	4.94	4.88	5.21	4.88	4.92	4.89	4.66
24	4.45	4.84	4.69	4.40	4.58	4.95	4.84	5.17	4.87	4.93	4.89	4.65
25	4.45	4.82	4.69	4.38	4.60	4.96	4.84	5.13	4.89	4.94	4.89	4.68
26	4.45	4.82	4.68	4.36	4.61	4.96	4.86	5.07	4.95	4.98	4.89	4.75
27	4.45	4.84	4.68	4.33	4.63	4.96	4.85	5.03	4.94	4.97	4.89	4.75
28	4.45	4.86	4.67	4.31	4.64	4.96	4.86	5.00	4.93	4.96	4.88	4.75
29	4.48	4.86	4.66	4.28	---	4.97	4.86	4.96	4.93	4.96	4.88	4.74
30	4.51	4.85	4.62	4.26	---	4.99	4.85	4.94	4.89	4.96	4.87	4.74
31	4.53	---	4.59	4.25	---	5.03	---	4.93	---	4.95	4.86	---
MEAN	4.59	4.82	4.78	4.45	4.46	4.84	4.99	5.07	4.95	4.87	4.87	4.73
MAX	4.98	4.88	4.92	4.59	4.64	5.03	5.18	5.30	5.04	4.98	4.94	4.84
MIN	4.33	4.57	4.59	4.25	4.20	4.65	4.84	4.82	4.87	4.75	4.82	4.65

430140089281000 KRONCKE DRIVE STORM SEWER AT MADISON, WI

LOCATION.--Lat 43°01'40", long 89°28'10", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.6, T.6 N., R.9 E., Dane County, Hydrologic Unit 07090001, 100 ft east of Teal Drive and 50 ft west of Tawhee Drive, at Madison.

DRAINAGE AREA.--0.08 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder and area-velocity flow meter in a 42-inch circular, concrete pipe. Elevation of gage is 1,030 ft above NGVD of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.21	0.14	0.00	0.11	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.06	0.00	0.40	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.06	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.02	0.00	0.00
5	0.00	0.00	0.06	0.00	0.14	0.06	0.00	0.00	0.07	0.00	0.00	0.00
6	0.00	0.00	0.11	0.00	0.38	0.30	0.21	0.14	0.00	0.00	0.00	0.00
7	0.00	0.00	0.34	0.00	0.27	0.15	0.00	0.00	0.00	0.00	0.00	0.00
8	0.34	0.00	0.00	0.00	e0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.01	0.00	e0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.01	0.14	0.00	e0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	e0.02	0.02	0.07	0.22	0.00	0.00	0.05	0.00
12	0.00	0.00	0.00	1.3	e0.07	0.01	0.06	0.00	0.00	0.00	0.00	0.10
13	0.00	0.00	0.00	0.15	e0.40	0.01	0.00	0.16	0.01	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	e0.32	0.00	0.00	0.00	0.01	0.00	0.00	0.00
15	0.00	0.02	0.00	0.00	e0.10	0.01	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.01	0.00	0.00	e0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.02	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.21	0.00
19	0.02	0.03	0.00	0.00	0.01	0.05	0.07	0.29	0.00	0.00	0.00	0.01
20	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.00	0.00	0.07	0.00	0.00
21	0.00	0.00	0.00	0.08	0.02	0.05	0.00	0.00	0.00	0.26	0.00	0.00
22	0.09	0.00	0.00	0.00	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.03
23	0.45	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.02	0.00	0.00
24	0.00	0.00	0.00	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.01
25	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.00	0.26	0.16	0.00	0.44
26	0.05	0.01	0.00	0.02	0.01	0.03	0.00	0.00	0.02	0.03	0.00	0.00
27	0.00	0.08	0.00	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.03
29	0.02	0.00	0.00	0.00	---	0.04	0.00	0.00	0.00	0.00	0.00	0.00
30	0.04	0.00	0.01	0.00	---	0.10	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.03	0.01	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	1.22	0.44	0.70	2.09	2.00	1.18	0.44	0.83	0.40	0.56	0.26	0.62
MEAN	0.04	0.01	0.02	0.07	0.07	0.04	0.01	0.03	0.01	0.02	0.01	0.02
MAX	0.45	0.14	0.34	1.3	0.40	0.30	0.21	0.29	0.26	0.26	0.21	0.44
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFSM	0.49	0.18	0.28	0.84	0.89	0.48	0.18	0.33	0.17	0.23	0.10	0.26
IN.	0.57	0.20	0.33	0.97	0.93	0.55	0.20	0.39	0.19	0.26	0.12	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	0.02	0.03	0.02	0.02	0.03	0.03	0.03	0.06	0.02	0.03	0.02	0.03
MAX	0.04	0.07	0.02	0.07	0.07	0.04	0.04	0.15	0.04	0.06	0.03	0.06
(WY)	(2005)	(2004)	(2005)	(2005)	(2005)	(2005)	(2002)	(2004)	(2002)	(2004)	(2004)	(2001)
MIN	0.01	0.00	0.01	0.00	0.01	0.02	0.01	0.03	0.01	0.01	0.01	0.02
(WY)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2005)	(2005)	(2002)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	13.37		10.74			
ANNUAL MEAN	0.04		0.03		0.03	
HIGHEST ANNUAL MEAN					0.04	2004
LOWEST ANNUAL MEAN					0.02	2003
HIGHEST DAILY MEAN	1.7	May 21	1.3	Jan 12	1.7	May 21, 2004
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 2	0.00	Aug 19, 2001
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 3	0.00	Oct 9	0.00	Aug 26, 2001
MAXIMUM PEAK FLOW			22	May 19	99	May 23, 2004
MAXIMUM PEAK STAGE			1.51	May 19	2.27	May 23, 2004
ANNUAL RUNOFF (CFSM)	0.457		0.368		0.350	
ANNUAL RUNOFF (INCHES)	6.22		4.99		4.75	
10 PERCENT EXCEEDS	0.08		0.07		0.07	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

(e) Estimated

430140089281000 KRONCKE DRIVE STORM SEWER AT MADISON, WI—Continued

PRECIPITATION QUANTITY

PERIOD OF RECORD.-October 2001 to current year.

GAGE.--Tipping bucket rain gage with electronic datalogger, located 100 ft east of storm sewer gage.

REMARKS.--Gage established October 2001.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 2.74 in., Sept. 13, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 1.28 in., Sept. 25.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.61	0.49	0.00	e0.00	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.00
2	0.00	0.03	0.00	e0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	e0.00	e0.00	0.02	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.25	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.04	0.00
5	0.00	0.00	e0.27	e0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00
6	0.00	0.00	e0.23	e0.09	0.16	0.00	0.86	0.60	0.00	0.00	0.00	0.00
7	0.00	0.00	e0.78	e0.00	0.14	0.10	0.00	0.01	0.00	0.00	0.00	0.00
8	0.83	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	e0.05	e0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
10	0.00	0.07	e0.36	e0.00	0.00	0.07	0.00	0.00	0.38	0.00	0.04	0.00
11	0.00	0.00	e0.00	e0.00	0.06	0.03	0.00	0.99	0.02	0.08	0.16	0.00
12	0.00	0.00	e0.00	0.86	0.00	0.00	0.43	0.03	0.00	0.07	0.26	0.00
13	0.00	0.00	e0.00	0.00	0.33	0.00	0.00	0.57	0.09	0.02	0.02	0.04
14	0.00	0.00	e0.00	0.00	0.17	0.00	0.00	0.00	0.10	0.00	0.00	0.00
15	0.00	0.11	e0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.02	0.05	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
17	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
18	0.00	0.14	e0.00	0.00	0.00	0.20	0.00	0.04	0.00	0.00	0.91	e0.00
19	0.19	0.28	e0.00	0.00	0.00	0.09	0.00	1.01	0.00	0.00	0.00	0.19
20	0.00	0.03	e0.00	0.00	0.11	0.53	0.31	0.00	0.00	0.35	0.03	0.00
21	0.00	0.00	e0.00	0.00	0.13	0.05	0.00	0.00	0.00	0.90	0.00	0.00
22	0.29	0.00	e0.00	0.00	0.12	0.00	0.16	0.08	0.00	0.00	0.00	0.28
23	0.90	0.00	e0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.15	0.00	0.00
24	0.00	0.00	e0.00	0.14	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.08
25	0.00	0.00	e0.00	0.14	0.03	0.00	0.11	0.00	1.02	0.56	0.00	1.28
26	0.15	0.07	e0.00	0.04	0.00	0.00	0.00	0.00	0.25	0.38	0.05	0.00
27	0.02	0.50	e0.00	0.00	0.00	0.00	0.02	0.11	0.00	0.00	0.00	0.00
28	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
29	0.04	0.00	e0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.20	0.00	e0.03	0.00	---	0.30	0.00	0.00	0.02	0.00	0.00	0.00
31	0.00	---	e0.00	0.03	---	0.03	---	0.00	---	0.00	0.00	---
TOTAL	3.25	2.02	1.72	1.76	1.45	1.40	1.89	3.50	2.31	2.73	1.51	2.10

CAL YR 2004 TOTAL 35.62
WTR YR 2005 TOTAL 25.64

e Estimated

430209089274900 KNOX LANE STORM SEWER AT MADISON, WI

LOCATION.--Lat 43°02'09", long 89°27'49", in NE ¼ SE ¼ sec.31, T.7 N., R.9 E., Dane County, Hydrologic Unit 07090001, 0.1 mi west of Reetz Road and 50 ft east of Widklow Way, at Madison.

DRAINAGE AREA.--0.14 mi^2.

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder and area-velocity flow meter in a 42-inch circular, concrete pipe. Elevation of gage is 1,025 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharge, which are fair (see Introduction). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.19	0.11	0.00	0.11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.04	0.00	0.46	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.07	0.00	0.00	0.06	0.02	0.00	0.00	0.00	0.04	0.00	0.00
5	0.00	0.00	0.08	0.00	0.22	0.14	0.00	0.00	0.09	0.00	0.00	0.02
6	0.00	0.00	0.08	0.00	0.75	0.60	0.36	0.13	0.00	0.00	0.00	0.05
7	0.00	0.00	0.38	0.00	0.54	0.37	0.00	0.00	0.00	0.00	0.00	0.04
8	0.27	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.04	0.06	0.00	0.34	0.00	0.00	0.06	0.02
12	0.00	0.00	0.00	1.2	0.12	0.01	0.19	0.00	0.00	0.01	0.01	0.03
13	0.00	0.00	0.00	0.23	0.74	0.01	0.00	0.20	0.01	0.00	0.00	0.08
14	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.01	0.01	0.00	0.00	0.00
15	0.00	0.01	0.00	0.00	0.16	0.02	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.01	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
18	0.00	0.04	0.00	0.00	0.00	0.05	0.00	0.01	0.00	0.00	0.27	0.07
19	0.02	0.11	0.00	0.00	0.00	0.01	0.05	0.29	0.00	0.00	0.00	0.09
20	0.00	0.01	0.00	0.00	0.00	0.13	0.04	0.01	0.00	0.09	0.00	0.03
21	0.00	0.00	0.00	0.00	0.00	0.07	0.11	0.00	0.00	0.29	0.00	0.01
22	0.08	0.00	0.00	0.00	0.03	0.04	0.07	0.02	0.00	0.00	0.00	0.05
23	0.39	0.00	0.00	0.00	0.03	0.08	0.00	0.00	0.00	0.03	0.00	0.00
24	0.00	0.00	0.00	0.00	0.02	0.10	0.00	0.00	0.00	0.00	0.00	0.01
25	0.00	0.00	0.00	0.00	0.03	0.03	0.02	0.00	0.34	0.16	0.00	0.44
26	0.03	0.00	0.00	0.00	0.01	0.07	0.00	0.00	0.04	0.05	0.02	0.00
27	0.00	0.22	0.00	0.00	0.00	0.12	0.00	0.01	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.15	0.05	0.00	0.00	0.00	0.00	0.05
29	0.03	0.00	0.00	0.00	---	0.15	0.01	0.00	0.00	0.00	0.00	0.00
30	0.03	0.00	0.00	0.00	---	0.16	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	1.04	0.63	0.68	2.00	3.39	2.49	0.90	1.02	0.62	0.67	0.36	1.01
MEAN	0.03	0.02	0.02	0.06	0.12	0.08	0.03	0.03	0.02	0.02	0.01	0.03
MAX	0.39	0.22	0.38	1.2	0.75	0.60	0.36	0.34	0.34	0.29	0.27	0.44
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFSM	0.24	0.15	0.16	0.46	0.86	0.57	0.21	0.24	0.15	0.15	0.08	0.24
IN.	0.28	0.17	0.18	0.53	0.90	0.66	0.24	0.27	0.16	0.18	0.10	0.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	0.02	0.04	0.02	0.02	0.06	0.05	0.05	0.06	0.04	0.03	0.02	0.04
MAX	0.03	0.09	0.02	0.06	0.12	0.08	0.08	0.12	0.08	0.06	0.03	0.05
(WY)	(2005)	(2004)	(2004)	(2005)	(2005)	(2005)	(2002)	(2004)	(2002)	(2004)	(2002)	(2002)
MIN	0.01	0.00	0.01	0.00	0.02	0.03	0.02	0.03	0.02	0.02	0.01	0.02
(WY)	(2004)	(2003)	(2003)	(2004)	(2003)	(2002)	(2004)	(2005)	(2003)	(2002)	(2003)	(2004)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	14.01		14.81			
ANNUAL MEAN	0.04		0.04		0.04	
HIGHEST ANNUAL MEAN					0.04	2004
LOWEST ANNUAL MEAN					0.03	2003
HIGHEST DAILY MEAN	0.93	May 21	1.2	Jan 12	1.2	Jan 12, 2005
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 2	0.00	Aug 20, 2001
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 3	0.00	Oct 9	0.00	Sep 10, 2001
MAXIMUM PEAK FLOW			18	Jul 21	18	Jul 21, 2005
MAXIMUM PEAK STAGE			1.88	Sep 25	1.88	Sep 25, 2005
ANNUAL RUNOFF (CFSM)	0.273		0.290		0.263	
ANNUAL RUNOFF (INCHES)	3.72		3.94		3.57	
10 PERCENT EXCEEDS	0.12		0.11		0.11	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

430230089284300 PIPING ROCK ROAD STORM SEWER AT MADISON, WI

LOCATION.--Lat 43°02'30", long 89°28'43", in SW ¼ NW ¼ sec.31, T.7 N., R.9 E., Dane County, Hydrologic Unit 07090001, 200 ft west of South Whitney Way at Madison.

DRAINAGE AREA.--0.09 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Water-stage recorder and area-velocity flow meter in a 38 x 60-inch elliptical, concrete pipe. Elevation of gage is 995 ft above NGVD of 1929.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.11	0.08	0.00	0.07	0.01	0.03	0.01	0.00	0.02	0.00	0.00	0.00
2	0.01	0.04	0.00	0.27	0.02	0.02	0.01	0.00	0.02	0.01	0.00	0.00
3	0.00	0.01	0.00	0.02	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.01
4	0.00	0.06	0.00	0.02	0.06	0.03	0.01	0.00	0.00	0.02	0.00	0.01
5	0.00	0.02	0.04	0.01	0.14	0.10	0.01	0.01	0.07	0.01	0.00	0.00
6	0.00	0.01	0.06	0.01	0.47	0.45	0.28	0.12	0.01	0.00	0.00	0.00
7	0.00	0.01	0.25	0.00	0.36	0.32	e0.00	0.00	0.00	0.00	0.00	0.00
8	0.22	0.00	0.02	0.00	0.03	0.04	e0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.02	0.00	0.01	0.03	e0.00	0.01	0.00	0.00	0.00	0.00
10	0.00	0.00	0.08	0.00	0.02	0.02	e0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.01	0.02	0.00	0.04	0.05	e0.00	0.29	0.00	0.00	e0.06	0.00
12	0.02	0.00	0.02	0.88	0.08	0.02	e0.17	0.01	0.00	0.00	e0.01	0.00
13	0.01	0.00	0.00	0.15	0.47	0.03	0.02	0.21	0.02	0.00	e0.00	0.23
14	0.00	0.00	0.00	0.03	0.40	0.02	0.01	0.01	0.02	0.00	e0.00	0.00
15	0.00	0.02	0.00	0.03	0.14	0.03	e0.01	0.00	0.02	0.00	e0.00	0.00
16	0.00	0.02	0.00	0.03	0.02	0.07	e0.00	0.00	0.00	0.00	e0.00	0.00
17	0.00	0.01	0.00	0.02	0.01	0.02	e0.00	0.00	0.00	0.01	e0.00	0.01
18	0.00	0.04	0.00	0.02	0.02	0.04	e0.00	0.01	0.00	0.00	e0.12	0.00
19	0.03	0.08	0.00	0.00	0.02	0.03	e0.03	0.21	0.00	0.00	0.00	0.02
20	0.02	0.02	0.00	0.00	0.02	0.09	0.01	0.02	0.00	0.06	0.00	0.00
21	0.01	0.01	0.00	0.00	0.03	0.07	0.00	0.01	0.00	0.21	0.00	0.00
22	0.05	0.01	0.00	0.00	0.04	0.07	0.01	0.02	0.00	0.01	0.00	0.02
23	e0.23	0.00	0.00	0.00	0.03	0.09	0.01	0.00	0.00	0.02	0.00	0.00
24	e0.00	0.00	0.00	0.00	0.02	0.10	0.00	0.00	0.00	0.00	0.01	0.00
25	e0.00	0.00	0.00	0.01	0.03	0.05	0.03	0.00	0.18	0.10	0.01	0.22
26	e0.02	0.01	0.00	0.03	0.03	0.08	0.01	0.00	0.05	0.04	0.02	0.00
27	0.01	0.13	0.00	0.02	0.02	0.11	0.00	0.02	0.01	0.01	0.00	0.01
28	0.01	0.05	0.00	0.01	0.02	0.13	0.01	0.01	0.00	0.01	0.00	0.04
29	0.01	0.03	0.00	0.01	---	0.14	0.01	0.01	0.00	0.00	0.00	0.01
30	0.03	0.00	0.01	0.00	---	0.18	0.00	0.02	0.00	0.00	0.00	e0.00
31	0.01	---	0.00	0.01	---	0.02	---	0.02	---	0.00	0.00	---
TOTAL	0.80	0.67	0.52	1.65	2.59	2.50	0.66	1.01	0.42	0.51	0.23	0.58
MEAN	0.03	0.02	0.02	0.05	0.09	0.08	0.02	0.03	0.01	0.02	0.01	0.02
MAX	0.23	0.13	0.25	0.88	0.47	0.45	0.28	0.29	0.18	0.21	0.12	0.23
MIN	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00
CFSM	0.29	0.25	0.19	0.59	1.03	0.90	0.24	0.36	0.16	0.18	0.08	0.21
IN.	0.33	0.28	0.21	0.68	1.07	1.03	0.27	0.42	0.17	0.21	0.10	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	0.02	0.04	0.01	0.02	0.05	0.06	0.02	0.07	0.02	0.02	0.01	0.02
MAX	0.03	0.09	0.02	0.05	0.09	0.08	0.03	0.15	0.03	0.04	0.02	0.03
(WY)	(2005)	(2004)	(2004)	(2005)	(2005)	(2005)	(2003)	(2004)	(2004)	(2004)	(2004)	(2003)
MIN	0.01	0.00	0.00	0.00	0.01	0.03	0.02	0.03	0.01	0.01	0.00	0.01
(WY)	(2004)	(2003)	(2003)	(2004)	(2003)	(2003)	(2004)	(2005)	(2003)	(2002)	(2003)	(2004)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	13.52		12.52			
ANNUAL MEAN	0.04		0.03		0.03	
HIGHEST ANNUAL MEAN					0.04	2004
LOWEST ANNUAL MEAN					0.02	2003
HIGHEST DAILY MEAN	1.3	May 21	0.88	Jan 12	1.3	May 21, 2004
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 3	0.00	Jul 1, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Dec 14	0.00	Aug 23, 2002
MAXIMUM PEAK FLOW			15	Jul 21	27	May 23, 2004
MAXIMUM PEAK STAGE			1.70	Jun 25	2.44	May 21, 2004
ANNUAL RUNOFF (CFSM)	0.410		0.381		0.341	
ANNUAL RUNOFF (INCHES)	5.59		5.17		4.64	
10 PERCENT EXCEEDS	0.09		0.08		0.07	
50 PERCENT EXCEEDS	0.00		0.01		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

430230089284300 PIPING ROCK ROAD STORM SEWER AT MADISON, WI—Continued

(e) Estimated

430230089284300 PIPING ROCK ROAD STORM SEWER AT MADISON, WI—Continued

PRECIPITATION QUANTITY

PERIOD OF RECORD.-October 2002 to current year.

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Gage established October 2002.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 1.37 in., Sept. 25.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.66	0.55	0.00	0.00	0.02	0.03	0.00	0.01	0.00	0.00	0.00	0.00
2	0.00	0.06	0.01	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.05	0.00
5	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00
6	0.00	0.00	0.23	0.09	0.19	0.00	1.03	0.43	0.00	0.00	0.00	0.00
7	0.06	0.00	0.78	0.00	0.14	0.09	0.00	0.00	0.00	0.00	0.00	0.00
8	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
9	0.00	0.00	0.05	0.00	0.04	0.00	0.00	0.05	0.06	0.00	0.00	0.00
10	0.00	0.10	0.36	0.00	0.09	0.11	0.00	0.00	0.05	0.00	0.06	0.00
11	0.00	0.00	0.00	0.00	0.07	0.00	0.00	1.05	0.01	0.00	0.46	0.00
12	0.00	0.00	0.00	2.02	0.00	0.02	0.43	0.02	0.00	0.03	0.00	0.00
13	0.00	0.00	0.00	0.00	0.39	0.01	0.00	0.63	0.17	0.02	0.01	0.03
14	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.04	0.15	0.00	0.00	0.00
15	0.02	0.12	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.15	0.00	0.00	0.00	0.26	0.00	0.22	0.00	0.00	0.94	0.00
19	0.20	0.36	0.00	0.00	0.00	0.16	0.19	0.66	0.00	0.00	0.00	0.20
20	0.00	0.03	0.00	0.00	0.13	0.77	0.01	0.00	0.00	0.39	0.01	0.00
21	0.00	0.00	0.00	0.00	0.17	0.06	0.00	0.00	0.00	1.02	0.00	0.00
22	0.36	0.00	0.00	0.01	0.18	0.00	0.12	0.08	0.00	0.00	0.00	0.20
23	0.91	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.14	0.00	0.00
24	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.07
25	0.00	0.00	0.00	0.94	0.00	0.00	0.10	0.00	1.21	0.74	0.00	1.37
26	0.18	0.07	0.00	0.02	0.00	0.00	0.00	0.00	0.06	0.17	0.17	0.01
27	0.01	0.55	0.00	0.00	0.01	0.00	0.01	0.13	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.14	0.00	0.00	0.25
29	0.12	0.00	0.00	0.00	---	0.00	0.00	0.00	0.02	0.00	0.00	0.00
30	0.01	0.00	0.03	0.01	---	0.37	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.02	---	0.02	---	0.00	---	0.00	0.00	---
TOTAL	3.35	2.29	1.73	3.67	1.75	1.90	1.89	3.33	2.27	2.70	1.70	2.13

CAL YR 2004 TOTAL 40.08
WTR YR 2005 TOTAL 28.71

05429485 LAKE WAUBESA AT MCFARLAND, WI

LOCATION.--Lat 43°00'32", long 89°18'18", in SW $^1/_4$ sec.3, T.6 N., R.10 E., Dane County, Hydrologic Unit 07090001, on left bank just upstream from bridge on U.S. Highway 51, downstream of dam at outlet of Lake Waubesa and 1.0 mi southwest of McFarland.

DRAINAGE AREA.--327 mi^2.

PERIOD OF RECORD.--October 2003 to current year.

REVISED RECORDS.--WSP 805, WDR WI-73-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 840.00 ft above NGVD of 1929 (levels by Wisconsin Department of Natural Resources).

REMARKS.--Lake level regulated by dams at outlets of Lake Mendota and Lake Waubesa. Gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 6.30 ft, June 12, 2004; minimum observed, 3.85 ft, Feb. 18, 19, 20, 2004, current datum.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 5.04 ft, May 20; minimum recorded, 3.94 ft, Feb. 5.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.76	4.42	4.49	4.26	3.99	4.27	4.66	4.67	4.76	4.83	4.88	4.83
2	4.77	4.47	4.48	4.27	3.98	4.28	4.67	4.67	4.78	4.79	4.87	4.81
3	4.72	4.48	4.48	4.27	3.96	4.28	4.67	4.68	4.81	4.76	4.86	4.78
4	4.68	e4.51	4.46	4.26	3.95	4.28	4.66	4.71	4.84	4.80	4.88	4.76
5	4.62	4.55	4.45	4.24	3.95	4.28	4.65	4.72	4.91	4.81	4.87	4.75
6	4.58	4.58	4.47	4.25	3.95	4.30	4.64	4.77	4.93	4.82	4.86	4.74
7	4.54	4.62	4.51	4.27	4.01	4.37	4.78	4.82	4.94	4.80	4.85	4.74
8	4.57	4.63	4.57	4.25	4.07	4.44	4.79	4.84	4.93	4.79	4.84	4.74
9	4.56	4.59	4.56	4.21	4.10	4.45	4.77	4.85	4.93	4.78	4.82	4.72
10	4.52	4.52	4.56	4.18	4.12	4.45	4.75	4.87	4.93	4.77	4.82	4.71
11	4.49	4.51	4.58	4.15	4.12	4.46	4.70	4.95	4.92	4.77	4.82	4.70
12	4.46	4.49	4.57	4.16	4.11	4.46	4.65	4.97	4.92	4.76	4.83	4.69
13	4.43	4.48	4.57	4.25	4.09	4.46	4.65	4.99	4.93	4.77	4.83	4.68
14	4.39	4.46	4.52	4.28	4.14	4.45	4.63	5.01	4.93	4.77	4.82	4.69
15	4.37	4.46	4.50	4.29	4.21	4.44	4.60	4.99	4.93	4.76	4.81	4.66
16	4.35	4.47	4.49	4.27	4.26	4.43	4.57	4.95	4.90	4.75	4.80	4.66
17	4.28	4.47	4.47	4.25	4.28	4.43	4.55	4.90	4.88	4.74	4.79	4.64
18	4.19	4.48	4.45	4.22	4.29	4.44	4.52	4.86	4.86	4.73	4.80	4.63
19	4.18	4.49	4.50	4.19	4.28	4.50	4.47	4.94	4.84	4.71	4.90	4.63
20	4.17	4.51	4.47	4.17	4.27	4.58	4.53	5.08	4.84	4.70	4.91	4.65
21	4.16	4.51	4.45	4.15	4.27	4.61	4.66	5.05	4.84	4.78	4.91	4.62
22	4.16	4.49	4.44	4.16	4.27	4.61	4.69	5.01	4.83	4.83	4.89	4.63
23	4.25	4.48	4.43	4.16	4.27	4.61	4.73	4.97	4.81	4.83	4.86	4.63
24	4.32	4.48	4.42	4.14	4.26	4.60	4.73	4.92	4.80	4.86	4.85	4.62
25	4.33	4.46	4.41	4.12	4.25	4.61	4.70	4.87	4.81	4.88	4.83	4.66
26	4.33	4.45	4.40	4.09	4.25	4.61	4.70	4.85	4.85	4.94	4.84	4.75
27	4.34	4.48	4.39	4.07	4.25	4.61	4.70	4.83	4.85	4.93	4.87	4.74
28	4.32	4.52	4.37	4.05	4.26	4.61	4.68	4.81	4.85	4.92	4.86	4.75
29	4.32	4.51	4.34	4.03	---	4.61	4.67	4.77	4.85	4.91	4.86	4.76
30	4.38	4.50	4.32	4.02	---	4.61	4.67	4.74	4.85	4.89	4.85	4.70
31	4.39	---	4.29	4.00	---	4.64	---	4.73	---	4.88	4.84	---
MEAN	4.42	4.50	4.46	4.18	4.15	4.48	4.66	4.86	4.87	4.81	4.85	4.70
MAX	4.77	4.63	4.58	4.29	4.29	4.64	4.79	5.08	4.94	4.94	4.91	4.83
MIN	4.16	4.42	4.29	4.00	3.95	4.27	4.47	4.67	4.76	4.70	4.79	4.62

(e) Estimated

05429500 YAHARA RIVER AT MCFARLAND, WI

LOCATION.--Lat 43°00'32", long 89°18'18", in SW $^1/_4$ sec.3, T.6 N., R.10 E., Dane County, Hydrologic Unit 07090001, on left bank just upstream from bridge on U.S. Highway 51, downstream of dam at outlet of Lake Waubesa and 1.0 mi southwest of McFarland.

DRAINAGE AREA.--327 mi^2, of which 36.5 mi^2 is non-contributing.

PERIOD OF RECORD.--September 1930 to current year. Prior to October 2000, published as "near McFarland".

REVISED RECORDS.--WSP 805, WDR WI-73-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 840.00 ft above NGVD of 1929 (levels by Wisconsin Department of Natural Resources). September 1930 to Dec. 22, 1934, nonrecording gage at same site at datum 0.40 ft higher. Dec. 23, 1934 to Sept. 30, 1982, recording gage at same site at datum 0.40 ft higher.

REMARKS.--Records fair (see Introduction). Flow regulated by dams at outlets of Lake Mendota and Lake Waubesa. The Madison Metropolitan Sewerage District diverted an average of 58.9 ft^3/s of effluent into the Badfish Creek basin during 2005 water year. The data were provided by the Madison Metropolitan Sewerage District. Prior to 1958 the effluent was discharged into the Yahara River above McFarland. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	88	240	202	160	233	343	159	45	57	21	23
2	140	98	238	210	158	234	342	153	34	59	20	20
3	135	103	238	207	156	232	339	110	17	54	18	18
4	133	108	235	201	154	232	337	98	21	41	18	16
5	128	114	232	200	153	233	323	105	31	47	18	16
6	123	119	236	e210	157	242	318	118	35	43	18	17
7	118	124	252	209	e180	272	345	121	40	42	17	20
8	123	128	263	201	196	278	351	119	41	37	16	19
9	126	186	263	194	198	274	347	123	42	31	15	19
10	125	221	264	188	193	274	342	127	47	27	14	19
11	124	220	265	185	190	275	336	153	53	27	13	18
12	123	217	265	188	186	277	332	201	50	19	18	18
13	122	217	264	e210	187	275	335	223	53	16	17	16
14	116	214	256	220	214	273	330	222	52	17	19	16
15	114	215	249	217	234	271	321	214	55	16	19	14
16	114	218	246	212	236	272	309	209	61	19	15	13
17	115	219	242	206	234	274	299	199	58	18	15	13
18	117	223	239	199	230	277	283	189	57	16	16	11
19	111	227	256	195	225	293	266	200	58	14	22	12
20	105	231	244	190	226	304	233	219	51	13	24	13
21	83	231	238	189	227	312	191	209	47	14	23	12
22	63	230	237	e192	226	315	188	199	47	21	20	11
23	72	231	235	190	224	315	185	187	46	19	18	11
24	74	230	233	185	222	315	181	176	49	22	17	10
25	75	229	231	181	221	315	176	153	49	22	16	13
26	75	227	229	179	222	317	170	132	63	19	16	20
27	75	236	226	174	225	318	171	123	74	28	20	21
28	74	245	221	170	229	319	169	118	71	28	19	20
29	79	243	215	167	---	320	166	112	73	27	21	20
30	85	242	210	165	---	325	163	110	72	26	24	17
31	83	---	206	163	---	340	---	79	---	24	23	---
TOTAL	3,284	5,834	7,468	5,999	5,663	8,806	8,191	4,860	1,492	863	570	486
MEAN	106	194	241	194	202	284	273	157	49.7	27.8	18.4	16.2
MAX	140	245	265	220	236	340	351	223	74	59	24	23
MIN	63	88	206	163	153	232	163	79	17	13	13	10
CFSM	0.32	0.59	0.74	0.59	0.62	0.87	0.83	0.48	0.15	0.09	0.06	0.05
IN.	0.37	0.66	0.85	0.68	0.64	1.00	0.93	0.55	0.17	0.10	0.06	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2005, BY WATER YEAR (WY)

MEAN	130	165	153	144	159	241	254	188	157	149	121	118
MAX	401	355	375	377	363	599	719	520	585	511	478	422
(WY)	(1981)	(1986)	(1986)	(1986)	(1938)	(1937)	(1959)	(1933)	(2000)	(1993)	(1993)	(1993)
MIN	4.09	27.4	36.5	34.0	31.6	28.3	12.4	42.1	15.6	16.0	15.9	13.8
(WY)	(1965)	(1940)	(1940)	(1977)	(1991)	(2003)	(2003)	(1958)	(1936)	(1965)	(1988)	(1964)

05429500 YAHARA RIVER AT MCFARLAND, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1930 - 2005	
ANNUAL TOTAL	85,970		53,516			
ANNUAL MEAN	235		147		165	
HIGHEST ANNUAL MEAN					336	1993
LOWEST ANNUAL MEAN					63.8	1964
HIGHEST DAILY MEAN	654	May 25	351	Apr 8	853	Apr 11, 1959
LOWEST DAILY MEAN	41	Mar 25	10	Sep 24	1.2	Jun 27, 1979
ANNUAL SEVEN-DAY MINIMUM	59	May 5	11	Sep 18	2.0	Jun 22, 1979
MAXIMUM PEAK FLOW			354	Apr 8	(a)867	Apr 10, 1959
MAXIMUM PEAK STAGE			(b)4.81	Oct 1	(b)7.03	Jun 26, 2000
ANNUAL RUNOFF (CFSM)	0.718		0.448		0.504	
ANNUAL RUNOFF (INCHES)	9.78		6.09		6.85	
10 PERCENT EXCEEDS	413		274		325	
50 PERCENT EXCEEDS	204		158		140	
90 PERCENT EXCEEDS	106		17		39	

(a) Gage height, 5.82 ft, datum then in use
(b) Backwater from vegetation
(e) Estimated

425715089164700 LAKE KEGONSA AT BARBER DRIVE NEAR STOUGHTON, WI

LOCATION.--Lat 42°57'15", long 89°16'47", in SW $^1/_4$ sec.26, T.6 N., R.10 E., Dane County, Hydrologic Unit 07090001, on downstream side of bridge on Barber Drive, 3.5 mi northwest of Stoughton.

DRAINAGE AREA.--386 mi^2.

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Water-stage recorder. Datum of gage is 840.00 ft above sea level (levels from Wisconsin Department of Transportation benchmark).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 4.71 ft, May 23, 2004; minimum observed, 2.33 ft, Feb. 6, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 3.88 ft, May 14; minimum observed, 2.33 ft, Feb. 6.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.17	3.05	2.88	2.57	2.48	2.63	3.16	3.17	3.19	3.22	3.19	3.02
2	3.18	3.07	2.87	2.63	2.45	2.61	3.15	3.18	3.14	3.21	3.18	3.00
3	3.16	3.07	2.86	2.65	2.42	2.61	3.14	3.20	3.10	3.19	3.17	2.99
4	3.15	3.07	2.84	2.67	2.40	2.61	3.12	3.23	3.07	3.21	3.16	2.98
5	3.14	3.07	2.85	2.68	2.37	2.61	3.10	3.26	3.12	3.24	3.15	2.98
6	3.13	3.07	2.86	2.67	2.39	2.68	3.12	3.32	3.10	3.27	3.13	2.98
7	3.13	3.08	2.90	2.67	2.51	2.76	3.22	3.39	3.10	3.26	3.12	2.98
8	3.17	3.08	2.94	2.66	2.59	2.85	3.24	3.42	3.10	3.25	3.10	2.97
9	3.18	3.07	2.96	2.65	2.67	2.91	3.27	3.46	3.09	3.23	3.09	2.96
10	3.18	3.02	2.98	2.64	2.74	2.97	3.28	3.49	3.09	3.23	3.07	2.95
11	3.17	3.00	2.98	2.62	2.77	2.98	3.29	3.60	3.11	3.22	3.06	2.94
12	3.18	2.95	2.94	2.66	2.79	2.98	3.29	3.67	3.12	3.22	3.07	2.93
13	3.17	2.90	2.92	2.72	2.82	2.97	3.29	3.73	3.14	3.22	3.06	2.92
14	3.17	2.86	2.85	2.71	2.94	2.97	3.27	3.80	3.14	3.21	3.04	2.91
15	3.15	2.83	2.83	2.72	3.04	2.95	3.25	3.84	3.15	3.20	3.04	2.89
16	3.12	2.81	2.82	2.73	3.09	2.92	3.24	3.85	3.15	3.19	3.03	2.88
17	3.11	2.79	2.82	2.73	3.09	2.91	3.22	3.80	3.16	3.17	3.02	2.86
18	3.12	2.77	2.81	2.73	3.06	2.90	3.20	3.74	3.16	3.14	3.02	2.86
19	3.12	2.77	2.76	2.71	3.02	2.97	3.22	3.73	3.17	3.12	3.04	2.87
20	3.11	2.76	2.73	2.69	2.99	3.04	3.28	3.74	3.17	3.13	3.03	2.87
21	3.10	2.77	2.70	2.68	2.95	3.12	3.26	3.72	3.18	3.17	3.01	2.86
22	3.08	2.77	2.67	2.70	2.89	3.17	3.24	3.68	3.18	3.19	3.00	2.85
23	3.11	2.78	2.64	2.68	2.84	3.18	3.21	3.65	3.16	3.19	2.98	2.84
24	3.11	2.79	2.62	2.66	2.80	3.18	3.16	3.62	3.16	3.18	2.97	2.82
25	3.09	2.77	2.59	2.64	2.76	3.17	3.13	3.57	3.19	3.20	2.96	2.84
26	3.07	2.78	2.57	2.62	2.72	3.15	3.12	3.49	3.29	3.26	2.97	2.85
27	3.06	2.82	2.55	2.60	2.68	3.13	3.11	3.42	3.29	3.25	3.06	2.84
28	3.04	2.86	2.55	2.57	2.65	3.13	3.13	3.36	3.28	3.23	3.05	2.84
29	3.03	2.87	2.55	2.55	---	3.12	3.15	3.31	3.28	3.22	3.05	2.83
30	3.03	2.89	2.54	2.52	---	3.13	3.16	3.26	3.25	3.21	3.05	2.82
31	3.02	---	2.56	2.50	---	3.14	---	3.22	---	3.19	3.04	---
MEAN	3.12	2.91	2.77	2.65	2.75	2.95	3.20	3.51	3.16	3.21	3.06	2.90
MAX	3.18	3.08	2.98	2.73	3.09	3.18	3.29	3.85	3.29	3.27	3.19	3.02
MIN	3.02	2.76	2.54	2.50	2.37	2.61	3.10	3.17	3.07	3.12	2.96	2.82

05429700 YAHARA RIVER AT FORTON STREET BRIDGE AT STOUGHTON, WI

LOCATION.--Lat 42°55'11", long 89°13'13", in sec.5, T.5 N., R.11 E., Dane County, Hydrologic Unit 07090001, at Forton Street Bridge in Stoughton.

DRAINAGE AREA.--407 mi^2, of which 36.5 mi^2 is non-contributing.

PERIOD OF RECORD.--November 2003 to current year.

GAGE.--Water-stage recorder. Side-looking velocity meter system. Elevation of gage is 840 ft above NGVD, from topographic map.

REMARKS.--Records good, except for periods of estimated record, which are poor (see Introduction). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	168	333	218	265	314	460	195	186	e63	e56	e29
2	198	171	336	234	268	314	459	184	162	e59	e51	e29
3	194	164	318	225	255	310	464	153	152	e54	e46	e28
4	194	177	322	256	254	315	459	142	151	e56	e46	e28
5	184	162	328	315	240	316	431	133	153	e59	e43	e27
6	184	166	326	305	224	316	407	126	131	e66	e39	e27
7	183	172	348	285	261	359	415	131	106	e64	e37	e27
8	189	158	339	278	259	339	410	126	101	e62	e35	e28
9	193	194	368	265	253	341	410	128	77	e58	e33	e28
10	191	340	396	262	261	359	411	128	80	e54	e32	e28
11	189	401	386	258	265	356	408	146	e73	e50	e30	e28
12	188	394	390	270	275	357	412	167	e59	e50	e32	e27
13	187	384	e355	294	274	347	413	214	e49	e56	e32	e27
14	186	374	e258	276	340	380	411	276	e40	e53	e31	e27
15	182	372	307	275	434	395	412	336	e40	e50	e30	e27
16	185	374	312	270	472	393	410	355	e37	e47	e30	e27
17	182	359	312	268	458	399	409	427	e34	e43	e29	e26
18	180	355	322	272	442	392	395	468	e32	e40	e29	e26
19	175	304	214	279	445	406	351	473	e31	e39	e29	e26
20	175	291	247	280	456	427	351	472	e30	e39	e29	e26
21	173	e290	250	273	449	460	328	464	e30	e49	e28	e26
22	164	287	261	278	421	465	317	460	e29	e56	e28	e26
23	179	280	272	250	400	464	306	432	e29	e56	e27	e26
24	184	290	254	241	400	469	284	417	e29	e58	e27	e26
25	178	280	269	238	394	468	276	412	e32	e61	e27	e27
26	174	274	266	256	383	464	262	389	e54	e75	e27	e27
27	170	296	250	241	370	468	227	374	e59	e75	e29	e27
28	164	299	226	229	340	465	217	367	e63	e70	e30	e27
29	163	309	250	225	---	457	202	359	e65	e68	e29	e28
30	169	325	233	239	---	460	193	316	e64	e62	e30	e27
31	164	---	230	256	---	467	---	272	---	e58	e29	---
TOTAL	5,616	8,410	9,278	8,111	9,558	12,242	10,910	9,042	2,178	1,750	1,030	813
MEAN	181	280	299	262	341	395	364	292	72.6	56.5	33.2	27.1
MAX	198	401	396	315	472	469	464	473	186	75	56	29
MIN	163	158	214	218	224	310	193	126	29	39	27	26
CFSM	0.45	0.69	0.74	0.64	0.84	0.97	0.89	0.72	0.18	0.14	0.08	0.07
IN.	0.51	0.77	0.85	0.74	0.87	1.12	1.00	0.83	0.20	0.16	0.09	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	181	290	356	244	288	349	340	346	366	287	194	140
MAX	181	361	413	262	341	395	364	401	659	517	355	254
(WY)	(2005)	(2004)	(2004)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	181	280	299	226	236	303	317	292	72.6	56.5	33.2	27.1
(WY)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	122,908		78,938			
ANNUAL MEAN	336		216		286	
HIGHEST ANNUAL MEAN					368	2004
LOWEST ANNUAL MEAN					216	2005
HIGHEST DAILY MEAN	992	May 27	473	May 19	992	May 27, 2004
LOWEST DAILY MEAN	61	May 8	(e)26	(a)Sep 17	(e)26	(a)Sep 17, 2005
ANNUAL SEVEN-DAY MINIMUM	74	May 5	(e)26	Sep 17	(e)26	Sep 17, 2005
ANNUAL RUNOFF (CFSM)	0.825		0.531		0.703	
ANNUAL RUNOFF (INCHES)	11.23		7.21		9.55	
10 PERCENT EXCEEDS	543		412		496	
50 PERCENT EXCEEDS	298		225		280	
90 PERCENT EXCEEDS	171		29		39	

(a) Also occurred Sept. 17-24, 27
(e) Estimated

05430150 BADFISH CREEK NEAR COOKSVILLE, WI

LOCATION.--Lat 42°50'00", long 89°11'48", in SW ¼ SE ¼ sec.4, T.4 N., R.11 E., Rock County, Hydrologic Unit 07090001, on right bank, 20 ft upstream from bridge on State Highway 59, 2.2 mi east of Cooksville, and 2.2 mi above the mouth.

DRAINAGE AREA.--82.6 mi^2.

PERIOD OF RECORD.--July 1977 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 807.06 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair (see Introduction). Approximately 57 percent of flow is effluent from Nine Springs treatment plant (data provided by Madison Metropolitan Sewerage District). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	104	104	95	91	101	125	93	94	90	85	81
2	97	124	102	e110	91	99	119	96	95	84	88	80
3	89	109	102	e100	92	98	115	91	94	86	88	79
4	90	109	99	100	92	100	114	93	96	89	87	76
5	90	104	99	100	102	130	111	90	150	94	84	76
6	90	100	117	99	196	231	112	96	106	100	81	81
7	90	98	146	96	418	269	146	92	100	97	77	81
8	105	98	140	94	194	144	126	88	102	98	79	81
9	95	96	123	93	136	126	118	91	102	95	83	81
10	89	96	120	95	115	120	114	92	104	95	82	80
11	91	96	121	95	109	115	113	116	107	91	84	80
12	93	96	115	e110	109	110	119	106	103	94	90	82
13	92	93	113	e110	195	107	120	119	107	95	82	83
14	93	92	108	e100	507	109	112	107	109	90	79	81
15	92	96	106	e98	282	107	108	97	104	89	81	82
16	90	99	105	e98	176	108	105	94	100	81	82	81
17	89	98	103	e100	134	110	105	92	96	82	83	79
18	91	99	101	e100	118	110	106	90	94	81	84	79
19	94	102	99	e98	110	162	107	102	93	83	85	85
20	92	102	100	94	111	184	117	118	95	91	82	82
21	91	97	101	93	112	158	110	97	103	107	77	81
22	92	100	98	94	110	132	114	94	98	91	77	81
23	122	99	e97	e94	107	124	113	95	103	83	80	81
24	107	101	e92	95	104	121	105	93	98	81	78	80
25	100	96	e82	93	105	119	103	93	104	92	78	89
26	98	91	84	93	104	117	102	92	162	116	78	93
27	99	105	90	92	101	116	100	94	100	94	85	82
28	96	119	94	91	104	118	99	90	96	88	77	84
29	97	110	94	89	---	122	100	87	94	87	78	84
30	103	106	94	90	---	127	94	86	94	84	82	80
31	99	---	96	93	---	140	---	92	---	83	81	---
TOTAL	2,947	3,035	3,245	3,002	4,225	4,034	3,352	2,976	3,103	2,811	2,537	2,445
MEAN	95.1	101	105	96.8	151	130	112	96.0	103	90.7	81.8	81.5
MAX	122	124	146	110	507	269	146	119	162	116	90	93
MIN	89	91	82	89	91	98	94	86	93	81	77	76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2005, BY WATER YEAR (WY)

MEAN	96.1	102	96.0	90.9	108	124	122	113	120	105	96.6	96.9
MAX	139	162	129	122	163	190	193	205	252	171	133	146
(WY)	(1987)	(1986)	(1983)	(1988)	(1994)	(1993)	(1993)	(1999)	(1996)	(1993)	(1996)	(2001)
MIN	66.9	69.5	69.7	65.3	73.1	80.4	88.7	78.3	76.4	70.4	59.2	67.6
(WY)	(1978)	(1978)	(1979)	(1991)	(1979)	(1981)	(1990)	(1981)	(1991)	(1977)	(1977)	(1991)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1977 - 2005	
ANNUAL TOTAL	42,217		37,712			
ANNUAL MEAN	115		103		106	
HIGHEST ANNUAL MEAN					136	1993
LOWEST ANNUAL MEAN					80.4	1991
HIGHEST DAILY MEAN	938	May 22	507	Feb 14	1,450	Jun 18, 1996
LOWEST DAILY MEAN	(a)75	Jan 23	76	Sep 4, 5	35	Aug 1, 1977
ANNUAL SEVEN-DAY MINIMUM	(a)77	Jan 23	79	Aug 20	48	Jul 28, 1977
MAXIMUM PEAK FLOW			616	Feb 14	2,210	Jun 17, 1996
MAXIMUM PEAK STAGE			7.10	Feb 14	10.18	Jun 17, 1996
10 PERCENT EXCEEDS	140		120		137	
50 PERCENT EXCEEDS	101		97		97	
90 PERCENT EXCEEDS	81		81		75	

(a) Ice affected
(e) Estimated

05430175 YAHARA RIVER NEAR FULTON, WI

LOCATION.--Lat 42°49'35", long 89°10'19", in SE ¼ NE ¼ sec.10, T.4 N., R.11 E., Rock County, Hydrologic Unit 07090001, on left bank, 20 ft upstream from bridge on State Highway 59, 0.5 mi downstream from Badfish Creek, and 2.6 mi northwest of Fulton.

DRAINAGE AREA.--518 mi^2, of which 36.5 mi^2 is non-contributing.

PERIOD OF RECORD.--July 1977 to current year.

REVISED RECORDS.--WDR WI-96-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 789.85 ft above NGVD of 1929. July 1977 to April 1996, recording gage at site about 2,000 ft upstream at datum 2.85 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see Introduction). Regulation from dams and powerplants upstream. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	280	435	337	e380	420	585	297	297	134	142	129
2	310	305	420	382	e390	434	574	309	234	137	150	127
3	298	284	425	365	394	431	561	270	245	140	142	123
4	292	292	422	358	391	431	556	268	238	144	140	120
5	285	280	418	386	391	479	547	245	324	144	143	120
6	299	277	438	372	487	645	501	249	249	173	143	126
7	278	277	481	387	942	767	554	241	206	133	139	130
8	321	273	488	370	570	523	526	238	202	131	136	138
9	285	279	478	380	456	492	511	244	183	143	142	134
10	291	410	483	385	425	491	498	250	148	136	141	131
11	291	458	498	396	414	487	497	290	159	133	145	130
12	295	469	481	e410	415	483	508	287	151	144	154	128
13	293	451	474	e440	540	477	515	340	147	175	141	134
14	293	445	e390	e410	1,190	487	500	382	157	129	134	133
15	292	443	e430	e400	857	512	492	431	153	144	133	132
16	289	441	426	e400	715	509	486	423	134	121	136	128
17	286	415	438	e400	617	502	480	486	132	119	136	124
18	281	410	430	e400	588	505	479	525	136	131	141	124
19	288	404	e360	e410	566	608	440	562	135	127	141	132
20	283	366	e380	e400	562	662	442	569	142	149	135	129
21	281	374	e360	e390	547	643	420	534	151	196	130	126
22	281	376	e370	e400	527	602	420	518	139	161	127	127
23	341	376	e380	e380	503	588	418	502	112	146	130	125
24	301	377	e380	e370	497	580	376	479	139	146	131	128
25	302	378	e380	e360	490	580	380	481	175	164	132	146
26	295	370	e380	e380	486	571	383	461	220	217	134	149
27	296	378	e370	e360	476	571	342	440	173	178	151	128
28	290	426	e350	e350	456	564	324	443	157	150	133	125
29	281	401	e370	e340	---	570	316	429	152	155	131	125
30	277	422	e360	e360	---	578	298	398	170	158	134	126
31	268	---	365	e370	---	597	---	335	---	153	129	---
TOTAL	9,055	11,137	12,860	11,848	15,272	16,789	13,929	11,926	5,360	4,611	4,276	3,877
MEAN	292	371	415	382	545	542	464	385	179	149	138	129
MAX	341	469	498	440	1,190	767	585	569	324	217	154	149
MIN	268	273	350	337	380	420	298	238	112	119	127	120
CFSM	0.56	0.72	0.80	0.74	1.05	1.05	0.90	0.74	0.34	0.29	0.27	0.25
IN.	0.65	0.80	0.92	0.85	1.10	1.21	1.00	0.86	0.38	0.33	0.31	0.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2005, BY WATER YEAR (WY)

MEAN	358	417	388	338	374	448	454	421	392	337	301	314
MAX	623	711	558	542	585	760	1,043	858	1,002	862	760	696
(WY)	(2002)	(1986)	(1983)	(1986)	(1986)	(1994)	(1993)	(1993)	(2000)	(1993)	(1993)	(1993)
MIN	171	181	167	192	168	144	168	155	136	121	117	109
(WY)	(1991)	(1990)	(1990)	(1978)	(1991)	(2003)	(2003)	(1981)	(1988)	(1988)	(1988)	(1988)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1977 - 2005	
ANNUAL TOTAL	162,748		120,940			
ANNUAL MEAN	445		331		380	
HIGHEST ANNUAL MEAN					629	1993
LOWEST ANNUAL MEAN					261	2003
HIGHEST DAILY MEAN	1,840	May 23	1,190	Feb 14	2,880	Jun 18, 1996
LOWEST DAILY MEAN	170	May 6	112	Jun 23	60	Aug 7, 1977
ANNUAL SEVEN-DAY MINIMUM	203	May 4	125	Aug 31	104	Aug 3, 1977
MAXIMUM PEAK FLOW			(a)1,300	Feb 14	3,230	Jun 18, 1996
MAXIMUM PEAK STAGE			(b)8.33	Jan 17	11.16	Jun 18, 1996
ANNUAL RUNOFF (CFSM)	0.858		0.640		0.733	
ANNUAL RUNOFF (INCHES)	11.69		8.69		9.96	
10 PERCENT EXCEEDS	659		526		603	
50 PERCENT EXCEEDS	380		350		355	
90 PERCENT EXCEEDS	277		132		158	

(a) Gage hieght, 6.95 ft
(b) Ice affected
(e) Estimated

05430446 MARKHAM CREEK NEAR JANESVILLE, WI

LOCATION.--Lat 42°38'34", long 89°04'59", in SE ¼ SW ¼ sec.9, T.2 N., R.12 E., Rock County, Hydrologic Unit 07090001, on right bank, 10 ft upstream of O'Leary Road, and 1.8 mi upstream from Rock River.

DRAINAGE AREA.--9.32 mi^2.

PERIOD OF RECORD.--July 2004 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 800 ft above NGVD of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.5	1.9	e2.6	e2.6	e3.5	3.6	1.7	1.3	1.1	0.79	0.51
2	1.2	1.7	1.8	e7.0	e2.9	e2.8	3.2	1.7	1.3	1.0	0.76	0.49
3	1.2	1.4	1.9	e3.3	e3.2	e2.8	3.0	1.7	1.3	1.0	0.72	0.49
4	1.2	1.5	1.8	e2.4	e3.5	e3.4	2.9	1.6	1.5	1.1	0.73	0.49
5	1.2	1.3	1.8	e2.0	e4.8	18	2.9	1.6	24	1.3	0.70	0.49
6	1.2	1.3	2.2	e2.1	e32	38	2.8	1.6	4.2	1.4	0.67	0.48
7	1.1	1.3	3.1	e2.1	e82	18	3.2	1.6	2.8	1.4	0.66	0.49
8	1.4	1.3	2.8	e2.2	e24	11	2.8	1.6	2.1	1.4	0.65	0.49
9	1.3	1.3	2.4	e2.2	e6.3	6.2	2.5	1.6	1.9	1.4	0.63	0.50
10	1.2	1.3	2.2	e2.2	e4.4	3.3	2.4	1.5	1.7	1.6	0.62	0.48
11	1.2	1.3	2.1	e2.2	e3.7	e3.2	2.3	1.8	1.5	1.5	0.62	0.46
12	1.2	1.3	2.1	e10	e3.5	e3.0	2.9	1.6	1.4	1.5	0.73	0.46
13	1.2	1.4	e2.0	e19	e21	e2.7	3.0	1.7	1.5	1.8	0.67	0.48
14	1.2	1.4	e2.0	e12	e72	2.4	2.6	1.6	1.6	1.3	0.66	0.49
15	1.2	1.4	e2.0	e5.0	e37	2.8	2.4	1.6	1.4	1.1	0.64	0.50
16	1.3	1.4	e1.9	e3.5	e12	2.5	2.2	1.5	1.3	1.00	0.62	0.56
17	1.3	1.5	e1.9	e2.7	e8.2	2.6	2.1	1.5	1.3	0.79	0.60	0.53
18	1.4	1.5	e1.8	e2.6	e5.8	3.0	2.0	1.5	1.3	0.72	0.62	0.52
19	1.3	1.6	e1.8	e2.5	e3.5	25	1.9	2.4	1.2	0.61	0.63	0.60
20	1.3	1.6	e1.7	e2.3	e3.5	4.7	1.8	5.3	1.1	0.63	0.63	0.60
21	1.3	1.5	e1.7	e2.1	e5.0	3.8	1.7	3.0	1.0	0.78	0.59	0.54
22	1.4	1.5	e1.6	e2.1	e6.5	3.5	2.0	2.5	0.95	0.77	0.57	0.55
23	1.7	1.5	e1.6	e2.0	e5.1	3.3	1.8	2.1	0.94	0.63	0.57	0.57
24	1.4	1.5	e1.6	e2.0	e3.7	3.2	1.8	2.0	0.91	0.63	0.57	0.57
25	1.3	1.6	e1.7	e1.9	e4.5	3.1	1.8	1.8	0.90	4.3	0.56	0.65
26	1.3	1.5	e1.8	e1.8	e5.2	3.1	1.9	1.7	1.4	9.5	0.57	2.8
27	1.3	2.2	e1.9	e1.9	e3.5	3.2	1.8	1.6	1.0	1.2	0.56	0.69
28	1.2	2.5	e2.0	e2.0	e4.4	3.2	1.7	1.6	0.97	0.97	0.54	0.65
29	1.3	2.0	e2.1	e2.2	---	3.2	1.7	1.5	0.95	0.90	0.53	0.69
30	1.5	1.9	e2.2	e2.3	---	3.6	1.7	1.4	1.1	0.86	0.52	0.66
31	1.3	---	e2.8	e2.4	---	4.3	---	1.3	---	0.82	0.51	---
TOTAL	39.7	46.0	62.2	112.6	373.8	196.4	70.4	57.2	65.82	45.01	19.44	18.48
MEAN	1.28	1.53	2.01	3.63	13.3	6.34	2.35	1.85	2.19	1.45	0.63	0.62
MAX	1.7	2.5	3.1	19	82	38	3.6	5.3	24	9.5	0.79	2.8
MIN	1.1	1.3	1.6	1.8	2.6	2.4	1.7	1.3	0.90	0.61	0.51	0.46
CFSM	0.14	0.16	0.22	0.39	1.43	0.68	0.25	0.20	0.24	0.16	0.07	0.07
IN.	0.16	0.18	0.25	0.45	1.49	0.78	0.28	0.23	0.26	0.18	0.08	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	1.28	1.53	2.01	3.63	13.4	6.34	2.35	1.85	2.19	2.87	1.33	0.91
MAX	1.28	1.53	2.01	3.63	13.4	6.34	2.35	1.85	2.19	4.29	2.04	1.20
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)
MIN	1.28	1.53	2.01	3.63	13.4	6.34	2.35	1.85	2.19	1.45	0.63	0.62
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	1,107.05			
ANNUAL MEAN	3.03		3.03	
HIGHEST ANNUAL MEAN			3.03	2005
LOWEST ANNUAL MEAN			3.03	2005
HIGHEST DAILY MEAN	(a)82	Feb 7	(a)82	Feb 7, 2005
LOWEST DAILY MEAN	0.46	Sep 11, 12	0.46	Sep 11, 12 2005
ANNUAL SEVEN-DAY MINIMUM	0.48	Sep 6	0.48	Sep 6, 2005
MAXIMUM PEAK FLOW	(a)118	Feb 7	(a)118	Feb 7, 2005
MAXIMUM PEAK STAGE	(a)5.32	Feb 7	(a)5.32	Feb 7, 2005
INSTANTANEOUS LOW FLOW	0.44	Sep 11	0.44	Sep 11, 2005
ANNUAL RUNOFF (CFSM)	0.325		0.325	
ANNUAL RUNOFF (INCHES)	4.42		4.42	
10 PERCENT EXCEEDS	4.0		4.0	
50 PERCENT EXCEEDS	1.6		1.6	
90 PERCENT EXCEEDS	0.61		0.61	

(a) Ice affected
(e) Estimated

05430500 ROCK RIVER AT AFTON, WI

LOCATION.--Lat 42°36'33", long 89°04'14", in NE $^1/_4$ sec.28, T.2 N., R.12 E., Rock County, Hydrologic Unit 07090001, on right bank in Afton, 0.3 mi downstream from highway bridge and 1.1 mi upstream from Bass Creek.

DRAINAGE AREA.--3,340 mi^2.

PERIOD OF RECORD.--January 1914 to current year. Monthly discharge for January 1914 published in WSP 1308. Unpublished daily discharges for January and February 1914 in District files.

REVISED RECORDS.--WSP 1238: 1916(M), 1919(M), 1933, 1937-38, 1943. WDR WI-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 742.36 ft above NGVD of 1929. Prior to Aug. 23, 1932, a nonrecording gage 20 ft upstream, and Aug. 23, 1932, to Sept. 30, 1933, water-stage recorder, at same site at datum 1 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair, and periods of discharge below 800 ft^3/s, which are poor (see Introduction). Diurnal fluctuation caused by powerplants above station. Gage-height telemeter and data-collection platform at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	926	1,620	1,710	e1,300	e1,600	3,650	4,210	1,510	951	502	547	441
2	985	1,680	1,920	e1,500	e1,500	3,530	4,310	1,490	1,190	552	585	411
3	961	1,610	1,900	e1,400	e1,400	3,470	4,300	1,520	1,180	611	584	412
4	1,010	1,570	1,910	e1,300	1,190	3,400	4,290	1,490	1,180	519	562	461
5	1,240	1,510	1,920	e1,400	1,150	3,360	4,330	1,480	1,410	620	569	360
6	1,170	1,490	1,990	e1,300	1,270	3,490	4,310	1,400	1,740	656	566	443
7	1,170	1,540	2,000	e1,200	2,410	3,820	4,420	1,380	1,540	677	555	444
8	1,260	1,590	1,980	e1,200	e2,300	3,600	4,330	1,370	1,170	594	472	497
9	1,400	1,980	1,970	e1,200	e2,400	3,560	4,260	1,320	787	594	456	452
10	1,310	1,670	2,120	e1,300	e2,400	3,660	4,220	1,270	779	585	554	398
11	1,240	2,340	2,430	e1,300	e2,500	3,750	4,210	1,720	752	569	443	423
12	959	2,230	2,350	e1,400	2,790	3,760	4,270	2,190	879	581	590	446
13	1,030	1,950	2,270	e1,500	3,050	3,750	4,180	1,960	871	606	509	394
14	1,240	1,920	1,860	e1,600	4,840	3,710	4,010	1,820	1,040	609	515	389
15	1,310	1,490	e1,700	e1,800	4,540	3,680	3,880	1,900	971	553	561	421
16	974	1,440	e1,500	e1,900	4,210	3,620	3,750	2,180	1,040	521	457	396
17	951	1,440	e1,500	e2,000	4,200	3,610	3,650	2,190	654	499	511	392
18	1,160	1,440	e1,500	e2,000	4,260	3,620	3,520	2,220	676	457	513	421
19	1,190	1,520	e1,400	e2,100	4,310	3,700	3,330	2,390	663	475	539	493
20	984	1,910	e1,300	e2,100	4,390	3,790	3,300	2,420	643	542	580	366
21	1,160	2,140	e1,300	e1,900	4,360	3,750	3,280	2,320	653	761	532	407
22	1,270	1,770	e1,400	e2,000	4,350	3,780	3,140	2,250	668	745	479	397
23	1,340	1,380	e1,400	e1,900	4,210	3,840	3,120	2,210	608	669	553	458
24	1,280	1,390	e1,400	e1,900	4,110	3,850	2,910	2,240	472	685	538	476
25	1,360	1,640	e1,300	e1,800	4,060	3,930	2,720	2,200	599	878	526	518
26	1,600	1,690	e1,200	e1,800	3,990	3,970	2,510	2,150	731	1,300	506	685
27	1,690	1,690	e1,200	e1,800	3,910	3,970	2,240	2,010	728	1,540	482	524
28	1,630	1,680	e1,200	e1,800	3,820	4,010	2,150	2,000	807	1,320	463	500
29	1,560	1,690	e1,200	e1,700	---	4,020	2,100	1,600	823	1,120	450	482
30	1,460	1,660	e1,200	e1,700	---	4,080	1,670	1,380	566	887	476	458
31	1,440	---	e1,200	e1,700	---	4,080	---	1,070	---	544	495	---
TOTAL	38,260	50,670	51,230	50,800	89,520	115,810	106,920	56,650	26,771	21,771	16,168	13,365
MEAN	1,234	1,689	1,653	1,639	3,197	3,736	3,564	1,827	892	702	522	446
MAX	1,690	2,340	2,430	2,100	4,840	4,080	4,420	2,420	1,740	1,540	590	685
MIN	926	1,380	1,200	1,200	1,150	3,360	1,670	1,070	472	457	443	360
CFSM	0.37	0.51	0.49	0.49	0.96	1.12	1.07	0.55	0.27	0.21	0.16	0.13
IN.	0.43	0.56	0.57	0.57	1.00	1.29	1.19	0.63	0.30	0.24	0.18	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

MEAN	1,391	1,586	1,483	1,314	1,572	3,325	4,064	2,616	1,919	1,469	1,138	1,185
MAX	8,219	5,884	4,395	3,558	5,647	8,958	10,010	7,911	9,335	5,443	5,376	5,088
(WY)	(1987)	(1986)	(1986)	(1960)	(1938)	(1918)	(1979)	(1973)	(2004)	(1993)	(1924)	(1938)
MIN	254	397	383	275	327	610	1,002	389	314	247	183	212
(WY)	(1940)	(1964)	(1940)	(1959)	(1959)	(1940)	(1931)	(1958)	(1934)	(1934)	(1934)	(1939)

05430500 ROCK RIVER AT AFTON, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1914 - 2005	
ANNUAL TOTAL	1,113,588		637,935			
ANNUAL MEAN	3,043		1,748		1,925	
HIGHEST ANNUAL MEAN					3,925	1993
LOWEST ANNUAL MEAN					557	1964
HIGHEST DAILY MEAN	9,910	Jun 4	4,840	Feb 14	13,000	Mar 23, 24 1929
LOWEST DAILY MEAN	(a)650	Feb 4, 9	360	Sep 5	42	Aug 25, 1934
ANNUAL SEVEN-DAY MINIMUM	(a)726	Feb 4	408	Sep 12	115	Aug 24, 1934
MAXIMUM PEAK FLOW			5,050	Feb 14	(b)13,000	Mar 23, 24 1929
MAXIMUM PEAK STAGE			7.67	Feb 14	(c)13.05	Feb 5, 1916
ANNUAL RUNOFF (CFSM)	0.911		0.523		0.576	
ANNUAL RUNOFF (INCHES)	12.40		7.11		7.83	
10 PERCENT EXCEEDS	7,770		3,860		4,060	
50 PERCENT EXCEEDS	1,920		1,440		1,360	
90 PERCENT EXCEEDS	985		489		486	

(a) Ice affected
(b) Gage height, 11.81 ft, present datum
(c) Present datum, backwater from ice
(e) Estimated

05430540 STEVENS CREEK NEAR FOOTVILLE, WI

LOCATION.--Lat 42°39'26", long 89°09'41", in NE ¼ NW ¼ sec.11, T.2 N., R.11 E., Rock County, Hydrologic Unit 07090001, on right downstream bank of Janesville Hanover Rd.

DRAINAGE AREA.--13.9 mi^2.

PERIOD OF RECORD.--June 2004 to September 2005.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 783.13 ft above NGVD of 1929 (Wisconsin Department of Transportation benchmark).

REMARKS.--Records fair (see Introduction). 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	---	---	---	---	---	---	---	---	26	15	8.2	5.3
2	---	---	---	---	---	---	---	---	19	15	8.0	5.4
3	---	---	---	---	---	---	---	---	16	20	8.5	5.2
4	---	---	---	---	---	---	---	---	15	109	11	4.9
5	---	---	---	---	---	---	---	---	15	23	8.2	4.5
6	---	---	---	---	---	---	---	---	15	21	7.6	4.4
7	---	---	---	---	---	---	---	---	15	74	7.7	4.6
8	---	---	---	---	---	---	---	---	15	22	7.6	4.3
9	---	---	---	---	---	---	---	---	15	21	7.2	4.4
10	---	---	---	---	---	---	---	---	18	20	7.0	4.2
11	---	---	---	---	---	---	---	---	24	17	7.0	4.0
12	---	---	---	---	---	---	---	---	30	16	6.5	4.0
13	---	---	---	---	---	---	---	---	21	15	6.1	3.9
14	---	---	---	---	---	---	---	---	123	14	5.9	4.1
15	---	---	---	---	---	---	---	---	26	13	5.6	4.1
16	---	---	---	---	---	---	---	---	20	13	5.2	4.1
17	---	---	---	---	---	---	---	---	36	13	5.6	4.2
18	---	---	---	---	---	---	---	---	22	12	6.0	4.1
19	---	---	---	---	---	---	---	---	18	11	5.8	3.7
20	---	---	---	---	---	---	---	---	17	11	4.9	3.5
21	---	---	---	---	---	---	---	---	20	12	4.7	3.5
22	---	---	---	---	---	---	---	---	19	11	4.6	3.3
23	---	---	---	---	---	---	---	---	17	10	4.7	3.4
24	---	---	---	---	---	---	---	---	17	10	4.9	3.3
25	---	---	---	---	---	---	---	---	16	10	5.3	3.4
26	---	---	---	---	---	---	---	---	16	9.7	5.2	3.6
27	---	---	---	---	---	---	---	---	16	9.5	5.6	3.6
28	---	---	---	---	---	---	---	---	16	9.3	6.0	3.5
29	---	---	---	---	---	---	---	---	15	9.0	6.5	3.9
30	---	---	---	---	---	---	---	---	15	9.1	5.5	4.0
31	---	---	---	---	---	---	---	---	---	8.5	5.2	---
TOTAL	---	---	---	---	---	---	---	---	673	583.1	197.8	122.4
MEAN	---	---	---	---	---	---	---	---	22.4	18.8	6.38	4.08
MAX	---	---	---	---	---	---	---	---	123	109	11	5.4
MIN	---	---	---	---	---	---	---	---	15	8.5	4.6	3.3
CFSM	---	---	---	---	---	---	---	---	1.61	1.35	0.46	0.29
IN.	---	---	---	---	---	---	---	---	1.80	1.56	0.53	0.33

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

MEAN	---	---	---	---	---	---	---	---	22.4	18.8	6.38	4.08
MAX	---	---	---	---	---	---	---	---	22.4	18.8	6.38	4.08
(WY)	---	---	---	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	---	---	---	22.4	18.8	6.38	4.08
(WY)	---	---	---	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)

SUMMARY STATISTICS	FOR 2004 WATER YEAR (June - September)	
HIGHEST DAILY MEAN	123	Jun 14
LOWEST DAILY MEAN	3.3	Sep 22, 24
ANNUAL SEVEN-DAY MINIMUM	3.4	Sep 20
MAXIMUM PEAK FLOW	631	Jun 14
MAXIMUM PEAK STAGE	9.74	Jun 14
INSTANTANEOUS LOW FLOW	3.0	Sep 28

05430540 STEVENS CREEK NEAR FOOTVILLE, WI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	6.0	4.4	5.1	5.2	e7.0	6.6	3.2	3.0	3.3	2.9	1.4
2	4.6	7.1	4.4	23	5.7	e5.7	5.9	3.3	3.2	3.4	2.5	1.4
3	4.3	5.9	4.3	6.5	6.2	e5.4	5.3	3.0	3.3	3.3	2.5	1.4
4	4.2	5.5	4.2	4.7	7.0	e8.3	4.8	2.8	3.5	4.4	2.5	1.4
5	4.3	5.0	4.3	e4.0	9.3	43	4.6	3.2	116	4.3	2.1	1.4
6	4.2	4.7	5.3	e4.1	59	65	4.7	3.2	13	3.8	2.1	1.4
7	4.2	4.5	7.2	e4.2	192	28	6.1	3.1	8.7	3.7	2.0	1.4
8	5.8	4.4	6.9	4.3	37	11	4.9	3.1	7.2	3.5	1.9	1.4
9	4.8	4.2	5.1	4.4	19	8.1	4.5	3.0	6.2	3.3	1.8	1.5
10	4.4	4.3	4.7	4.4	11	7.3	4.3	2.8	5.5	3.2	1.8	1.3
11	4.4	4.3	4.7	4.4	9.4	6.6	3.9	3.7	5.4	3.0	1.9	1.3
12	4.3	4.1	e4.6	37	9.8	5.8	5.3	3.2	5.5	3.5	2.6	1.4
13	4.4	4.2	4.4	e60	110	5.3	5.3	3.6	12	3.9	2.1	1.4
14	4.5	3.9	4.1	e24	209	5.0	4.5	3.4	11	3.6	2.1	1.4
15	4.8	3.9	e4.0	e10	69	4.9	4.2	3.0	6.1	3.0	1.9	1.5
16	4.8	4.2	e3.9	e7.0	25	5.4	4.2	2.9	4.9	2.9	1.8	1.7
17	4.8	4.3	e3.7	e5.5	14	5.4	4.1	2.7	4.3	2.8	1.8	1.7
18	4.6	4.4	e3.6	e5.1	8.9	6.3	3.9	2.7	4.2	2.5	1.9	1.6
19	4.9	4.7	e3.6	e4.9	8.1	44	3.9	39	3.9	2.2	1.8	3.8
20	5.0	4.9	e3.5	4.5	9.6	12	4.1	33	4.0	3.0	1.9	2.1
21	5.0	4.7	e3.5	4.2	14	8.6	3.9	10	3.8	5.6	1.7	1.8
22	4.9	4.7	e3.3	e4.2	18	7.6	4.7	8.0	3.5	4.2	1.7	1.8
23	6.6	4.6	e3.2	e4.1	e9.1	7.1	4.5	6.6	3.2	3.8	1.7	1.8
24	5.3	4.2	e3.2	e3.9	e8.6	6.6	4.1	5.7	3.2	3.6	1.6	1.9
25	4.8	4.0	e3.3	e3.8	e14	6.7	4.0	5.0	3.4	33	1.4	3.3
26	4.8	4.1	e3.5	e3.6	e14	6.5	3.8	4.7	21	13	1.5	4.7
27	5.1	5.9	e3.7	e3.8	e10	6.5	3.8	4.3	5.5	6.8	1.6	2.3
28	5.0	6.6	e3.9	e4.0	e9.7	6.5	3.7	4.5	4.2	4.8	1.5	2.3
29	5.1	5.1	e4.1	e4.3	---	6.5	3.3	4.3	3.9	4.1	1.5	2.7
30	5.8	4.6	5.3	4.6	---	7.2	3.5	4.2	3.7	3.5	1.5	2.0
31	5.2	---	5.8	4.8	---	8.0	---	3.3	---	3.2	1.3	---
TOTAL	149.0	143.0	133.7	272.4	921.6	367.3	134.4	188.5	286.3	152.2	58.9	56.5
MEAN	4.81	4.77	4.31	8.79	32.9	11.8	4.48	6.08	9.54	4.91	1.90	1.88
MAX	6.6	7.1	7.2	60	209	65	6.6	39	116	33	2.9	4.7
MIN	4.1	3.9	3.2	3.6	5.2	4.9	3.3	2.7	3.0	2.2	1.3	1.3
CFSM	0.35	0.34	0.31	0.63	2.37	0.85	0.32	0.44	0.69	0.35	0.14	0.14
IN.	0.40	0.38	0.36	0.73	2.47	0.98	0.36	0.50	0.77	0.41	0.16	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	4.81	4.77	4.31	8.79	32.9	11.8	4.48	6.08	16.0	11.9	4.14	2.98
MAX	4.81	4.77	4.31	8.79	32.9	11.8	4.48	6.08	22.4	18.8	6.38	4.08
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)
MIN	4.81	4.77	4.31	8.79	32.9	11.8	4.48	6.08	9.54	4.91	1.90	1.88
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005 (June 2004 - September 2005)	
ANNUAL TOTAL	2,863.8			
ANNUAL MEAN	7.85		7.85	
HIGHEST ANNUAL MEAN			7.85	2005
LOWEST ANNUAL MEAN			7.85	2005
HIGHEST DAILY MEAN	209	Feb 14	209	Feb 14, 2005
LOWEST DAILY MEAN	1.3	(a)Aug 31	1.3	(a)Aug 31, 2005
ANNUAL SEVEN-DAY MINIMUM	1.4	Aug 31	1.4	Aug 31, 2005
MAXIMUM PEAK FLOW	470	Feb 14	631	Jun 14, 2004
MAXIMUM PEAK STAGE	8.74	Feb 14	9.74	Jun 14, 2004
INSTANTANEOUS LOW FLOW	1.1	Sep 11	1.1	Sep 11, 2005
ANNUAL RUNOFF (CFSM)	0.564		0.564	
ANNUAL RUNOFF (INCHES)	7.66		7.67	
10 PERCENT EXCEEDS	9.9		9.9	
50 PERCENT EXCEEDS	4.3		4.3	
90 PERCENT EXCEEDS	1.8		1.8	

(a) Also occurred Sept. 10, 11, 2005
(e) Estimated

054310157 JACKSON CREEK TRIBUTARY NEAR ELKHORN, WI

LOCATION.--Lat 42°39'03", long 88°33'03", in NW ¼ NE ¼ sec.12, T.2 N., R.16 E., Walworth County, Hydrologic Unit 07090001, on left bank 20 ft downstream from Interstate Highway 43, 1.1 mi upstream from Delavan Lake inlet at Mound Road, and 1.5 mi south of Elkhorn.

DRAINAGE AREA.--4.34 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1983 to current year.

REVISED RECORDS.--WDR WI-89-1: 1988.

GAGE.--Water-stage recorder. Datum of gage is 924.70 ft above NGVD of 1929 (Wisconsin Department of Transportation benchmark). Prior to Dec. 4, 1992, at site 180 ft downstream at same datum.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	6.1	0.72	1.8	1.2	1.7	2.5	0.95	0.67	0.73	0.41	0.21
2	3.5	3.8	0.65	32	1.2	1.6	2.1	1.0	0.45	0.57	0.42	0.20
3	0.68	0.88	0.61	3.2	1.2	1.5	1.8	1.0	0.53	0.53	0.61	0.21
4	0.68	1.1	0.56	1.8	1.6	1.5	1.7	0.96	0.41	0.61	4.1	0.19
5	0.68	0.76	0.56	e1.5	4.5	1.5	1.7	1.0	5.2	0.77	0.76	0.19
6	0.69	0.65	1.4	e1.3	14	2.5	1.8	1.1	0.85	4.0	0.59	0.19
7	0.68	0.55	16	e1.2	28	3.3	3.7	1.2	0.65	0.91	0.39	0.20
8	1.0	0.53	5.3	e1.1	7.2	1.9	1.8	0.94	0.41	0.88	0.33	0.20
9	0.64	0.57	2.1	e1.1	3.4	1.6	1.6	1.2	0.35	0.73	e0.30	0.25
10	0.54	0.55	2.0	1.2	2.7	1.7	1.4	1.2	0.41	0.59	e0.26	0.20
11	0.61	0.55	1.9	1.3	2.5	1.8	1.4	5.0	0.29	0.63	0.57	0.19
12	0.68	0.58	1.5	24	2.7	1.5	3.2	1.6	0.25	1.5	19	0.19
13	0.70	0.53	1.3	30	15	1.3	1.9	2.2	4.3	3.1	2.9	0.28
14	0.65	0.44	1.1	5.8	41	1.3	1.5	1.5	1.7	0.96	0.87	0.21
15	0.80	0.57	1.2	2.4	12	1.3	1.4	1.2	0.63	0.81	e0.40	0.33
16	0.59	0.55	e1.0	1.8	4.8	1.5	1.2	1.1	0.42	0.88	e0.30	0.42
17	0.50	0.54	e0.90	e1.5	3.2	1.8	1.2	0.97	0.46	0.59	e0.28	0.20
18	0.58	0.54	e0.80	e1.4	2.6	1.9	1.1	0.98	0.28	0.53	2.7	0.19
19	0.63	1.4	e0.70	e1.3	2.3	5.4	1.1	3.4	0.18	0.54	1.3	0.62
20	0.62	0.99	e0.64	e1.2	2.8	2.8	2.4	2.0	0.24	9.6	4.2	0.21
21	0.60	0.56	e0.60	e1.2	3.1	2.5	1.3	1.3	0.31	17	0.98	0.20
22	0.62	0.54	e0.56	e1.1	2.6	2.4	2.1	1.5	0.28	4.0	e0.40	5.1
23	11	0.52	e0.54	e1.0	2.2	2.3	1.4	1.2	0.36	6.1	e0.32	1.4
24	2.1	0.48	e0.52	e1.3	2.0	2.2	1.1	0.99	0.51	4.2	e0.26	0.30
25	0.79	0.47	e0.52	e1.2	2.0	2.3	1.2	0.87	0.47	0.98	e0.22	26
26	0.90	0.47	e0.50	1.2	1.7	2.2	1.2	0.86	1.6	0.87	e0.20	26
27	0.87	2.4	e0.50	1.2	1.7	2.3	1.1	1.00	0.58	0.69	5.2	2.1
28	0.67	1.2	e0.48	1.2	2.1	2.3	1.1	1.0	0.56	0.43	0.26	2.3
29	0.68	0.60	0.69	1.2	---	2.4	1.0	0.94	0.53	0.65	0.22	2.1
30	5.6	0.61	0.93	1.1	---	2.5	1.1	0.82	e5.0	0.57	0.23	0.68
31	0.82	---	1.4	1.2	---	2.3	---	0.80	---	0.42	0.21	---
TOTAL	41.90	30.03	48.18	129.8	171.3	65.1	49.1	41.78	28.88	65.37	49.19	71.06
MEAN	1.35	1.00	1.55	4.19	6.12	2.10	1.64	1.35	0.96	2.11	1.59	2.37
MAX	11	6.1	16	32	41	5.4	3.7	5.0	5.2	17	19	26
MIN	0.50	0.44	0.48	1.0	1.2	1.3	1.0	0.80	0.18	0.42	0.20	0.19
CFSM	0.31	0.23	0.36	0.96	1.41	0.48	0.38	0.31	0.22	0.49	0.37	0.55
IN.	0.36	0.26	0.41	1.11	1.47	0.56	0.42	0.36	0.25	0.56	0.42	0.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2005, BY WATER YEAR (WY)

MEAN	2.25	3.37	2.33	1.93	3.72	4.44	4.59	3.85	3.82	2.18	1.59	2.55
MAX	8.38	13.3	6.55	4.62	9.42	10.7	14.4	11.5	9.97	5.39	5.59	10.8
(WY)	(2002)	(1986)	(1985)	(1999)	(2001)	(1986)	(1993)	(2004)	(2004)	(1992)	(1995)	(1986)
MIN	0.30	0.58	0.49	0.45	0.33	1.11	1.17	0.79	0.54	0.44	0.30	0.27
(WY)	(1995)	(1990)	(1990)	(1994)	(1989)	(2003)	(2003)	(1989)	(1988)	(1988)	(1988)	(1987)

054310157 JACKSON CREEK TRIBUTARY NEAR ELKHORN, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1984 - 2005	
ANNUAL TOTAL	1,236.96		791.69			
ANNUAL MEAN	3.38		2.17		3.04	
HIGHEST ANNUAL MEAN					5.74	1993
LOWEST ANNUAL MEAN					1.37	2003
HIGHEST DAILY MEAN	91	May 22	41	Feb 14	113	Feb 19, 1994
LOWEST DAILY MEAN	0.44	Nov 14	0.18	Jun 19	0.03	Sep 14, 1997
ANNUAL SEVEN-DAY MINIMUM	0.52	Dec 22	0.20	Sep 2	0.07	Sep 8, 1997
MAXIMUM PEAK FLOW			126	Jan 12	210	Apr 19, 1993
MAXIMUM PEAK STAGE			8.83	Jan 12	10.00	Apr 19, 1993
ANNUAL RUNOFF (CFSM)	0.779		0.500		0.700	
ANNUAL RUNOFF (INCHES)	10.60		6.79		9.52	
10 PERCENT EXCEEDS	6.6		3.7		6.2	
50 PERCENT EXCEEDS	1.3		1.0		1.3	
90 PERCENT EXCEEDS	0.58		0.31		0.41	

(e) Estimated

054310157 JACKSON CREEK TRIBUTARY NEAR ELKHORN, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1983 to current year.
DISSOLVED AMMONIA NITROGEN DISCHARGE: February 1993 to September 1995.
TOTAL AMMONIA PLUS ORGANIC NITROGEN DISCHARGE: Water years 1984-85 and February 1993 to September 1995.
DISSOLVED NITRITE PLUS NITRATE DISCHARGE: February 1993 to September 1995.
TOTAL NITRITE PLUS NITRATE DISCHARGE: Water years 1984-85.
TOTAL-PHOSPHORUS DISCHARGE: October 1983 to current year.
DISSOLVED ORTHO-PHOSPHORUS DISCHARGE: February 1993 to September 1995.

INSTRUMENTATION.--Automatic pumping sampler since October 1983.

REMARKS.--Records good.

COOPERATION.--Observer furnished by Delavan Lake Sanitary District.

EXTREMES FOR PERIOD OF RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 5,520 mg/L, Aug. 7, 1984; minimum observed, 1 mg/L, on several days during 1984, May 12, 1990, and May 11, 1995.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 136 tons, June 17, 1996; minimum daily, 0.00 ton, on several days in 1994, 1995, 1997 and 2000 water years, Aug. 3, 2002, June 29 to July 2, 2003, and many days in 2005 water year.
DISSOLVED AMMONIA NITROGEN CONCENTRATIONS: Maximum observed, 1.00 mg/L, Jan. 24, 1994; minimum observed, <0.015 mg/L, on many days in 1995 water year.
DISSOLVED AMMONIA NITROGEN DISCHARGE: Maximum daily, 298 lb, Mar. 23, 1993; minimum daily, 0.02 lb, Jan. 8-11 and July 1-2, 1995.
TOTAL AMMONIA PLUS ORGANIC NITROGEN CONCENTRATIONS: Maximum observed, 16 mg/L, Nov. 19, 1983; minimum observed, 0.10 mg/L, Oct. 12, 1984.
TOTAL AMMONIA PLUS ORGANIC NITROGEN DISCHARGE: Maximum daily, 1,710 lb, Feb. 19, 1994; minimum daily, 0.09 lb, Jan. 9-11, 1995.
DISSOLVED NITRITE PLUS NITRATE CONCENTRATIONS: Maximum observed, 7.6 mg/L, Apr. 28, 1995; minimum observed, 0.30 mg/L, Aug. 7, 1995.
DISSOLVED NITRITE PLUS NITRATE DISCHARGE: Maximum daily, 1,080 lb, June 8, 1993; minimum daily, 0.43 lb, Aug. 6, 1995.
TOTAL NITRITE PLUS NITRATE CONCENTRATIONS: Maximum observed, 6.10 mg/L, Oct. 19, 1984; minimum observed, <0.10 mg/L, Oct. 12 and July 23, 1985.
TOTAL NITRITE PLUS NITRATE DISCHARGE: Maximum daily, 1,489 lb, May 28, 1984; minimum daily, 0.17 lb, July 23, 1985.
TOTAL PHOSPHORUS CONCENTRATIONS: Maximum observed, 8.20 mg/L, Aug. 7, 1984; minimum observed, 0.01 mg/L, Jan. 16, Mar. 14, 1990, and Dec. 27, 1994.
TOTAL PHOSPHORUS DISCHARGE: Maximum daily, 584 lb, Feb. 19, 1994; minimum daily, 0.01 lb, Aug. 2, 1994.
DISSOLVED ORTHO-PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.81 mg/L, Mar. 4, 1993; minimum observed, <0.01 mg/L, on many days during 1995.
DISSOLVED ORTHO-PHOSPHORUS DISCHARGE: Maximum daily, 126 lb, Mar. 23, 1993; minimum daily, 0.00 lb, Aug. 2, 1994, and Jan. 8-11, Aug. 6, 1995.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 1,050 mg/L, Jan. 2; minimum observed, 3 mg/L, Nov. 1, Feb. 8.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 20 tons, Jan. 2; minimum daily, 0.00 ton, on many days.
TOTAL PHOSPHORUS CONCENTRATIONS: Maximum observed, 1.62 mg/L, Jan. 2; minimum observed, 0.03 mg/L, Apr. 4.
TOTAL PHOSPHORUS DISCHARGE: Maximum daily, 103 lb, Jan. 2; minimum daily, 0.10 lb, Sept. 4-6, 11, 12, 18.

054310157 JACKSON CREEK TRIBUTARY NEAR ELKHORN, WI—Continued

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.53	0.35	0.04	0.81	0.02	0.04	0.12	0.15	0.02	0.02	0.00	0.02
2	0.39	0.08	0.03	20	0.02	0.04	0.10	0.17	0.01	0.02	0.00	0.03
3	0.04	0.01	0.02	0.09	0.02	0.03	0.09	0.16	0.01	0.02	0.00	0.03
4	0.03	e0.10	0.02	0.05	0.02	0.03	0.08	0.15	0.01	0.02	0.34	0.03
5	0.03	0.01	0.02	e0.04	0.36	0.03	0.08	0.16	0.77	0.05	0.03	0.03
6	0.03	0.00	0.06	e0.04	1.1	e0.23	0.10	0.17	0.03	0.98	0.02	0.04
7	0.03	0.00	4.2	e0.03	2.2	e0.40	0.46	0.18	0.02	0.02	0.01	0.03
8	e0.09	0.00	0.16	e0.03	0.08	0.04	0.05	0.14	0.01	0.02	0.01	0.03
9	0.03	0.00	0.07	e0.03	0.03	0.03	0.05	0.17	0.01	0.01	e0.01	0.04
10	0.02	0.00	0.06	0.03	0.02	0.03	0.05	0.16	0.01	0.01	e0.01	0.03
11	0.02	0.00	0.06	0.03	0.02	0.03	0.05	2.4	0.00	0.01	0.02	0.02
12	0.03	0.00	0.05	15	0.02	0.03	e0.38	0.12	0.00	e0.09	3.9	0.02
13	0.03	0.00	0.04	1.9	6.1	0.02	0.08	0.14	1.2	0.13	0.18	0.03
14	0.02	0.00	0.04	0.09	11	0.02	0.07	0.08	0.08	0.03	0.04	0.02
15	e0.06	0.00	0.04	0.04	0.37	0.02	0.07	0.06	0.03	0.02	e0.02	0.03
16	0.02	0.00	e0.03	0.03	0.12	0.02	0.06	0.05	0.02	0.02	e0.01	0.04
17	0.02	0.00	e0.03	e0.02	0.08	e0.09	0.07	0.05	0.02	0.02	e0.01	0.02
18	0.02	0.00	e0.02	e0.02	0.06	e0.11	0.07	0.05	0.01	0.01	0.34	0.01
19	0.02	e0.13	e0.02	e0.02	0.05	0.84	0.08	e1.4	0.00	0.01	0.06	0.04
20	0.02	e0.09	e0.02	e0.02	0.07	0.16	e0.21	e0.58	0.00	3.1	0.39	0.01
21	0.02	0.01	e0.02	e0.02	0.07	0.13	0.10	0.05	0.00	3.7	0.05	0.01
22	0.02	0.01	e0.02	e0.02	0.06	0.13	e0.15	0.06	0.00	0.15	e0.02	2.0
23	1.3	0.01	e0.02	e0.02	0.05	0.12	0.12	0.05	0.01	e1.3	e0.01	0.13
24	0.12	0.01	e0.02	e0.02	0.05	0.11	0.11	0.04	0.01	e0.78	e0.01	0.01
25	0.04	0.01	e0.02	e0.02	0.05	0.12	0.12	0.03	0.01	0.02	e0.01	15
26	e0.07	0.01	e0.01	0.02	0.04	0.11	0.13	0.03	0.07	0.02	e0.01	3.7
27	0.04	0.20	e0.01	0.02	0.04	0.12	0.13	0.04	0.01	0.02	e0.81	0.08
28	0.03	0.09	e0.01	0.02	0.05	0.12	0.13	0.03	0.00	0.00	0.02	0.39
29	0.03	0.04	0.02	0.02	---	0.12	0.14	0.03	0.00	0.02	0.02	0.15
30	0.98	0.04	e0.04	0.02	---	0.12	0.16	0.03	e0.99	0.01	0.02	0.05
31	0.05	---	e0.05	0.02	---	0.11	---	0.02	---	0.01	0.02	---
TOTAL	4.18	1.20	5.27	38.54	22.17	3.55	3.61	6.95	3.36	10.64	6.40	22.07

WTR YR 2005 TOTAL 127.94

e Estimated

054310157 JACKSON CREEK TRIBUTARY NEAR ELKHORN, WI—Continued

PHOSPHORUS, WATER, UNFILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.73	10.1	0.29	4.00	0.33	0.58	0.50	0.16	0.20	0.39	0.26	0.11
2	5.43	3.42	0.24	103	0.33	0.51	0.39	0.16	0.13	0.30	0.26	0.11
3	0.54	0.61	0.21	1.87	0.34	0.46	0.31	0.15	0.15	0.27	0.34	0.11
4	0.53	e1.80	0.17	0.92	0.43	0.45	0.28	0.14	0.11	0.30	3.35	0.10
5	0.52	0.52	0.16	e0.69	6.47	0.43	0.28	0.15	6.59	0.38	0.41	0.10
6	0.51	0.44	0.67	e0.55	23.6	e1.20	0.40	0.15	0.56	5.99	0.32	0.10
7	0.50	0.36	27.9	e0.47	47.4	e1.80	2.67	0.16	0.41	0.72	0.21	0.11
8	e1.00	0.35	2.52	e0.40	5.94	1.00	0.48	0.12	0.25	0.64	0.18	0.11
9	0.45	0.37	0.90	e0.37	2.26	0.75	0.42	0.14	0.21	0.50	e0.16	0.14
10	0.37	0.35	e3.20	0.39	1.70	0.71	0.36	0.13	0.24	0.37	e0.14	0.11
11	0.42	0.35	e3.00	0.38	1.48	0.65	0.34	9.22	0.16	0.37	0.31	0.10
12	0.45	0.37	0.60	52.1	1.56	0.49	e1.70	0.46	0.14	e2.30	28.9	0.10
13	0.46	0.33	0.51	30.2	38.5	0.38	e0.70	1.25	7.81	2.36	2.56	0.15
14	0.41	0.27	0.44	2.51	90.2	0.35	0.36	0.80	1.37	0.70	0.66	0.12
15	0.50	0.35	0.44	0.88	9.80	0.31	0.32	0.62	0.48	0.56	e0.27	0.18
16	0.36	0.33	e0.37	0.66	2.82	0.31	0.26	0.53	0.31	0.57	e0.19	0.23
17	0.30	0.32	e0.33	e0.54	1.80	0.34	0.25	0.47	0.33	0.37	e0.16	0.11
18	0.34	0.32	e0.29	e0.50	1.39	0.32	0.24	0.46	0.20	0.32	3.38	0.10
19	0.37	e2.20	e0.25	e0.46	1.17	5.40	0.24	e5.60	0.12	0.31	1.01	0.34
20	0.35	e1.60	e0.22	e0.41	1.39	1.43	e1.10	e3.30	0.15	17.7	4.81	0.12
21	0.33	0.32	e0.20	e0.40	1.47	1.18	0.26	0.53	0.20	25.3	1.00	0.11
22	0.34	0.30	e0.18	e0.37	1.17	1.05	e0.90	0.64	0.17	3.69	e0.36	10.5
23	17.4	0.29	e0.17	e0.33	0.93	0.94	0.27	0.47	0.21	e9.40	e0.26	1.38
24	1.88	0.27	e0.16	e0.42	0.84	0.82	0.22	0.38	0.29	e6.50	e0.19	0.32
25	0.62	0.26	e0.16	e0.38	0.78	0.80	0.22	0.33	0.26	0.78	e0.14	62.1
26	0.65	0.26	e0.15	0.39	0.64	0.70	0.22	0.31	1.17	0.67	e0.11	39.9
27	0.58	2.29	e0.15	0.37	0.60	0.67	0.19	0.35	0.20	0.52	e7.60	1.46
28	0.41	1.13	e0.14	0.36	0.74	0.65	0.19	0.35	0.17	0.31	0.14	2.64
29	0.39	0.30	0.20	0.36	---	0.60	0.18	0.31	0.15	0.46	0.12	1.32
30	10.5	0.27	e1.50	0.31	---	0.58	0.18	0.26	2.26	0.39	0.12	0.22
31	0.57	---	e2.20	0.34	---	0.50	---	0.25	---	0.28	0.11	---
TOTAL	51.21	30.45	47.92	205.33	246.08	26.36	14.43	28.35	25.00	83.72	58.03	122.60

WTR YR 2005 TOTAL 939.48

e Estimated

054310157 JACKSON CREEK TRIBUTARY NEAR ELKHORN, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT					
01...	2230	9.0	50	.68	248
01...	2345	16	50	.67	180
02...	0200	8.2	50	.31	31
23...	0315	16	50	.72	189
23...	0530	13	50	.30	35
23...	1000	7.9	50	.26	14
23...	1145	15	50	.28	57
23...	1245	23	50	.38	70
23...	1500	16	50	.22	22
23...	1930	8.4	50	.19	17
24...	0915	2.0	10	.16	22
30...	0200	14	50	.87	346
30...	0415	13	50	.35	44
30...	0845	6.7	50	.25	22
NOV					
01...	1110	3.4	10	.24	24
01...	1445	12	50	.52	49
01...	1700	14	50	.32	30
01...	2130	11	50	.25	3
02...	0415	7.0	50	.18	12
02...	1100	3.3	50	.13	5
27...	1530	3.4	50	.23	59
27...	1745	4.0	50	.15	26
27...	2000	4.9	50	.14	22
27...	2215	3.7	50	.23	26
29...	0730	.60	10	.09	27
DEC					
06...	0830	1.9	10	.12	18
07...	0830	13	50	.79	321
07...	0900	21	50	.91	365
07...	0930	31	50	.81	330
07...	1015	43	50	.62	267
07...	1445	24	50	.17	23
07...	2345	11	50	.11	9
08...	0840	5.8	10	.08	12
JAN					
01...	2330	17	50	1.07	510
02...	0001	31	50	.84	391
02...	0030	46	50	.71	362
02...	0245	32	50	.35	61
02...	0345	83	50	1.62	1,050
02...	0445	96	50	.94	482
02...	0715	50	50	.53	116
02...	1130	25	50	.30	33
02...	1815	12	50	.17	15
03...	0820	2.9	10	.10	10
12...	1630	14	50	.88	535
12...	1915	35	50	.39	132
12...	1945	64	50	.62	366
12...	2000	81	50	.56	328
12...	2015	96	50	.67	411
12...	2030	112	50	.74	531
12...	2245	112	50	.28	118
13...	0145	63	50	.21	34
13...	1730	17	50	.15	6
14...	0900	6.2	10	.07	6

054310157 JACKSON CREEK TRIBUTARY NEAR ELKHORN, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
FEB					
05...	1845	10	50	.43	76
05...	2315	12	50	.31	16
06...	0345	12	50	.28	12
06...	1030	9.8	50	.22	6
06...	1715	17	50	.32	24
06...	2330	26	50	.42	88
07...	0315	41	50	.39	52
07...	0950	30	10	.28	16
07...	1000	30	50	.29	19
07...	2115	17	50	.25	8
08...	0855	7.6	10	.13	3
13...	1430	7.0	50	.40	132
13...	1700	20	50	.45	128
13...	2100	38	50	.47	124
13...	2245	67	50	.57	224
14...	0145	79	50	.59	197
14...	0600	47	50	.42	89
14...	1715	30	50	.27	34
15...	0430	14	50	.16	11
16...	0045	7.4	50	.11	9
MAR					
07...	0845	4.0	10	.12	8
19...	0600	8.4	50	.49	216
19...	0815	8.2	50	.22	52
APR					
04...	0940	1.7	10	E.03	18
07...	0030	7.4	50	.49	241
07...	0245	7.9	50	.16	53
07...	0750	3.7	10	.07	10
MAY					
02...	0840	.97	10	E.03	62
11...	0730	16	50	1.37	861
11...	0830	23	50	.59	290
11...	1015	12	50	.20	54
12...	0900	1.6	10	.05	27
13...	0900	3.2	10	.14	29
JUN					
05...	0045	8.4	50	.65	216
05...	0300	7.0	50	.21	35
05...	0545	13	50	.28	91
06...	0800	.89	10	.12	12
13...	1530	12	50	.52	185
13...	1600	20	50	.74	355
13...	1815	12	50	.24	47
13...	2030	7.9	50	.19	24
26...	0400	5.7	50	.26	29
26...	0825	1.7	10	.07	9
30...	1130	2.2	50	.28	12
JUL					
05...	0830	.74	10	.09	25
06...	0100	12	50	.53	252
06...	0315	15	50	.29	97
06...	0530	5.2	50	.18	35
06...	0745	2.9	50	.16	26
12...	1715	3.8	50	.14	18
13...	0730	7.7	50	.15	24
13...	0945	7.4	50	.17	18
13...	1200	3.8	50	.14	15
20...	1230	26	50	1.13	648
20...	1245	41	50	.59	344
20...	1345	53	50	.47	191
20...	1500	35	50	.27	50
20...	1830	10	50	.17	28
20...	2300	6.2	50	.18	24
21...	0900	2.5	10	.16	13
21...	1100	24	50	.59	349
21...	1115	34	50	.50	249
22...	1045	4.0	10	.16	8

054310157 JACKSON CREEK TRIBUTARY NEAR ELKHORN, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
AUG					
01...	0950	.42	10	.12	9
04...	0800	12	50	.20	42
04...	1200	8.4	50	.13	16
12...	0130	26	50	1.02	603
12...	0145	42	50	.71	385
12...	0215	57	50	.38	150
12...	0245	69	50	.42	168
12...	0430	48	50	.22	34
12...	0800	19	50	.20	23
12...	1700	9.0	50	.22	37
18...	1145	6.3	50	.30	62
18...	1245	11	50	.27	60
18...	1500	6.8	50	.21	37
18...	1930	2.8	50	.23	60
19...	0215	1.8	50	.16	19
20...	0530	4.7	50	.19	23
20...	0700	9.0	50	.21	28
20...	0915	10	50	.22	29
20...	1345	4.1	50	.26	63
20...	2030	2.1	50	.20	34
21...	0945	.97	10	.19	14
SEP					
06...	1005	.19	10	.10	71
22...	0830	3.7	50	.27	67
22...	1300	1.8	50	.13	15
22...	1415	10	50	1.27	793
22...	1430	16	50	.99	629
22...	1645	12	50	.28	80
22...	2115	6.3	50	.29	73
23...	0400	3.1	50	.17	33
23...	1045	.89	50	.16	26
24...	1715	.60	50	.20	11
25...	1330	6.7	50	.84	513
25...	1615	33	50	.77	487
25...	1630	58	50	1.09	794
25...	1645	79	50	.77	512
25...	1715	96	50	.60	361
25...	1930	85	50	.29	57
25...	2145	42	50	.28	57
25...	2300	84	50	.49	286
25...	2315	104	50	.42	299
26...	0130	95	50	.29	48
26...	0400	48	50	.30	34
26...	0830	21	50	.24	30
26...	1730	7.9	50	.21	37
27...	0445	2.8	50	.14	18
27...	1600	1.6	50	.10	7
28...	0815	.74	10	.09	32
28...	1700	2.8	50	.50	266
28...	1800	7.0	50	.32	123
28...	2015	6.7	50	.22	47
29...	0045	4.0	50	.17	31
29...	0800	2.4	10	.11	24
30...	0920	.67	10	.06	28

05431016 JACKSON CREEK AT MOUND ROAD NEAR ELKHORN, WI

LOCATION.--Lat 42°38'27", long 88°33'39", in SE ¼ SE ¼ sec.11, T.2 N., R.16 E., Walworth County, Hydrologic Unit 07090001, on left bank at bridge on Mound Road, 2.3 mi south of Elkhorn.

DRAINAGE AREA.--16.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 920.00 ft above NGVD of 1929 (Wisconsin Department of Transportation benchmark).

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.84	3.1	2.9	3.2	e2.0	e5.4	10	5.2	1.9	2.8	0.38	e0.16
2	1.8	6.5	2.8	32	e2.0	e5.2	10	5.0	1.7	1.7	0.32	0.16
3	1.4	4.2	2.5	13	e1.9	e5.0	9.5	4.8	1.4	1.1	0.23	0.16
4	1.1	3.4	2.4	6.9	e2.2	e4.8	8.6	4.8	1.5	0.95	0.22	0.14
5	0.95	3.0	2.4	e5.0	10	5.1	8.0	4.3	2.4	0.88	0.36	0.14
6	0.90	2.7	3.8	e4.2	58	9.5	7.7	4.2	3.4	1.1	0.31	0.11
7	0.84	2.4	10	e3.8	111	19	11	4.3	3.2	1.4	0.22	0.08
8	0.86	2.0	12	e3.4	56	13	12	4.2	2.6	1.4	0.16	0.07
9	1.2	1.9	6.6	e3.2	24	9.0	9.1	3.9	2.2	1.2	0.13	0.06
10	1.0	1.8	5.3	e3.0	16	7.5	8.4	3.9	2.1	0.91	0.16	0.06
11	0.96	1.9	5.1	e2.8	13	7.0	7.6	6.1	1.9	0.70	0.17	0.06
12	0.96	1.8	4.4	11	12	6.2	7.7	7.9	1.6	0.63	0.57	0.05
13	0.96	1.8	e4.0	116	21	5.4	10	6.1	1.8	0.92	1.6	e0.02
14	1.1	1.7	e3.2	43	164	4.9	8.2	6.2	3.9	1.3	1.1	e0.09
15	1.1	1.7	e3.0	20	79	4.6	7.1	5.5	3.7	0.72	0.57	0.09
16	1.1	2.0	e3.2	11	e30	4.5	6.5	5.0	2.6	0.57	0.43	0.10
17	1.1	2.1	e2.9	7.9	e18	5.0	6.6	4.6	2.2	0.50	0.34	0.15
18	1.1	2.2	e2.6	e6.0	e14	5.8	6.4	4.2	2.1	0.36	0.33	0.17
19	1.1	2.6	e2.2	e5.0	e12	16	6.1	5.5	1.7	0.29	0.54	0.19
20	1.2	3.7	e2.0	e4.2	e11	18	7.3	8.2	1.4	e1.1	0.71	0.23
21	1.2	3.1	e1.8	e4.0	e10	11	8.2	6.4	1.4	e5.8	0.98	0.25
22	1.2	2.4	e1.6	e3.6	e8.8	9.6	7.3	5.5	1.2	5.8	0.90	e0.52
23	4.4	2.2	e1.4	e3.4	e8.0	8.7	7.9	4.9	1.2	2.7	0.61	e1.2
24	4.6	2.2	e1.3	e4.2	e7.4	8.2	6.8	4.0	1.2	4.4	0.69	0.74
25	2.7	2.0	e1.2	e3.6	e6.8	8.3	6.2	3.2	1.1	2.0	0.63	1.0
26	2.1	2.0	e1.2	e3.0	e6.4	8.7	6.2	3.0	1.1	1.4	0.64	25
27	2.2	2.6	e1.2	e2.6	e6.0	9.3	6.0	2.6	1.2	1.2	0.66	8.1
28	1.9	5.4	e1.5	e2.4	e5.8	10	5.8	3.0	1.2	0.86	0.75	4.2
29	1.8	3.6	1.8	e2.3	---	10	5.6	2.5	1.1	0.67	e0.58	5.6
30	3.8	2.9	2.2	e2.2	---	11	5.5	2.5	3.2	0.60	e0.28	3.8
31	3.1	---	3.9	e2.1	---	12	---	2.0	---	0.46	e0.19	---
TOTAL	50.57	80.9	102.4	338.0	716.3	267.7	233.3	143.5	59.2	46.42	15.76	52.70
MEAN	1.63	2.70	3.30	10.9	25.6	8.64	7.78	4.63	1.97	1.50	0.51	1.76
MAX	4.6	6.5	12	116	164	19	12	8.2	3.9	5.8	1.6	25
MIN	0.84	1.7	1.2	2.1	1.9	4.5	5.5	2.0	1.1	0.29	0.13	0.02
CFSM	0.10	0.16	0.20	0.65	1.52	0.51	0.46	0.28	0.12	0.09	0.03	0.10
IN.	0.11	0.18	0.23	0.75	1.59	0.59	0.52	0.32	0.13	0.10	0.03	0.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2005, BY WATER YEAR (WY)

MEAN	5.57	7.52	5.30	7.07	17.2	15.4	20.7	16.3	24.6	6.32	4.15	4.61
MAX	22.4	22.4	10.5	21.6	53.5	48.2	77.4	44.1	66.2	22.6	23.8	14.7
(WY)	(2002)	(1996)	(1996)	(1999)	(2001)	(1993)	(1993)	(2004)	(1996)	(1993)	(1995)	(2001)
MIN	1.10	1.41	2.05	1.13	0.88	2.75	3.23	4.18	1.97	1.23	0.51	0.82
(WY)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(1994)	(2005)	(2002)	(2005)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1993 - 2005	
ANNUAL TOTAL	3,780.03		2,106.75			
ANNUAL MEAN	10.3		5.77		10.4	
HIGHEST ANNUAL MEAN					15.8	1996
LOWEST ANNUAL MEAN					3.77	2003
HIGHEST DAILY MEAN	267	May 22	164	Feb 14	578	Apr 20, 1993
LOWEST DAILY MEAN	0.65	Sep 24	(e)0.02	Sep 13	(e)0.02	Sep 13, 2005
ANNUAL SEVEN-DAY MINIMUM	0.68	Sep 24	0.06	Sep 7	0.06	Sep 7, 2005
MAXIMUM PEAK FLOW			204	Feb 14	1,190	Apr 20, 1993
MAXIMUM PEAK STAGE			9.73	Feb 14	11.60	Apr 20, 1993
ANNUAL RUNOFF (CFSM)	0.615		0.344		0.620	
ANNUAL RUNOFF (INCHES)	8.37		4.66		8.42	
10 PERCENT EXCEEDS	26		10		21	
50 PERCENT EXCEEDS	3.4		2.7		4.3	
90 PERCENT EXCEEDS	0.90		0.36		0.88	

05431016 JACKSON CREEK AT MOUND ROAD NEAR ELKHORN, WI—Continued

(e) Estimated

05431016 JACKSON CREEK AT MOUND ROAD NEAR ELKHORN, WI—Continued

PRECIPITATION QUANTITY

PERIOD OF RECORD.--June 1999 to current year (non-frozen precipitation).

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Rain gage covered Dec. 12, 2004 to Mar. 14, 2005.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 2.72 in., Sept. 25, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 2.72 in., Sept. 25.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.43	0.61	0.06	---	---	---	0.13	0.02	0.00	0.00	0.00	0.00
2	0.00	0.03	0.01	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	---	---	---	0.00	0.00	0.00	0.10	0.02	0.00
4	0.00	0.16	0.00	---	---	---	0.00	0.00	0.51	0.09	0.21	0.00
5	0.00	0.00	0.08	---	---	---	0.00	0.00	0.20	0.57	0.00	0.00
6	0.00	0.00	0.09	---	---	---	0.35	0.01	0.00	0.58	0.00	0.00
7	0.00	0.00	0.65	---	---	---	0.16	0.00	0.00	0.00	0.00	0.00
8	0.18	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	e0.00	---	---	---	0.00	0.05	0.00	0.00	0.00	0.00
10	0.00	0.01	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.01	---	---	---	---	0.00	0.59	0.08	0.00	0.12	0.00
12	0.00	0.00	---	---	---	---	0.39	0.00	0.00	0.24	1.22	0.00
13	0.00	0.00	---	---	---	---	0.00	0.15	0.56	0.13	0.00	0.11
14	0.00	0.00	---	---	---	---	0.00	0.00	0.01	0.00	0.00	0.00
15	0.06	0.14	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.23
16	0.02	0.03	---	---	---	0.01	0.01	0.00	0.00	0.00	0.00	0.03
17	0.00	0.00	---	---	---	0.06	0.00	0.00	0.00	0.00	0.00	0.00
18	0.05	0.11	---	---	---	0.05	0.00	0.19	0.00	0.00	0.46	0.00
19	0.00	0.29	---	---	---	0.11	0.00	0.55	0.00	0.00	0.00	0.23
20	0.00	0.00	---	---	---	0.00	0.41	0.00	0.00	0.65	0.52	0.00
21	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.49	0.00	0.00
22	0.10	0.00	---	---	---	0.00	0.24	0.05	0.00	0.00	0.00	0.56
23	0.77	0.00	---	---	---	0.00	0.00	0.00	0.00	0.57	0.00	0.00
24	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.11
25	0.00	0.00	---	---	---	0.01	0.02	0.00	0.08	0.01	0.00	2.72
26	0.13	0.03	---	---	---	0.00	0.00	0.00	0.29	0.10	0.25	0.04
27	0.00	0.49	---	---	---	0.00	0.01	0.10	0.00	0.00	0.00	0.00
28	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.50
29	0.02	0.00	---	---	---	0.00	0.00	0.04	0.00	0.00	0.00	0.00
30	0.39	0.00	---	---	---	0.00	0.00	0.00	0.60	0.00	0.00	0.00
31	0.00	---	---	---	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	2.15	1.91	---	---	---	---	1.72	1.75	2.33	3.53	2.80	4.53

(e) Estimated

05431016 JACKSON CREEK AT MOUND ROAD NEAR ELKHORN, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to September 1985, February 1993 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1999 to current year.
SUSPENDED-SEDIMENT DISCHARGE: February 1993 to current year.
DISSOLVED AMMONIA NITROGEN DISCHARGE: February 1993 to September 1995.
TOTAL AMMONIA PLUS ORGANIC NITROGEN DISCHARGE: February 1993 to September 1995.
DISSOLVED NITRITE PLUS NITRATE DISCHARGE: February 1993 to September 1995.
TOTAL PHOSPHORUS DISCHARGE: February 1993 to current year.
DISSOLVED ORTHO-PHOSPHORUS DISCHARGE: February 1993 to current year.

INSTRUMENTATION.--Automatic pumping sampler since February 1993. Continuous water temperature recorder since October 1999.

REMARKS.--Records good. Records represent water temperature at sensor within 0.5°C.

COOPERATION.--Observer furnished by Delavan Lake Sanitary District.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--
TOTAL AMMONIA PLUS ORGANIC NITROGEN CONCENTRATIONS: Maximum observed, 2.1 mg/L, July 10, 1985; minimum observed, 0.30 mg/L, Jan. 24, 1985.
TOTAL PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.55 mg/L, July 10, 1985; minimum observed, 0.03 mg/L, Apr. 2, 1985.
DISSOLVED ORTHO-PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.20 mg/L, Nov. 20, 1984 and May 22, 1985; minimum observed, <0.01 mg/L, July 10, 23, 1985.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 35.0°C, July 24, 2001 and July 4, 2002; minimum, 0.0°C on many days.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 1,420 mg/L, June 17, 1996; minimum observed, 2 mg/L, Sept. 16, 1993, July 25, 1995, July 18, 1996, and June 4, 2000.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 1,030 tons, June 17, 1996; minimum daily, 0.00 ton, on many days in 2005 water year.
DISSOLVED AMMONIA NITROGEN CONCENTRATIONS: Maximum observed, 1.70 mg/L, Mar. 5, 1993; minimum observed, 0.01 mg/L, Aug. 1, 29, and Sept. 25, 1994.
DISSOLVED AMMONIA NITROGEN DISCHARGE: Maximum daily, 1,410 lb, Feb. 20, 1994; minimum daily, 0.07 lb, July 31, 1995.
TOTAL AMMONIA PLUS ORGANIC NITROGEN CONCENTRATIONS: Maximum observed, 4.6 mg/L, Mar. 5, 1993; minimum observed,0.40 mg/L, Oct. 6 and Dec. 15, 1993, and Jan. 14, Mar. 28-29, 1995.
TOTAL AMMONIA PLUS ORGANIC NITROGEN DISCHARGE: Maximum daily, 4,900 lb, Apr. 20, 1993; minimum daily, 1.5 lb, June 19, 1994.
DISSOLVED NITRITE PLUS NITRATE CONCENTRATIONS: Maximum observed, 13.0 mg/L, Apr. 30, 1995; minimum observed, <0.05 mg/L, Sept. 2, 1993, and many days in 1994 and 1995 water years.
DISSOLVED NITRITE PLUS NITRATE DISCHARGE: Maximum daily, 5,310 lb, Apr. 20, 1993; minimum daily, 0.16 lb, July 19, 1995.
TOTAL PHOSPHORUS CONCENTRATIONS: Maximum observed, 1.6 mg/L, June 17, 1996; minimum observed, <0.01 mg/L, Mar. 19, 1997.
TOTAL PHOSPHORUS DISCHARGE: Maximum daily, 2,630 lb, Apr. 20, 1993; minimum daily, 0.03 lb, Sept. 13, 2005.
DISSOLVED ORTHO-PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.63 mg/L, Feb. 19, 1997; minimum observed, 0.009 mg/L, June 2, 2001.
DISSOLVED ORTHO-PHOSPHORUS DISCHARGE: Maximum daily, 700 lb, Feb. 9, 2001; minimum daily, 0.03 lb, Sept. 15-19, 23, 26, 1999 and Sept. 15-18, 2002.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 34.0°C, June 26; minimum, 0.0°C on many days.
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 142 mg/L, Aug. 13; minimum observed, 8 mg/L, June 6.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 32 tons, Feb. 14; minimum daily, 0.00 ton, many days.
TOTAL PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.78 mg/L, Feb. 6; minimum observed, 0.05 mg/L, Apr. 4, 5.
TOTAL PHOSPHORUS DISCHARGE: Maximum daily, 480 lb, Feb. 14; minimum daily, 0.03 lb, Sept. 13.
DISSOLVED ORTHO-PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.54 mg/L, Feb. 6; minimum observed, 0.01 mg/L, Nov. 1.
DISSOLVED ORTHO-PHOSPHORUS DISCHARGE: Maximum daily, 235 lb, Feb. 14; minimum daily, 0.01 lb, Sept. 13.

05431016 JACKSON CREEK AT MOUND ROAD NEAR ELKHORN, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	13.5	15.0	9.0	7.5	8.0	3.5	1.0	2.0	0.5	e0.0	0.0
2	15.5	8.0	12.5	9.0	7.5	8.5	3.5	1.5	2.5	0.5	0.0	0.5
3	14.5	7.5	11.0	11.0	7.5	9.0	2.5	1.0	2.0	0.5	0.5	0.5
4	13.5	8.5	11.5	9.5	5.5	8.0	2.0	0.5	1.5	0.5	0.5	0.5
5	12.5	7.0	10.0	9.5	2.5	6.0	2.5	1.0	1.5	0.5	0.5	0.5
6	16.0	8.5	12.0	11.5	4.0	7.5	5.0	2.0	3.5	0.5	0.5	0.5
7	16.5	12.0	14.5	10.0	6.0	8.0	7.5	4.5	5.5	0.5	0.5	0.5
8	18.0	15.0	16.5	6.0	2.5	4.5	5.5	4.0	4.5	0.5	0.5	0.5
9	18.0	12.5	15.0	8.5	4.5	6.5	6.5	4.0	5.0	0.5	0.5	0.5
10	17.0	10.5	14.0	9.5	4.5	7.0	6.5	4.5	6.0	0.5	0.5	0.5
11	14.5	10.5	12.5	8.5	4.0	6.5	4.5	2.0	2.5	0.5	0.5	0.5
12	14.5	10.0	12.5	5.0	1.5	3.5	3.0	0.0	2.0	0.5	0.5	0.5
13	14.5	11.0	13.0	6.0	3.0	4.5	1.5	0.0	0.5	0.5	0.5	0.5
14	13.5	11.0	12.0	6.5	2.5	4.5	2.5	0.5	1.0	0.5	0.5	0.5
15	11.0	9.0	9.5	5.5	3.0	4.5	2.0	0.5	1.0	0.5	0.0	0.5
16	9.0	4.0	6.5	9.5	5.5	7.5	2.0	0.5	1.0	0.0	e0.0	e0.0
17	9.5	1.5	5.0	12.5	9.5	11.0	2.0	0.5	1.0	e0.0	e0.0	e0.0
18	9.0	7.5	8.0	14.0	12.0	13.0	1.0	0.5	0.5	e0.0	e0.0	e0.0
19	9.0	7.0	8.0	12.0	10.0	10.5	1.5	0.0	0.5	0.0	e0.0	e0.0
20	10.0	8.5	9.5	11.0	7.5	9.5	0.5	0.0	0.5	0.0	0.0	0.0
21	13.5	9.0	11.0	7.5	4.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0
22	12.0	8.5	10.5	7.0	4.5	6.0	0.0	e0.0	e0.0	0.5	0.0	0.0
23	18.5	12.0	14.0	8.0	5.0	6.5	e0.0	e0.0	e0.0	0.5	0.0	0.5
24	17.5	11.0	14.0	5.0	e0.0	1.8	e0.0	e0.0	e0.0	0.5	0.0	0.5
25	16.5	9.0	13.0	4.5	0.0	1.5	e0.0	e0.0	e0.0	0.5	0.5	0.5
26	14.5	10.5	11.5	3.5	1.0	2.0	e0.0	e0.0	e0.0	0.5	0.5	0.5
27	12.5	10.5	11.0	6.0	2.0	4.5	e0.0	e0.0	e0.0	0.5	0.0	0.5
28	14.5	10.0	12.0	6.0	2.0	4.0	0.0	e0.0	e0.0	0.0	0.0	0.0
29	19.0	14.0	16.5	4.5	2.5	3.5	0.0	e0.0	e0.0	0.5	0.0	0.0
30	18.5	9.5	13.0	3.5	1.0	3.0	0.5	e0.0	0.0	0.5	0.5	0.5
31	10.0	8.0	9.0	---	---	---	0.5	0.0	0.5	0.5	0.5	0.5
MONTH	19.0	1.5	11.7	14.0	0.0	6.2	7.5	0.0	1.5	0.5	0.0	0.3
		FEBRUARY			MARCH			APRIL			MAY	
1	0.5	0.5	0.5	2.5	0.0	1.0	10.0	5.0	7.5	9.5	5.0	7.5
2	0.5	0.5	0.5	2.5	0.0	1.0	15.0	4.0	9.0	7.0	2.5	5.0
3	0.5	0.5	0.5	3.0	0.5	1.5	18.0	5.0	11.0	13.0	3.0	7.5
4	0.5	0.5	0.5	3.0	0.5	1.0	17.5	6.5	12.0	20.0	4.0	12.5
5	0.5	0.5	0.5	4.0	0.5	2.0	21.0	9.0	14.5	22.0	10.0	16.0
6	0.5	0.5	0.5	9.5	1.0	4.0	22.0	14.0	17.5	20.5	10.5	15.5
7	0.5	0.5	0.5	4.5	0.0	2.5	17.5	11.5	14.5	18.0	12.5	15.5
8	0.5	0.5	0.5	4.0	0.0	1.5	19.0	9.0	13.5	24.5	10.5	17.5
9	0.5	0.5	0.5	5.0	1.0	2.5	18.5	8.0	13.0	22.5	16.5	19.5
10	0.5	0.5	0.5	1.5	0.5	1.0	21.5	8.5	15.0	25.0	15.5	20.0
11	0.5	0.5	0.5	2.5	0.0	1.0	18.0	10.5	14.5	20.5	9.5	14.0
12	0.5	0.0	0.5	2.5	0.0	1.0	12.0	6.5	8.0	12.5	6.0	9.5
13	0.5	0.0	0.5	3.5	0.0	1.0	15.5	3.5	9.0	14.5	8.0	10.5
14	0.5	0.0	0.5	3.5	0.0	1.5	20.0	5.5	12.0	19.0	11.0	14.5
15	0.0	0.0	0.0	5.0	0.5	2.0	22.0	7.5	14.5	15.0	8.0	11.5
16	0.5	0.0	0.0	6.0	0.0	2.5	21.0	9.5	15.0	23.0	10.0	15.5
17	0.0	e0.0	0.0	3.5	0.5	2.0	23.5	13.5	17.5	21.0	10.0	16.0
18	0.0	e0.0	e0.0	5.5	0.5	2.5	25.0	13.0	18.5	20.0	12.5	16.0
19	0.0	e0.0	e0.0	3.0	1.0	2.0	23.5	15.0	19.0	20.5	14.0	16.5
20	0.0	e0.1	0.0	5.5	0.0	2.5	18.5	11.5	16.0	23.5	12.5	17.5
21	0.5	0.0	0.5	9.0	1.0	4.5	19.0	8.5	13.0	22.0	13.0	18.0
22	2.5	0.0	1.0	6.5	1.0	3.5	14.0	8.5	11.0	23.5	15.0	19.0
23	3.0	0.5	1.5	6.0	1.0	3.0	8.5	4.0	6.0	20.0	14.0	16.5
24	5.5	0.5	2.0	9.5	1.0	5.0	14.5	1.0	7.0	22.0	11.5	16.5
25	3.0	0.5	2.0	5.5	3.0	4.5	16.0	4.0	9.5	25.0	13.0	18.5
26	5.0	0.5	2.0	13.0	1.5	6.5	15.0	6.0	10.5	22.0	14.5	18.0
27	4.0	0.0	2.0	15.5	3.0	8.5	11.5	7.0	9.5	20.0	13.5	16.5
28	2.0	0.0	1.0	16.5	4.0	9.5	19.5	4.5	12.0	19.0	12.0	15.5
29	---	---	---	14.5	6.5	10.0	20.0	8.5	13.5	15.5	12.5	14.0
30	---	---	---	16.5	8.5	12.0	14.5	8.5	11.5	23.5	11.5	17.5
31	---	---	---	11.0	7.0	9.0	---	---	---	24.0	14.5	19.5
MONTH	5.5	0.0	0.7	16.5	0.0	3.6	25.0	1.0	12.5	25.0	2.5	15.1

05431016 JACKSON CREEK AT MOUND ROAD NEAR ELKHORN, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.5	15.0	19.5	24.5	19.5	21.0	32.0	24.0	27.5	26.5	22.0	24.0
2	24.0	15.5	19.5	28.5	17.0	22.5	31.0	25.5	28.0	25.0	19.5	22.0
3	20.5	17.5	19.0	26.0	21.0	23.5	28.5	25.5	27.0	26.0	19.5	22.5
4	26.0	17.0	21.0	23.5	21.5	22.5	30.5	24.5	27.0	26.0	21.0	23.5
5	25.0	18.0	22.0	30.0	20.0	24.5	29.0	22.5	25.5	27.0	21.0	24.0
6	27.0	16.5	22.0	27.5	19.5	23.5	30.5	21.5	26.0	27.5	22.0	24.5
7	30.0	19.0	24.5	29.0	19.0	24.0	30.5	22.5	26.5	28.0	22.5	25.0
8	28.5	21.5	25.0	30.5	21.0	26.0	31.5	23.5	27.0	25.0	23.0	24.0
9	30.0	21.0	25.0	32.5	23.0	27.0	32.0	25.0	28.5	27.5	21.5	24.0
10	31.0	22.5	26.5	33.0	24.0	28.0	31.0	26.0	28.5	28.0	23.0	25.5
11	28.5	23.5	26.0	30.0	24.0	27.5	28.0	24.0	25.0	29.0	23.0	25.5
12	28.5	21.5	25.0	27.0	21.5	23.5	26.5	21.0	24.0	29.0	24.0	26.0
13	30.5	23.5	26.5	28.5	20.0	24.0	23.0	19.5	21.5	27.5	23.0	25.0
14	25.0	20.0	22.5	31.5	22.0	26.5	25.5	18.5	22.0	26.5	22.0	24.0
15	21.0	16.0	17.5	31.0	23.5	27.5	29.0	20.0	24.0	23.0	18.0	20.0
16	25.0	13.5	19.0	33.0	24.5	29.0	28.5	22.0	25.0	24.0	17.0	20.0
17	21.0	16.5	18.5	33.0	25.5	29.0	29.0	21.5	25.0	24.5	18.0	21.0
18	26.5	15.5	20.0	28.5	25.0	27.0	27.5	23.0	25.0	25.0	20.0	22.0
19	30.5	17.5	23.5	30.5	22.0	26.5	30.0	21.0	25.5	24.5	21.0	22.5
20	30.5	20.5	25.5	29.5	24.0	26.0	30.0	23.5	26.5	25.5	19.5	22.5
21	30.5	22.5	26.5	25.0	21.5	23.0	27.0	19.5	23.0	26.5	20.5	23.0
22	29.5	21.5	25.0	33.5	19.5	26.0	23.5	19.0	21.5	25.5	20.5	22.5
23	31.0	22.0	26.0	26.5	21.5	23.5	22.5	18.0	20.0	22.0	16.0	19.0
24	32.0	24.5	28.0	32.5	21.5	27.0	23.5	16.5	20.0	20.5	17.0	19.0
25	33.0	25.0	28.0	30.0	25.5	27.5	21.5	19.0	20.0	22.5	19.0	20.5
26	34.0	24.0	28.5	26.5	21.0	23.5	25.0	19.0	22.0	21.5	18.0	20.5
27	32.0	25.0	28.5	26.5	18.0	21.5	30.0	21.5	25.0	25.0	15.5	19.5
28	32.0	25.0	28.0	26.5	19.5	23.0	27.5	19.0	23.5	19.0	13.0	16.5
29	33.5	26.5	29.5	27.5	20.5	24.0	28.5	21.0	24.5	18.5	9.5	13.5
30	31.0	24.5	27.5	29.5	21.0	25.0	26.5	21.5	24.0	18.5	8.5	13.5
31	---	---	---	30.5	24.0	27.0	27.0	21.0	23.5	---	---	---
MONTH	34.0	13.5	24.1	33.5	17.0	25.2	32.0	16.5	24.6	29.0	8.5	21.8
YEAR	34.0	0.0	12.3									

e Estimated

05431016 JACKSON CREEK AT MOUND ROAD NEAR ELKHORN, WI—Continued

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.11	0.23	0.18	0.16	e0.03	e0.17	1.0	0.82	0.22	0.38	0.03	e0.01
2	0.24	0.67	0.17	4.7	e0.03	e0.17	1.2	0.78	0.20	0.22	0.02	0.00
3	0.19	0.43	0.15	0.78	e0.03	e0.16	1.2	0.66	0.18	0.15	0.01	0.00
4	0.14	0.34	0.15	0.33	e0.04	e0.14	1.2	0.58	0.19	0.13	0.01	0.00
5	0.12	0.29	0.15	e0.23	0.19	0.15	1.1	0.46	0.21	0.11	0.02	0.00
6	0.12	0.25	0.33	e0.18	2.2	0.45	1.1	0.39	0.09	0.12	0.01	0.00
7	0.11	0.22	1.0	e0.15	8.6	1.5	e1.9	0.35	0.09	0.14	0.00	0.00
8	0.11	0.18	0.83	e0.13	3.3	0.82	e2.1	0.30	0.10	0.12	0.00	0.00
9	0.15	0.17	0.55	e0.12	1.3	0.42	e1.6	0.25	0.11	0.09	0.00	0.00
10	0.13	0.15	0.41	e0.11	0.84	0.32	e1.4	0.21	0.13	0.06	0.00	0.00
11	0.12	0.16	0.37	e0.09	0.62	0.29	1.1	0.50	0.15	0.04	0.00	0.00
12	0.12	0.15	0.30	e0.81	0.56	0.24	e1.3	0.62	0.16	0.03	0.03	0.00
13	0.12	0.15	e0.26	e8.6	1.4	0.21	e1.7	0.60	0.23	0.05	0.13	e0.00
14	0.13	0.14	e0.19	e3.2	32	0.18	e1.4	0.60	0.52	0.06	0.08	e0.00
15	0.14	0.14	e0.17	e1.5	8.4	0.16	1.0	0.50	0.50	0.03	0.03	0.00
16	0.13	0.16	e0.17	e0.80	e2.8	0.15	0.95	0.44	0.37	0.02	0.03	0.00
17	0.13	0.16	e0.16	e0.60	e1.6	0.16	0.98	0.38	0.32	0.02	0.02	0.00
18	0.13	0.17	e0.13	e0.16	e0.60	0.18	0.95	0.33	0.31	0.01	0.02	0.00
19	0.13	0.19	e0.11	e0.12	e0.49	0.84	0.91	e0.90	0.26	0.00	0.05	0.00
20	0.14	0.28	e0.09	e0.10	e0.42	1.6	1.1	e1.4	0.22	e0.04	0.06	0.00
21	0.15	0.23	e0.08	e0.10	e0.38	0.71	1.2	e1.1	0.21	e0.55	0.08	0.00
22	0.15	0.18	e0.07	e0.09	e0.33	0.53	1.1	e0.90	0.19	0.90	0.07	e0.06
23	0.66	0.16	e0.06	e0.07	e0.30	0.45	1.2	0.42	0.18	e0.30	0.04	e0.14
24	0.34	0.15	e0.05	e0.09	e0.26	0.39	1.0	0.36	0.17	e0.50	0.05	0.02
25	0.17	0.14	e0.05	e0.08	e0.24	0.39	0.96	0.30	0.15	0.12	0.04	0.08
26	0.13	0.14	e0.04	e0.06	e0.22	0.45	0.96	0.28	0.15	0.08	0.04	2.8
27	0.13	e0.19	e0.04	e0.05	e0.21	0.54	0.94	0.26	0.16	0.07	0.03	1.4
28	0.12	e0.40	e0.05	e0.05	e0.19	0.65	0.91	0.30	0.16	0.05	0.04	0.68
29	0.11	e0.27	0.06	e0.04	---	0.74	0.88	0.26	0.15	0.04	e0.03	0.85
30	0.38	e0.21	0.07	e0.04	---	e1.9	0.86	0.27	0.42	0.04	e0.01	0.44
31	0.28	---	0.20	e0.03	---	e2.0	---	0.23	---	0.03	e0.01	---
TOTAL	5.33	6.70	6.64	23.57	67.58	17.06	35.20	15.75	6.50	4.50	0.99	6.48

WTR YR 2005 TOTAL 196.30

e Estimated

05431016 JACKSON CREEK AT MOUND ROAD NEAR ELKHORN, WI—Continued

PHOSPHORUS, WATER, UNFILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.22	2.45	0.83	0.86	e0.60	e3.20	3.18	1.40	0.54	e5.40	0.61	e0.33
2	0.46	6.67	0.78	57.8	e0.58	e3.00	3.08	1.36	0.47	e3.30	0.52	0.35
3	0.37	3.20	0.69	22.1	e0.53	e2.80	2.67	1.30	0.38	1.77	0.37	0.35
4	0.28	1.84	0.65	7.70	e0.59	e2.60	2.34	1.28	0.40	1.40	0.35	0.32
5	0.25	1.53	0.65	e4.80	5.40	2.72	2.15	1.16	2.17	1.24	0.59	0.31
6	0.23	1.33	1.70	e3.70	190	7.01	2.08	1.11	2.16	1.57	0.51	0.25
7	0.22	1.18	9.94	e3.10	354	20.9	e4.30	1.14	2.24	2.05	0.36	0.18
8	0.22	0.96	9.43	e2.50	121	14.1	e5.40	1.10	2.09	2.09	0.25	0.14
9	0.31	0.88	4.60	e2.20	27.7	8.88	e2.66	1.04	2.02	1.77	0.19	0.13
10	0.27	0.81	2.88	e1.90	13.4	6.93	2.26	1.02	2.16	1.41	0.23	0.12
11	0.25	0.85	2.57	e1.60	8.84	6.05	2.06	4.03	2.30	1.10	0.23	0.12
12	0.25	0.78	2.19	e19.0	7.24	5.00	e1.70	4.41	2.19	0.98	0.76	0.08
13	0.25	0.76	e1.90	208	16.9	4.09	e3.40	2.99	2.81	1.42	2.72	e0.03
14	0.28	0.73	e1.49	57.0	480	3.47	e2.00	2.94	e7.50	2.04	1.54	e0.15
15	0.29	0.70	e1.34	16.6	205	3.06	1.91	2.50	e7.10	1.10	0.71	0.14
16	0.28	0.79	e1.40	6.39	e52.0	2.78	1.74	2.24	e5.00	0.87	0.50	0.16
17	0.28	0.82	e1.22	4.00	e18.0	2.90	1.79	2.00	2.76	0.75	0.37	0.21
18	0.28	0.84	e1.07	e2.90	e11.5	3.18	1.73	1.79	2.46	0.54	0.39	0.24
19	0.29	0.96	e0.88	e2.30	e9.40	10.8	1.65	e1.90	1.92	0.43	0.83	0.25
20	0.31	1.36	e0.77	e1.90	e8.40	12.4	1.98	e5.20	1.56	e1.50	1.14	0.30
21	0.33	1.11	e0.67	e1.80	e7.40	6.07	2.21	e2.80	1.70	e8.20	1.61	0.31
22	0.33	0.85	e0.58	e1.50	e6.40	4.78	1.96	e1.90	1.74	8.08	1.51	e0.62
23	3.81	0.76	e0.49	e1.40	e5.60	4.16	2.14	1.79	1.96	e5.20	1.05	e2.30
24	4.58	0.73	e0.44	e1.70	e5.00	3.72	1.83	1.43	2.16	e8.50	1.20	e0.80
25	1.95	0.65	e0.40	e1.40	e4.50	3.59	1.68	1.12	2.19	2.93	1.12	1.33
26	1.17	0.64	e0.38	e1.10	e4.10	3.61	1.68	1.01	2.46	2.09	1.16	51.8
27	1.13	e1.95	e0.38	e0.92	e3.80	3.65	1.63	0.87	2.60	1.79	1.24	16.1
28	1.01	e5.28	e0.45	e0.83	e3.50	3.79	1.57	0.96	2.47	1.31	1.42	6.79
29	0.92	e3.04	0.54	e0.77	---	3.69	1.51	0.78	2.08	1.03	e1.13	5.67
30	2.74	0.87	0.61	e0.71	---	e4.31	1.47	0.75	e6.16	0.94	e0.56	2.53
31	2.26	---	1.07	e0.66	---	e5.37	---	0.60	---	0.74	e0.39	---
TOTAL	25.82	45.32	52.99	439.14	1,571.38	172.61	67.76	55.92	75.75	73.54	25.56	92.41

WTR YR 2005 TOTAL 2,698.20

e Estimated

05431016 JACKSON CREEK AT MOUND ROAD NEAR ELKHORN, WI—Continued

ORTHOPHOSPHATE, WATER, FILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.05	0.32	0.18	0.18	e0.24	e0.76	e1.76	0.56	0.20	e3.20	0.04	e0.17
2	0.10	2.69	0.17	35.6	e0.23	e0.70	e1.70	0.54	0.18	e1.10	0.04	0.15
3	0.08	1.24	0.15	14.4	e0.22	e0.62	e1.59	0.52	0.15	0.35	0.04	0.15
4	0.06	0.59	0.14	5.73	e0.25	e0.57	0.94	0.52	0.16	0.27	0.04	0.14
5	0.05	0.47	0.13	e3.19	2.61	0.57	0.86	0.47	0.26	0.24	0.09	0.14
6	0.05	0.40	0.44	e2.08	124	1.94	0.83	0.45	0.38	0.28	0.09	0.11
7	0.05	0.35	3.28	e1.48	213	7.27	1.24	0.46	0.43	0.35	0.08	0.08
8	0.05	0.28	2.18	e1.03	79.6	3.84	1.32	0.45	0.41	0.34	0.06	0.06
9	0.06	0.26	0.72	e0.76	20.7	2.25	0.99	0.43	0.42	0.27	0.05	0.06
10	0.06	0.23	0.58	e0.55	8.90	1.72	0.90	0.42	0.46	0.20	0.05	0.05
11	0.05	0.24	0.53	e0.41	4.14	1.47	0.83	0.66	0.51	0.15	0.05	0.05
12	0.05	0.22	0.45	2.35	2.31	1.19	0.83	0.86	0.51	0.12	0.20	0.03
13	0.05	0.21	e0.39	117	4.59	0.95	1.11	0.66	0.66	0.16	0.64	e0.01
14	0.06	0.20	e0.31	33.8	235	0.79	0.88	0.67	1.22	0.21	0.47	e0.05
15	0.06	0.19	e0.28	7.51	112	0.68	0.76	0.59	0.97	0.10	0.22	0.05
16	0.06	0.21	e0.29	2.10	e27.0	0.61	0.70	0.54	0.57	0.07	0.14	0.05
17	0.06	0.22	e0.25	1.26	e5.50	0.62	0.71	0.50	0.40	0.06	0.10	0.07
18	0.06	0.22	e0.22	e0.94	e3.60	0.67	0.69	0.46	0.31	0.04	0.11	0.08
19	0.06	e0.23	e0.18	e0.76	e3.00	4.44	0.66	0.59	0.21	0.03	0.26	0.08
20	0.06	e0.49	e0.16	e0.64	e2.60	23.5	0.79	0.88	0.16	e0.12	0.36	0.09
21	0.07	e0.33	e0.14	e0.58	e2.30	2.53	0.88	0.69	0.20	e0.64	0.52	0.09
22	0.07	0.21	e0.12	e0.52	e1.80	1.51	0.79	0.59	0.23	1.84	0.50	e0.54
23	0.65	0.19	e0.10	e0.48	e1.60	1.34	0.86	0.52	0.30	1.22	0.36	e1.25
24	1.48	0.18	e0.09	e0.59	e1.40	1.22	0.73	0.43	0.37	3.44	0.42	e0.77
25	0.66	0.15	e0.08	e0.49	e1.20	1.20	0.67	0.35	0.43	1.46	0.40	0.35
26	0.35	0.15	e0.08	e0.40	e1.10	1.23	0.67	0.32	0.53	0.78	0.42	28.8
27	0.26	e0.23	e0.08	e0.34	e0.94	e1.52	0.65	0.28	0.56	0.51	0.46	5.56
28	0.17	e1.12	e0.10	e0.31	e0.88	e1.76	0.63	0.32	0.53	0.28	0.54	1.33
29	0.11	e0.46	0.11	e0.29	---	e1.70	0.60	0.27	0.44	0.16	e0.44	0.65
30	0.71	0.19	0.13	e0.27	---	e2.13	0.59	0.27	e4.20	0.11	e0.22	0.40
31	0.40	---	0.22	e0.25	---	e2.53	---	0.22	---	0.07	e0.16	---
TOTAL	6.11	12.47	12.28	236.29	860.71	73.83	27.16	15.49	16.36	18.17	7.57	41.41

WTR YR 2005 TOTAL 1,327.85

e Estimated

05431016 JACKSON CREEK AT MOUND ROAD NEAR ELKHORN, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Discharge, cfs (00060)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT							
23...	0940	--	3.6	10	<.02	.14	77
24...	0940	--	4.8	10	.07	.19	24
NOV							
01...	1130	--	2.7	10	E.01	.13	24
02...	0930	--	7.0	10	.10	.21	40
DEC							
06...	0900	--	3.4	10	E.02	.08	36
07...	1230	--	9.9	50	.04	.13	25
07...	1530	--	16	50	.09	.29	69
07...	2130	--	18	50	.06	.17	20
08...	0330	--	16	50	.03	.14	15
08...	0905	--	13	10	.05	.14	27
08...	1830	--	9.9	50	.02	.16	29
JAN							
02...	0850	--	43	10	.24	.38	81
03...	0855	--	13	10	.21	.33	19
13...	0900	--	154	10	.25	.41	11
14...	0945	--	40	10	.15	.25	11
14...	1330	--	40	10	.14	.23	--
FEB							
06...	0930	--	56	10	.54	.78	12
07...	1010	--	125	10	.36	.62	33
08...	0915	--	59	10	.27	.41	21
14...	0845	--	204	10	.28	.58	93
14...	1500	--	178	10	.34	.65	76
15...	0910	--	79	10	.27	.50	38
15...	1430	--	69	10	.24	.42	31
16...	0930	30	40	10	.18	.35	37
16...	1430	30	--	10	.17	.31	35
17...	0855	18	--	10	.07	.17	31
17...	1430	18	--	10	.03	.19	45
18...	0845	14	--	10	.05	.15	15
MAR							
07...	0910	--	20	10	.08	.21	31
19...	2100	--	24	50	.06	.15	22
20...	0300	--	23	50	.44	.55	35
APR							
04...	0955	--	8.6	10	<.02	.05	51
MAY							
02...	0910	--	5.1	10	<.02	.05	59
11...	0915	--	4.2	10	<.02	.17	18
12...	0915	--	8.4	10	<.02	.10	24
13...	0915	--	5.8	10	<.02	.09	38
JUN							
05...	0715	--	2.0	10	<.02	.24	49
06...	0830	--	3.4	10	<.02	.11	8
13...	1145	--	1.6	10	.07	.29	48
20...	0845	--	1.4	10	<.02	.20	59
26...	0835	--	1.1	10	.09	.41	49
JUL							
05...	0850	--	.83	10	.05	.26	49
11...	1120	--	.72	10	.04	.29	21
18...	1000	--	.39	10	<.02	.28	13
21...	0915	E5.8	--	10	.02	.25	25
21...	2215	E5.8	--	50	.02	.28	49
22...	1100	--	5.8	10	.08	.26	61
25...	0900	--	2.2	10	.14	.27	21
AUG							
01...	1010	--	.39	10	E.02	.30	26
08...	1055	--	.17	10	.08	.30	11
13...	0145	--	1.2	50	.08	.26	27
13...	1045	--	1.6	50	.10	.30	29
13...	1945	--	1.8	50	.05	.43	142
14...	0445	--	1.4	50	.09	.26	27
14...	0915	--	1.1	10	.08	.25	22
19...	1110	--	.58	10	.09	.29	36

05431016 JACKSON CREEK AT MOUND ROAD NEAR ELKHORN, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
SEP						
06...	1025	.11	10	.20	.43	9
25...	2245	3.6	50	.07	.31	51
26...	0145	12	50	.17	.39	66
26...	0445	23	50	.17	.34	52
26...	0745	33	50	.20	.38	39
26...	1045	39	50	.27	.41	21
26...	1340	34	10	.22	.39	30
26...	1345	34	50	.26	.42	23
26...	1945	20	50	.18	.40	45
27...	0145	13	50	.17	.42	56
27...	0830	8.9	10	.12	.36	65
28...	0835	3.9	10	.07	.33	63
29...	0825	5.8	10	.02	.20	50

05431017 DELAVAN LAKE INLET AT STATE HIGHWAY 50 AT LAKE LAWN, WI

LOCATION.--Lat 42°37'16", long 88°34'57", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.22, T.2 N., R.16 E., Walworth County, Hydrologic Unit 07090001, on downstream headwall of State Highway 50 bridge, and 1.0 mi east of Lake Lawn.

DRAINAGE AREA.--21.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1984 and 1985 water years (unpublished) to current year. Published as "at U.S. Highway 50" prior to October 1988.

GAGE.--Nonrecording gage. Datum of gage is 922.94 ft above NGVD of 1929 (Wisconsin Department of Transportation bench mark). Previously published datum of 914.48 ft in 1989-91 annual data reports was in error.

REMARKS.--Daily mean discharges were estimated based on discharges upstream at Jackson Creek near Elkhorn (05431014) and Jackson Creek Tributary near Elkhorn (054310157) for Oct. 1, 1983 to Jan. 31, 1993. Also during this period, an acoustical velocity meter was used to measure discharges equal to or greater than 20 ft^3/s from Oct. 1, 1985 to May 7, 1987. Daily mean discharges were estimated based on discharges upstream at Jackson Creek at Mound Road near Elkhorn (05431016) from Feb. 1, 1993 to present. Records poor (see Introduction).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.1	e4.0	e3.8	e4.2	e2.6	e7.0	e13	e6.8	e2.5	e3.6	e0.49	e0.21
2	e2.3	e8.4	e3.6	e42	e2.6	e6.8	e13	e6.5	e2.2	e2.2	e0.42	e0.21
3	e1.8	e5.5	e3.2	e17	e2.5	e6.5	e12	e6.2	e1.8	e1.4	e0.30	e0.21
4	e1.4	e4.4	e3.1	e9.0	e2.9	e6.2	e11	e6.2	e1.9	e1.2	e0.29	e0.18
5	e1.2	e3.9	e3.1	e6.5	e13	e6.6	e10	e5.6	e3.1	e1.1	e0.47	e0.18
6	e1.2	e3.5	e4.9	e5.5	e75	e12	e10	e5.5	e4.4	e1.4	e0.40	e0.14
7	e1.1	e3.1	e13	e4.9	e144	e25	e14	e5.6	e4.2	e1.8	e0.29	e0.10
8	e1.1	e2.6	e16	e4.4	e73	e17	e16	e5.5	e3.4	e1.8	e0.21	e0.09
9	e1.6	e2.5	e8.6	e4.2	e31	e12	e12	e5.1	e2.9	e1.6	e0.17	e0.08
10	e1.3	e2.3	e6.9	e3.9	e21	e9.8	e11	e5.1	e2.7	e1.2	e0.21	e0.08
11	e1.2	e2.5	e6.6	e3.6	e17	e9.1	e9.9	e7.9	e2.5	e0.91	e0.22	e0.08
12	e1.2	e2.3	e5.7	e14	e16	e8.1	e10	e10	e2.1	e0.82	e0.74	e0.07
13	e1.2	e2.3	e5.2	e151	e27	e7.0	e13	e7.9	e2.3	e1.2	e2.1	e0.03
14	e1.4	e2.2	e4.2	e56	e213	e6.4	e11	e8.1	e5.1	e1.7	e1.4	e0.12
15	e1.4	e2.2	e3.9	e26	e103	e6.0	e9.2	e7.2	e4.8	e0.94	e0.74	e0.12
16	e1.4	e2.6	e4.2	e14	e39	e5.8	e8.4	e6.5	e3.4	e0.74	e0.56	e0.13
17	e1.4	e2.7	e3.8	e10	e23	e6.5	e8.6	e6.0	e2.9	e0.65	e0.44	e0.20
18	e1.4	e2.9	e3.4	e7.8	e18	e7.5	e8.3	e5.5	e2.7	e0.47	e0.43	e0.22
19	e1.4	e3.4	e2.9	e6.5	e16	e21	e7.9	e7.2	e2.2	e0.38	e0.70	e0.25
20	e1.6	e4.8	e2.6	e5.5	e14	e23	e9.5	e11	e1.8	e1.4	e0.92	e0.30
21	e1.6	e4.0	e2.3	e5.2	e13	e14	e11	e8.3	e1.8	e7.5	e1.3	e0.33
22	e1.6	e3.1	e2.1	e4.7	e11	e12	e9.5	e7.2	e1.6	e7.5	e1.2	e0.68
23	e5.7	e2.9	e1.8	e4.4	e10	e11	e10	e6.4	e1.6	e3.5	e0.79	e1.6
24	e6.0	e2.9	e1.7	e5.5	e9.6	e11	e8.8	e5.2	e1.6	e5.7	e0.90	e0.96
25	e3.5	e2.6	e1.6	e4.7	e8.8	e11	e8.1	e4.2	e1.4	e2.6	e0.82	e1.3
26	e2.7	e2.6	e1.6	e3.9	e8.3	e11	e8.1	e3.9	e1.4	e1.8	e0.83	e32
27	e2.9	e3.4	e1.6	e3.4	e7.8	e12	e7.8	e3.4	e1.6	e1.6	e0.86	e11
28	e2.5	e7.0	e1.9	e3.1	e7.5	e13	e7.5	e3.9	e1.6	e1.1	e0.97	e5.5
29	e2.3	e4.7	e2.3	e3.0	---	e13	e7.3	e3.2	e1.4	e0.87	e0.75	e7.3
30	e4.9	e3.8	e2.9	e2.9	---	e14	e7.2	e3.2	e4.2	e0.78	e0.36	e4.9
31	e4.0	---	e5.1	e2.7	---	e16	---	e2.6	---	e0.60	e0.25	---
TOTAL	65.4	105.1	133.6	439.5	929.6	347.3	303.1	186.9	77.1	60.06	20.53	68.57
MEAN	2.11	3.50	4.31	14.2	33.2	11.2	10.1	6.03	2.57	1.94	0.66	2.29
MAX	6.0	8.4	16	151	213	25	16	11	5.1	7.5	2.1	32
MIN	1.1	2.2	1.6	2.7	2.5	5.8	7.2	2.6	1.4	0.38	0.17	0.03
CFSM	0.10	0.16	0.20	0.65	1.52	0.51	0.46	0.28	0.12	0.09	0.03	0.10
IN.	0.11	0.18	0.23	0.75	1.59	0.59	0.52	0.32	0.13	0.10	0.04	0.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2005, BY WATER YEAR (WY)

MEAN	7.51	12.9	10.0	8.26	19.5	22.7	23.0	17.4	21.3	7.71	4.46	7.18
MAX	29.2	54.5	30.3	28.0	69.9	68.3	100	57.3	86.0	29.3	30.5	37.4
(WY)	(2002)	(1986)	(1992)	(1999)	(2001)	(1986)	(1993)	(2004)	(1996)	(1993)	(1995)	(1986)
MIN	0.67	1.14	1.12	1.11	1.15	3.57	3.28	1.44	0.76	0.61	0.50	0.61
(WY)	(1989)	(1990)	(1990)	(1991)	(2003)	(2003)	(1989)	(1989)	(1988)	(1988)	(1988)	(1988)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1984 - 2005	
ANNUAL TOTAL	4,920.88		2,736.76			
ANNUAL MEAN	13.4		7.50		13.4	
HIGHEST ANNUAL MEAN					30.3	1993
LOWEST ANNUAL MEAN					4.90	2003
HIGHEST DAILY MEAN	347	May 22	213	Feb 14	751	Apr 20, 1993
LOWEST DAILY MEAN	0.84	Sep 24	0.03	Sep 13	0.03	Sep 13, 2005
ANNUAL SEVEN-DAY MINIMUM	0.88	Sep 24	0.08	Sep 7	0.08	Sep 7, 2005
ANNUAL RUNOFF (CFSM)	0.617		0.344		0.615	
ANNUAL RUNOFF (INCHES)	8.40		4.67		8.36	
10 PERCENT EXCEEDS	34		13		30	
50 PERCENT EXCEEDS	4.4		3.5		5.0	
90 PERCENT EXCEEDS	1.2		0.47		0.91	

05431017 DELAVAN LAKE INLET AT STATE HIGHWAY 50 AT LAKE LAWN, WI—Continued

(e) Estimated

05431017 DELAVAN LAKE INLET AT STATE HIGHWAY 50 AT LAKE LAWN, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: 1984 and 1985 water years (unpublished), October 1989 to September 1995.
TOTAL-PHOSPHORUS DISCHARGE: 1984 and 1985 water years (unpublished) to current year.
DISSOLVED ORTHO-PHOSPHORUS DISCHARGE: April 1994 to current year.

REMARKS.--Records poor. Daily mean discharges are estimated based on discharges from upstream stations 05431014 and 054310157 from Oct. 1, 1992 to Jan. 31, 1993, and from station 05431016 from Feb. 1, 1993 to present.

COOPERATION.--Observer furnished by Delavan Lake Sanitary District.

EXTREMES FOR PERIOD OF RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 345 mg/L, Apr. 16, 1984; minimum observed, 0 mg/L, Sept. 23, 1991, July 17, Sept. 26, 1992, and Nov. 16, 1994.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 468 tons, Apr. 20, 1993; minimum daily, 0.00 ton, Sept. 26, 1990, many days during 1992 to 1994 water years, and July 14, 15, 18, 19, 1995.
TOTAL-PHOSPHORUS CONCENTRATIONS: Maximum observed, 3.8 mg/L, May 27, 1985; minimum observed, 0.01 mg/L, Mar. 7, 1990, Dec. 15, 1994, Apr. 17, 1995, Oct. 6, 1995, Feb. 5, 1997, and Mar. 19, 1998.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 1,910 lb, Apr. 20, 1993; minimum daily, 0.03 lb, Sept. 13, 2005.
DISSOLVED ORTHO-PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.851 mg/L, Aug. 3, 2000; minimum observed, <0.01 mg/L, Apr. 14, 1994, many days during 1995 water year, Nov. 22, 1995, several days in 1997-1999 water years, and many days in 2000 water year.
DISSOLVED ORTHO-PHOSPHORUS DISCHARGE: Maximum daily, 532 lb, Feb. 14, 2005; minimum daily, 0.02 lb, Sept. 26, 1999 and Sept. 13, 2005.
DISSOLVED CHLORIDE CONCENTRATIONS: Maximum observed, 130 mg/L, Aug. 8, 1995; minimum observed, 18 mg/L, June 1, 1995.

EXTREMES FOR CURRENT YEAR.--
TOTAL-PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.89 mg/L, Feb. 14; minimum observed, 0.04 mg/L, Feb. 8-11.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 771 lb, Feb. 14; minimum daily, 0.03 lb, Sept. 13.
DISSOLVED ORTHO-PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.66 mg/L, Feb. 14; minimum observed, 0.01 mg/L, on several days.
DISSOLVED ORTHO-PHOSPHORUS DISCHARGE: Maximum daily, 532 lb, Feb. 14; minimum daily, 0.02 lb, Sept. 13.

PHOSPHORUS, WATER, UNFILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.34	6.10	1.03	1.44	0.79	3.71	e5.30	2.25	0.81	e7.70	0.53	0.22
2	2.69	10.3	0.97	e49.0	0.76	3.15	e5.00	2.10	0.68	e4.70	0.46	0.22
3	2.03	7.02	0.86	19.0	0.70	2.58	e4.90	1.96	0.53	e3.00	0.33	0.22
4	1.52	4.95	0.84	10.1	0.87	2.11	4.72	1.92	0.53	2.17	0.33	0.18
5	1.25	2.28	0.84	6.91	7.56	1.93	4.09	1.70	4.23	1.97	0.54	0.18
6	1.20	1.76	1.48	5.28	120	3.65	3.88	1.63	e9.40	2.52	0.46	0.14
7	1.06	1.45	e2.60	4.19	e167	10.3	e5.70	1.63	e9.00	3.27	0.34	0.10
8	1.02	1.14	3.85	3.36	e85.0	8.33	e6.60	1.57	e7.30	3.30	0.25	0.09
9	1.43	1.02	1.91	2.86	e36.0	4.83	e4.90	1.42	e6.20	2.97	0.20	0.08
10	1.12	0.88	1.49	2.36	18.7	3.23	e4.50	1.39	e5.80	2.25	0.24	0.08
11	0.99	0.89	1.54	2.04	12.4	2.52	e4.10	5.22	e5.40	1.72	0.24	0.08
12	0.95	0.76	1.78	9.70	9.55	2.19	5.15	7.50	e4.50	1.57	0.88	0.07
13	0.92	0.71	1.59	148	31.1	1.89	e5.30	4.92	e4.90	2.33	3.73	0.03
14	1.03	0.64	1.22	96.0	771	1.73	e4.50	4.40	e11.0	3.37	2.46	0.11
15	0.99	0.61	1.08	34.1	313	1.62	e4.00	5.22	e10.3	1.84	1.32	0.11
16	0.95	0.81	1.13	11.8	91.0	1.57	3.94	4.40	9.96	1.42	0.87	0.12
17	0.92	0.96	1.03	5.70	48.5	1.75	3.94	3.71	7.68	1.22	0.60	0.18
18	0.88	1.19	0.92	4.06	32.0	2.09	3.72	e2.20	6.37	0.87	0.56	0.19
19	0.85	e2.70	0.78	3.25	22.3	e8.60	3.46	e3.00	4.62	0.70	0.87	0.22
20	0.93	e4.90	0.70	2.65	15.0	e9.40	4.06	e4.50	3.45	2.57	1.23	0.26
21	0.90	e3.60	0.62	2.41	9.98	e5.70	4.60	e3.40	3.49	14.2	2.35	0.28
22	0.90	e2.20	0.57	2.09	6.22	e4.90	3.88	e3.00	3.17	18.2	2.21	0.57
23	4.57	1.14	0.49	1.89	5.40	e4.50	3.99	e2.60	3.24	8.41	1.30	1.33
24	6.87	1.02	0.46	2.27	5.18	e4.40	3.43	e2.10	3.32	13.0	1.41	0.79
25	2.50	0.82	0.43	1.87	4.75	e4.30	3.08	e1.70	2.97	5.60	1.24	1.06
26	1.80	0.74	0.43	1.49	4.48	e4.20	3.01	1.72	3.32	3.23	1.22	41.4
27	1.80	e2.70	0.43	1.25	4.21	e4.90	2.83	1.42	3.27	2.50	1.22	15.4
28	1.45	e8.50	0.51	1.10	4.05	e5.30	2.66	1.55	3.15	1.60	1.33	6.82
29	1.37	e4.80	0.62	1.02	---	e5.00	2.53	1.21	2.71	1.17	0.94	8.30
30	5.17	e3.30	0.78	0.95	---	e5.70	2.44	1.15	e9.00	0.97	0.40	5.36
31	6.15	---	1.38	0.85	---	e6.60	---	0.88	---	0.70	0.27	---
TOTAL	57.55	79.89	34.36	438.99	1,827.50	132.68	124.21	83.37	150.30	121.04	30.33	84.19

WTR YR 2005 TOTAL 3,164.41

e Estimated

05431017 DELAVAN LAKE INLET AT STATE HIGHWAY 50 AT LAKE LAWN, WI—Continued

ORTHOPHOSPHATE, WATER, FILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.29	4.19	0.50	0.34	0.33	0.71	e1.30	0.73	0.27	e5.30	0.11	0.11
2	0.60	7.09	0.38	22.0	0.31	0.60	e1.30	0.70	0.24	e3.30	0.11	0.11
3	0.46	4.81	0.27	8.85	0.28	0.50	e1.20	0.67	0.19	e2.10	0.09	0.11
4	0.35	3.22	0.21	5.29	0.35	0.41	1.19	0.67	0.21	1.27	0.10	0.10
5	0.29	1.17	0.19	3.20	2.94	0.38	1.08	0.60	2.43	1.14	0.18	0.10
6	0.28	0.90	0.47	2.42	58.3	e1.20	1.08	0.59	e6.50	1.50	0.18	0.08
7	0.25	0.75	0.97	1.95	e315	2.59	1.51	0.60	e6.20	2.00	0.15	0.05
8	0.25	0.60	0.96	1.59	e160	e1.80	e1.60	0.59	e5.00	2.08	0.12	0.05
9	0.35	0.55	0.64	1.38	e68.0	e1.20	e1.20	0.55	e4.30	1.92	0.09	0.04
10	0.28	0.48	0.43	1.16	9.35	1.06	e1.10	0.55	e4.00	1.50	0.10	0.04
11	0.25	0.50	0.60	1.01	6.22	0.98	e1.00	0.85	e3.70	1.20	0.09	0.04
12	0.25	0.43	0.33	4.51	4.81	0.87	1.08	1.08	e3.10	1.22	0.34	0.04
13	0.24	0.41	0.28	69.4	16.8	0.76	e1.30	0.85	e3.40	2.05	1.95	0.02
14	0.27	0.38	0.23	56.0	532	0.69	e1.10	0.77	e7.60	2.98	1.31	0.06
15	0.27	0.36	0.21	19.6	182	0.65	e0.95	0.40	e7.10	1.51	0.71	0.06
16	0.26	0.47	0.23	6.36	60.7	0.63	0.91	0.35	e5.00	1.08	0.49	0.07
17	0.26	0.54	0.21	2.87	31.8	0.70	0.93	0.32	e4.30	0.85	0.35	0.11
18	0.25	0.64	0.18	2.00	21.4	0.81	0.90	0.30	e4.00	0.56	0.31	0.12
19	0.24	e2.90	0.16	1.59	14.2	e2.20	0.85	0.57	e3.30	0.41	0.44	0.13
20	0.27	e4.10	0.14	1.28	8.98	e2.20	e0.98	1.59	1.79	1.39	0.53	0.16
21	0.27	e3.40	0.12	1.15	5.48	e1.40	e1.10	1.10	1.90	8.67	1.29	0.18
22	0.29	e2.70	0.11	0.98	3.10	e1.20	e0.98	0.80	1.82	14.4	1.24	0.37
23	1.99	0.62	0.10	0.88	2.35	1.19	e1.00	0.69	1.96	6.55	0.66	e1.40
24	3.90	0.57	0.09	1.04	1.96	1.19	e0.90	0.56	2.11	9.14	0.70	0.52
25	0.83	0.47	0.09	0.84	1.56	1.19	0.87	0.45	2.00	3.90	0.61	0.70
26	0.46	e2.20	0.09	0.67	1.28	1.19	0.87	0.42	2.08	2.09	0.60	29.0
27	0.47	e2.90	0.09	0.55	1.05	1.30	0.84	0.37	2.17	1.40	0.59	10.1
28	0.41	e6.00	0.10	0.48	0.88	e1.30	0.81	0.42	2.08	0.73	0.64	4.24
29	0.47	e4.00	0.12	0.44	---	e1.30	0.79	0.35	1.76	0.43	0.46	5.43
30	e4.20	e3.30	0.16	0.40	---	e1.40	0.78	0.35	e6.20	0.29	0.20	3.33
31	e3.40	---	0.28	0.36	---	e1.60	---	0.28	---	0.17	0.14	---
TOTAL	22.65	60.65	8.94	220.59	1,511.43	35.20	31.50	19.12	96.71	83.13	14.88	56.87

WTR YR 2005 TOTAL 2,161.67

e Estimated

05431017 DELAVAN LAKE INLET AT STATE HIGHWAY 50 AT LAKE LAWN, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Discharge, cfs (00060)	Sampling depth, meters (00098)	Sampling method, code (82398)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
OCT										
23...	1015	5.7	--	10	--	--	--	.07	.13	--
23...	1445	5.7	--	10	--	--	--	.05	.15	--
24...	1015	6.0	--	10	--	--	--	.25	.33	--
24...	1515	6.0	--	10	--	--	--	.06	.14	--
NOV										
01...	1200	4.0	--	10	--	--	--	.20	.29	--
02...	1000	8.4	--	10	--	--	--	.16	.23	--
02...	1430	8.4	--	10	--	--	--	.14	.21	--
03...	0930	5.5	--	10	--	--	--	.17	.24	--
03...	1455	5.5	--	10	--	--	--	.16	.24	--
04...	1145	4.4	--	10	--	--	--	.16	.23	--
04...	1415	4.4	--	10	--	--	--	.13	.21	--
05...	1010	3.9	--	10	--	--	--	.05	.10	--
DEC										
06...	1015	4.9	--	10	--	--	--	.02	.06	--
08...	1005	16	--	10	--	--	--	E.01	.04	--
08...	1400	16	--	10	--	--	--	E.01	.05	--
09...	1040	8.6	--	10	--	--	--	<.02	E.04	--
09...	1500	8.6	--	10	--	--	--	E.01	E.04	--
10...	0830	6.9	--	10	--	--	--	E.01	.04	--
11...	0925	6.6	--	10	--	--	--	<.02	E.04	--
12...	0920	5.7	--	10	--	--	--	E.01	.06	--
JAN										
03...	0955	17	--	10	--	--	--	.10	.20	--
03...	1500	17	--	10	--	--	--	.08	.20	--
04...	0915	9.0	--	10	--	--	--	.12	.22	--
04...	1445	9.0	--	10	--	--	--	.11	.20	--
05...	1115	6.5	--	10	--	--	--	.09	.20	--
13...	0930	151	--	10	--	--	--	.07	.16	--
14...	1010	56	--	10	--	--	--	.20	.34	--
14...	1400	56	--	10	--	--	--	.22	.36	--
FEB										
06...	1015	75	--	10	--	--	--	.08	.21	--
06...	1445	75	--	10	--	--	--	.20	.39	--
08...	1445	73	.50	100	1.4	--	2.25	--	--	4.5
14...	1130	213	--	10	--	--	--	.53	.72	--
14...	1520	213	--	10	--	--	--	.66	.89	--
15...	0945	103	--	10	--	--	--	.27	.54	--
15...	1445	103	--	10	--	--	--	.33	.54	--
16...	1015	39	--	10	--	--	--	.30	.43	--
16...	1415	39	--	10	--	--	--	.27	.41	--
17...	0945	23	--	10	--	--	--	.26	.40	--
18...	0915	18	--	10	--	--	--	.23	.34	--
MAR										
07...	1010	25	--	10	--	--	--	<.02	.07	--
APR										
04...	1030	11	--	10	--	--	--	<.02	.08	--
07...	0840	14	--	10	--	--	--	<.02	.12	--
14...	1325	11	.50	100	--	1.3	E.013	--	--	6.5
MAY										
02...	1005	6.5	--	10	--	--	--	<.02	.06	--
11...	0950	7.9	--	10	--	--	--	<.02	.14	--
11...	1500	7.9	--	10	--	--	--	<.02	.15	--
12...	0945	10	--	10	--	--	--	<.02	.14	--
12...	1430	10	--	10	--	--	--	<.02	.14	--
13...	1000	7.9	--	10	--	--	--	<.02	.12	--
13...	1500	7.9	--	10	--	--	--	<.02	.11	--
14...	1020	8.1	--	10	--	--	--	E.02	.09	--
15...	0630	7.2	--	10	--	--	--	E.01	.14	--
18...	1400	5.5	.50	100	--	1.0	<.016	--	--	3.6
JUN										
05...	0720	3.1	--	10	--	--	--	.18	.32	--
05...	1350	3.1	--	10	--	--	--	.18	.30	--
16...	1545	3.4	.50	10	--	1.3	E.013	--	.54	<3.0
20...	0945	1.8	--	10	--	--	--	.18	.35	--
26...	0705	1.4	--	10	--	--	--	.28	.40	--
26...	1330	1.4	--	10	--	--	--	.28	.50	--
27...	0900	1.6	--	10	--	--	--	.25	.37	--

05431017 DELAVAN LAKE INLET AT STATE HIGHWAY 50 AT LAKE LAWN, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Time	Dis-charge, cfs (00060)	Sam-pling depth, meters (00098)	Sam-pling method, code (82398)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
JUL									
05...	1000	1.1	--	10	--	--	.19	.33	--
11...	1210	.91	--	10	--	--	.24	.35	--
13...	1500	1.2	.50	100	1.2	E.014	.324	.36	2.5
18...	1100	.47	--	10	--	--	.22	.34	--
21...	1100	7.5	--	10	--	--	.17	.34	--
21...	1445	7.5	--	10	--	--	.24	.34	--
22...	1145	7.5	--	10	--	--	.39	.48	--
22...	1400	7.5	--	10	--	--	.38	.47	--
23...	1000	3.5	--	10	--	--	.33	.42	--
23...	1500	3.5	--	10	--	--	.37	.47	--
24...	0920	5.7	--	10	--	--	.29	.42	--
25...	1005	2.6	--	10	--	--	.29	.41	--
AUG									
01...	1050	.49	--	10	--	--	.04	.20	--
08...	1130	.21	--	10	--	--	.11	.22	--
12...	1030	.74	--	10	--	--	.07	.20	--
13...	0940	2.1	--	10	--	--	.19	.35	--
14...	0950	1.4	--	10	--	--	.17	.32	--
15...	1145	.74	--	10	--	--	.18	.34	--
16...	1440	.56	.50	100	1.6	E.012	.16	.28	4.2
19...	1120	.70	--	10	--	--	.12	.23	--
20...	0925	.92	--	10	--	--	.09	.23	--
22...	0930	1.2	--	10	--	--	.20	.35	--
SEP									
20...	1430	.30	.50	100	1.5	E.009	--	--	3.5
26...	1440	32	--	10	--	--	.21	.29	--
27...	1000	11	--	10	--	--	.17	.26	--
28...	1005	5.5	--	10	--	--	.14	.23	--
29...	1010	7.3	--	10	--	--	.14	.21	--

423602088344600 DELAVAN LAKE PRECIPITATION SAMPLER NEAR DELAVAN, WI

LOCATION.--Lat 42°36'02", long 88°34'46", in SW $^1/_4$ SW $^1/_4$ sec.25, T.2 N., R.16 E., Walworth County, Hydrologic Unit 07090001, at the Delavan Lake Sanitary District Office, on east side of County Highway F, 1.1 mi south of State Highway 50, and 4.0 mi southeast of Delavan.

PERIOD OF RECORD.--October 1984 to September 1985, May to September 2005.

INSTRUMENTATION.--Open stainless-steel collector.

REMARKS.--Medium codes: 3=dry deposition, 7=wet deposition, and 8=bulk deposition (combined dry and wet deposition). Samples collected by Delavan Lake Sanitary District. Water quality analyses by Wisconsin State Laboratory of Hygiene.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Begin date	Begin time	End date	End time	Medium code	Phos-phorus, water, unfltrd mg/L (00665)
20050519	1415	20050520	0950	7	.015
20050520	1000	20050605	1400	8	.050
20050605	1415	20050614	0930	8	.030
20050614	0945	20050624	1315	3	.174
20050624	1330	20050626	1345	8	.024
20050626	1400	20050630	0945	8	.068
20050714	0800	20050721	0945	8	.029
20050721	1000	20050722	1315	7	.042
20050722	1330	20050724	0930	8	.014
20050724	1000	20050804	1130	8	.142
20050804	1145	20050812	1130	8	.042
20050812	1145	20050818	0710	3	.078
20050818	0730	20050819	1320	7	.015
20050819	1335	20050820	0945	7	.007
20050820	0950	20050825	0830	3	.057
20050826	1315	20050827	0915	7	.010
20050827	0930	20050906	1000	3	.170
20050910	0930	20050913	0720	3	.105
20050913	0745	20050914	0935	7	.038
20050919	0700	20050920	0845	7	.020
20050922	0930	20050923	0810	7	.043
20050924	0945	20050925	0915	7	.018
20050929	1305	20051011	1310	3	.007

423556088365001 DELAVAN LAKE AT CENTER NEAR DELAVAN LAKE, WI

LOCATION.--Lat 42°35'56", long 88°36'50", in SE $^1/_4$ SW $^1/_4$ sec.28, T.2 N., R.16 E., Walworth County, Hydrologic Unit 07090001, 2.6 mi southeast of Delavan.

DRAINAGE AREA.--41.4 mi^2, of which 2.3 mi^2 is non-contributing. Area of Delavan Lake, 2,072 acres.

PERIOD OF RECORD.--October 1983 to current year.

REMARKS.--Lake ice-covered during February measurements. Water-quality analyses done by the U.S. Geological Survey National Water Quality Laboratory. Samples for determination of chlorophyll-a concentration are collected from the top 1.5 ft of the lake. *Measurement and samples collected by the Delavan Lake Sanitary District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Gage height, feet (00065)	Transparency Secchi disc, meters (00078)	Sampling depth, meters (00098)	Temperature, water, deg C (00010)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Dissolved oxygen, mg/L (00300)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Orthophosphate, water, fltrd, mg/L as P (00671)
OCT													
*12...	1020	4.49	1.80	.50	16.5	--	--	--	--	--	--	.134	--
*21...	0925	4.43	1.40	.50	13.0	--	--	--	--	--	--	.113	--
*27...	0915	4.53	1.50	.50	15.8	--	--	--	--	--	--	.101	--
NOV													
*03...	1030	4.62	1.80	.50	12.0	--	--	--	--	--	--	.096	--
*09...	1000	4.60	2.10	.50	10.0	--	--	--	--	--	--	.089	--
16...	1225	4.59	2.40	--	--	--	--	--	--	--	--	--	--
16...	1230	--	--	.50	9.0	558	8.0	10.0	.136	.74	.103	.081	.047
16...	1246	--	--	15.5	8.9	561	8.0	9.3	--	--	--	.087	.049
*23...	1000	4.65	2.40	.50	8.5	--	--	--	--	--	--	.081	--
FEB													
08...	1300	5.17	6.60	--	--	--	--	--	--	--	--	--	--
08...	1305	--	--	.50	.6	560	7.7	13.5	.135	.71	.211	.077	.055
08...	1321	--	--	16.0	3.7	677	7.4	.7	--	--	--	.22	.183
APR													
14...	1150	5.01	2.40	--	--	--	--	--	--	--	--	--	--
14...	1155	--	--	.50	9.7	561	8.5	12.5	.023	.73	.110	.060	.015
14...	1211	--	--	16.0	8.2	566	8.3	11.5	.061	.72	.147	.068	.023
*21...	1100	5.02	5.20	.50	11.5	--	--	--	--	--	--	.051	--
*28...	1020	5.00	5.20	.50	8.3	--	--	--	--	--	--	E.059	--
MAY													
*04...	1030	4.96	7.60	.50	10.0	--	--	--	--	--	--	.055	--
*10...	1030	4.97	5.20	.50	13.0	--	--	--	--	--	--	.047	--
*16...	1355	5.00	6.40	.50	13.5	--	--	--	--	--	--	.045	--
18...	1245	4.99	5.80	--	--	--	--	--	--	--	--	--	--
18...	1250	--	--	.50	13.4	548	8.4	10.4	.066	.66	.079	.047	.015
18...	1306	--	--	16.0	11.1	557	8.0	6.6	--	--	--	.084	.044
*24...	1030	5.03	6.10	.50	15.0	--	--	--	--	--	--	.046	--
JUN													
*03...	1400	4.98	6.40	.50	19.0	--	--	--	--	--	--	.045	--
*07...	0835	5.04	4.90	.50	20.5	--	--	--	--	--	--	.048	--
16...	1355	5.07	3.80	--	--	--	--	--	--	--	--	--	--
16...	1400	--	--	.50	22.9	560	8.4	7.6	.075	.68	E.010	.054	.014
16...	1405	--	--	5.0	21.8	559	8.3	7.3	--	--	--	.052	.014
16...	1412	--	--	12.0	13.3	556	7.7	2.6	--	--	--	.106	.073
16...	1416	--	--	16.0	12.4	559	7.5	.1	--	--	--	.191	.151
*22...	1110	4.98	3.50	.50	23.5	--	--	--	--	--	--	.043	--
*29...	0825	4.93	2.10	.50	26.5	--	--	--	--	--	--	.21	--
JUL													
*07...	1045	4.92	2.30	.50	24.0	--	--	--	--	--	--	.175	--
13...	1305	4.87	2.70	--	--	--	--	--	--	--	--	--	--
13...	1310	--	--	.50	25.1	557	8.5	9.0	.020	.69	E.012	.030	<.006
13...	1316	--	--	6.0	24.7	559	8.5	8.4	--	--	--	.029	<.006
13...	1323	--	--	13.0	13.0	601	7.6	.2	--	--	--	.27	.228
13...	1326	--	--	16.0	12.2	614	7.4	.2	--	--	--	.46	.410
*19...	1130	4.80	3.50	.50	27.0	--	--	--	--	--	--	.026	--
*28...	0945	4.80	3.80	.50	25.0	--	--	--	--	--	--	.033	--
AUG													
*04...	0830	4.70	4.00	.50	25.0	--	--	--	--	--	--	.032	--
*10...	0845	4.64	3.80	.50	26.0	--	--	--	--	--	--	.029	--
*16...	1040	4.67	1.80	.50	25.0	--	--	--	--	--	--	.029	--
16...	1210	--	1.80	--	--	--	--	--	--	--	--	--	--
16...	1215	--	--	.50	26.1	550	8.6	9.3	.034	.70	E.011	.032	E.005
16...	1226	--	--	7.0	25.2	552	8.4	6.5	--	--	--	.03	<.006
16...	1227	--	--	8.0	23.6	562	7.7	.1	--	--	--	.03	--
16...	1229	--	--	10.0	16.1	567	7.5	.1	--	--	--	.16	--
16...	1231	--	--	12.0	13.2	575	7.5	.0	--	--	--	.32	.277
16...	1233	--	--	14.0	12.5	590	7.3	.0	--	--	--	.49	--
16...	1234	--	--	15.0	12.3	595	7.3	.0	--	--	--	.61	--
16...	1235	--	--	16.0	12.3	599	7.2	.0	--	--	--	.63	.591
*25...	0945	4.63	2.90	.50	23.5	--	--	--	--	--	--	.026	--
*31...	0950	4.59	2.40	.50	23.5	--	--	--	--	--	--	.029	--

423556088365001 DELAVAN LAKE AT CENTER NEAR DELAVAN LAKE, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Chloro-phyll a wat unf trichr. method, uncorr, ug/L (32210)	Color, water, fltrd, Pt-Co units (00080)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Chlor-ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)
OCT													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	8.30	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	.940	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<2.0	9.04	12	37.7	33.8	26.9	2.85	57.8	24.7	.2	<.2	<6	1.0
14...	<2.0	--	12	37.7	34.0	26.9	2.84	58.0	24.6	.2	.2	<6	1.7
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	1.28	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	3.04	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	3.56	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	13.9	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--	--

423556088365001 DELAVAN LAKE AT CENTER NEAR DELAVAN LAKE, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Residue on evap. at 180degC wat flt mg/L (70300)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Sampling method, code (82398)
OCT			
12...	--	--	100
21...	--	--	100
27...	--	--	100
NOV			
03...	--	--	100
09...	--	--	100
16...	--	--	--
16...	--	--	100
16...	--	--	100
23...	--	--	100
FEB			
08...	--	--	--
08...	--	--	100
08...	--	--	100
APR			
14...	--	--	--
14...	302	172	100
14...	300	172	100
21...	--	--	100
28...	--	--	100
MAY			
04...	--	--	100
10...	--	--	100
16...	--	--	100
18...	--	--	--
18...	--	--	100
18...	--	--	100
24...	--	--	100
JUN			
03...	--	--	100
07...	--	--	100
16...	--	--	--
16...	--	--	100
16...	--	--	100
16...	--	--	100
16...	--	--	100
22...	--	--	100
29...	--	--	100
JUL			
07...	--	--	100
13...	--	--	--
13...	--	--	100
13...	--	--	100
13...	--	--	100
13...	--	--	100
19...	--	--	100
28...	--	--	100
AUG			
04...	--	--	100
10...	--	--	100
16...	--	--	100
16...	--	--	--
16...	--	--	--
16...	--	--	100
16...	--	--	100
16...	--	--	100
16...	--	--	100
16...	--	--	100
16...	--	--	100
16...	--	--	100
25...	--	--	100
31...	--	--	70

423556088365001 DELAVAN LAKE AT CENTER NEAR DELAVAN LAKE, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Time	Gage height, feet (00065)	Transparency Secchi disc, meters (00078)	Sampling depth, meters (00098)	Temperature, water, deg C (00010)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Dissolved oxygen, mg/L (00300)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Orthophosphate, water, fltrd, mg/L as P (00671)
SEP													
*07...	1100	4.50	2.70	.50	23.5	--	--	--	--	--	--	.027	--
*15...	1345	4.40	2.70	.50	22.0	--	--	--	--	--	--	.033	--
20...	1325	4.38	1.90	--	--	--	--	--	--	--	--	--	--
20...	1330	--	--	.50	23.0	545	8.5	9.3	.030	.69	E.008	.037	<.006
20...	1339	--	--	9.0	22.1	547	8.3	6.9	--	--	--	.037	E.004
20...	1343	--	--	13.0	13.3	586	7.2	.2	--	--	--	.55	.492
20...	1346	--	--	16.0	12.4	600	7.1	.1	--	--	--	.68	.629
*29...	1400	4.63	3.20	.50	19.0	--	--	--	--	--	--	.060	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Chlorophyll a wat unf trichr. method, uncorr, ug/L (32210)	Sampling method, code (82398)
SEP			
07...	--	--	100
15...	--	--	100
20...	--	--	--
20...	<2.0	14.8	100
20...	--	--	100
20...	--	--	100
20...	--	--	100
29...	--	--	100

423556088365001 DELAVAN LAKE AT CENTER NEAR DELAVAN LAKE, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Sampling depth, meters (00098)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
NOV						
16...	1231	1.0	9.9	8.0	558	9.0
16...	1232	2.0	9.9	8.0	558	9.0
16...	1233	3.0	9.8	8.0	558	9.0
16...	1234	4.0	9.8	8.0	558	9.0
16...	1235	5.0	9.8	8.0	558	9.0
16...	1236	6.0	9.8	8.0	558	9.0
16...	1237	7.0	9.7	8.0	558	9.0
16...	1238	8.0	9.7	8.0	559	9.0
16...	1239	9.0	9.7	8.0	560	9.0
16...	1240	10.0	9.7	8.0	560	9.0
16...	1241	11.0	9.6	8.0	560	9.0
16...	1242	12.0	9.5	8.0	560	9.0
16...	1243	13.0	9.5	8.0	561	9.0
16...	1244	14.0	9.4	8.0	561	9.0
16...	1245	15.0	9.4	8.0	561	8.9
16...	1247	16.0	--	--	--	--
FEB						
08...	1306	1.0	13.2	7.7	579	1.4
08...	1307	2.0	12.9	7.7	582	1.8
08...	1308	3.0	12.8	7.7	587	1.8
08...	1309	4.0	12.7	7.7	586	1.8
08...	1310	5.0	12.5	7.7	586	1.8
08...	1311	6.0	12.2	7.7	588	1.9
08...	1312	7.0	12.1	7.7	588	1.9
08...	1313	8.0	11.6	7.7	591	2.0
08...	1314	9.0	11.4	7.7	592	2.1
08...	1315	10.0	10.4	7.7	593	2.2
08...	1316	11.0	9.0	7.6	602	2.3
08...	1317	12.0	7.6	7.6	611	2.4
08...	1318	13.0	5.7	7.5	616	2.8
08...	1319	14.0	3.1	7.5	625	3.0
08...	1320	15.0	.8	7.4	646	3.4
08...	1322	16.5	--	--	--	--
APR						
14...	1156	1.0	12.5	8.5	561	9.5
14...	1157	2.0	12.4	8.5	561	9.2
14...	1158	3.0	12.4	8.5	562	9.1
14...	1159	4.0	12.2	8.5	563	9.0
14...	1200	5.0	12.2	8.5	563	9.0
14...	1201	6.0	12.1	8.5	563	9.0
14...	1202	7.0	12.1	8.5	563	8.9
14...	1203	8.0	12.1	8.5	563	8.8
14...	1204	9.0	12.1	8.5	563	8.8
14...	1205	10.0	12.1	8.5	563	8.8
14...	1206	11.0	12.1	8.5	564	8.8
14...	1207	12.0	12.1	8.5	564	8.8
14...	1208	13.0	11.9	8.4	564	8.5
14...	1209	14.0	11.8	8.4	564	8.4
14...	1210	15.0	11.6	8.4	564	8.4
14...	1212	16.5	--	--	--	--
MAY						
18...	1251	1.0	10.0	8.4	548	13.4
18...	1252	2.0	9.9	8.5	549	13.4
18...	1253	3.0	9.8	8.5	548	13.3
18...	1254	4.0	9.7	8.4	548	13.0
18...	1255	5.0	9.6	8.4	548	12.7
18...	1256	6.0	9.6	8.4	548	12.4
18...	1257	7.0	9.6	8.4	548	12.4
18...	1258	8.0	9.6	8.4	549	12.3
18...	1259	9.0	9.6	8.4	548	12.2
18...	1300	10.0	9.5	8.4	549	12.1
18...	1301	11.0	8.7	8.3	549	11.8
18...	1302	12.0	8.5	8.2	550	11.5
18...	1303	13.0	8.3	8.2	550	11.5
18...	1304	14.0	7.9	8.2	552	11.4
18...	1305	15.0	7.5	8.2	553	11.3
18...	1307	16.5	--	--	--	--

423556088365001 DELAVAN LAKE AT CENTER NEAR DELAVAN LAKE, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Time	Sampling depth, meters (00098)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
JUN						
16...	1401	1.0	7.6	8.4	561	22.8
16...	1402	2.0	7.6	8.4	561	22.8
16...	1403	3.0	7.5	8.4	561	22.6
16...	1404	4.0	7.3	8.3	561	22.2
16...	1406	6.0	6.6	8.2	559	21.1
16...	1407	7.0	6.3	8.1	561	20.7
16...	1408	8.0	5.4	8.0	559	18.5
16...	1409	9.0	4.7	7.9	556	15.1
16...	1410	10.0	4.0	7.8	556	14.1
16...	1411	11.0	3.7	7.8	555	13.7
16...	1413	13.0	1.8	7.6	557	13.0
16...	1414	14.0	1.2	7.6	558	12.8
16...	1415	15.0	.6	7.5	558	12.5
16...	1417	16.5	--	--	--	--
JUL						
13...	1311	1.0	9.0	8.5	557	25.1
13...	1312	2.0	9.0	8.5	557	25.1
13...	1313	3.0	8.9	8.5	557	25.0
13...	1314	4.0	8.8	8.5	557	24.9
13...	1315	5.0	8.6	8.5	558	24.8
13...	1317	7.0	.5	7.6	576	22.2
13...	1318	8.0	.2	7.5	588	19.2
13...	1319	9.0	.2	7.5	590	16.7
13...	1320	10.0	.2	7.5	591	14.9
13...	1321	11.0	.2	7.6	596	13.9
13...	1322	12.0	.2	7.6	598	13.4
13...	1324	14.0	.2	7.6	603	12.8
13...	1325	15.0	.2	7.5	610	12.4
13...	1327	16.5	--	--	--	--
AUG						
16...	1220	1.0	9.3	8.6	550	26.0
16...	1221	2.0	9.2	8.6	550	25.8
16...	1222	3.0	9.0	8.6	550	25.7
16...	1223	4.0	8.8	8.6	550	25.6
16...	1224	5.0	7.9	8.4	550	25.5
16...	1225	6.0	7.0	8.5	552	25.3
16...	1228	9.0	.1	7.6	568	19.4
16...	1230	11.0	.0	7.5	570	14.3
16...	1232	13.0	.0	7.4	583	12.7
16...	1236	16.3	.0	7.2	604	12.2
16...	1237	16.5	--	--	--	--
SEP						
20...	1331	1.0	9.3	8.5	545	23.0
20...	1332	2.0	9.2	8.5	544	22.8
20...	1333	3.0	8.6	8.4	545	22.5
20...	1334	4.0	8.3	8.4	545	22.4
20...	1335	5.0	8.0	8.4	546	22.4
20...	1336	6.0	7.9	8.4	546	22.3
20...	1337	7.0	7.8	8.4	546	22.3
20...	1338	8.0	7.7	8.3	546	22.2
20...	1340	10.0	.7	7.6	558	20.6
20...	1341	11.0	.4	7.4	572	16.5
20...	1342	12.0	.3	7.3	578	14.0
20...	1344	14.0	.1	7.2	589	12.9
20...	1345	15.0	.1	7.1	600	12.5
20...	1347	16.5	--	--	--	--

423659088354401 DELAVAN LAKE, AT NORTH END, NEAR LAKE LAWN, WI

LOCATION.--Lat 42°36'59", long 88°35'44", in NW 1/4 SW 1/4, sec.22, T.2 N., R.16 E., Walworth County, Hydrologic Unit 07090001, 2.6 mi southeast of Delavan.

DRAINAGE AREA.--41.4 mi^2, of which 2.3 mi^2 is non-contributing.

PERIOD OF RECORD.--October 1983 to current year.

WATER-QUALITY DATA, APRIL 14 TO AUGUST 16, 2005

	April 14	May 18	June 16	July 13	Aug. 16
Secchi-depth (meters)	3.0	5.3	4.4	2.7	1.9

423526088380101 DELAVAN LAKE, AT SW END, NEAR DELAVAN LAKE, WI

LOCATION.--Lat 42°35'26", long 88°38'01", in SE 1/4 NW 1/4, sec.32, T.2 N., R.16 E., Walworth County, Hydrologic Unit 07090001, 2.6 mi southeast of Delavan.

DRAINAGE AREA.--41.4 mi^2, of which 2.3 mi^2 is non-contributing.

PERIOD OF RECORD.--October 1983 to current year.

WATER-QUALITY DATA, APRIL 14 TO AUGUST 16, 2005

	April 14	May 18	June 16	July 13	Aug. 16
Secchi-depth (meters)	2.6	5.6	3.5	2.4	1.8

423706088363400 DELAVAN LAKE NEAR DELAVAN, WI

LOCATION.--Lat 42°36'27", long 88°36'19", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.28, T.2 N., R.16 E., Walworth County, Hydrologic Unit 07090001, at Delavan Lake Sanitary District Lift Station No. 2 at Delavan Lake Yacht Club, 1.0 mi southeast of outlet, and 2.7 mi southeast of Delavan.

DRAINAGE AREA.--41.4 mi^2, of which 2.3 mi^2 is non-contributing. Area of Delavan Lake, 2,072 acres.

PERIOD OF RECORD.--October 1983 to current year. October 1983 to September 1985 data published in Water Resources Investigation series report "Water Quality and Hydrology of Delavan Lake in Southeastern Wisconsin" by Stephen J. Field and Marvin D. Duerk.

GAGE.--Water-stage recorder. Datum of gage is 922.92 ft above NGVD of 1929. Prior to Sept. 5, 1989, staff gage at bridge on North Shore Drive at same datum.

REMARKS.--Lake was ice covered from Dec. 25 to Mar. 30. Lake levels controlled by Delavan Lake Sanitary District.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 6.19 ft, Feb. 21, 1994; minimum daily, -4.44 ft Nov. 6, 1989 (lake drawn down for lake rehabilitation program).

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.26 ft, Feb. 15, 15; minimum, 4.33 ft, Sept. 18.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.58	4.58	4.73	4.88	4.96	4.98	5.01	4.98	5.00	4.97	4.74	4.58
2	4.59	4.62	4.73	4.98	4.96	4.98	5.02	4.97	4.99	4.94	4.72	4.56
3	4.57	4.62	4.73	5.01	4.97	4.97	5.01	4.96	4.98	4.93	4.70	4.54
4	4.54	4.64	4.72	5.02	4.97	4.97	5.00	4.96	4.98	4.92	4.70	4.53
5	4.53	4.63	4.72	5.04	4.98	4.96	4.99	4.94	5.05	4.92	4.68	4.51
6	4.51	4.62	4.75	5.06	5.01	4.97	4.99	4.94	5.05	4.94	4.67	4.51
7	4.50	4.62	4.80	5.04	5.14	5.00	5.05	4.96	5.04	4.92	4.65	4.50
8	4.51	4.61	4.84	5.01	5.17	5.01	5.05	4.96	5.04	4.91	4.64	4.49
9	4.51	4.60	4.85	4.98	5.13	5.01	5.04	4.97	5.03	4.89	4.64	4.48
10	4.50	4.59	4.87	4.95	5.09	5.02	5.03	4.97	5.03	4.88	4.64	4.46
11	4.50	4.59	4.88	4.94	5.04	5.04	5.01	5.01	5.04	4.87	4.62	4.45
12	4.49	4.58	4.88	4.97	4.98	5.03	5.01	5.01	5.07	4.87	4.72	4.44
13	4.49	4.58	4.88	5.11	4.95	5.03	5.02	5.01	5.09	4.87	4.71	4.43
14	4.48	4.57	4.87	5.18	5.11	5.02	5.01	5.02	5.11	4.86	4.70	4.42
15	4.48	4.58	4.87	5.19	5.24	5.01	4.99	5.01	5.09	4.85	4.68	4.40
16	4.47	4.59	4.86	5.17	5.24	5.01	4.98	5.00	5.07	4.84	4.67	4.39
17	4.44	4.60	4.86	5.15	5.19	5.02	4.99	4.99	5.04	4.83	4.65	4.38
18	4.44	4.61	4.86	5.14	5.13	5.02	4.99	4.99	5.03	4.82	4.67	4.37
19	4.44	4.64	4.85	5.12	5.06	5.04	4.99	5.02	5.02	4.80	4.67	4.38
20	4.43	4.65	4.85	5.10	5.01	5.06	5.02	5.05	5.01	4.79	4.70	4.38
21	4.43	4.66	4.85	5.08	4.96	5.06	5.02	5.05	5.00	4.82	4.70	4.37
22	4.42	4.65	4.84	5.11	4.95	5.06	5.03	5.05	4.98	4.83	4.68	4.38
23	4.49	4.65	4.84	5.09	4.96	5.06	5.04	5.04	4.96	4.83	4.66	4.38
24	4.51	4.65	4.84	5.06	4.96	5.06	5.02	5.03	4.95	4.84	4.64	4.37
25	4.51	4.65	4.84	5.03	4.96	5.05	5.00	5.02	4.93	4.84	4.63	4.44
26	4.52	4.65	4.84	5.01	4.96	5.04	5.00	5.02	4.96	4.84	4.62	4.60
27	4.53	4.68	4.84	4.98	4.96	5.02	5.00	5.01	4.95	4.82	4.64	4.61
28	4.53	4.70	4.84	4.97	4.98	5.02	5.00	5.01	4.95	4.80	4.62	4.62
29	4.53	4.70	4.84	4.95	---	5.01	4.99	5.01	4.93	4.78	4.62	4.63
30	4.57	4.71	4.85	4.95	---	5.01	4.99	5.01	4.98	4.76	4.61	4.62
31	4.55	---	4.87	4.96	---	5.01	---	5.01	---	4.75	4.59	---
MEAN	4.50	4.63	4.83	5.04	5.04	5.02	5.01	5.00	5.01	4.86	4.66	4.47
MAX	4.59	4.71	4.88	5.19	5.24	5.06	5.05	5.05	5.11	4.97	4.74	4.63
MIN	4.42	4.57	4.72	4.88	4.95	4.96	4.98	4.94	4.93	4.75	4.59	4.37

05431022 DELAVAN LAKE OUTLET AT BORG ROAD NEAR DELAVAN, WI

LOCATION.--Lat 42°36'53", long 88°37'29", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.20, T.2 N., R.16 E., Walworth County, Hydrologic Unit 07090001, on right bank 50 ft upstream from bridge on Borg Road, 1.4 mi southeast of Delavan, and 0.2 mi downstream from Delavan Lake dam outlet.

DRAINAGE AREA.--42.1 mi^2, of which 2.3 mi^2 is non-contributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 914.50 ft above NGVD of 1929 (Public Service Commission bench mark).

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.5	1.5	0.57	1.3	14	23	13	0.04	0.75	1.2	0.26
2	0.93	1.2	1.5	12	2.0	13	20	12	0.24	0.86	2.7	0.45
3	0.84	1.0	1.5	18	2.4	13	20	14	0.27	1.2	0.27	0.37
4	0.83	1.0	1.5	18	3.1	13	18	16	0.15	1.3	0.27	0.21
5	1.4	1.1	1.3	18	6.7	13	16	17	0.10	1.2	0.33	0.09
6	1.4	1.2	1.3	27	24	14	15	12	0.14	0.92	0.15	0.07
7	1.3	1.3	1.5	35	86	14	16	5.2	0.17	0.94	0.33	0.13
8	1.3	1.2	1.2	33	124	13	17	5.6	0.15	0.94	0.25	0.11
9	1.3	1.6	1.1	33	98	12	16	5.1	0.19	0.93	0.20	0.10
10	1.2	1.7	0.91	22	81	12	17	3.8	0.39	0.89	0.39	0.05
11	1.0	1.7	0.85	14	79	14	16	7.8	0.57	0.97	0.30	0.05
12	0.97	1.5	0.80	e14	77	15	16	10	2.4	2.1	0.36	0.04
13	0.89	1.5	e0.70	24	80	15	14	9.2	3.1	2.2	0.14	0.13
14	0.91	1.4	e0.50	30	92	15	20	9.6	2.5	1.0	0.12	0.29
15	1.0	1.3	e0.60	30	100	16	13	8.4	1.9	0.76	0.10	0.15
16	0.98	1.3	e0.44	30	99	16	3.1	5.6	2.1	0.08	0.07	0.05
17	0.87	1.3	e0.42	29	97	16	2.5	3.6	1.6	0.24	0.06	0.03
18	1.0	1.3	e0.42	30	96	16	3.8	3.0	1.8	2.4	0.11	0.02
19	1.2	1.3	e0.40	34	93	18	5.0	2.6	1.8	0.27	0.07	0.02
20	1.2	1.3	e0.40	34	92	18	3.2	5.5	1.6	0.23	0.13	e0.01
21	1.3	1.2	e0.38	33	60	18	3.9	7.9	1.1	0.20	0.05	e0.04
22	1.3	1.2	e0.36	34	20	16	3.7	7.5	0.97	0.12	2.2	0.18
23	1.4	1.3	e0.34	35	14	17	15	7.0	1.1	0.22	1.2	e0.02
24	1.3	1.3	e0.34	34	14	23	20	6.7	0.88	0.14	0.34	e0.02
25	1.3	1.3	e0.34	34	14	30	11	3.0	0.97	0.29	0.13	0.19
26	1.2	1.3	e0.34	34	14	30	7.8	0.46	0.41	0.13	0.20	0.04
27	1.2	1.4	e0.36	24	13	28	9.0	0.43	0.14	0.19	0.22	0.02
28	1.2	1.3	e0.38	17	14	24	11	0.21	0.75	0.19	0.14	0.02
29	1.1	1.3	e0.44	5.6	---	24	13	0.14	0.83	0.12	0.13	0.01
30	1.6	1.4	e0.48	1.4	---	27	14	0.12	1.1	0.13	0.10	0.01
31	1.6	---	e0.52	1.3	---	27	---	0.06	---	0.19	0.03	---
TOTAL	36.02	39.7	23.12	738.87	1,496.5	554	383.0	202.52	29.46	22.10	12.29	3.18
MEAN	1.16	1.32	0.75	23.8	53.4	17.9	12.8	6.53	0.98	0.71	0.40	0.11
MAX	1.6	1.7	1.5	35	124	30	23	17	3.1	2.4	2.7	0.45
MIN	0.83	1.0	0.34	0.57	1.3	12	2.5	0.06	0.04	0.08	0.03	0.01
AC-FT	71	79	46	1,470	2,970	1,100	760	402	58	44	24	6.3
CFSM	0.03	0.03	0.02	0.60	1.34	0.45	0.32	0.16	0.02	0.02	0.01	0.00
IN.	0.03	0.04	0.02	0.69	1.40	0.52	0.36	0.19	0.03	0.02	0.01	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2005, BY WATER YEAR (WY)

MEAN	19.3	17.0	17.0	17.6	30.7	29.0	34.4	23.8	29.0	10.6	4.64	13.8
MAX	127	93.1	51.1	44.7	97.8	71.2	145	80.4	105	53.7	32.6	110
(WY)	(1990)	(1986)	(1986)	(1993)	(1994)	(1986)	(1993)	(2004)	(1996)	(1993)	(1995)	(1989)
MIN	0.00	0.00	0.00	0.31	0.71	0.41	0.00	0.01	0.01	0.03	0.01	0.02
(WY)	(1991)	(1991)	(1990)	(1990)	(1990)	(1990)	(1990)	(1990)	(1990)	(1990)	(1991)	(1990)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1984 - 2005
ANNUAL TOTAL	6,588.70	3,540.76	
ANNUAL MEAN	18.0	9.70	20.5
HIGHEST ANNUAL MEAN			42.6 1993
LOWEST ANNUAL MEAN			7.59 2003
HIGHEST DAILY MEAN	190 May 25	124 Feb 8	406 Feb 22, 1994
LOWEST DAILY MEAN	0.10 Aug 8	(e)0.01 (c)Sep 20	0.00 (a)Jun 21, 1989
ANNUAL SEVEN-DAY MINIMUM	0.30 Aug 5	0.04 Sep 18	0.00 (b)Nov 14, 1989
MAXIMUM PEAK FLOW		128 Feb 7	473 Feb 22, 1994
MAXIMUM PEAK STAGE		6.91 Feb 7	8.35 Aug 5, 1998
ANNUAL RUNOFF (AC-FT)	13,070	7,020	14,820
ANNUAL RUNOFF (CFSM)	0.452	0.244	0.514
ANNUAL RUNOFF (INCHES)	6.16	3.31	6.99
10 PERCENT EXCEEDS	56	27	57
50 PERCENT EXCEEDS	2.8	1.3	6.8
90 PERCENT EXCEEDS	0.70	0.13	0.13

05431022 DELAVAN LAKE OUTLET AT BORG ROAD NEAR DELAVAN, WI—Continued

(a) Also occurred many days during 1990 and 1991 water years (lake drawn down for lake rehabilitation program)
(b) Also occurred in 1991 water year
(c) Also occurred Sept. 29-30, 2005
(e) Estimated

05431022 DELAVAN LAKE OUTLET AT BORG ROAD NEAR DELAVAN, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: Water years 1984-85, 1990-91.
TOTAL-PHOSPHORUS DISCHARGE: October 1983 to current year.

INSTRUMENTATION.--Automatic pumping sampler from October to December 1983. Manual samples collected from January 1984 to present.

REMARKS.--Records good.

COOPERATION.--Observer furnished by Delavan Lake Sanitary District.

EXTREMES FOR PERIOD OF RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 238 mg/L, Feb. 22, 1985; minimum observed, 1 mg/L, on many days.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 29 tons, Feb. 25, 1985; minimum daily, 0.00 ton, on many days during 1990 and 1991 water years.
DISSOLVED CHLORIDE CONCENTRATIONS: Maximum observed, 71 mg/L, June 5, 1995; minimum observed, 40 mg/L, July 5, 1995.
TOTAL-PHOSPHORUS CONCENTRATIONS: Maximum observed, 6.00 mg/L, Jan. 5, 1990; minimum observed, <0.01 mg/L, Mar. 9-10, 1990, several days during 1992, 1994, and 1995 water years, and Oct. 2, 1995.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 585 lb, Feb. 22, 1994; minimum daily, 0.00 lb, Aug. 9, 13, 1987, and many days during 1990, 1991, and 1994 water years, Dec. 4, 1994, July 10-11, 1995, Oct. 1-5, 1995, Sept. 27, 1996, and several days in 2005 water year.

EXTREMES FOR CURRENT YEAR.--
TOTAL-PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.30 mg/L, Feb. 18; minimum observed, 0.03 mg/L, Sept. 27, 29.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 153 lb, Feb. 18; minimum daily, 0.0 lb, on several days.

PHOSPHORUS, WATER, UNFILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.27	0.51	0.34	0.12	0.48	11.4	7.78	2.77	0.04	0.31	0.31	0.06
2	0.26	0.38	0.34	2.64	0.72	10.6	6.86	2.74	0.22	0.33	0.74	0.10
3	0.24	0.32	0.33	4.00	0.89	9.90	6.60	4.41	0.26	0.43	0.07	0.08
4	0.24	0.32	0.33	4.32	1.16	9.50	5.86	7.13	0.15	0.44	0.07	0.04
5	0.41	0.35	0.29	4.70	2.52	8.94	5.17	10.9	0.10	0.38	0.09	0.02
6	0.42	0.38	0.29	7.45	9.50	8.56	4.75	10.1	0.14	0.29	0.04	0.02
7	0.40	0.38	0.34	9.96	36.0	8.13	5.08	4.29	0.18	0.29	0.09	0.03
8	0.39	0.37	0.29	9.66	48.1	7.58	5.10	3.97	0.15	0.28	0.07	0.02
9	0.40	0.47	0.30	9.74	40.0	6.95	4.96	3.23	0.18	0.28	0.05	0.02
10	0.36	0.50	0.23	6.56	35.8	6.83	4.91	2.10	0.36	0.26	0.11	0.01
11	0.32	0.49	0.20	4.26	37.9	7.49	4.60	3.74	0.52	0.27	0.08	0.01
12	0.31	0.43	0.17	e4.46	39.7	7.77	4.71	4.42	2.09	0.58	0.10	0.00
13	0.29	0.44	e0.15	7.90	44.6	7.77	3.99	3.42	2.69	0.61	0.04	0.02
14	0.30	0.40	e0.11	9.75	59.6	7.86	5.55	3.18	2.06	0.26	0.03	0.06
15	0.34	0.37	e0.13	9.77	98.0	7.97	3.71	2.90	1.55	0.20	0.03	0.03
16	0.33	0.36	e0.10	9.83	141	7.82	0.85	2.01	1.60	0.02	0.02	0.00
17	0.30	0.35	e0.09	9.65	151	7.54	0.68	1.38	1.22	0.06	0.02	0.00
18	0.36	0.34	e0.09	9.99	153	7.47	1.00	1.24	1.28	0.59	0.03	0.00
19	0.43	0.35	e0.09	11.4	141	8.09	1.29	1.10	1.24	0.06	0.02	0.00
20	0.44	0.35	e0.09	11.5	131	8.05	0.82	2.50	1.06	0.05	0.03	e0.00
21	0.48	0.32	e0.08	11.3	82.0	8.07	0.99	3.75	0.73	0.04	0.01	e0.01
22	0.49	0.32	e0.08	11.8	25.2	6.89	0.93	3.78	0.60	0.03	0.47	0.03
23	0.52	0.32	e0.07	12.1	16.5	6.94	3.62	3.75	0.67	0.05	0.26	e0.00
24	0.50	0.32	e0.07	11.7	15.5	9.42	4.73	3.76	0.51	0.03	0.07	e0.00
25	0.47	0.33	e0.07	11.7	14.9	12.0	2.73	1.76	0.54	0.07	0.03	0.03
26	0.42	0.32	e0.07	11.9	13.8	11.8	1.83	0.29	0.22	0.03	0.04	0.00
27	0.42	0.33	e0.08	8.34	12.8	10.8	2.09	0.28	0.07	0.05	0.05	0.00
28	0.41	0.31	e0.08	6.02	12.2	9.19	2.49	0.15	0.35	0.05	0.03	0.00
29	0.37	0.31	e0.10	2.00	---	8.96	2.88	0.10	0.38	0.03	0.03	0.00
30	0.55	0.32	e0.10	0.52	---	9.83	3.02	0.10	0.46	0.03	0.02	0.00
31	0.54	---	e0.11	0.48	---	9.41	---	0.05	---	0.05	0.00	---
TOTAL	11.98	11.06	5.21	235.52	1,364.87	269.53	109.58	95.30	21.62	6.45	3.05	0.59

WTR YR 2005 TOTAL 2,134.76

e Estimated

05431022 DELAVAN LAKE OUTLET AT BORG ROAD NEAR DELAVAN, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Phosphorus, water, unfltrd mg/L (00665)
OCT				
24...	0955	1.3	10	.07
NOV				
02...	0940	1.3	10	.06
DEC				
06...	0950	1.3	10	.04
09...	1025	1.2	10	.05
12...	0910	.75	10	.04
JAN				
03...	0940	18	10	.04
05...	1100	17	10	.05
13...	1345	29	10	.06
14...	0955	30	10	.06
FEB				
06...	0945	5.8	10	.07
07...	1040	37	10	.08
08...	0945	124	10	.07
14...	0915	80	10	.11
16...	0955	100	10	.27
18...	0900	96	10	.30
MAR				
07...	0950	14	10	.11
APR				
04...	1010	18	10	.06
MAY				
02...	0940	12	10	E.04
06...	1330	7.4	10	.17
12...	0925	11	10	.08
14...	1005	8.4	10	.06
JUN				
05...	0925	.06	10	.20
13...	1000	2.9	10	.16
26...	0935	.21	10	.10
JUL				
05...	0930	1.3	10	.06
23...	0945	.35	10	.04
AUG				
01...	1030	.27	10	.05
14...	0940	.10	10	.05
22...	0855	.06	10	.04
SEP				
06...	1105	.08	10	E.04
27...	0945	.02	10	E.03
29...	0955	.01	10	E.03

05431032 TURTLE CREEK AT DELAVAN, WI

LOCATION.--Lat 42°38'13", long 88°39'27", in NW ¼ NW ¼ sec.18, T.2 N., R.16 E., Walworth County, Hydrologic Unit 07090001, on left bank 0.1 mi downstream from bridge on County Highway P, 0.7 mi northwest of Post Office at Delavan.

DRAINAGE AREA.--83.3 mi^2, of which 2.33 mi^2 is noncontributing.

PERIOD OF RECORD.--June 1996 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 873.00 ft above NGVD of 1929 (levels by U.S. Geological Survey).

REMARKS.--Records good (see Introduction). Some seasonal regulation caused by dams used to maintain levels of Comus and Delavan Lakes and Delavan Millpond. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	26	20	18	19	38	61	24	13	11	17	8.2
2	16	25	19	53	19	37	57	24	12	11	21	8.3
3	14	23	19	50	20	35	55	18	12	11	17	8.5
4	14	24	19	44	21	34	53	16	11	12	16	8.5
5	14	21	19	37	28	34	49	17	17	12	14	8.2
6	14	21	21	37	70	37	50	20	13	14	13	7.7
7	14	20	32	53	189	49	67	19	14	14	12	7.6
8	15	19	26	53	215	52	69	18	14	14	11	7.4
9	15	18	26	51	192	47	63	19	14	15	10	7.1
10	15	18	25	44	127	44	59	19	13	12	9.6	7.0
11	15	19	23	32	95	42	54	29	15	11	9.7	6.8
12	15	19	21	58	96	42	56	28	13	13	23	7.0
13	15	18	21	102	115	40	52	29	21	12	12	8.0
14	15	17	18	93	224	39	52	28	15	11	11	7.6
15	16	18	17	84	235	40	50	27	15	11	11	7.5
16	15	18	17	71	203	39	32	23	15	10	11	8.3
17	14	18	16	61	141	40	28	20	14	12	11	7.1
18	14	18	16	51	120	39	28	20	13	12	14	7.0
19	14	22	16	55	121	49	27	26	13	10	12	8.6
20	14	21	15	52	121	55	30	24	12	14	19	8.2
21	14	20	15	50	111	53	26	26	12	15	13	8.6
22	14	19	15	48	62	50	28	25	11	13	13	13
23	22	19	14	49	48	47	30	24	11	16	15	9.5
24	17	18	14	48	44	49	35	23	9.8	14	14	9.0
25	17	17	14	48	42	61	31	22	9.9	14	12	41
26	18	17	14	47	40	59	25	17	16	14	12	42
27	17	23	14	41	38	58	25	17	11	14	17	25
28	16	21	14	31	39	52	24	16	11	13	9.0	23
29	16	21	15	25	---	55	24	15	12	13	8.7	17
30	22	20	15	18	---	61	24	15	16	12	8.5	10
31	19	---	18	18	---	65	---	14	---	12	8.4	---
TOTAL	485	598	568	1,522	2,795	1,442	1,264	662	398.7	392	404.9	352.7
MEAN	15.6	19.9	18.3	49.1	99.8	46.5	42.1	21.4	13.3	12.6	13.1	11.8
MAX	22	26	32	102	235	65	69	29	21	16	23	42
MIN	14	17	14	18	19	34	24	14	9.8	10	8.4	6.8
CFSM	0.19	0.25	0.23	0.61	1.23	0.57	0.52	0.26	0.16	0.16	0.16	0.15
IN.	0.22	0.27	0.26	0.70	1.28	0.66	0.58	0.30	0.18	0.18	0.19	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	30.8	30.6	31.1	38.7	71.1	60.1	66.5	62.4	84.7	30.7	24.1	28.9
MAX	74.1	56.3	48.2	72.4	122	103	106	114	171	62.6	68.3	72.7
(WY)	(2002)	(2002)	(2002)	(1999)	(2001)	(2001)	(1999)	(2004)	(1996)	(2000)	(1998)	(2001)
MIN	10.4	17.2	18.0	16.3	16.7	27.4	26.9	21.4	13.3	12.6	11.4	10.2
(WY)	(2004)	(1998)	(2003)	(2003)	(2003)	(2003)	(2003)	(2005)	(2005)	(2005)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL TOTAL	14,872		10,884.3			
ANNUAL MEAN	40.6		29.8		45.8	
HIGHEST ANNUAL MEAN					61.2	2001
LOWEST ANNUAL MEAN					24.3	2003
HIGHEST DAILY MEAN	291	May 24	235	Feb 15	404	Jun 15, 1999
LOWEST DAILY MEAN	11	Sep 24	6.8	Sep 11	6.6	Sep 10, 11 2003
ANNUAL SEVEN-DAY MINIMUM	12	Sep 20	7.2	Sep 6	7.2	Sep 6, 2005
MAXIMUM PEAK FLOW			258	Feb 14	493	Feb 21, 1997
MAXIMUM PEAK STAGE			2.99	Feb 14	3.78	Feb 21, 1997
INSTANTANEOUS LOW FLOW			6.6	Sep 11, 15	6.5	Sep 9-12, 2003
ANNUAL RUNOFF (CFSM)	0.502		0.368		0.565	
ANNUAL RUNOFF (INCHES)	6.83		5.00		7.68	
10 PERCENT EXCEEDS	110		55		100	
50 PERCENT EXCEEDS	20		18		29	
90 PERCENT EXCEEDS	14		11		14	

05431486 TURTLE CREEK AT CARVERS ROCK ROAD NEAR CLINTON, WI

LOCATION.--Lat 42°35'50", long 88°49'45", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.27, T.2 N., R.14 E., Rock County, Hydrologic Unit 07090001, on left bank 25 ft downstream from bridge on Carvers Rock Road, 3.3 mi northeast of Clinton, 13 mi northeast of Beloit, and 17.8 mi upstream from mouth.

DRAINAGE AREA.--199 mi^2, of which 2.33 mi^2 is noncontributing.

PERIOD OF RECORD.--September 1939 to current year. Prior to January 1980, all records published as "Turtle Creek near Clinton" (05431500).

REVISED RECORDS.--WSP 955: 1940. WSP 1308: 1950(M). WDR WI-71-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 823 ft above NGVD of 1929, from topographic map. Prior to January 17, 1940, non-recording gage, and January 17, 1940 to December 31, 1979, water-stage recorder at site 1.8 mi downstream at a different datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair (see Introduction). Some seasonal regulation caused by dams used to maintain levels of Comus and Delavan Lakes and Delavan Millpond. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	78	76	e72	e70	106	139	76	60	54	42	40
2	67	98	74	166	e72	102	132	77	57	48	43	39
3	64	87	71	133	e74	100	125	76	56	45	51	38
4	61	83	71	109	e75	100	121	67	56	49	51	38
5	61	80	72	e90	e82	103	117	65	59	52	47	38
6	61	75	79	e90	e270	147	117	65	60	48	45	36
7	62	73	99	e170	1,120	246	174	72	54	48	42	35
8	67	71	121	e200	628	168	143	67	54	45	41	34
9	65	69	98	e160	363	136	136	73	54	44	40	35
10	63	69	91	e110	281	124	126	79	53	42	39	34
11	63	68	87	90	190	e110	121	86	53	42	39	33
12	63	68	82	125	184	e100	118	94	55	43	56	33
13	64	70	e70	573	365	e98	125	94	55	46	61	35
14	64	70	e68	261	1,360	e98	113	94	64	45	48	40
15	65	69	e67	e250	779	99	115	88	58	42	45	39
16	64	76	e67	e230	453	100	103	83	57	41	44	39
17	63	74	e63	e220	318	104	92	77	54	40	42	38
18	64	70	e60	e210	e200	107	88	73	53	39	46	37
19	64	75	e54	e210	e200	208	86	85	50	38	49	40
20	65	81	e66	e210	e190	208	90	134	49	45	62	40
21	64	76	e66	e200	e190	151	86	111	48	62	60	38
22	64	72	e61	e190	e170	135	87	98	47	64	49	42
23	73	72	e58	e190	143	125	88	88	46	52	45	48
24	76	69	e58	e190	128	121	89	82	45	53	46	42
25	69	68	e58	e180	122	126	91	78	47	52	45	59
26	71	67	e58	e180	120	132	85	73	70	50	44	150
27	73	77	e58	e150	113	132	80	69	61	49	46	89
28	69	91	e58	e110	113	132	79	68	50	47	51	71
29	69	82	e60	e84	---	130	77	66	47	46	44	74
30	77	79	e62	e69	---	139	76	65	51	45	42	59
31	76	---	e70	e69	---	144	---	62	---	44	42	---
TOTAL	2,052	2,257	2,203	5,291	8,373	4,031	3,219	2,485	1,623	1,460	1,447	1,413
MEAN	66.2	75.2	71.1	171	299	130	107	80.2	54.1	47.1	46.7	47.1
MAX	77	98	121	573	1,360	246	174	134	70	64	62	150
MIN	61	67	54	69	70	98	76	62	45	38	39	33
CFSM	0.34	0.38	0.36	0.87	1.52	0.66	0.55	0.41	0.28	0.24	0.24	0.24
IN.	0.39	0.43	0.42	1.00	1.58	0.76	0.61	0.47	0.31	0.28	0.27	0.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

MEAN	101	109	104	107	145	221	175	132	128	98.0	86.1	95.0
MAX	312	388	343	315	518	664	758	486	407	458	278	482
(WY)	(1974)	(1986)	(1983)	(1946)	(1949)	(1959)	(1973)	(1973)	(1993)	(1978)	(1972)	(1972)
MIN	30.1	37.9	34.5	24.5	30.4	55.4	52.7	31.6	35.2	24.8	21.5	19.6
(WY)	(1958)	(1950)	(1965)	(1959)	(1959)	(1954)	(1958)	(1958)	(1965)	(1958)	(1958)	(1958)

05431486 TURTLE CREEK AT CARVERS ROCK ROAD NEAR CLINTON, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	42,327		35,854			
ANNUAL MEAN	116		98.2		125	
HIGHEST ANNUAL MEAN					289	1973
LOWEST ANNUAL MEAN					43.0	1958
HIGHEST DAILY MEAN	757	May 23	1,360	Feb 14	6,400	Apr 21, 1973
LOWEST DAILY MEAN	(a)42	Feb 1	33	Sep 11, 12	16	Sep 13, 1958
ANNUAL SEVEN-DAY MINIMUM	(a)43	Jan 29	34	Sep 7	17	Sep 9, 1958
MAXIMUM PEAK FLOW			1,490	Feb 14	(b)16,500	Apr 21, 1973
MAXIMUM PEAK STAGE			7.68	Feb 14	(c)12.85	Apr 21, 1973
INSTANTANEOUS LOW FLOW			(d)25	Dec 19	(d)8.0	Dec 29, 1956
ANNUAL RUNOFF (CFSM)	0.588		0.499		0.635	
ANNUAL RUNOFF (INCHES)	8.01		6.78		8.63	
10 PERCENT EXCEEDS	261		170		230	
50 PERCENT EXCEEDS	78		70		85	
90 PERCENT EXCEEDS	56		42		44	

(a) Ice affected
(b) From rating curve extended above 6,500 ft^3/s on basis of slope-area measurement of peak flow
(c) Site and datum then in use
(d) Result of freezeup
(e) Estimated

054322653 BREWERY CREEK TRIBUTARY UPSTREAM SITE NEAR MINERAL POINT, WI

LOCATION.--Lat 42°52'54", long 90°07'52", Iowa County, Hydrologic Unit 07090003, 2 mi southwest of intersection of Sunny Ridge Rd. and Antoine Rd., 1000 ft east of private drive off Antoine Rd.., 3 mi northeast of Mineral Point.

DRAINAGE AREA.--526 acres.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 2004 to September 2005.

GAGE.--Water-stage recorder. Water levels are controlled by 1.5 ft H flume. Elevation of gage is 1,105 ft above NGVD of 1929, from topographic map.

REMARKS.--Records are excellent except for Feb. 6-8, 14-15 and Mar. 6-8, 2005. The flume overtopped during these days and unit-value data were estimated using sharp-crested weir equations. These days should be considered fair. Daily discharges were estimated for Sept. 1-9, 2004. These days should be considered poor (see Introduction).

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	---	---	---	---	---	---	---	---	---	---	---	e0.203
2	---	---	---	---	---	---	---	---	---	---	---	e0.203
3	---	---	---	---	---	---	---	---	---	---	---	e0.202
4	---	---	---	---	---	---	---	---	---	---	---	e0.202
5	---	---	---	---	---	---	---	---	---	---	---	e0.201
6	---	---	---	---	---	---	---	---	---	---	---	e0.202
7	---	---	---	---	---	---	---	---	---	---	---	e0.203
8	---	---	---	---	---	---	---	---	---	---	---	e0.202
9	---	---	---	---	---	---	---	---	---	---	---	e0.202
10	---	---	---	---	---	---	---	---	---	---	---	0.201
11	---	---	---	---	---	---	---	---	---	---	---	0.202
12	---	---	---	---	---	---	---	---	---	---	---	0.196
13	---	---	---	---	---	---	---	---	---	---	---	0.192
14	---	---	---	---	---	---	---	---	---	---	---	0.201
15	---	---	---	---	---	---	---	---	---	---	---	0.342
16	---	---	---	---	---	---	---	---	---	---	---	0.253
17	---	---	---	---	---	---	---	---	---	---	---	0.195
18	---	---	---	---	---	---	---	---	---	---	---	0.186
19	---	---	---	---	---	---	---	---	---	---	---	0.173
20	---	---	---	---	---	---	---	---	---	---	---	0.171
21	---	---	---	---	---	---	---	---	---	---	---	0.175
22	---	---	---	---	---	---	---	---	---	---	---	0.163
23	---	---	---	---	---	---	---	---	---	---	---	0.167
24	---	---	---	---	---	---	---	---	---	---	---	0.195
25	---	---	---	---	---	---	---	---	---	---	---	0.168
26	---	---	---	---	---	---	---	---	---	---	---	0.167
27	---	---	---	---	---	---	---	---	---	---	---	0.174
28	---	---	---	---	---	---	---	---	---	---	---	0.163
29	---	---	---	---	---	---	---	---	---	---	---	0.160
30	---	---	---	---	---	---	---	---	---	---	---	0.168
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	5.832
MEAN	---	---	---	---	---	---	---	---	---	---	---	0.19
MAX	---	---	---	---	---	---	---	---	---	---	---	0.342
MIN	---	---	---	---	---	---	---	---	---	---	---	0.160
CFSM	---	---	---	---	---	---	---	---	---	---	---	0.24
IN.	---	---	---	---	---	---	---	---	---	---	---	0.26

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

MEAN	---	---	---	---	---	---	---	---	---	---	---	0.19
MAX	---	---	---	---	---	---	---	---	---	---	---	0.19
(WY)	---	---	---	---	---	---	---	---	---	---	---	(2004)
MIN	---	---	---	---	---	---	---	---	---	---	---	0.19
(WY)	---	---	---	---	---	---	---	---	---	---	---	(2004)

054322653 BREWERY CREEK TRIBUTARY UPSTREAM SITE NEAR MINERAL POINT, WI—Continued

SUMMARY STATISTICS	FOR 2004 WATER YEAR (September)	
ANNUAL TOTAL	5.832	
ANNUAL MEAN	0.19	
HIGHEST DAILY MEAN	0.342	Sep 15
LOWEST DAILY MEAN	0.160	Sep 29
ANNUAL SEVEN-DAY MINIMUM	0.17	Sep 23
MAXIMUM PEAK FLOW	0.63	Sep 15
MAXIMUM PEAK STAGE	0.58	Sep 15
INSTANTANEOUS LOW FLOW	0.14	Sep 28
ANNUAL RUNOFF (CFSM)	0.237	
ANNUAL RUNOFF (INCHES)	0.26	
10 PERCENT EXCEEDS	0.20	
50 PERCENT EXCEEDS	0.20	
90 PERCENT EXCEEDS	0.16	

(e) Estimated

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.216	0.200	0.140	0.132	0.112	0.161	0.155	0.098	0.063	0.044	0.033	e0.027
2	0.204	0.205	0.137	0.438	0.112	0.149	0.149	0.097	0.064	0.040	0.031	0.030
3	0.172	0.165	0.139	0.195	0.115	0.149	0.149	0.095	0.066	0.044	0.036	e0.028
4	0.169	0.209	0.152	0.147	0.114	0.229	0.148	0.093	0.078	0.068	0.040	e0.026
5	0.153	0.168	0.145	0.180	0.128	2.170	0.154	0.096	0.241	0.060	0.034	e0.025
6	0.163	0.175	0.233	0.175	3.048	4.295	0.223	0.139	0.079	0.046	0.028	e0.020
7	0.165	0.148	0.259	0.131	5.518	2.237	0.173	0.124	0.060	0.043	0.028	0.017
8	0.264	0.139	0.173	0.126	0.465	0.324	0.132	0.135	0.055	0.040	0.030	0.015
9	0.178	0.149	0.169	0.135	0.223	0.258	0.124	0.263	0.062	0.039	0.038	0.017
10	0.162	0.163	0.187	0.127	0.173	0.292	0.129	0.114	0.073	0.037	0.053	0.013
11	0.162	0.145	0.149	0.148	0.169	0.265	0.125	0.253	0.115	0.036	0.050	0.009
12	0.172	0.143	0.157	0.240	0.187	0.229	0.208	0.104	0.165	0.036	0.069	0.007
13	0.182	0.145	0.127	0.548	3.370	0.201	0.118	0.174	0.071	0.051	0.044	0.028
14	0.177	0.146	0.114	0.204	4.759	0.196	0.113	0.114	0.065	0.039	0.036	0.016
15	0.178	0.169	0.124	0.139	2.180	0.280	0.112	0.095	0.063	0.034	0.029	0.008
16	0.175	0.180	0.139	0.129	0.596	0.290	0.122	0.090	0.050	0.030	0.028	0.009
17	0.155	0.180	0.126	0.121	0.240	0.244	0.133	0.092	0.047	0.029	0.024	0.010
18	0.164	0.181	0.142	0.122	0.198	0.505	0.118	0.095	0.041	0.027	0.177	0.012
19	0.215	0.213	0.111	0.149	0.196	0.257	0.144	0.173	0.044	0.022	0.065	0.154
20	0.168	0.185	0.125	0.138	0.237	0.355	0.228	0.091	0.042	0.052	0.033	0.025
21	0.163	0.147	0.133	0.175	0.192	0.261	0.107	0.086	0.046	0.063	0.020	0.015
22	0.195	0.149	0.107	0.175	0.184	0.234	0.171	0.092	0.038	0.047	0.015	0.023
23	0.419	0.157	0.102	0.126	0.170	0.237	0.095	0.080	0.037	0.123	0.017	0.012
24	0.191	0.137	0.102	0.145	0.170	0.225	0.095	0.074	0.053	0.098	0.019	0.031
25	0.156	0.135	0.117	0.148	0.189	0.221	0.117	0.073	0.448	0.082	0.023	0.214
26	0.212	0.150	0.113	0.130	0.186	0.210	0.119	0.075	0.301	0.317	0.030	0.053
27	0.192	0.221	0.106	0.120	0.181	0.213	0.103	0.073	0.098	0.074	0.035	0.023
28	0.171	0.158	0.124	0.123	0.182	0.213	0.095	0.075	0.069	0.039	e0.026	0.052
29	0.205	0.136	0.122	0.126	---	0.204	0.098	0.078	0.066	0.035	e0.026	0.028
30	0.250	0.138	0.144	0.119	---	0.268	0.096	0.078	0.065	0.031	e0.024	0.021
31	0.166	---	0.146	0.117	---	0.196	---	0.064	---	0.034	e0.027	---
TOTAL	5.914	4.936	4.364	5.228	23.594	15.568	4.053	3.383	2.765	1.760	1.168	0.968
MEAN	0.19	0.16	0.14	0.17	0.84	0.50	0.14	0.11	0.09	0.06	0.04	0.03
MAX	0.419	0.221	0.259	0.548	5.518	4.295	0.228	0.263	0.448	0.317	0.177	0.214
MIN	0.153	0.135	0.102	0.117	0.112	0.149	0.095	0.064	0.037	0.022	0.015	0.007
CFSM	0.23	0.20	0.17	0.21	1.03	0.61	0.16	0.13	0.11	0.07	0.05	0.04
IN.	0.27	0.22	0.20	0.24	1.07	0.71	0.18	0.15	0.13	0.08	0.05	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	0.19	0.16	0.14	0.17	0.84	0.50	0.14	0.11	0.09	0.06	0.04	0.11
MAX	0.19	0.16	0.14	0.17	0.84	0.50	0.14	0.11	0.09	0.06	0.04	0.19
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
MIN	0.19	0.16	0.14	0.17	0.84	0.50	0.14	0.11	0.09	0.06	0.04	0.03
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

054322653 BREWERY CREEK TRIBUTARY UPSTREAM SITE NEAR MINERAL POINT, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR (September - December)		FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005 (September - September	
ANNUAL TOTAL	21.046		73.701			
ANNUAL MEAN	0.17		0.20		0.20	
HIGHEST ANNUAL MEAN					0.20	2005
LOWEST ANNUAL MEAN					0.19	2004
HIGHEST DAILY MEAN	0.419	Oct 23	5.518	Feb 7	5.518	Feb 7, 2005
LOWEST DAILY MEAN	0.102	Dec 23	0.007	Sep 12	0.007	Sep 12, 2005
ANNUAL SEVEN-DAY MINIMUM	0.11	Dec 22	0.01	Sep 11	0.01	Sep 11, 2005
MAXIMUM PEAK FLOW			12.4	Mar 6	12.4	Mar 6, 2005
MAXIMUM PEAK STAGE			1.83	Mar 6	1.83	Mar 6, 2005
INSTANTANEOUS LOW FLOW			0.005	Sep 12	0.005	Sep 12, 2005
ANNUAL RUNOFF (CFSM)	0.210		0.246		0.246	
ANNUAL RUNOFF (INCHES)	0.95		3.34		3.34	
10 PERCENT EXCEEDS	0.21		0.24		0.24	
50 PERCENT EXCEEDS	0.17		0.13		0.14	
90 PERCENT EXCEEDS	0.13		0.03		0.03	

(e)Estimated

054322653 BREWERY CREEK TRIBUTARY UPSTREAM SITE NEAR MINERAL POINT, WI—Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--September 2004 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: September 2004 to current year.

INSTRUMENTATION.--Continuous water temperature recorder and water-quality sampler September 2004 to current year.

REMARKS.--Records represent water temperature at sensor within 0.5°C. Max., Min., Mean water temperature estimated for Dec. 9-10, 2004. Records are fair. Chemical analyses by the Wisconsin State Laboratory of Hygiene. Samples collected during periods of non-stormflow are grab samples. Samples during storms are composite samples collected by an automatic point sampler. The sample runoff volume is the total flow that occurs between the first and last subsample of each flow-composite sample. The storm runoff volume is the total flow that occurs between the start of the storm and the end of the storm. In most cases, the sample runoff volume is slightly different than the storm runoff volume. If the sample runoff volume and the storm runoff volume are comparable, a storm load (in pounds) can be computed by multiplying the storm volume (in thousands of cubic feet) by the constituent concentration (in mg/L) by a factor of 6.2428x10^-5.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum temperature, 28.0°C, Jun. 27, 2005; minimum, 0.0°C, many days.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum temperature, 28.0°C, Jun. 27; minimum, 0.0°C, many days.

STORM VOLUMES AND SAMPLE SUMMARY, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Storm Beginning Date	Storm Beginning Time	Storm Ending Date	Storm Ending Time	Storm Runoff Volume, Cubic Feet	Peak Discharge (CFS)	Number of Subsamples
09-15-04	1145	09-16-04	0700	28816	0.63	20

STORM VOLUMES AND SAMPLE SUMMARY, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

10-22-04	1600	10-24-04	0230	45508	0.69	21
10-26-04	1200	10-27-05	0400	15161	0.34	7
12-07-04	0330	12-07-05	1900	15979	0.367	11
01-01-05	1900	01-03-05	1000	49298	0.62	21
01-12-05	1330	01-14-05	1200	71057	0.69	19
02-05-05	1345	02-08-05	1730	779166	10.87	27
02-13-05	0830	02-17-05	0900	944284	9.89	31
03-04-05	1620	03-05-05	1215	21628	0.48	6
03-05-05	1215	03-06-05	1039	213245	6.60	6
03-07-05	0118	03-08-05	1200	188899	5.68	11
03-18-05	1215	03-19-05	0700	43170	1.44	5
03-30-05	1200	03-31-05	0030	14758	0.48	9
04-06-05	1800	04-07-05	0330	13155	0.53	8
04-19-05	2244	04-20-05	0600	12789	0.80	14
05-09-05	1238	05-09-05	1845	6121	0.36	5
05-11-05	0315	05-11-05	1640	16850	0.57	12
06-05-05	0033	06-05-05	1030	13717	0.59	19
06-11-05	2003	06-12-05	1000	13102	0.42	7
06-24-05	2012	06-25-05	2153	36721	0.76	15
06-25-05	2153	06-26-05	1630	25170	0.64	16
07-25-05	1915	07-26-05	2015	28486	0.63	12
08-18-05	0720	08-19-05	0315	15953	0.39	2

054322653 BREWERY CREEK TRIBUTARY UPSTREAM SITE NEAR MINERAL POINT, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	---	---	---
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MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
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MONTH	---	---	---	---	---	---	---	---	---	---	---	---

054322653 BREWERY CREEK TRIBUTARY UPSTREAM SITE NEAR MINERAL POINT, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
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13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	20.5	17.0	18.5
26	---	---	---	---	---	---	---	---	---	20.0	16.5	18.0
27	---	---	---	---	---	---	---	---	---	19.0	16.0	17.5
28	---	---	---	---	---	---	---	---	---	18.5	15.0	16.5
29	---	---	---	---	---	---	---	---	---	18.5	14.0	16.0
30	---	---	---	---	---	---	---	---	---	17.5	14.0	15.5
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	20.5	14.0	17.0
YEAR	20.5	14.0	17.0									

054322653 BREWERY CREEK TRIBUTARY UPSTREAM SITE NEAR MINERAL POINT, WI—Continued

WATER QUALITY RECORDS--Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.5	14.0	15.0	11.0	9.5	10.5	6.0	3.0	4.0	1.5	1.0	1.0
2	16.0	12.5	13.5	11.0	9.0	10.0	5.5	4.0	4.5	1.5	1.0	1.5
3	15.5	12.0	13.5	11.0	9.0	9.5	5.5	3.5	4.0	1.5	1.0	1.0
4	14.5	11.5	12.5	11.5	8.5	9.5	6.5	4.0	4.5	1.5	1.0	1.0
5	14.0	10.5	12.0	11.0	7.5	8.5	6.0	3.5	4.5	1.0	0.5	1.0
6	14.5	11.0	12.5	11.0	7.5	9.0	4.5	4.0	4.0	2.5	0.5	1.0
7	13.5	12.0	12.5	10.5	7.0	8.5	5.0	3.5	4.0	1.5	0.5	1.0
8	15.5	13.0	14.0	8.5	6.5	7.5	5.5	4.0	4.5	2.0	1.0	1.5
9	15.5	12.5	14.0	9.5	6.5	7.5	e5.0	e3.5	e4.5	2.0	1.0	1.5
10	15.5	12.0	13.5	9.5	7.0	8.0	e4.5	e3.0	e4.0	2.0	1.0	1.5
11	15.0	12.0	13.5	8.5	5.5	6.5	4.0	3.0	3.5	2.0	1.0	1.5
12	14.5	12.0	13.0	8.0	4.5	5.5	3.5	1.5	3.0	2.0	1.5	1.5
13	13.0	12.0	12.5	7.5	4.0	5.0	2.0	0.0	1.0	1.5	0.0	1.0
14	12.0	11.0	11.5	7.0	4.0	5.0	2.0	0.0	0.5	1.5	0.0	0.5
15	12.5	10.5	11.5	6.0	4.5	5.5	2.0	0.0	1.0	2.0	0.0	0.5
16	10.5	9.0	10.0	7.5	5.5	6.5	2.5	1.0	1.5	2.0	0.5	0.5
17	11.5	8.1	9.5	10.5	7.0	8.5	3.0	1.0	1.5	2.0	0.0	0.5
18	10.5	9.3	9.5	10.0	9.0	9.5	2.5	0.0	1.5	2.5	0.5	1.5
19	10.0	9.1	9.5	9.5	9.0	9.0	2.5	0.0	1.0	3.0	1.5	2.0
20	10.0	9.3	9.5	9.5	7.5	8.5	2.5	1.0	1.5	1.5	1.0	1.5
21	11.5	9.5	10.0	8.0	6.0	7.0	2.5	1.5	2.0	1.5	0.5	1.0
22	11.0	9.5	10.5	7.5	6.0	6.5	3.0	2.0	2.0	1.0	0.0	0.5
23	14.0	11.0	12.0	8.0	5.5	6.5	3.0	1.5	2.0	2.0	0.0	0.5
24	14.0	11.0	12.5	5.5	3.5	4.5	2.5	1.5	2.0	2.5	0.0	1.0
25	14.0	11.0	12.0	5.5	2.5	4.0	2.0	1.5	2.0	2.5	0.5	1.0
26	11.5	11.0	11.5	4.5	3.5	4.0	2.5	0.5	1.5	2.0	0.0	1.0
27	12.0	11.0	11.5	5.0	4.0	4.0	2.0	1.0	1.5	2.0	0.0	0.5
28	12.5	11.0	12.0	5.0	3.0	3.5	2.0	1.0	1.5	1.5	0.0	0.5
29	15.5	12.5	14.0	5.0	3.0	3.5	1.5	1.0	1.5	2.0	0.5	1.0
30	14.5	11.5	12.5	5.0	2.5	3.5	2.5	1.5	2.0	2.0	0.5	1.0
31	12.0	10.5	11.5	---	---	---	2.5	1.0	1.5	2.0	1.0	1.0
MONTH	16.0	8.1	12.0	11.5	2.5	6.8	6.5	0.0	2.5	3.0	0.0	1.0
		FEBRUARY			MARCH			APRIL			MAY	
1	2.0	1.0	1.5	3.0	0.0	1.0	10.0	6.0	8.0	11.0	9.0	10.0
2	2.0	0.5	1.5	3.0	0.0	1.0	11.5	6.0	8.5	10.5	7.5	9.0
3	3.0	0.5	1.5	3.0	0.0	1.0	13.5	7.5	10.5	13.5	7.0	10.0
4	3.0	0.5	1.5	2.5	0.5	1.5	13.5	9.5	11.5	14.0	8.0	11.0
5	3.0	1.0	1.5	3.0	0.0	1.5	14.5	11.0	13.0	15.0	10.0	12.5
6	2.0	0.0	1.5	2.0	0.0	0.5	17.0	13.5	15.0	17.5	12.0	14.5
7	0.0	0.0	0.0	2.0	0.0	1.0	15.5	12.5	14.0	16.5	14.0	15.0
8	0.5	0.0	0.0	3.5	0.5	2.0	16.0	12.0	14.0	18.0	14.0	16.0
9	1.0	0.0	0.5	4.5	1.0	2.5	15.5	12.0	13.5	18.5	16.5	17.0
10	2.0	0.0	0.5	2.5	1.0	2.0	17.0	13.0	15.0	20.0	16.0	18.0
11	2.5	0.5	1.0	3.5	1.0	1.5	17.0	14.5	15.5	18.0	14.5	17.0
12	2.5	0.5	1.0	2.5	0.5	1.0	15.0	12.0	13.0	14.5	12.5	13.5
13	1.5	0.0	1.0	3.5	0.5	1.5	14.5	10.0	12.0	14.0	12.0	13.0
14	0.5	0.0	0.0	2.5	0.5	1.5	16.0	10.5	13.0	15.5	12.0	13.5
15	1.0	0.0	0.5	4.0	0.5	1.5	16.0	11.5	13.5	15.0	12.5	13.5
16	1.5	0.0	0.5	4.0	0.5	1.5	14.5	12.5	13.5	16.0	11.5	13.5
17	2.0	0.5	1.0	2.0	0.5	1.0	17.0	12.5	14.5	16.5	13.0	14.5
18	2.5	0.5	1.5	3.0	0.5	1.5	18.0	14.0	16.0	16.5	14.0	15.0
19	2.5	1.0	1.5	2.0	1.0	1.0	18.5	15.5	17.0	18.5	15.0	16.5
20	1.5	1.0	1.5	3.5	0.5	1.5	17.0	15.0	16.5	19.0	15.0	17.0
21	2.5	1.0	1.5	4.0	0.5	2.0	17.0	13.5	15.0	17.5	15.0	16.5
22	3.0	0.0	1.5	3.0	0.5	2.0	15.0	12.0	14.0	21.5	15.5	18.0
23	3.0	0.0	1.0	4.0	1.0	2.0	13.5	9.0	11.0	19.5	16.5	18.0
24	3.0	0.5	1.5	3.5	1.0	2.0	13.5	7.5	10.0	21.0	16.0	18.0
25	3.5	0.5	1.5	3.5	1.5	2.5	12.5	9.0	10.5	20.0	16.5	18.5
26	3.0	0.5	1.5	6.0	1.5	3.0	12.0	9.0	10.5	21.0	17.0	19.0
27	2.0	0.5	1.5	7.0	2.0	4.0	12.5	9.0	10.5	20.0	16.5	18.0
28	3.0	0.5	1.5	8.0	2.5	4.5	14.5	8.5	11.5	19.0	16.0	17.5
29	---	---	---	7.5	3.5	5.0	14.0	9.5	12.0	18.5	16.0	16.5
30	---	---	---	8.5	4.0	5.5	13.0	9.5	11.0	21.0	15.5	18.0
31	---	---	---	10.0	5.0	7.0	---	---	---	22.0	16.5	19.0
MONTH	3.5	0.0	1.1	10.0	0.0	2.2	18.5	6.0	12.8	22.0	7.0	15.4

054322653 BREWERY CREEK TRIBUTARY UPSTREAM SITE NEAR MINERAL POINT, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.5	17.5	19.5	23.5	20.0	22.0	27.0	20.5	23.0	24.0	17.5	20.0
2	22.5	18.0	20.0	23.5	18.5	21.0	26.0	21.0	23.5	23.5	15.5	18.5
3	20.5	18.5	19.5	22.0	19.0	20.5	25.0	22.0	23.5	23.0	15.0	18.5
4	22.0	18.5	20.0	22.0	19.5	21.0	25.0	21.5	23.5	21.5	16.5	18.5
5	23.5	19.5	21.5	24.5	19.5	22.0	24.5	20.0	22.0	24.5	17.5	20.0
6	25.0	19.5	22.0	23.0	20.0	21.5	24.0	19.0	21.0	21.5	18.0	19.0
7	26.0	20.5	23.0	24.5	19.5	22.0	25.5	18.5	21.5	21.5	17.0	19.0
8	24.5	21.5	23.0	24.5	19.5	22.5	26.5	19.0	22.0	21.0	17.5	18.5
9	24.5	21.0	22.5	25.5	20.5	23.0	25.5	20.0	22.0	24.0	17.5	20.0
10	25.0	21.0	23.0	25.5	21.0	23.0	25.0	22.0	23.0	24.5	18.5	20.5
11	26.0	22.5	24.0	24.5	20.5	22.5	23.0	21.0	22.0	24.5	18.0	20.5
12	27.0	23.5	25.0	25.0	21.0	22.5	24.0	21.0	22.5	23.5	17.5	20.0
13	26.0	23.0	24.5	26.5	21.0	23.5	21.5	19.5	20.5	22.0	17.0	20.0
14	23.5	21.5	22.5	26.0	21.5	24.0	22.0	18.0	20.0	21.0	17.0	19.5
15	22.0	19.5	21.0	27.5	22.0	24.5	22.0	18.0	20.0	17.5	15.5	16.5
16	23.5	18.0	20.5	26.5	21.5	24.0	24.0	18.0	20.5	21.0	14.5	16.5
17	23.0	18.0	20.5	27.0	22.0	24.5	23.5	18.0	20.0	21.0	14.5	17.0
18	23.5	18.0	20.5	25.5	22.0	23.5	24.5	19.0	22.0	21.5	15.5	18.0
19	24.0	18.5	21.0	25.5	19.5	22.5	25.0	21.0	23.0	21.5	17.0	19.0
20	25.5	19.0	22.0	26.0	20.5	23.0	24.5	21.0	23.0	20.5	16.5	18.5
21	26.0	20.5	23.0	25.5	22.5	24.0	23.5	19.0	21.0	21.5	16.5	18.5
22	26.5	20.5	23.0	27.0	22.0	24.5	21.0	17.5	19.0	19.5	17.0	18.0
23	26.5	20.0	23.0	25.0	21.5	23.5	20.0	16.5	18.0	19.5	15.0	17.0
24	27.5	21.0	24.0	27.5	23.0	25.0	20.0	17.0	18.5	17.0	15.0	16.0
25	27.0	22.5	25.0	26.5	24.0	25.5	20.0	18.0	19.0	19.0	16.5	17.5
26	27.0	24.0	25.0	25.5	22.0	24.0	20.0	18.0	19.5	19.5	15.5	17.5
27	28.0	23.0	25.5	24.0	20.5	22.0	22.0	19.0	20.5	19.0	14.0	16.5
28	25.5	23.5	24.5	23.5	19.0	21.5	22.0	18.0	19.5	16.0	14.0	15.5
29	27.0	22.0	24.5	24.0	19.0	21.5	21.0	17.5	19.0	16.5	12.0	14.0
30	27.0	22.5	24.0	24.0	19.5	21.5	21.5	17.5	19.5	16.0	11.5	13.5
31	---	---	---	25.5	21.0	23.0	24.0	17.0	19.0	---	---	---
MONTH	28.0	17.5	22.6	27.5	18.5	22.9	27.0	16.5	21.0	24.5	11.5	18.1
YEAR	28.0	0.0	11.6									

e Estimated

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DISCRETE SAMPLES

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
SEP 15...	0900	.21	70	10.5	.59	.130	.01	2.52	.042	<1

054322653 BREWERY CREEK TRIBUTARY UPSTREAM SITE NEAR MINERAL POINT, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DISCRETE SAMPLES

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat flt mg/L (00515)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT											
21...	1535	.16	70	11.5	--	.50	.140	.01	3.38	.027	26
21...	1536	.16	50	11.0	--	.81	.100	.01	3.35	.071	24
21...	1537	.16	50	11.0	--	.60	.110	.01	3.36	.042	18
NOV											
23...	1505	.03	70	11.5	--	.50	.130	.01	4.80	.043	15
DEC											
21...	1330	.01	70	12.5	--	.39	.150	<.003	11.6	.032	6
JAN											
14...	1125	.17	70	10.5	216	1.8	.560	.16	4.70	.203	<2
FEB											
11...	1305	.16	70	8.0	238	5.9	4.10	.85	2.10	.880	11
MAR											
18...	0847	.20	70	10.0	334	.90	.380	<.03	4.20	.013	2
APR											
08...	0919	.14	70	11.0	296	1.1	<.100	.07	2.70	<.012	11
MAY											
10...	0843	.12	70	10.0	174	<.80	.080	.01	1.60	<.120	6
JUN											
06...	0854	.08	70	10.5	264	.90	.240	.02	1.30	<.120	6
JUL											
19...	0715	.02	70	12.5	272	1.2	.360	.01	<.100	.087	15
AUG											
17...	1445	.03	70	12.0	298	1.0	.370	.01	<.100	.087	2
SEP											
13...	0807	.05	70	12.5	278	1.6	.890	.01	<.100	.141	16

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
COMPOSITE SAMPLES

Date	End date	Time	End time	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Sample runoff volume, cubic feet (99906)
SEP												
15-16	20040916	1145	1300	50	10.5	.60	.120	<.003	2.67	.027	3	28,800

054322653 BREWERY CREEK TRIBUTARY UPSTREAM SITE NEAR MINERAL POINT, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
COMPOSITE SAMPLES

Date	End date	Time	End time	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat flt mg/L (00515)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Sample runoff volume, cubic feet (99906)
OCT 22-24	20041024	2200	0200	50	11.5	--	.48	.120	<.003	3.57	.035	3	45,500
OCT 26-27	20041027	1347	0000	50	11.5	--	.46	.110	.01	3.42	.028	<1	15,200
DEC 07-07	20041207	0330	1900	50	10.0	--	.48	.160	<.003	4.44	.030	3	16,000
JAN 01-03	20050103	1900	1000	50	11.5	--	.42	.100	<.003	6.70	.036	21	49,900
JAN 12-14	20050114	1330	1200	50	11.5	358	.58	.160	.06	7.00	.071	2	71,100
FEB 05-08	20050208	1345	1730	50	10.0	250	10	5.70	1.09	1.00	1.42	53	779,000
FEB 13-17	20050217	0830	0900	50	5.5	174	6.1	3.40	.96	1.50	1.19	3	944,000
MAR 04-05	20050305	1620	1215	50	12.5	422	.60	.400	.11	6.30	.100	5	21,600
MAR 05-06	20050306	1215	1039	50	8.0	230	5.8	2.50	.97	2.10	1.39	65	213,000
MAR 07-08	20050308	0119	1200	50	3.5	158	3.9	1.60	.70	.600	1.03	45	189,000
MAR 18-19	20050319	1215	0700	50	9.5	326	1.3	.320	.02	4.50	.013	5	43,200
MAR 30-31	20050331	1200	0030	50	8.5	232	.80	.300	<.03	2.90	<.012	10	14,800
APR 06-07	20050407	1800	0330	50	10.5	278	1.0	<.100	<.03	3.10	.200	11	13,200
APR 19-20	20050420	2244	0600	50	10.5	224	.60	<.100	<.03	2.50	<.012	9	12,800
MAY 09-09	20050509	1238	1845	50	10.5	184	<.80	.040	.01	1.70	<.120	16	6,120
MAY 11-11	20050511	0315	1640	50	9.5	172	1.0	.040	<.003	1.70	<.120	10	16,800
JUN 05-05	20050605	0033	1030	50	10.5	244	.90	.170	.01	1.30	.150	10	13,700
JUN 11-12	20050612	2003	1000	50	10.5	258	.60	.180	.01	1.10	.190	7	13,100
JUN 24-25	20050625	2012	2153	50	10.5	240	1.2	.180	.01	.600	.104	16	36,700
JUN 25-26	20050626	2154	1630	50	10.5	212	1.1	.160	.01	.600	.070	5	25,200
JUL 25-26	20050726	1915	2015	50	11.5	264	1.0	.700	.10	.300	<.120	12	28,500
AUG 18-19	20050819	0720	0315	50	11.5	284	1.3	.350	.01	<.100	.113	7	16,000

054322655 BREWERY CREEK TRIBUTARY DOWNSTREAM SITE NEAR MINERAL POINT, WI

LOCATION.--Lat 42°52'25", long 90°08'01", Iowa County, Hydrologic Unit 07090003, 2 mi southwest of intersection of Sunny Ridge Rd. and Antoine Rd., 1 ¼ mi south on private drive off Antoine Rd., 3 mi northeast of Mineral Point.

DRAINAGE AREA.--716 acres.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 2004 to September 2005.

GAGE.--Water-stage recorder. Water levels are controlled by 3.0 ft H flume. Elevation of gage is 1,070 ft above NGVD of 1929, from topographic map.

REMARKS.--Records are good/excellent except for Dec. 14, 19-20, 22-24, Jan. 5-7, 14, 22, Feb. 10, 17-19 and Mar. 1-3, 12-13, when the orifice froze. These days should be considered fair. Daily discharges were estimated for Sept. 1-14, 2004. These days should be considered poor.

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	---	---	---	---	---	---	---	---	---	---	---	e0.420
2	---	---	---	---	---	---	---	---	---	---	---	e0.420
3	---	---	---	---	---	---	---	---	---	---	---	e0.419
4	---	---	---	---	---	---	---	---	---	---	---	e0.419
5	---	---	---	---	---	---	---	---	---	---	---	e0.418
6	---	---	---	---	---	---	---	---	---	---	---	e0.418
7	---	---	---	---	---	---	---	---	---	---	---	e0.417
8	---	---	---	---	---	---	---	---	---	---	---	e0.417
9	---	---	---	---	---	---	---	---	---	---	---	e0.416
10	---	---	---	---	---	---	---	---	---	---	---	e0.416
11	---	---	---	---	---	---	---	---	---	---	---	e0.415
12	---	---	---	---	---	---	---	---	---	---	---	e0.414
13	---	---	---	---	---	---	---	---	---	---	---	e0.413
14	---	---	---	---	---	---	---	---	---	---	---	e0.412
15	---	---	---	---	---	---	---	---	---	---	---	0.765
16	---	---	---	---	---	---	---	---	---	---	---	0.613
17	---	---	---	---	---	---	---	---	---	---	---	0.460
18	---	---	---	---	---	---	---	---	---	---	---	0.441
19	---	---	---	---	---	---	---	---	---	---	---	0.419
20	---	---	---	---	---	---	---	---	---	---	---	0.412
21	---	---	---	---	---	---	---	---	---	---	---	0.418
22	---	---	---	---	---	---	---	---	---	---	---	0.418
23	---	---	---	---	---	---	---	---	---	---	---	0.421
24	---	---	---	---	---	---	---	---	---	---	---	0.463
25	---	---	---	---	---	---	---	---	---	---	---	0.425
26	---	---	---	---	---	---	---	---	---	---	---	0.413
27	---	---	---	---	---	---	---	---	---	---	---	0.417
28	---	---	---	---	---	---	---	---	---	---	---	0.406
29	---	---	---	---	---	---	---	---	---	---	---	0.392
30	---	---	---	---	---	---	---	---	---	---	---	0.406
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	13.123
MEAN	---	---	---	---	---	---	---	---	---	---	---	0.44
MAX	---	---	---	---	---	---	---	---	---	---	---	0.765
MIN	---	---	---	---	---	---	---	---	---	---	---	0.392
CFSM	---	---	---	---	---	---	---	---	---	---	---	0.39
IN.	---	---	---	---	---	---	---	---	---	---	---	0.44

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

MEAN	---	---	---	---	---	---	---	---	---	---	---	0.44
MAX	---	---	---	---	---	---	---	---	---	---	---	0.44
(WY)	---	---	---	---	---	---	---	---	---	---	---	(2004)
MIN	---	---	---	---	---	---	---	---	---	---	---	0.44
(WY)	---	---	---	---	---	---	---	---	---	---	---	(2004)

054322655 BREWERY CREEK TRIBUTARY DOWNSTREAM SITE NEAR MINERAL POINT, WI—Continued

SUMMARY STATISTICS	FOR 2004 WATER YEAR (September)	
ANNUAL TOTAL	13.123	
ANNUAL MEAN	0.44	
HIGHEST DAILY MEAN	0.765	Sep 15
LOWEST DAILY MEAN	0.392	Sep 29
ANNUAL SEVEN-DAY MINIMUM	1.41	Sep 8
MAXIMUM PEAK FLOW	1.7	Sep 15
MAXIMUM PEAK STAGE	0.82	Sep 15
INSTANTANEOUS LOW FLOW	0.36	Sep 29
ANNUAL RUNOFF (CFSM)	0.391	
ANNUAL RUNOFF (INCHES)	0.44	
10 PERCENT EXCEEDS	0.46	
50 PERCENT EXCEEDS	0.42	
90 PERCENT EXCEEDS	0.41	

(e) Estimated

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.453	0.499	0.379	0.342	0.330	0.386	0.403	0.293	0.220	0.169	0.157	0.106
2	0.527	0.554	0.375	1.062	0.325	0.356	0.378	0.294	0.244	0.160	0.143	0.096
3	0.422	0.423	0.368	0.471	0.333	0.349	0.375	0.287	0.268	0.164	0.146	0.095
4	0.427	0.504	0.398	0.377	0.353	0.548	0.367	0.281	0.287	0.189	0.150	0.107
5	0.405	0.419	0.382	0.428	0.462	3.539	0.374	0.274	0.693	0.182	0.139	0.109
6	0.419	0.414	0.654	0.423	4.619	7.865	0.512	e0.344	0.255	0.168	0.130	0.107
7	0.407	0.385	0.764	0.358	9.352	3.870	0.480	0.349	0.232	0.161	0.124	0.106
8	0.612	0.359	0.489	0.340	0.928	e0.625	0.359	0.364	0.226	0.156	0.125	0.113
9	0.454	0.367	0.454	0.354	e0.483	0.513	0.342	0.773	0.246	0.149	0.126	0.120
10	0.402	0.382	0.516	0.345	0.402	0.568	0.349	0.340	0.252	0.143	0.163	0.113
11	0.398	0.371	0.437	0.367	0.399	0.548	0.340	0.782	0.440	0.142	0.161	0.107
12	0.407	0.353	0.414	0.840	0.469	0.470	0.516	0.346	0.431	0.147	0.197	0.103
13	0.430	0.358	0.358	1.015	6.122	0.418	0.353	0.546	0.245	0.167	0.164	0.135
14	0.432	0.366	0.324	0.579	8.071	0.431	0.331	0.368	0.224	0.156	0.147	0.124
15	0.436	0.398	0.322	0.440	3.125	e0.540	0.312	0.329	0.244	0.143	0.142	0.105
16	0.431	0.430	0.349	0.404	1.125	0.608	0.319	0.314	0.213	0.139	0.136	0.106
17	0.406	0.433	0.334	0.385	0.507	0.508	0.341	0.295	0.205	0.132	0.127	0.106
18	0.421	0.427	0.345	0.384	0.431	0.994	0.321	0.305	0.222	0.124	0.388	0.108
19	0.521	0.528	0.298	0.393	0.418	0.570	0.368	0.494	0.243	0.120	0.216	0.331
20	0.438	0.476	0.323	0.392	0.485	0.768	0.606	0.310	0.203	0.173	0.154	0.149
21	0.408	0.387	0.339	0.415	0.442	0.559	0.316	0.286	0.177	0.204	0.128	0.130
22	0.459	0.383	0.307	0.467	0.427	0.511	0.436	0.295	0.143	0.179	0.119	0.143
23	1.161	0.389	0.289	0.336	0.409	0.507	0.314	0.283	0.108	0.367	0.114	0.127
24	0.506	0.361	0.266	0.352	0.412	0.510	0.289	0.263	0.192	0.251	0.116	0.151
25	0.413	0.354	0.298	0.372	0.484	0.496	0.322	0.249	1.380	0.317	0.125	0.523
26	0.506	0.385	0.295	0.372	0.435	0.487	0.340	0.246	0.891	0.798	0.140	0.221
27	0.498	0.556	0.287	0.367	0.426	0.506	0.307	0.241	0.264	0.243	0.150	0.149
28	0.427	0.443	0.325	0.359	0.419	0.516	0.286	0.248	0.217	0.185	0.121	0.180
29	0.468	0.383	0.345	0.352	---	0.511	0.296	0.256	0.206	0.174	0.117	0.157
30	0.610	0.378	0.398	0.345	---	0.684	0.291	0.251	0.197	0.166	0.115	0.133
31	0.427	---	0.379	0.337	---	0.551	---	0.220	---	0.162	0.110	---
TOTAL	14.731	12.465	11.811	13.773	42.193	30.312	10.943	10.526	9.368	6.130	4.590	4.360
MEAN	0.48	0.42	0.38	0.44	1.51	0.98	0.36	0.34	0.31	0.20	0.15	0.15
MAX	1.161	0.556	0.764	1.062	9.352	7.865	0.606	0.782	1.380	0.798	0.388	0.523
MIN	0.398	0.353	0.266	0.336	0.325	0.349	0.286	0.220	0.108	0.120	0.110	0.095
CFSM	0.42	0.37	0.34	0.40	1.35	0.87	0.33	0.30	0.28	0.18	0.13	0.13
IN.	0.49	0.41	0.39	0.46	1.40	1.01	0.36	0.35	0.31	0.20	0.15	0.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	0.48	0.42	0.38	0.44	1.51	0.98	0.36	0.34	0.31	0.20	0.15	0.29
MAX	0.48	0.42	0.38	0.44	1.51	0.98	0.36	0.34	0.31	0.20	0.15	0.44
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
MIN	0.48	0.42	0.38	0.44	1.51	0.98	0.36	0.34	0.31	0.20	0.15	0.15
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

054322655 BREWERY CREEK TRIBUTARY DOWNSTREAM SITE NEAR MINERAL POINT, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR (September - December)		FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005 (September - September)	
ANNUAL TOTAL	52.130		171.202			
ANNUAL MEAN	0.43		0.47		0.47	
HIGHEST ANNUAL MEAN					0.47	2005
LOWEST ANNUAL MEAN					0.44	2004
HIGHEST DAILY MEAN	1.161	Oct 23	9.352	Feb 7	9.352	Feb 7, 2005
LOWEST DAILY MEAN	0.266	Dec 24	0.095	Sep 3	0.095	Sep 3, 2005
ANNUAL SEVEN-DAY MINIMUM	0.30	Dec 22	0.10	Sep 1	0.10	Sep 1, 2005
MAXIMUM PEAK FLOW			22	Mar 6	22	Mar 6, 2005
MAXIMUM PEAK STAGE			2.61	Mar 6	2.61	Mar 6, 2005
INSTANTANEOUS LOW FLOW			0.07	Jul 17	0.07	Jul 17, 2005
ANNUAL RUNOFF (CFSM)	0.382		0.419		0.417	
ANNUAL RUNOFF (INCHES)	1.73		5.69		5.66	
10 PERCENT EXCEEDS	0.52		0.55		0.55	
50 PERCENT EXCEEDS	0.42		0.35		0.37	
90 PERCENT EXCEEDS	0.34		0.13		0.14	

(e) Estimated

054322655 BREWERY CREEK TRIBUTARY DOWNSTREAM SITE NEAR MINERAL POINT, WI—Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--September 2004 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: September 2004 to current year.

INSTRUMENTATION.--Continuous water temperature recorder and water-quality sampler September 2004 to current year.

REMARKS.--Records represent water temperature at sensor within 0.5°C. Max., Min., Mean water temperature estimated for Oct. 17-20, 2004. Records are fair. Chemical analyses by the Wisconsin State Laboratory of Hygiene. Samples collected during periods of non-stormflow are grab samples. Samples during storms are composite samples collected by an automatic point sampler. The sample runoff volume is the total flow that occurs between the first and last subsample of each flow-composite sample. The storm runoff volume is the total flow that occurs between the start of the storm and the end of the storm. In most cases, the sample runoff volume is slightly different than the storm runoff volume. If the sample runoff volume and the storm runoff volume are comparable, a storm load (in pounds) can be computed by multiplying the storm volume (in thousands of cubic feet) by the constituent concentration (in mg/L) by a factor of 6.2428x10^-5.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum temperature, 32.0°C, Jun. 21, 23-24, 2005; minimum, 0.0°C, many days.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum temperature, 32.0°C, Jun. 21, 23-24; minimum, 0.0°C, many days.

STORM VOLUMES AND SAMPLE SUMMARY, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Storm Beginning Date	Storm Beginning Time	Storm Ending Date	Storm Ending Time	Storm Runoff Volume, Cubic Feet	Peak Discharge (CFS)	Number of Subsamples
09-15-04	1130	09-16-04	0730	68115	1.67	23

STORM VOLUMES AND SAMPLE SUMMARY, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

10-22-04	1715	10-24-04	0300	120643	2.24	20
10-26-04	1230	10-27-05	0430	36504	0.81	17
12-07-04	0330	12-07-05	1930	49894	1.34	22
01-01-05	1900	01-03-05	1030	120214	2.21	24
01-12-05	1330	01-14-05	1230	170626	2.26	21
02-05-05	1430	02-08-05	1800	1296623	17.29	30
02-13-05	0904	02-17-05	0930	1596493	18.24	33
03-04-05	1445	03-05-05	0900	47087	1.02	4
03-05-05	0900	03-06-05	1010	353651	11.06	8
03-06-05	1010	03-07-05	0107	639915	22.06	6
03-07-05	0107	03-08-05	1230	336425	10.91	11
03-18-05	1130	03-19-05	0730	86424	2.07	8
03-30-05	1245	03-31-05	0100	37604	1.07	12
04-06-05	1800	04-07-05	0400	30418	1.25	8
04-19-05	2244	04-20-05	0630	32026	3.16	18
05-09-05	1237	05-09-05	1915	21962	2.12	10
05-11-05	0353	05-11-05	1710	53020	2.62	11
06-05-05	0033	06-05-05	1100	40042	2.55	14
06-11-05	2008	06-12-05	1030	40665	2.99	15
06-24-05	2012	06-25-05	2153	112732	5.78	21
06-25-05	2153	06-26-05	1700	80748	5.03	17
07-25-05	1945	07-26-05	2015	77061	2.17	27
08-18-05	0720	08-19-05	0345	34055	1.02	12

054322655 BREWERY CREEK TRIBUTARY DOWNSTREAM SITE NEAR MINERAL POINT, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	---	---	---
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MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
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MONTH	---	---	---	---	---	---	---	---	---	---	---	---

054322655 BREWERY CREEK TRIBUTARY DOWNSTREAM SITE NEAR MINERAL POINT, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	25.0	15.5	20.0
17	---	---	---	---	---	---	---	---	---	25.5	11.0	18.0
18	---	---	---	---	---	---	---	---	---	26.5	15.5	20.5
19	---	---	---	---	---	---	---	---	---	27.5	16.5	22.0
20	---	---	---	---	---	---	---	---	---	27.0	16.5	21.5
21	---	---	---	---	---	---	---	---	---	28.5	14.0	21.5
22	---	---	---	---	---	---	---	---	---	29.5	12.0	21.5
23	---	---	---	---	---	---	---	---	---	28.0	17.0	23.0
24	---	---	---	---	---	---	---	---	---	24.5	16.0	20.5
25	---	---	---	---	---	---	---	---	---	24.5	10.0	17.5
26	---	---	---	---	---	---	---	---	---	29.0	9.0	18.5
27	---	---	---	---	---	---	---	---	---	27.0	9.5	18.5
28	---	---	---	---	---	---	---	---	---	20.5	12.0	16.0
29	---	---	---	---	---	---	---	---	---	24.5	5.5	15.0
30	---	---	---	---	---	---	---	---	---	22.5	5.5	15.0
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	29.5	5.5	19.3
YEAR	29.5	5.5	19.3									

054322655 BREWERY CREEK TRIBUTARY DOWNSTREAM SITE NEAR MINERAL POINT, WI—Continued

WATER QUALITY RECORDS--Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.0	10.0	15.0	8.0	6.0	7.0	5.5	0.0	1.5	0.5	0.0	0.0
2	15.0	3.5	9.0	9.5	5.5	7.5	4.0	0.0	1.5	1.5	0.0	0.5
3	21.5	2.5	12.0	10.5	5.5	8.0	3.0	0.0	0.5	0.5	0.0	0.0
4	16.0	6.0	11.0	10.5	6.0	8.0	7.5	0.0	2.5	1.0	0.0	0.5
5	17.0	0.0	8.5	13.0	0.5	7.0	6.0	0.0	2.5	0.0	0.0	0.0
6	25.0	5.5	14.5	18.0	2.0	9.5	6.0	3.5	5.0	0.0	0.0	0.0
7	20.5	11.5	16.0	12.5	2.5	8.0	7.0	3.5	5.5	0.0	0.0	0.0
8	23.5	17.0	20.0	6.0	0.0	3.0	5.5	2.0	3.5	1.5	0.0	1.0
9	24.0	8.5	16.0	13.5	2.0	7.5	5.0	3.5	4.5	1.5	0.0	1.0
10	24.0	6.5	14.5	15.5	8.0	11.0	5.0	3.0	4.0	1.5	0.5	1.0
11	18.5	6.0	12.0	9.0	0.0	4.0	4.0	2.5	3.0	2.0	0.5	1.0
12	17.5	7.0	12.0	7.0	0.0	2.0	4.0	0.5	2.5	2.5	0.0	1.0
13	13.0	8.5	10.5	11.0	0.0	3.5	1.5	0.0	0.0	1.5	0.0	0.0
14	11.0	8.0	9.0	9.5	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
15	11.0	7.0	8.5	7.0	4.0	5.0	0.5	0.0	0.0	0.0	0.0	0.0
16	7.0	4.0	5.0	12.0	7.0	9.5	3.0	0.0	1.0	0.0	0.0	0.0
17	e13.0	e0.0	e6.0	18.0	11.5	14.5	2.0	0.0	0.5	0.0	0.0	0.0
18	e12.5	e7.5	e9.0	15.5	10.0	13.0	2.5	0.0	0.5	0.0	0.0	0.0
19	e10.0	e7.5	e8.5	10.5	8.5	9.5	0.0	0.0	0.0	1.5	0.0	0.5
20	e11.0	e8.5	e9.5	11.0	4.0	8.0	0.0	0.0	0.0	1.0	0.5	1.0
21	18.5	9.0	12.5	5.0	0.0	2.0	0.0	0.0	0.0	1.5	0.0	0.5
22	15.0	11.0	12.0	6.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
23	21.0	13.5	17.0	9.0	1.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0
24	21.5	9.0	14.5	1.5	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.5
25	18.5	7.5	12.5	4.0	0.0	1.0	0.0	0.0	0.0	2.5	1.0	1.5
26	11.5	10.0	10.5	3.5	0.0	1.5	0.5	0.0	0.0	2.0	0.0	1.5
27	12.5	10.0	11.0	6.0	2.0	4.0	1.0	0.0	0.5	0.5	0.0	0.0
28	15.0	10.5	13.0	5.5	0.0	2.5	2.0	0.5	1.0	0.5	0.0	0.0
29	23.5	15.0	19.5	5.5	0.0	1.5	1.5	0.0	1.0	2.5	0.0	1.5
30	21.0	8.5	12.5	3.0	0.0	0.5	3.5	1.0	2.0	3.0	1.0	2.0
31	10.0	7.0	8.0	---	---	---	3.5	0.0	2.0	3.0	1.5	2.0
MONTH	25.0	0.0	11.9	18.0	0.0	5.7	7.5	0.0	1.5	3.0	0.0	0.5
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	1.5	2.5	5.0	0.0	0.5	12.5	2.5	6.5	9.5	2.0	5.5
2	3.5	1.0	2.5	5.0	0.0	1.0	17.0	2.5	8.0	9.5	1.5	5.0
3	4.0	0.0	1.5	6.0	0.0	1.5	18.5	3.5	9.5	20.0	0.0	8.0
4	4.5	0.0	2.0	6.0	0.0	2.0	18.0	4.5	10.0	21.0	1.0	9.5
5	5.0	0.0	2.0	6.5	0.0	1.5	18.0	7.0	12.0	22.0	1.5	11.0
6	1.0	0.0	0.0	5.5	0.0	1.5	19.0	10.0	13.5	22.5	7.5	13.5
7	0.0	0.0	0.0	4.0	0.0	1.0	19.0	7.5	12.0	20.0	9.5	13.0
8	1.5	0.0	0.0	7.0	0.0	1.5	20.0	5.0	11.0	24.0	8.5	14.5
9	4.0	0.0	1.0	7.0	0.0	2.0	17.0	5.5	10.5	20.0	13.0	15.5
10	4.5	0.0	1.0	3.5	0.0	1.0	20.5	8.0	13.0	23.5	11.0	15.5
11	6.0	0.0	1.5	5.5	0.0	1.5	18.0	9.5	12.0	15.0	8.0	12.5
12	8.0	0.0	2.5	5.5	0.0	1.0	10.0	5.5	8.0	11.0	5.0	8.0
13	2.0	0.0	0.5	7.0	0.0	2.0	17.5	3.0	9.0	14.5	7.0	10.0
14	1.5	0.0	0.0	6.0	0.0	2.0	20.0	4.0	10.5	17.5	7.0	11.0
15	2.0	0.0	0.5	7.5	0.0	2.0	21.0	4.5	11.5	14.5	7.0	10.0
16	4.5	0.0	1.0	9.0	0.0	2.5	15.0	6.0	9.5	20.0	4.5	11.5
17	3.0	0.0	0.5	5.0	0.0	1.5	22.5	8.5	14.0	19.0	8.0	12.0
18	3.5	0.0	0.5	7.5	0.0	1.5	23.0	8.5	14.5	19.0	9.5	13.0
19	5.0	0.0	1.5	4.5	0.0	2.0	22.0	9.0	14.5	20.5	11.0	14.5
20	2.5	0.5	1.5	9.5	0.0	3.0	15.5	9.0	13.0	23.0	10.0	14.5
21	6.0	0.0	2.5	11.0	0.0	3.5	19.0	6.5	11.5	17.0	8.5	13.0
22	7.0	0.0	2.0	7.5	0.0	2.5	11.5	5.5	9.0	23.0	11.0	16.0
23	6.5	0.0	1.5	10.0	0.5	3.5	15.0	2.0	7.0	21.0	9.0	14.5
24	8.0	0.0	2.5	8.5	0.0	3.5	17.5	1.0	8.0	23.5	8.0	15.0
25	9.0	0.0	3.0	9.0	1.0	4.0	16.5	1.5	8.0	21.5	8.5	14.5
26	7.5	0.0	2.0	14.0	1.0	5.5	12.5	3.5	7.5	22.0	10.5	15.5
27	5.0	0.0	1.5	15.0	0.0	5.5	15.0	4.5	8.0	20.0	8.0	13.5
28	4.5	0.0	1.0	16.5	1.0	7.0	19.0	1.5	9.5	17.5	8.0	12.5
29	---	---	---	13.5	3.5	8.0	17.0	2.5	9.0	18.0	8.0	12.0
30	---	---	---	13.0	5.0	8.0	14.0	1.5	7.5	24.5	8.5	16.0
31	---	---	---	14.0	3.5	7.5	---	---	---	27.5	8.0	17.0
MONTH	9.0	0.0	1.4	16.5	0.0	2.9	23.0	1.0	10.2	27.5	0.0	12.5

054322655 BREWERY CREEK TRIBUTARY DOWNSTREAM SITE NEAR MINERAL POINT, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.0	9.0	17.5	21.0	14.5	17.0	27.5	15.5	21.0	25.5	13.5	18.5
2	29.0	11.5	19.0	24.0	12.0	17.5	27.5	16.0	21.5	26.0	10.0	17.0
3	19.5	11.5	16.0	21.0	13.5	17.0	26.5	18.0	21.5	26.0	9.0	16.5
4	25.5	14.5	19.5	19.0	15.5	17.5	26.0	17.0	21.0	24.5	15.0	18.5
5	25.5	15.5	19.0	24.5	13.5	18.5	24.5	14.0	18.5	25.0	15.5	19.5
6	26.5	13.0	19.0	22.0	15.0	18.0	25.0	13.5	18.5	23.5	16.5	19.0
7	28.0	12.5	19.0	24.5	14.0	19.0	26.0	14.0	19.0	23.5	14.0	18.5
8	23.0	14.0	17.5	26.0	14.0	19.5	26.0	14.5	19.5	20.0	15.5	17.5
9	23.5	13.5	17.5	26.5	15.5	20.0	27.0	15.5	20.5	25.0	15.5	19.5
10	26.5	14.5	19.5	26.5	15.5	20.5	25.0	17.5	20.5	26.5	17.0	21.0
11	26.5	15.0	20.0	23.5	15.0	19.0	20.5	17.0	18.5	26.5	16.5	20.5
12	26.5	17.5	21.0	25.0	16.0	19.5	22.0	17.0	19.5	25.5	15.5	20.0
13	26.0	15.5	20.0	25.0	17.0	20.5	18.5	15.5	17.0	24.0	18.0	20.5
14	21.0	15.5	17.5	26.0	16.5	21.0	22.5	13.5	17.5	22.5	13.0	17.5
15	19.5	13.5	16.0	26.0	16.0	21.0	23.5	13.0	17.5	17.5	11.0	14.0
16	30.0	9.5	18.5	27.0	16.0	21.0	24.0	13.5	18.0	21.5	11.0	15.5
17	29.0	9.0	18.0	27.0	16.5	21.5	25.5	13.5	18.5	22.5	10.5	16.0
18	30.0	9.5	19.0	26.0	17.5	21.5	24.5	17.0	20.0	22.5	13.5	17.5
19	31.0	10.0	20.0	29.0	14.0	20.5	25.0	17.5	21.0	22.5	15.5	18.5
20	31.5	10.5	21.0	25.0	16.5	20.0	24.5	16.5	20.5	23.5	12.0	17.0
21	32.0	14.0	22.5	24.5	18.0	20.5	22.5	14.0	18.0	24.5	12.5	18.0
22	29.5	14.0	21.0	27.5	16.5	21.5	20.5	13.5	16.5	20.5	15.5	18.0
23	32.0	14.5	23.0	22.5	17.5	20.0	21.0	12.0	16.0	21.5	12.0	16.0
24	32.0	15.5	23.5	29.0	20.0	24.0	21.5	13.5	17.0	16.5	12.5	15.0
25	25.0	18.5	21.0	26.0	19.0	22.5	21.0	16.0	18.0	19.0	15.0	17.0
26	24.5	18.5	21.0	22.0	17.5	20.5	21.5	16.0	18.5	18.5	12.0	16.0
27	27.5	16.0	21.0	23.0	15.0	18.5	24.5	16.5	20.0	21.0	9.5	14.5
28	21.5	17.5	19.0	24.5	13.5	18.5	23.5	13.0	18.0	15.5	10.5	13.0
29	26.5	16.0	20.0	24.0	14.0	18.5	25.0	12.5	18.0	17.0	8.0	11.5
30	26.0	16.5	20.5	26.0	15.0	20.0	23.5	14.5	18.5	18.5	8.5	12.5
31	---	---	---	26.5	17.5	21.5	23.5	11.5	17.5	---	---	---
MONTH	32.0	9.0	19.6	29.0	12.0	19.9	27.5	11.5	18.9	26.5	8.0	17.1
YEAR	32.0	0.0	10.2									

e Estimated

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DISCRETE SAMPLES

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
SEP 15...	1000	.44	70	12.0	.30	.030	.09	3.15	.091	<1

054322655 BREWERY CREEK TRIBUTARY DOWNSTREAM SITE NEAR MINERAL POINT, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DISCRETE SAMPLES

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat flt mg/L (00515)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT											
21...	1320	.42	70	17.0	--	.26	.020	.05	3.74	.057	<1
21...	1321	.42	50	17.0	--	.35	.010	.05	3.69	.077	22
21...	1322	.42	50	17.5	--	.40	.010	.05	3.69	.070	5
NOV											
23...	1520	.39	70	11.5	--	.26	.020	.06	4.62	.072	17
DEC											
21...	1400	.36	70	12.5	--	.60	.040	.04	6.00	.128	48
JAN											
14...	1030	.57	70	12.0	336	1.0	.270	.05	5.70	.087	17
FEB											
07...	1126	10	70	7.0	178	8.0	4.10	.94	.800	1.43	64
07...	1127	10	50	6.5	138	8.6	4.10	.90	.800	1.34	99
11...	1240	.39	70	10.0	356	3.0	2.10	.36	3.80	.440	31
MAR											
18...	0915	.55	70	12.0	362	.90	.030	<.03	4.80	.012	9
APR											
08...	0952	.36	70	11.5	364	.70	.500	<.03	3.80	<.012	8
MAY											
10...	0935	.33	70	11.0	298	<.80	.080	.07	3.10	<.120	50
JUN											
06...	0942	.25	70	13.0	368	.80	.130	.06	3.50	.170	57
JUL											
19...	0740	.12	70	10.5	422	.70	.060	.07	.800	.108	16
AUG											
17...	1446	.11	70	16.5	436	5.0	1.14	.07	3.00	.187	2
SEP											
13...	0721	.13	70	18.5	410	.72	.100	.25	3.80	.282	6

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
COMPOSITE SAMPLES

Date	End date	Time	End time	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Sample runoff volume, cubic feet (99906)
SEP												
15-16	20040916	1330	1400	50	15.0	.96	.090	.28	2.41	.309	<1	68,100

054322655 BREWERY CREEK TRIBUTARY DOWNSTREAM SITE NEAR MINERAL POINT, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
COMPOSITE SAMPLES

Date	End date	Time	End time	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat flt mg/L (00515)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Sample runoff volume, cubic feet (99906)
OCT 22-24	20041024	2136	0230	50	14.5	--	1.4	.120	.40	2.67	.517	<1	121,000
OCT 26-27	20041027	1351	0030	50	14.5	--	1.3	.160	.21	3.08	.276	2	36,500
DEC 07-07	20041207	0330	1930	50	13.5	--	5.8	1.51	.48	3.24	.971	71	49,900
JAN 01-03	20050103	1900	1030	50	13.0	--	3.0	.560	.37	4.80	.593	81	120,000
JAN 12-14	20050114	1330	1230	50	10.5	238	2.2	.480	.18	5.00	.325	55	171,000
FEB 05-08	20050208	1430	1800	50	9.0	260	9.0	4.40	.63	1.50	1.37	80	1,300,000
FEB 13-17	20050217	0904	0930	50	5.5	174	5.8	3.10	.73	1.40	1.09	24	1,600,000
MAR 04-05	20050305	1445	0900	50	11.0	356	2.1	1.10	.24	4.50	.530	162	47,100
MAR 05-06	20050306	0900	1010	50	7.5	234	5.5	2.30	.68	1.90	1.38	312	354,000
MAR 06-07	20050307	1010	0107	50	3.5	172	5.0	1.60	.67	.400	1.51	296	640,000
MAR 07-08	20050308	0107	1230	50	4.5	194	3.8	1.60	.56	.900	.900	89	336,000
MAR 18-19	20050319	1130	0730	50	9.0	310	3.2	.670	.07	3.80	.580	230	86,400
MAR 30-31	20050331	1245	0100	50	11.5	328	1.9	.400	.11	3.30	.350	76	37,600
APR 06-07	20050407	1800	0400	50	13.0	358	3.8	.500	.19	2.80	.870	308	30,400
APR 19-20	20050420	2244	0630	50	11.0	304	7.0	<.100	.17	2.30	2.10	1,300	32,000
MAY 09-09	20050509	1237	1915	50	12.0	310	9.1	.780	.41	1.40	2.90	1,270	22,000
MAY 11-11	20050511	0353	1710	50	12.5	284	6.8	.500	.28	1.50	2.00	1,120	53,000
JUN 05-05	20050605	0033	1100	50	10.0	300	4.6	.230	.11	1.80	1.30	703	40,000
JUN 11-12	20050612	2008	1030	50	10.0	306	4.6	.200	.17	1.70	1.46	646	40,700
JUN 24-25	20050625	2012	2153	50	10.5	256	3.6	.190	.33	1.20	1.11	384	113,000
JUN 25-26	20050626	2154	1700	50	9.5	266	2.5	.120	.37	1.20	.796	174	80,700
JUL 25-26	20050726	1945	2015	50	12.5	334	4.6	<.100	.03	1.20	.650	55	77,100
AUG 18-19	20050819	0720	0345	50	14.0	340	1.4	.110	.28	1.60	.409	16	34,100

425318090074000 DISCOVERY FARMS WATERWAY NO. 1 NEAR MINERAL POINT, WI

LOCATION.--Lat 42°53'18", long 90°07'40", Iowa County, Hydrologic Unit 07090003, 1 mi southwest of intersection of Sunny Ridge Rd. and Antoine Rd., 1000 ft to the south of Antoine Rd. in waterway of private farm, 3 mi northeast of Mineral Point.

DRAINAGE AREA.--15.8 acres.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 2004 to September 2005.

GAGE.--Water-stage recorder. Water levels are controlled by 2.5 ft H flume. Elevation of gage is 1,180 ft above NGVD of 1929, from topographic map.

REMARKS.--Records are excellent except for Jan. 2, 16 and Mar. 4 when significant icing occurred in the flume. These days should be considered fair. Note that discharge is the daily sum, in cubic feet.

DAILY SUM DISCHARGES, CUBIC FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	e0	0	0
2	---	---	---	---	---	---	---	---	---	0	0	0
3	---	---	---	---	---	---	---	---	---	0	0	0
4	---	---	---	---	---	---	---	---	---	0	0	0
5	---	---	---	---	---	---	---	---	---	0	0	0
6	---	---	---	---	---	---	---	---	---	0	0	0
7	---	---	---	---	---	---	---	---	---	0	0	0
8	---	---	---	---	---	---	---	---	---	0	0	0
9	---	---	---	---	---	---	---	---	---	0	0	0
10	---	---	---	---	---	---	---	---	---	0	0	0
11	---	---	---	---	---	---	---	---	---	0	0	0
12	---	---	---	---	---	---	---	---	---	0	0	0
13	---	---	---	---	---	---	---	---	---	0	0	0
14	---	---	---	---	---	---	---	---	---	0	0	0
15	---	---	---	---	---	---	---	---	---	0	0	0
16	---	---	---	---	---	---	---	---	---	2,060	0	0
17	---	---	---	---	---	---	---	---	---	0	0	0
18	---	---	---	---	---	---	---	---	---	0	0	0
19	---	---	---	---	---	---	---	---	---	0	0	0
20	---	---	---	---	---	---	---	---	---	0	0	0
21	---	---	---	---	---	---	---	---	---	0	0	0
22	---	---	---	---	---	---	---	---	---	0	0	0
23	---	---	---	---	---	---	---	---	---	0	0	0
24	---	---	---	---	---	---	---	---	---	0	0	0
25	---	---	---	---	---	---	---	---	---	0	0	0
26	---	---	---	---	---	---	---	---	---	0	0	0
27	---	---	---	---	---	---	---	---	---	0	0	0
28	---	---	---	---	---	---	---	---	---	0	0	0
29	---	---	---	---	---	---	---	---	---	0	0	0
30	---	---	---	---	---	---	---	---	---	0	0	0
31	---	---	---	---	---	---	---	---	---	0	0	---
TOTAL	---	---	---	---	---	---	---	---	---	2,060	0	0
MEAN	---	---	---	---	---	---	---	---	---	66	0	0
MAX	---	---	---	---	---	---	---	---	---	2,060	0	0
MIN	---	---	---	---	---	---	---	---	---	0	0	0

(e) Estimated

425318090074000 DISCOVERY FARMS WATERWAY NO. 1 NEAR MINERAL POINT, WI—Continued

DAILY SUM DISCHARGE, CUBIC FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	230	0	0	0	0	0	0	0	0
2	0	0	0	4,580	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	3,750	0	0	0	0	0	0
5	0	0	0	0	210	13,100	0	0	0	0	0	0
6	0	0	0	0	18,800	16,800	0	0	0	0	0	0
7	0	0	0	0	13,600	4,040	0	0	0	0	0	0
8	0	0	0	0	430	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	78	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	280	0	0	0	0	0	0
12	0	0	0	2,000	1,020	0	0	0	0	0	0	0
13	0	0	0	1,930	21,000	0	0	0	0	0	0	0
14	0	0	0	0	13,300	0	0	0	0	0	0	0
15	0	0	0	0	6,600	1,100	0	0	0	0	0	0
16	0	0	0	0	330	840	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	3,800	0	0	0	0	0	0
19	0	0	0	0	0	0	180	0	0	0	0	0
20	0	0	0	0	0	3,550	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	19	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	2,330	0	0	0	1,210	210	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	2,170	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
TOTAL	0	0	0	8,740	79,790	47,260	180	78	1,210	229	0	0
MEAN	0	0	0	280	2,850	1,520	6	3	40	7	0	0
MAX	0	0	0	4,580	21,000	16,800	180	78	1,210	210	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

425318090074000 DISCOVERY FARMS WATERWAY NO. 1 NEAR MINERAL POINT, WI—Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--July 2004 to current year.

INSTRUMENTATION.--Water-quality sampler since July 2004.

REMARKS.--Chemical analyses by the Water and Environmental Analysis Lab (formerly the Environmental Task Force Lab) at the University of Wisconsin-Stevens Point. Samples with start and end dates/times are flow-composite samples which represent the event-mean concentation for the specified runoff period. Samples with only start dates/times are discrete samples collected by the same automatic point sampler. Runoff perods which were not sampled have zero subsamples. The sample runoff volume is the total flow that occurs between the start and end time of each flow-composite sample. The storm runoff volume is the total flow that occurs between the time that runoff starts and ends. In most cases, the sample runoff volume is slightly less than the storm runoff volume. A storm load (in pounds) can be computed by multiplying the storm runoff volume (in cubic feet) by the constituent concentration (in mg/L) and a factor of 6.2428x10^-5.

STORM VOLUMES AND SAMPLE SUMMARY, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Storm Beginning Date	Storm Beginning Time	Storm Ending Date	Storm Ending Time	Storm Runoff Volume, Cubic Feet	Peak Discharge (CFS)	Number of Subsamples
07-16-04	1357	07-16-04	1420	558	1.36	7
07-16-04	1725	07-16-04	1815	1504	2.98	12

STORM VOLUMES AND SAMPLE SUMMARY, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

01-01-05	1920	01-02-05	1820	4807	0.53	15
01-12-05	1433	01-13-05	1801	3935	0.12	23
02-05-05	2000	02-08-05	0828	33119	0.56	17
02-12-05	1807	02-14-05	0606	26397	0.59	15
02-14-05	0606	02-15-05	0309	9272	0.37	4
02-15-05	0309	02-16-05	0334	6256	0.21	8
02-16-05	1000	02-16-05	1818	252	0.02	0
02-25-05	1325	02-25-05	2258	2325	0.15	4
02-27-05	1533	02-27-05	2038	2173	0.25	0
03-04-05	1329	03-04-05	2043	3752	0.35	4
03-05-05	0816	03-06-05	0858	13709	0.90	7
03-06-05	0858	03-07-05	0001	16171	1.04	7
03-07-05	0001	03-07-05	1525	4032	0.60	4
03-11-05	1332	03-11-05	1812	280	0.03	0
03-15-05	1200	03-15-05	1818	1096	0.09	0
03-16-05	1146	03-16-05	1809	840	0.07	0
03-18-05	1130	03-18-05	2212	3799	0.25	8
03-20-05	1005	03-20-05	1650	3547	0.49	3
04-19-05	2253	04-19-05	2311	183	0.45	3
05-09-05	1245	05-09-05	1255	78	0.29	2
06-25-05	0156	06-25-05	0222	487	0.88	7
06-25-05	2206	06-25-05	2240	724	0.99	6
07-23-05	0948	07-23-05	1004	19	0.04	0
07-25-05	1921	07-25-05	1945	201	0.41	3
07-25-05	2320	07-25-05	2337	14	0.03	0

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
COMPOSITE SAMPLES

Date	End date	Time	End time	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Sample runoff volume, cubic feet (99906)
JUL 16-16	20040716	1358	1418	50	.5	15	.210	.14	1.20	5.09	9,610	558
JUL 16-16	20040716	1729	1814	50	1.5	15	.090	.13	.700	4.88	9,460	1,500

425318090074000 DISCOVERY FARMS WATERWAY NO. 1 NEAR MINERAL POINT, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
COMPOSITE SAMPLES

Date	End date	Time	End time	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat flt mg/L (00515)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Sample runoff volume, cubic feet (99906)
JAN 01-02	20050102	2000	1230	50	5.0	--	4.0	.410	1.52	1.30	1.90	11	4,810
JAN 12-13	20050113	1733	1300	50	.5	54	1.8	.730	.27	1.00	.340	2	3,940
FEB 05-08	20050208	2032	0846	50	8.0	214	15	7.40	.70	.400	1.40	5	33,100
FEB 13-14	20050214	1016	0606	50	10.5	266	20	9.50	2.26	<.100	3.04	42	26,400
FEB 14-15	20050215	0607	0309	50	6.0	222	14	7.00	2.80	.100	3.40	32	9,270
FEB 15-16	20050216	0310	0103	50	3.5	176	10	5.20	2.01	<.100	2.40	14	6,260
FEB 25-25	20050225	1348	2157	50	79.0	1,860	120	60.5	4.50	.200	10.8	30	2,330
MAR 04-04	20050304	1341	2001	50	32.5	904	54	27.9	9.15	.100	10.7	32	3,750
MAR 05-06	20050306	0900	0858	50	12.0	430	25	12.3	3.94	<.100	5.12	26	13,700
MAR 06-07	20050307	0858	0001	50	3.5	184	9.9	3.70	1.10	<.100	1.73	96	16,200
MAR 07-07	20050307	0001	1330	50	2.0	152	7.4	1.30	.34	.100	1.44	378	4,030
MAR 18-18	20050318	1156	2159	50	4.0	160	8.5	2.96	.88	1.20	1.55	70	3,800
MAR 20-20	20050320	1020	1633	50	5.5	208	11	3.03	1.12	1.40	1.99	66	3,550
APR 19-19	20050419	2254	2307	50	.5	406	90	<.100	.11	1.60	25.3	16,400	183
MAY 09-09	20050509	1245	1254	50	.5	30	44	.320	.06	.300	12.8	12,400	77.8
JUN 25-25	20050625	0157	0221	50	.5	38	16	.350	.35	.300	4.21	3,160	487
JUN 25-25	20050625	2207	2239	50	2.0	34	8.0	.340	.12	.300	1.82	1,410	724
JUL 25-25	20050725	1922	1939	50	1.0	48	4.5	<.100	<.03	1.00	1.12	698	201

425248090074000 DISCOVERY FARMS WEATHER STATION NEAR MINERAL POINT, WI

LOCATION.--Lat 42°52'48", long 90°07'00", Iowa County, Hydrologic Unit 07090003, approximately 2 mi southwest of intersection of Sunny Ridge Rd. and Antoine Rd., 1,500 ft east of private drive off of Antoine Rd., 3 mi northeast of Mineral Point.

PERIOD OF RECORD.--April 2004 to September 2005.

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Daily rainfall for Apr. 1-6, 2004 estimated from Discovery Farms Weather Station near Belmont (423900090172100). Rainfall estimated to be 0.00 for Jan. 24-25, 31, Feb. 11-12, 20-21, 24-24 and Mar. 8 and 18-19 because recorded precipitation was interpreted as collector snowmelt.

EXTREMES FOR CURRENT PERIOD.--Maximum daily rainfall, 2.59 in., Jun. 25, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 2.59 in., Jun. 25.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e0.00	0.00	0.00	0.00	0.00	0.00
2	---	---	---	---	---	---	e0.00	0.00	0.00	0.00	0.09	0.00
3	---	---	---	---	---	---	e0.00	0.00	0.00	1.00	1.22	0.00
4	---	---	---	---	---	---	e0.00	0.00	0.00	0.00	0.04	0.00
5	---	---	---	---	---	---	e0.00	0.00	0.08	0.11	0.00	0.00
6	---	---	---	---	---	---	e0.00	0.02	0.06	0.55	0.00	0.01
7	---	---	---	---	---	---	0.00	0.03	0.00	0.01	0.00	0.00
8	---	---	---	---	---	---	0.00	0.02	0.00	0.00	0.02	0.00
9	---	---	---	---	---	---	0.00	0.00	0.00	0.66	0.06	0.00
10	---	---	---	---	---	---	0.00	0.76	0.94	0.00	0.00	0.00
11	---	---	---	---	---	---	0.00	0.00	0.17	0.17	0.00	0.00
12	---	---	---	---	---	---	0.00	0.04	0.46	0.00	0.00	0.00
13	---	---	---	---	---	---	0.00	0.47	0.03	0.01	0.00	0.00
14	---	---	---	---	---	---	0.00	0.22	0.09	0.00	0.00	0.00
15	---	---	---	---	---	---	0.04	0.00	0.00	0.00	0.00	0.93
16	---	---	---	---	---	---	0.00	0.00	0.62	1.86	0.08	0.00
17	---	---	---	---	---	---	0.57	1.07	0.08	0.00	0.00	0.00
18	---	---	---	---	---	---	0.00	0.01	0.01	0.00	0.13	0.00
19	---	---	---	---	---	---	0.05	0.00	0.00	0.00	0.01	0.00
20	---	---	---	---	---	---	0.39	0.00	0.00	0.00	0.00	0.00
21	---	---	---	---	---	---	0.11	1.75	0.29	0.55	0.00	0.00
22	---	---	---	---	---	---	0.00	1.28	0.00	0.00	0.00	0.00
23	---	---	---	---	---	---	0.00	0.85	0.03	0.00	0.00	0.11
24	---	---	---	---	---	---	0.10	0.01	0.31	0.00	0.76	0.01
25	---	---	---	---	---	---	0.10	0.03	0.00	0.00	0.01	0.00
26	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.16	0.00
27	---	---	---	---	---	---	0.00	0.00	0.01	0.00	0.11	0.00
28	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.26	0.00
29	---	---	---	---	---	---	0.00	0.81	0.00	0.07	0.00	0.00
30	---	---	---	---	---	---	0.00	0.68	0.00	0.04	0.03	0.00
31	---	---	---	---	---	---	---	0.29	---	0.00	0.00	---
TOTAL	---	---	---	---	---	---	1.36	8.34	3.18	5.03	2.98	1.06

(e) Estimated

425248090074000 DISCOVERY FARMS WEATHER STATION NEAR MINERAL POINT, WI—Continued

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.37	0.35	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.03	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.02	0.00
4	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.04	0.04
5	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00
6	0.00	0.00	0.20	0.00	0.15	0.00	0.59	0.22	0.00	0.00	0.00	0.00
7	0.10	0.00	0.47	0.00	0.10	0.18	0.00	0.10	0.00	0.00	0.00	0.00
8	0.38	0.00	0.00	0.00	0.00	e0.00	0.00	0.28	0.00	0.00	0.00	0.00
9	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.85	0.03	0.00	0.09	0.00
10	0.00	0.04	0.11	0.00	0.00	0.03	0.00	e0.00	0.17	0.00	0.03	0.00
11	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.93	0.98	0.00	0.34	0.00
12	0.00	0.00	0.00	0.34	e0.00	0.00	0.33	0.02	0.00	0.00	0.01	0.00
13	0.01	0.00	0.00	0.00	0.32	0.00	0.01	0.33	0.00	0.14	0.03	0.27
14	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.10	0.00	0.00	0.00
15	0.02	0.08	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.07	0.00	0.00	0.00	0.00	0.04	0.02	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
18	0.03	0.14	0.00	0.00	0.00	e0.00	0.00	0.33	0.00	0.00	1.08	0.00
19	0.27	0.22	0.00	0.00	0.00	e0.00	0.70	0.13	0.00	0.00	0.00	0.86
20	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.43	0.02	0.00
21	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00
22	0.40	0.00	0.00	0.00	0.00	0.00	0.32	0.04	0.00	0.00	0.00	0.01
23	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.00	0.00
24	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.24
25	0.00	0.00	0.00	e0.00	e0.00	0.00	0.04	0.00	2.59	1.30	0.00	1.03
26	0.40	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.45	0.02	0.00
27	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
29	0.31	0.00	0.00	0.00	---	0.00	0.00	0.05	0.01	0.00	0.00	0.00
30	0.02	0.00	0.03	0.00	---	0.33	0.00	0.00	0.08	0.00	0.00	0.00
31	0.00	---	0.00	e0.00	---	0.02	---	0.00	---	0.00	0.00	---
TOTAL	3.09	1.52	1.16	0.96	0.74	0.56	2.04	3.30	5.72	3.65	1.68	2.65

WTR YR 2005 TOTAL 27.07

(e) Estimated

05432500 PECATONICA RIVER AT DARLINGTON, WI

LOCATION.--Lat 42°40'40", long 90°07'07", in SW¼ NE¼ sec.3, T.2 N., R.3 E., Lafayette County, Hydrologic Unit 07090003, on right bank in Darlington, 0.3 mi downstream from Vinegar Branch, and 3.6 mi upstream from Otter Creek.

DRAINAGE AREA.--273 mi^2.

PERIOD OF RECORD.--September 1939 to current year.

REVISED RECORDS.--WDR WI-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 802.42 ft above NGVD of 1929. Prior to Dec. 19, 1939, nonrecording gage at same site and datum.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	157	134	e130	e100	e140	191	111	95	99	76	62
2	159	185	131	e200	e100	e120	173	111	92	93	74	60
3	158	181	128	e260	e110	e120	164	109	91	90	73	59
4	145	176	127	e180	e110	166	158	107	93	91	74	59
5	137	181	126	e130	e120	364	153	106	165	101	71	61
6	137	163	145	e130	e240	979	152	105	147	93	69	60
7	138	154	188	e120	e1,100	1,460	188	111	108	87	67	59
8	161	144	237	e120	e1,200	1,480	178	115	99	85	66	59
9	162	139	192	e120	e560	329	156	140	99	82	65	60
10	146	139	181	e120	e240	246	148	146	99	80	66	61
11	139	140	181	e120	197	223	142	153	106	78	71	59
12	138	134	169	e160	183	204	148	201	165	77	79	57
13	142	130	151	e440	491	e170	164	170	126	77	80	57
14	145	128	e88	e300	1,800	e160	144	168	106	76	76	62
15	146	131	e130	e220	2,190	164	133	149	100	75	71	60
16	144	138	e120	e180	1,260	180	128	139	97	74	68	58
17	141	140	e120	e140	348	206	130	132	91	73	66	58
18	139	139	e110	e130	209	187	130	128	88	75	98	58
19	144	147	e110	e130	230	259	125	137	86	71	155	121
20	153	159	e110	e130	212	204	137	146	84	70	88	121
21	144	149	e100	e120	205	275	145	126	83	81	75	73
22	142	139	e100	e110	e190	238	137	121	81	88	70	65
23	204	137	e98	e110	169	202	152	118	79	87	68	64
24	253	133	e98	e110	162	192	132	110	78	122	67	65
25	175	129	e98	e110	181	187	125	106	168	96	67	78
26	159	128	e98	e100	217	185	126	103	276	143	67	132
27	177	139	e100	e100	174	181	124	101	187	155	68	92
28	171	165	e110	e100	e160	181	118	102	125	99	67	77
29	161	150	e110	e100	---	181	114	101	112	86	64	77
30	177	138	e120	e100	---	194	112	102	107	81	64	74
31	168	---	e130	e100	---	212	---	99	---	78	63	---
TOTAL	4,844	4,412	4,040	4,620	12,458	9,589	4,327	3,873	3,433	2,763	2,293	2,108
MEAN	156	147	130	149	445	309	144	125	114	89.1	74.0	70.3
MAX	253	185	237	440	2,190	1,480	191	201	276	155	155	132
MIN	137	128	88	100	100	120	112	99	78	70	63	57
CFSM	0.57	0.54	0.48	0.55	1.63	1.13	0.53	0.46	0.42	0.33	0.27	0.26
IN.	0.66	0.60	0.55	0.63	1.70	1.31	0.59	0.53	0.47	0.38	0.31	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

MEAN	132	142	124	154	218	362	243	208	249	203	152	142
MAX	302	674	338	546	738	951	731	780	810	1,796	610	487
(WY)	(1985)	(1962)	(1983)	(1960)	(1953)	(1959)	(1959)	(1960)	(2000)	(1993)	(1993)	(1942)
MIN	39.9	43.8	34.6	31.6	38.3	60.9	69.8	51.1	42.2	32.7	42.1	38.3
(WY)	(1965)	(1965)	(1959)	(1959)	(1959)	(1957)	(1957)	(1958)	(1965)	(1965)	(1958)	(1958)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	91,035		58,760			
ANNUAL MEAN	249		161		194	
HIGHEST ANNUAL MEAN					534	1993
LOWEST ANNUAL MEAN					66.5	1958
HIGHEST DAILY MEAN	2,600	May 23	2,190	Feb 15	11,200	Jul 16, 1950
LOWEST DAILY MEAN	73	Jan 5	57	Sep 12, 13	24	(a)Jul 25, 1965
ANNUAL SEVEN-DAY MINIMUM	(b)99	Dec 21	59	Sep 12	25	Jul 24, 1965
MAXIMUM PEAK FLOW			2,390	Feb 15	(c)22,000	Jul 16, 1950
MAXIMUM PEAK STAGE			12.75	Feb 15	20.71	Jul 16, 1950
INSTANTANEOUS LOW FLOW			56	Sep 12, 13	(d)17	Nov 29, 1966
ANNUAL RUNOFF (CFSM)	0.911		0.590		0.710	
ANNUAL RUNOFF (INCHES)	12.40		8.01		9.64	
10 PERCENT EXCEEDS	451		204		332	
50 PERCENT EXCEEDS	179		128		128	
90 PERCENT EXCEEDS	110		69		58	

(a) Also occurred July 26, 27, 30, 1965
(b) Ice affected
(c) From rating curve extended above 11,000 ft^3/s on basis of slope-area determination of peak flow
(d) Result of freezeup
(e) Estimated

05433000 EAST BRANCH PECATONICA RIVER NEAR BLANCHARDVILLE, WI

LOCATION.--Lat 42°47'08" long 89°51'40", in SE ¼ SE ¼ sec. 26, T.4 N., R.5 E., Lafayette County, Hydrologic Unit 07090003, on left bank at downstream side of bridge on State Highway 78, 1.8 mi south of Blanchardville and 4.5 mi upstream from Sawmill Creek.

DRAINAGE AREA.--221 mi^2.

PERIOD OF RECORD.--September 1939 to September 1986, October 1987 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 796.8 ft above NGVD of 1929. Prior to Dec. 20, 1939, nonrecording gage at bridge 50 ft upstream at same datum.

REMARKS.--Records good except those for periods of discharge over 500 ft^3/s, which are fair, and estimated daily discharges, which are poor (see Introduction). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	131	121	e130	e94	e120	208	129	112	100	93	78
2	129	148	118	e160	e94	e110	184	129	111	99	92	76
3	125	145	117	e170	e98	e110	172	127	110	98	91	76
4	121	139	117	e130	e100	133	164	125	112	101	92	76
5	117	139	116	e120	e100	171	160	123	132	104	88	76
6	118	132	130	e110	e170	458	158	130	124	98	87	75
7	118	129	162	e110	e600	1,130	246	132	111	97	87	75
8	143	123	187	e130	e700	720	201	126	108	96	86	75
9	141	122	149	e130	e210	223	178	143	107	95	86	76
10	123	122	148	e130	e150	182	169	147	108	93	87	76
11	120	122	151	e130	e140	167	162	163	115	92	88	74
12	119	118	e140	e140	150	160	166	193	123	92	95	74
13	120	117	e130	e300	226	e130	179	177	116	96	94	75
14	121	116	e120	e270	1,040	e120	157	181	111	93	90	76
15	121	118	e120	e240	984	136	150	157	110	90	88	74
16	121	122	e110	e200	445	153	146	149	108	89	87	75
17	119	122	e110	e160	213	173	147	144	105	88	85	74
18	119	121	e110	e140	166	150	145	139	103	87	97	74
19	121	126	e100	e120	183	229	141	156	101	86	98	94
20	125	134	e100	e120	157	174	165	156	100	89	88	87
21	120	127	e100	e110	149	281	155	138	99	164	84	76
22	120	122	e90	e100	e140	210	151	135	98	202	82	76
23	156	122	e90	e100	138	183	156	130	97	106	82	75
24	184	119	e88	e98	136	184	144	127	96	109	82	76
25	135	117	e88	e94	140	183	141	123	115	101	82	87
26	128	117	e88	e96	160	180	142	122	158	152	82	113
27	134	125	e92	e94	142	183	140	120	128	140	84	87
28	131	140	e98	e94	136	188	134	120	107	107	81	81
29	128	126	e100	e94	---	194	132	119	104	101	79	83
30	141	122	e110	e94	---	201	131	119	103	98	79	82
31	142	---	e120	e94	---	274	---	115	---	95	78	---
TOTAL	3,977	3,783	3,620	4,208	7,161	7,210	4,824	4,294	3,332	3,258	2,694	2,372
MEAN	128	126	117	136	256	233	161	139	111	105	86.9	79.1
MAX	184	148	187	300	1,040	1,130	246	193	158	202	98	113
MIN	117	116	88	94	94	110	131	115	96	86	78	74
CFSM	0.58	0.57	0.53	0.61	1.16	1.05	0.73	0.63	0.50	0.48	0.39	0.36
IN.	0.67	0.64	0.61	0.71	1.21	1.21	0.81	0.72	0.56	0.55	0.45	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

MEAN	113	120	111	126	167	255	197	169	175	153	121	119
MAX	252	311	278	354	597	574	547	584	450	885	303	332
(WY)	(1985)	(1962)	(1983)	(1960)	(1948)	(1950)	(1959)	(1973)	(2000)	(1993)	(1993)	(1981)
MIN	54.9	55.8	47.6	46.4	52.1	62.7	71.5	54.5	59.6	48.2	43.7	44.6
(WY)	(1965)	(1965)	(1959)	(1959)	(1959)	(1957)	(1957)	(1958)	(1958)	(1958)	(1958)	(1958)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	62,396		50,733			
ANNUAL MEAN	170		139		152	
HIGHEST ANNUAL MEAN					338	1993
LOWEST ANNUAL MEAN					70.4	1958
HIGHEST DAILY MEAN	1,760	May 24	1,130	Mar 7	7,560	Feb 28, 1948
LOWEST DAILY MEAN	(a)88	Dec 24-26	74	(b)Sep 11	41	(c)Aug 18, 19 1958
ANNUAL SEVEN-DAY MINIMUM	(a)91	Dec 22	75	Sep 11	42	Oct 1, 1958
MAXIMUM PEAK FLOW			1,370	Feb 14	(d)11,700	Feb 28, 1948
MAXIMUM PEAK STAGE			12.30	Feb 14	16.54	Jul 6, 1993
INSTANTANEOUS LOW FLOW			72	Sep 12	(f)18	Nov 29, 1966
ANNUAL RUNOFF (CFSM)	0.771		0.629		0.687	
ANNUAL RUNOFF (INCHES)	10.50		8.54		9.33	
10 PERCENT EXCEEDS	243		182		236	
50 PERCENT EXCEEDS	138		120		113	
90 PERCENT EXCEEDS	98		85		67	

05433000 EAST BRANCH PECATONICA RIVER NEAR BLANCHARDVILLE, WI—Continued

(a) Ice affected
(b) Also occurred Sept. 12, 15, 17, 18
(c) Also occurred Sept. 1, 22, 23, 29, Oct. 2, 6, 1958, and Dec. 19, 20, 1964
(d) Gage height, 15.74 ft
(e) Estimated
(f) Result of freezeup

05434500 PECATONICA RIVER AT MARTINTOWN, WI

LOCATION (revised).--Lat 42°30'36", long 89°48'05", in NE ¼ SE ¼ sec.32, T.1 N., R.6 E., Green County, Hydrologic Unit 07090003, on right bank 8 ft downstream from highway bridge in Martintown, 0.4 mi upstream from Wisconsin-Illinois State line and 8.7 mi downstream from Skinner Creek.

DRAINAGE AREA.--1,034 mi^2.

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1308: 1949-50(M). WDR WI-71-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 757.83 ft above NGVD of 1929. Prior to Nov. 12, 2004, recording gage at site 400 ft downstream at same datum. Prior to Jan. 6, 1940, nonrecording gage at site 400 ft downstream at same datum. Auxiliary wire-weight gage 1.3 mi downstream, at same datum.

REMARKS.--Records good except those for periods of discharge above 2,000 ft^3/s, which are fair, and estimated daily discharges, which are poor (see Introduction). Diurnal fluctuation at low flow may occur from powerplant operations in Argyle, 28.1 mi upstream. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	522	655	578	e523	e403	805	945	531	470	420	328	287
2	535	680	557	e532	e418	714	899	523	454	410	320	281
3	563	692	545	e709	e408	639	821	520	442	396	323	277
4	572	695	535	e843	e427	624	777	516	437	418	311	275
5	544	676	529	e711	e531	773	749	507	519	436	305	273
6	538	672	540	e561	e629	1,340	732	501	606	424	302	275
7	530	639	608	e522	e1,760	2,020	758	506	614	405	295	274
8	554	603	753	e490	e2,410	2,200	828	520	523	385	284	271
9	619	579	813	e495	e2,480	2,420	826	521	476	373	288	272
10	630	561	767	e496	e2,270	2,560	749	556	460	363	286	274
11	582	554	711	e496	e1,800	1,900	710	613	456	346	288	274
12	561	548	692	e500	e1,250	1,160	700	659	454	349	318	271
13	550	541	662	e606	e1,310	926	714	762	503	349	342	269
14	552	530	595	e1,220	e2,320	837	722	771	532	349	337	268
15	561	526	460	e1,280	e3,350	796	695	741	471	350	321	268
16	562	537	e478	e923	e3,870	769	652	687	446	337	316	274
17	560	557	e487	e783	e3,920	773	631	639	433	327	298	275
18	557	565	e485	e588	e3,210	808	624	607	420	316	311	269
19	549	569	e461	e531	e2,700	847	615	595	406	310	366	282
20	549	582	e448	e527	e1,950	996	595	605	399	320	447	362
21	558	594	e450	e522	e1,400	967	595	625	392	326	427	447
22	563	588	e424	e494	1,200	966	633	588	384	364	347	363
23	650	566	e413	e451	1,080	966	631	554	379	482	304	300
24	750	557	e406	e441	893	871	639	538	363	405	302	294
25	804	548	e406	e446	832	827	614	519	374	389	302	317
26	711	536	e406	e441	942	815	593	502	457	401	301	378
27	636	546	e408	e408	945	805	587	489	661	404	301	424
28	623	601	e413	e418	870	800	576	485	644	492	302	422
29	630	628	e452	e424	---	804	558	484	504	424	302	351
30	632	613	e450	e418	---	813	541	486	449	357	295	339
31	643	---	e492	e413	---	846	---	483	---	337	290	---
TOTAL	18,390	17,738	16,424	18,212	45,578	33,387	20,709	17,633	14,128	11,764	9,859	9,206
MEAN	593	591	530	587	1,628	1,077	690	569	471	379	318	307
MAX	804	695	813	1,280	3,920	2,560	945	771	661	492	447	447
MIN	522	526	406	408	403	624	541	483	363	310	284	268
CFSM	0.57	0.57	0.51	0.57	1.57	1.04	0.67	0.55	0.46	0.37	0.31	0.30
IN.	0.66	0.64	0.59	0.66	1.64	1.20	0.75	0.63	0.51	0.42	0.35	0.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	539	590	520	579	814	1,345	962	829	873	788	583	571
MAX	1,226	2,429	1,492	2,049	2,512	3,155	2,943	3,200	2,804	5,190	1,752	1,920
(WY)	(1987)	(1962)	(1983)	(1960)	(1953)	(1950)	(1960)	(1973)	(2000)	(1993)	(1993)	(1965)
MIN	187	211	162	147	182	259	328	234	233	181	167	166
(WY)	(1957)	(1965)	(1959)	(1959)	(1959)	(1957)	(1957)	(1958)	(1965)	(1965)	(1958)	(1958)

05434500 PECATONICA RIVER AT MARTINTOWN, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	325,623		233,028			
ANNUAL MEAN	890		638		749	
HIGHEST ANNUAL MEAN					1,720	1993
LOWEST ANNUAL MEAN					292	1964
HIGHEST DAILY MEAN	5,380	May 26	(a)3,920	Feb 17	14,600	Jul 1, 1969
LOWEST DAILY MEAN	(a)370	(b)Jan 23-27	268	Sep 14, 15	132	Nov 7, 1949
ANNUAL SEVEN-DAY MINIMUM	(a)373	Jan 22	271	Sep 12	(a)140	Jan 18, 1959
MAXIMUM PEAK FLOW			(c)	Feb 17	15,100	Jul 1, 1969
MAXIMUM PEAK STAGE			(d)16.10	Feb 17	21.46	Jul 1, 1969
INSTANTANEOUS LOW FLOW					(f)0.00	Dec 14, 1939
ANNUAL RUNOFF (CFSM)	0.860		0.617		0.724	
ANNUAL RUNOFF (INCHES)	11.71		8.38		9.84	
10 PERCENT EXCEEDS	1,610		895		1,330	
50 PERCENT EXCEEDS	676		535		540	
90 PERCENT EXCEEDS	406		303		262	

(a) Ice affected
(b) Also occurred Jan. 30-Feb. 1
(c) Unknown, ice affected
(d) Backwater from ice jam
(e) Estimated
(f) Result of regulation

05435943 BADGER MILL CREEK AT VERONA, WI

LOCATION.--Lat 42°58'37", long 89°32'22", in NW $^1/_4$ SW $^1/_4$ sec.22, T.6 N., R.8 E., Dane County, Hydrologic Unit 07090004, on left bank 60 ft downstream of Bruce Street, 0.8 mi southwest of intersection of State Highway 69 and County Trunk Highway M, at Verona.

DRAINAGE AREA.--20.3 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 930 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good (see Introduction). Gage-height and water-quality telemeter at station. Effluent discharged into creek continuously at an average rate of 3.0 ft^3/s (data provided by Madison Metropolitan Sewerage District).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	9.2	8.8	9.1	8.8	10	9.4	8.6	8.2	8.7	7.3
2	11	12	9.1	14	9.1	8.5	10	9.3	8.9	8.2	8.9	7.0
3	11	11	8.9	11	9.3	8.5	9.7	9.2	9.2	8.4	9.5	6.8
4	10	11	9.0	9.5	9.3	8.6	9.6	9.2	9.2	8.6	8.5	6.8
5	10	11	9.0	9.2	10	10	9.8	9.3	9.7	8.7	8.0	6.8
6	10	10	11	9.3	29	36	12	10	9.1	8.9	8.0	7.0
7	10	10	17	9.2	69	45	15	9.3	8.9	8.8	8.0	6.7
8	16	9.8	14	9.0	21	15	11	9.2	8.6	8.7	8.0	6.3
9	12	9.6	11	9.1	13	12	10	9.2	8.5	8.9	8.1	6.6
10	11	9.5	10	9.0	10	10	10	8.9	8.7	9.0	8.2	6.7
11	10	9.4	11	9.1	9.7	9.5	10	15	8.5	9.1	8.0	6.7
12	10	9.5	10	26	9.7	9.2	11	11	8.3	9.3	8.3	7.0
13	10	9.2	9.3	47	21	8.9	11	14	8.4	9.3	7.9	7.3
14	10	9.0	9.0	17	66	8.8	10	11	8.3	9.5	7.9	7.4
15	10	9.1	9.0	12	31	8.9	10	9.5	8.2	9.8	7.8	7.3
16	10	9.1	9.1	10	16	9.1	10	9.2	8.1	10	7.9	7.7
17	9.9	9.3	9.1	9.3	12	9.1	10	9.1	8.0	10	7.9	7.3
18	10	9.5	8.9	9.1	10	9.3	10	9.0	7.9	10	8.7	7.2
19	10	9.7	8.7	8.9	9.6	14	10	13	7.8	10	7.9	7.6
20	11	9.6	8.8	8.7	9.7	25	10	12	7.8	11	7.7	7.2
21	10	9.4	8.7	8.8	9.5	16	10	10	7.8	13	7.3	7.3
22	11	9.4	8.6	8.9	9.3	14	10	9.4	7.6	11	7.3	7.3
23	24	9.6	8.4	8.9	9.1	12	10	9.2	7.7	11	7.3	6.9
24	14	9.4	8.3	9.2	9.2	11	10	9.0	7.6	10	7.3	7.4
25	11	9.3	8.4	9.0	9.2	11	10	8.7	9.6	12	7.3	9.8
26	10	9.4	8.2	8.8	9.0	10	10	8.6	13	16	7.3	9.1
27	10	11	8.5	8.6	9.1	9.9	10	8.8	9.7	12	7.4	7.8
28	10	11	8.6	8.7	9.0	9.8	10	8.8	8.6	10	7.3	7.3
29	10	9.8	8.5	8.9	---	9.9	9.8	8.7	8.3	9.4	7.4	7.0
30	10	9.4	8.8	9.0	---	11	9.5	8.7	8.3	9.0	7.4	6.8
31	10	---	8.5	9.0	---	11	---	8.7	---	9.0	7.4	---
TOTAL	343.9	296.0	294.6	353.0	456.9	399.8	308.4	304.4	258.9	306.8	244.6	217.4
MEAN	11.1	9.87	9.50	11.4	16.3	12.9	10.3	9.82	8.63	9.90	7.89	7.25
MAX	24	12	17	47	69	45	15	15	13	16	9.5	9.8
MIN	9.9	9.0	8.2	8.6	9.0	8.5	9.5	8.6	7.6	8.2	7.3	6.3
CFSM	0.55	0.49	0.47	0.56	0.80	0.64	0.51	0.48	0.43	0.49	0.39	0.36
IN.	0.63	0.54	0.54	0.65	0.84	0.73	0.57	0.56	0.47	0.56	0.45	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	8.65	9.76	7.81	7.97	10.9	10.5	10.8	13.3	12.9	10.6	10.5	9.67
MAX	12.5	20.6	10.1	11.4	17.7	13.6	19.3	32.8	29.8	15.8	19.7	15.2
(WY)	(2002)	(2004)	(2002)	(2005)	(1997)	(1997)	(1999)	(2004)	(2000)	(2004)	(2001)	(2001)
MIN	3.55	3.28	3.25	3.67	4.74	7.30	6.34	6.39	6.93	7.94	4.53	3.76
(WY)	(1998)	(1998)	(1998)	(1998)	(1998)	(2000)	(1997)	(1997)	(1997)	(1997)	(1997)	(1997)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	4,700.6		3,784.7			
ANNUAL MEAN	12.8		10.4		10.3	
HIGHEST ANNUAL MEAN					13.3	2004
LOWEST ANNUAL MEAN					7.66	1997
HIGHEST DAILY MEAN	325	May 23	69	Feb 7	325	May 23, 2004
LOWEST DAILY MEAN	6.7	(a)Jan 24	6.3	Sep 8	2.9	Nov 23, 1997
ANNUAL SEVEN-DAY MINIMUM	6.8	Feb 13	6.7	Sep 5	3.1	Nov 21, 1997
MAXIMUM PEAK FLOW			97	Mar 6	(b)567	May 23, 2004
MAXIMUM PEAK STAGE			5.87	Mar 6	(c)8.86	Jun 2, 2000
ANNUAL RUNOFF (CFSM)	0.633		0.511		0.506	
ANNUAL RUNOFF (INCHES)	8.61		6.94		6.87	
10 PERCENT EXCEEDS	15		12		13	
50 PERCENT EXCEEDS	10		9.3		8.8	
90 PERCENT EXCEEDS	7.0		7.5		5.0	

05435943 BADGER MILL CREEK AT VERONA, WI—Continued

(a) Also occurred Feb. 15-17
(b) Gage height, 8.68 ft
(c) Discharge, 466 ft^3/s

05435943 BADGER MILL CREEK AT VERONA, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: November 1996 to current year.
DISSOLVED OXYGEN: May 1998 to current year.

INSTRUMENTATION.--Continuous water temperature recorder since November 1996. Dissolved-oxygen recorder since May 1998.

REMARKS.--Records represent water temperature at sensor within 0.5°C. Effluent discharged continuously into creek after Aug. 28, 1998.

EXTEMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 26.5°C, Aug. 20, 21, and 26, 2003; minimum 0.0°C on many days during winter periods of 1996-98 water years.
DISSOLVED OXYGEN: Maximum, 28.1 mg/L, Apr. 15, 2004; minimum, 1.3 mg/L, Oct. 5, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 24.4°C, July 24; minimum 0.6°C, Feb. 14.
DISSOLVED OXYGEN: Maximum, 24.0 mg/L, Apr. 17; minimum, 1.9 mg/L, May 4.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.3	13.6	14.6	12.1	11.1	11.7	8.7	7.2	8.1	7.2	6.0	6.6
2	14.3	11.6	13.0	11.9	11.0	11.5	9.3	7.9	8.5	6.1	3.2	5.0
3	14.7	11.4	13.1	12.5	11.3	11.8	8.3	7.1	7.7	5.6	4.6	5.2
4	14.1	11.8	12.9	12.3	10.5	11.6	9.5	7.8	8.5	6.8	5.3	6.1
5	13.5	10.2	12.0	11.6	9.5	10.6	9.5	7.5	8.6	5.3	3.9	4.3
6	15.2	11.8	13.5	12.6	10.2	11.4	10.0	7.8	9.2	6.6	3.3	4.8
7	15.1	12.6	14.0	12.1	10.0	11.3	10.0	6.8	8.6	6.3	3.5	5.0
8	16.4	14.8	15.7	11.1	9.0	10.1	8.5	6.8	7.7	7.1	5.8	6.3
9	15.5	13.2	14.4	11.3	9.8	10.6	9.5	8.4	9.0	7.4	6.1	6.8
10	14.9	11.9	13.5	12.7	10.5	11.6	9.7	8.1	9.2	7.5	6.3	6.9
11	14.3	11.5	13.0	12.0	9.3	10.4	8.2	7.7	7.9	7.6	6.3	7.0
12	15.0	12.0	13.5	10.0	7.9	9.0	8.4	6.7	7.7	8.6	0.7	6.3
13	14.0	12.7	13.4	10.3	7.6	9.0	6.7	5.1	5.8	2.2	0.8	1.3
14	13.6	12.7	13.1	10.7	7.9	9.3	6.3	4.5	5.4	2.4	0.8	1.5
15	13.4	12.4	12.8	11.1	9.4	10.3	7.3	5.3	6.2	3.4	1.5	2.3
16	12.4	10.6	11.3	12.6	11.0	11.9	8.4	6.7	7.5	4.3	2.1	3.0
17	12.7	9.8	11.2	13.8	12.5	13.1	7.3	5.9	6.7	4.1	2.3	3.0
18	12.7	11.6	12.2	13.7	12.7	13.3	8.2	5.2	7.2	4.5	2.3	3.3
19	12.6	11.8	12.2	12.7	11.9	12.2	5.2	2.5	3.8	7.1	3.9	6.0
20	13.4	12.5	12.9	12.5	10.6	11.8	6.4	4.4	5.2	6.6	5.6	6.1
21	14.2	12.1	13.0	10.6	9.2	9.9	6.5	4.3	6.0	7.2	2.9	5.7
22	13.6	12.4	12.9	10.9	9.4	10.2	4.4	3.3	3.9	6.1	2.8	4.7
23	15.0	12.9	13.9	11.4	9.5	10.7	4.2	3.0	3.6	5.8	2.4	4.0
24	14.2	12.3	13.2	9.5	7.7	8.6	4.1	2.3	3.1	8.0	4.5	6.2
25	14.1	11.3	12.7	8.8	7.0	8.0	6.0	4.1	5.1	8.6	6.5	7.3
26	13.1	12.3	12.6	9.9	8.6	9.3	5.7	4.1	5.0	7.5	4.3	6.6
27	13.4	12.5	13.0	10.4	8.9	9.8	6.9	4.0	5.5	6.8	3.3	4.8
28	14.5	12.9	13.6	8.9	7.7	8.4	8.2	5.9	7.0	7.2	3.5	5.2
29	15.9	14.2	15.0	9.5	7.9	8.7	7.6	6.3	7.0	8.8	5.9	7.3
30	15.6	12.1	13.6	8.9	6.9	8.0	10.0	7.0	8.4	9.2	6.7	7.8
31	12.9	11.7	12.2	---	---	---	9.8	6.6	8.4	9.3	7.6	8.3
MONTH	16.4	9.8	13.2	13.8	6.9	10.5	10.0	2.3	6.8	9.3	0.7	5.3

05435943 BADGER MILL CREEK AT VERONA, WI—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.0	7.8	8.5	8.9	4.5	6.2	11.8	6.9	9.1	11.7	8.9	10.1
2	9.8	7.1	8.4	9.2	4.0	6.0	14.7	7.5	10.3	11.4	8.6	9.8
3	9.8	5.9	7.5	10.0	3.9	6.4	15.6	7.7	10.8	14.5	8.1	10.9
4	10.4	6.1	7.9	10.1	5.4	7.5	16.0	8.1	11.4	17.5	8.1	12.1
5	10.5	6.8	8.1	11.3	4.4	7.4	16.8	9.8	12.7	18.5	9.3	13.2
6	6.9	1.1	3.7	7.9	1.5	4.1	16.2	11.6	13.5	18.7	11.1	14.0
7	1.4	0.8	1.0	2.4	1.4	1.8	16.2	11.2	13.0	15.2	11.8	13.3
8	3.4	1.3	2.7	6.2	1.7	3.6	16.8	9.3	12.3	19.2	11.5	14.6
9	5.9	2.5	4.1	7.7	3.1	4.9	15.6	9.4	12.0	18.0	13.2	15.0
10	7.3	3.8	5.2	7.0	4.6	5.6	17.1	9.9	12.9	19.7	12.8	15.6
11	8.9	4.6	6.3	8.7	5.0	6.4	15.8	11.0	12.8	15.2	12.9	13.9
12	10.0	5.8	7.2	8.8	4.1	6.0	11.6	9.3	10.1	13.0	11.1	12.0
13	6.9	1.2	5.1	10.2	3.9	6.5	15.7	8.2	11.1	13.2	9.8	11.7
14	2.1	0.6	1.2	9.1	6.0	7.3	16.9	8.6	12.0	15.7	11.2	12.9
15	3.0	1.0	2.1	11.3	4.9	7.4	17.3	8.7	12.3	14.2	10.4	12.1
16	5.1	2.0	3.3	11.5	6.0	8.0	15.3	9.4	12.0	16.9	10.8	13.3
17	5.8	2.8	3.9	9.0	5.8	7.2	17.9	11.2	13.8	16.1	11.2	13.3
18	6.9	2.9	4.5	9.8	5.4	7.3	18.9	10.9	14.2	16.6	12.1	14.0
19	8.7	4.6	6.6	6.1	3.3	4.7	17.6	11.3	14.1	17.4	13.2	14.7
20	7.1	5.6	6.4	7.7	1.5	4.0	15.3	11.6	13.4	19.0	13.8	15.7
21	8.7	6.6	7.5	8.5	2.0	4.6	16.5	9.9	12.6	16.2	12.1	14.2
22	9.4	5.4	7.2	7.7	3.5	5.2	12.8	10.5	11.5	19.9	13.2	15.7
23	9.5	4.4	6.5	9.5	4.7	6.3	12.4	8.3	10.0	16.6	12.6	14.4
24	10.4	5.1	7.2	9.8	4.7	6.8	14.9	7.6	10.5	18.7	11.7	14.8
25	10.5	6.4	8.0	8.3	6.0	6.8	14.7	8.6	11.2	18.3	11.8	14.8
26	9.9	5.5	7.2	11.9	5.9	8.1	12.7	9.2	10.7	18.6	13.0	15.3
27	8.9	6.2	7.3	13.0	5.8	8.6	13.5	9.2	10.9	16.9	12.0	14.2
28	8.0	6.2	7.1	13.9	6.4	9.4	15.9	8.3	11.5	16.0	11.6	13.7
29	---	---	---	12.9	7.8	10.0	15.7	8.9	11.7	16.3	12.1	14.0
30	---	---	---	13.2	9.1	10.5	13.4	9.0	11.0	19.6	12.4	15.5
31	---	---	---	11.8	7.8	9.1	---	---	---	19.7	12.2	15.5
MONTH	10.5	0.6	5.8	13.9	1.4	6.6	18.9	6.9	11.8	19.9	8.1	13.7
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.6	12.4	15.7	20.0	17.2	18.1	23.3	17.9	20.7	21.6	17.6	19.4
2	20.2	13.2	16.3	19.5	15.4	17.5	23.4	18.1	20.8	21.3	16.0	18.5
3	16.6	13.5	15.2	18.5	16.4	17.7	23.7	19.0	21.1	21.5	15.5	18.4
4	18.8	14.4	16.4	18.2	17.2	17.7	22.3	19.6	21.1	20.8	17.3	18.9
5	20.6	15.6	17.8	20.1	16.3	18.3	21.9	17.2	19.6	21.8	17.0	19.3
6	21.4	14.7	17.8	19.6	17.3	18.5	22.3	16.6	19.5	21.6	18.1	19.7
7	21.5	14.9	18.0	20.6	16.8	18.7	22.6	16.9	19.8	22.1	17.4	19.6
8	20.4	15.4	17.9	20.4	17.0	18.9	22.8	17.3	20.0	20.5	18.2	19.2
9	20.2	15.3	17.6	21.3	17.3	19.4	23.4	18.1	20.7	22.4	17.1	19.6
10	21.9	15.3	18.5	21.8	17.9	20.0	22.6	18.7	20.7	23.0	18.3	20.5
11	21.8	16.1	19.1	20.6	17.9	19.4	21.2	18.1	19.1	23.1	18.7	20.7
12	20.9	16.5	18.7	19.8	18.0	18.8	21.2	18.9	19.8	22.6	18.1	20.3
13	20.7	16.1	18.4	21.9	17.7	19.8	19.5	17.4	18.3	22.7	19.2	20.7
14	19.3	16.5	17.8	22.1	18.3	20.3	21.0	16.4	18.6	20.9	17.7	19.2
15	17.6	15.6	16.2	22.1	18.1	20.3	21.6	16.3	18.8	18.4	15.0	16.8
16	19.8	13.9	16.8	22.2	18.2	20.4	21.7	16.9	19.2	20.5	16.0	18.0
17	18.4	14.2	16.5	22.6	18.3	20.7	22.0	16.5	19.2	20.7	15.0	17.8
18	19.4	14.1	16.9	22.5	19.4	21.1	22.4	18.3	20.2	21.2	16.9	18.8
19	20.3	14.5	17.5	22.0	17.6	20.0	23.2	18.5	20.8	21.1	17.8	19.2
20	20.9	15.2	18.2	21.4	18.0	19.6	23.2	19.2	21.0	21.3	16.1	18.6
21	21.6	16.4	19.0	22.1	18.3	19.9	22.0	17.3	19.6	21.9	16.6	19.1
22	20.6	16.4	18.7	23.2	18.5	20.7	19.8	16.5	18.2	21.1	18.4	19.5
23	21.9	16.4	19.3	21.6	18.9	19.9	20.0	15.2	17.5	19.5	15.9	17.7
24	22.7	17.6	20.3	24.4	18.9	21.4	20.3	15.6	17.9	18.2	15.8	17.1
25	22.6	18.6	19.6	23.6	19.6	21.2	20.3	17.4	18.7	19.9	17.6	18.6
26	22.9	18.2	21.1	23.8	19.8	21.0	20.8	17.5	19.1	19.2	16.8	18.4
27	23.3	19.9	21.6	21.2	18.1	19.6	22.3	18.3	20.0	19.6	14.9	17.1
28	21.7	19.0	20.0	21.5	16.9	19.1	21.9	16.8	19.2	17.6	14.8	16.5
29	21.6	18.1	19.9	21.4	16.8	19.1	21.7	16.4	18.9	17.0	13.1	14.9
30	21.8	18.6	20.2	22.4	16.8	19.5	21.5	16.7	19.0	17.9	13.3	15.4
31	---	---	---	23.1	18.4	20.7	21.3	16.4	18.7	---	---	---
MONTH	23.3	12.4	18.2	24.4	15.4	19.6	23.7	15.2	19.5	23.1	13.1	18.6
YEAR	24.4	0.6	12.5									

05435943 BADGER MILL CREEK AT VERONA, WI—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.6	6.6	8.1	10.7	8.9	9.5	12.9	9.8	11.0	12.3	10.6	11.2
2	11.7	6.2	8.6	12.3	9.0	10.3	13.2	9.8	10.9	13.6	11.5	12.4
3	11.9	7.3	9.0	12.6	9.0	10.3	13.1	9.7	11.0	12.6	11.1	11.9
4	11.9	7.0	9.0	12.4	8.8	10.0	12.9	9.5	10.7	12.7	10.9	11.4
5	12.0	7.7	9.4	13.0	8.9	10.4	12.4	9.4	10.5	12.2	10.9	11.4
6	11.4	6.9	8.8	12.4	8.5	9.9	10.5	8.9	9.6	12.1	10.5	11.2
7	11.2	6.6	8.2	12.3	8.4	9.8	10.7	8.8	9.9	12.0	9.9	10.8
8	8.7	5.9	7.0	12.7	8.6	10.2	12.1	9.6	10.5	11.4	9.8	10.4
9	10.7	6.6	8.1	11.7	8.4	9.6	10.7	9.4	9.8	10.6	9.4	9.9
10	11.2	6.8	8.4	11.6	7.6	9.2	10.6	9.5	10.0	11.0	9.4	10
11	11.8	6.9	8.8	11.4	7.4	9.1	12.6	10.4	11.2	---	---	---
12	12.0	6.9	8.7	11.5	8.0	9.3	13.1	10.6	11.4	---	---	---
13	10.4	6.7	7.9	11.8	8.2	9.5	14.5	11.2	12.7	---	---	---
14	10.7	6.7	8.0	12.7	8.4	9.9	14.3	11.6	12.7	---	---	---
15	11.3	6.9	8.3	10.8	8.3	9.2	13.9	10.9	12.2	---	---	---
16	10.2	7.0	8.2	10.6	8.2	9.0	13.3	10.6	11.5	---	---	---
17	11.9	7.4	9.0	10.6	8.0	8.9	13.1	10.4	11.4	---	---	---
18	10.4	7.0	8.3	11.6	7.9	9.2	11.4	10.0	10.6	---	---	---
19	9.0	7.1	7.7	10.1	8.2	8.9	13.3	10.8	12.0	---	---	---
20	10.5	7.1	8.3	11.1	8.3	9.5	12.8	9.9	11.2	---	---	---
21	12.0	7.3	8.9	13.8	9.4	11.1	12.3	9.7	10.7	---	---	---
22	9.4	6.7	7.9	13.5	9.5	11.0	12.9	10.2	11.2	---	---	---
23	8.8	6.7	7.7	13.0	9.3	10.6	11.8	9.9	10.6	---	---	---
24	10.7	7.8	8.7	12.9	9.8	11.0	11.4	9.2	10.3	---	---	---
25	12.2	7.8	9.2	13.6	10.1	11.5	10.3	8.2	9.2	---	---	---
26	10.0	7.7	8.6	12.6	9.6	10.8	---	---	---	---	---	---
27	10.4	7.8	8.8	11.0	9.3	10	---	---	---	---	---	---
28	12.9	8.0	9.6	13.2	9.8	11.2	---	---	---	---	---	---
29	10.4	7.8	8.6	13.4	10.3	11.3	11.4	9.2	10.2	10.9	10.3	10.6
30	12.0	6.9	9.3	13.2	10.0	11.3	10.9	9.4	10.1	10.9	10.1	10.5
31	12.9	8.9	10.2	---	---	---	12.6	9.4	10.8	11.1	10.1	10.5
MONTH	12.9	5.9	8.6	13.8	7.4	10.1	14.5	8.2	10.9	13.6	9.4	10.9
		FEBRUARY			MARCH			APRIL			MAY	
1	11.3	10.1	10.6	16.4	9.8	12.0	20.1	10.2	13.7	14.6	5.3	9.2
2	11.8	9.8	10.5	16.4	10.1	12.1	20.8	10.1	13.3	14.1	5.4	8.8
3	11.3	9.8	10.4	17.0	10.0	12.3	21.2	10.0	13.3	14.1	4.4	8.8
4	11.6	9.8	10.5	17.8	9.6	12.5	21.4	9.8	13.3	10.3	1.9	5.6
5	12.1	9.8	10.6	19.3	9.5	12.7	21.5	9.3	13.0	15.3	2.5	9.3
6	---	---	---	14.0	10.3	11.4	21.8	8.6	12.8	12.7	7.1	8.9
7	---	---	---	11.7	11.1	11.6	17.4	9.3	12.2	11.6	7.0	8.8
8	---	---	---	12.2	10.9	11.5	20.2	9.6	13.1	11.4	6.7	8.6
9	---	---	---	12.5	10.3	11.2	21.1	9.6	13.4	10.3	6.7	7.9
10	---	---	---	12.4	10.0	10.9	21.4	9.0	13.1	10.4	6.2	8.0
11	---	---	---	14.6	10.0	11.6	20.8	8.4	12.6	9.3	5.9	7.8
12	---	---	---	16.1	10.1	12.3	20.4	6.6	12.8	10.1	7.8	8.9
13	---	---	---	16.7	10.1	12.4	23.6	13.0	18.2	10.3	8.0	8.8
14	---	---	---	16.9	9.9	12.5	22.6	11.6	17.4	10.0	7.9	8.7
15	---	---	---	19.4	10.0	13.2	22.2	6.8	13.6	9.8	7.9	8.8
16	---	---	---	19.5	9.6	13.0	21.2	6.5	11.9	9.9	7.5	8.6
17	---	---	---	18.4	9.5	12.6	24.0	7.3	13.3	9.7	7.4	8.4
18	---	---	---	21.0	9.7	13.4	18.9	5.5	11.4	9.7	7.2	8.2
19	---	---	---	14.9	9.9	12.0	18.6	5.2	10.1	9.5	7.2	8.1
20	---	---	---	14.3	10.7	12.0	12.7	4.9	7.9	10.0	7.3	8.3
21	11.9	10.2	10.8	13.2	11.2	11.9	18.3	5.8	10.4	10.2	7.3	8.6
22	11.9	10.3	11.0	13.9	11.1	12.1	14.1	5.6	8.4	10.0	7.1	8.2
23	12.7	11.0	11.7	15.6	10.6	12.3	---	---	---	9.8	6.9	8.1
24	13.1	10.5	11.6	16.1	9.2	11.8	---	---	---	10.6	7.2	8.5
25	13.9	10.2	11.5	15.3	9.4	11.4	---	---	---	10.8	7.2	8.7
26	14.5	10.4	11.9	17.7	9.2	12.2	15.1	5.6	9.4	10.6	6.9	8.5
27	14.7	10.1	11.8	19.1	8.9	12.5	16.7	5.9	10.0	11.2	7.2	8.8
28	15.4	9.9	11.6	19.7	8.4	12.7	16.5	5.8	9.9	11.7	7.2	9.3
29	---	---	---	20.4	8.3	12.7	17.6	5.5	9.8	12.0	7.7	9.5
30	---	---	---	20.5	8.7	12.1	15.8	5.9	9.8	12.4	7.9	9.7
31	---	---	---	18.4	9.5	12.6	---	---	---	13.8	8.0	10.2
MONTH	15.4	9.8	11.1	21.0	8.3	12.2	24.0	4.9	12.2	15.3	1.9	8.6

05435943 BADGER MILL CREEK AT VERONA, WI—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.9	8.1	10.5	13.4	5.5	9.3	13.8	5.5	8.8	11.6	5.7	8.0
2	13.7	7.7	10.2	14.0	6.3	9.7	14.2	5.5	9.1	11.8	5.9	8.1
3	11.7	7.2	9.2	12.9	6.0	9.4	10.9	5.4	7.7	11.9	6.0	8.2
4	12.5	6.9	9.4	10.3	5.9	8.0	14.0	5.1	8.6	12.0	5.8	8.0
5	12.2	5.3	8.7	13.4	6.4	9.5	14.4	5.7	9.4	11.8	5.9	8.2
6	13.1	6.7	9.2	13.5	5.6	9.1	14.2	5.8	9.2	11.6	5.8	8.1
7	13.0	6.6	9.3	14.1	5.9	9.4	14.1	5.6	9.0	11.7	6.1	8.2
8	13.5	6.4	9.4	13.9	5.7	9.3	14.1	5.5	9.0	10.3	6.0	7.7
9	13.9	6.6	9.2	13.7	5.6	9.2	14.0	5.4	8.9	11.4	5.8	8.0
10	13.8	6.4	9.5	13.6	5.4	9.0	13.4	5.0	8.4	11.0	5.4	7.5
11	14.2	4.4	9.2	13.2	5.4	9.1	10.6	5.3	7.5	11.0	5.2	7.3
12	13.6	6.0	9.3	12.5	5.6	8.6	12.3	4.4	8.1	10.8	5.2	7.4
13	13.6	6.3	9.4	13.6	5.6	9.1	11.4	5.7	8.2	9.9	4.6	6.5
14	13.8	6.1	9.4	14.0	5.2	9.0	13.8	6.1	9.2	10.4	4.5	7.1
15	12.4	5.3	8.8	15.3	5.3	9.5	13.0	5.9	8.7	11.3	5.9	8.2
16	14.6	7.1	10.2	15.3	6.0	10	12.9	5.7	8.5	11.4	6.3	8.1
17	14.1	6.6	9.8	15.4	5.8	9.9	13.1	5.7	8.5	11.8	6.2	8.2
18	14.8	6.8	10.1	15.1	5.6	9.5	9.8	4.0	6.6	11.5	6.1	8.0
19	15.0	6.7	10.1	15.1	6.1	9.8	11.6	4.1	7.3	10.0	5.5	7.1
20	14.7	6.0	9.7	11.8	6.0	8.2	11.2	4.9	7.3	11.2	6.0	7.9
21	14.8	6.2	9.8	11.5	5.7	7.7	11.6	5.3	7.7	10.8	6.1	7.7
22	15.0	6.0	9.9	13.8	5.7	8.9	11.4	5.6	8.0	10.0	5.9	7.3
23	14.8	6.0	9.7	9.2	5.5	7.3	11.2	6.0	8.1	11.1	6.2	8.2
24	14.8	5.5	9.4	13.4	5.5	8.6	12.0	6.0	8.3	8.7	5.8	7.3
25	13.8	3.5	8.4	12.9	5.1	7.8	11.5	5.7	7.9	7.4	5.9	6.6
26	10.3	4.8	7.1	7.2	4.9	6.1	11.0	5.7	7.7	9.5	5.9	7.3
27	13.4	4.9	8.6	11.9	5.8	8.2	11.7	5.5	7.8	11.0	6.7	8.2
28	12.9	5.0	8.3	13.1	5.9	8.6	11.5	5.7	8.0	8.7	6.7	7.4
29	13.8	5.4	9.1	13.1	5.8	8.8	11.8	5.9	8.1	11.5	7.1	8.7
30	13.5	5.0	8.9	13.9	5.8	8.9	11.9	5.9	8.2	11.2	7.1	8.6
31	---	---	---	13.7	5.3	8.6	12.1	6.0	8.2	---	---	---
MONTH	15.0	3.5	9.3	15.4	4.9	8.8	14.4	4.0	8.3	12.0	4.5	7.8
YEAR	24.0	1.9	9.7									

05436500 SUGAR RIVER NEAR BRODHEAD, WI

LOCATION.--Lat 42°36'42", long 89°23'53", in SW $^1/_4$ sec.26, T.2 N., R.9 E., Green County, Hydrologic Unit 07090004, on left bank at downstream side of highway bridge, 1.2 mi southwest of Brodhead, and 1.9 mi upstream from Sylvester Creek.

DRAINAGE AREA.--523 mi^2.

PERIOD OF RECORD.--January 1914 to current year. Monthly discharge only for January and February 1914 published in WSP 1308.

REVISED RECORDS.--WSP 1238: 1914-16, 1918, 1922, 1927, 1933. WSP 1508: 1916-17(M), 1919(M), 1920, 1921(M), 1927-28(M), 1930(M), 1931, 1936(M), 1943(M). WDR WI-73-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 768.14 ft above NGVD of 1929. Prior to Oct. 17, 1938, nonrecording gage 20 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see Introduction). Some regulation from dam and non-operational powerplant upstream. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	336	342	e310	e290	408	503	303	255	204	198	151
2	267	356	328	347	e280	377	497	300	248	212	190	149
3	274	392	317	399	e280	358	451	298	251	211	184	146
4	274	399	312	405	e280	359	412	299	260	223	184	146
5	266	375	306	346	e280	373	394	276	357	242	181	146
6	261	363	315	e510	e320	572	386	282	454	243	177	147
7	261	347	362	e480	e800	956	374	286	356	222	172	146
8	291	331	452	e420	e1,200	1,160	392	289	299	214	168	144
9	303	317	515	e350	e1,600	1,310	442	287	276	205	165	147
10	308	313	476	e310	e1,200	1,130	405	286	265	197	163	149
11	312	308	426	e290	e900	680	369	300	264	190	163	147
12	284	305	413	e290	580	496	364	342	281	198	180	144
13	293	299	393	e450	547	434	378	385	264	212	194	141
14	293	296	e310	e700	1,550	406	382	423	257	202	190	142
15	277	296	e300	e870	2,480	388	361	435	252	190	180	144
16	277	301	e270	e900	2,590	380	344	372	244	182	174	150
17	274	307	e260	e890	1,880	391	337	334	238	178	168	149
18	273	309	e240	e800	1,280	402	331	314	231	174	171	151
19	276	314	e240	e600	777	422	323	320	226	160	181	174
20	277	319	e230	e510	588	547	322	355	221	163	189	193
21	278	324	e220	e450	499	627	333	429	217	185	176	185
22	280	319	e210	e420	e490	643	347	379	206	225	166	169
23	322	313	e210	e400	e480	629	365	335	199	240	166	162
24	382	307	e210	e380	455	552	367	312	199	229	164	164
25	422	299	e210	e370	428	514	342	298	206	252	159	193
26	378	295	e210	e350	449	488	333	291	263	291	157	230
27	342	316	e210	e340	465	467	329	281	337	302	162	234
28	327	356	e240	e330	433	447	320	279	313	269	163	215
29	323	384	e240	e320	---	448	312	276	263	240	158	205
30	324	362	e260	e320	---	456	307	278	243	219	155	204
31	327	---	e280	e310	---	484	---	272	---	209	153	---
TOTAL	9,300	9,858	9,307	14,167	23,401	17,304	11,122	9,916	7,945	6,683	5,351	4,967
MEAN	300	329	300	457	836	558	371	320	265	216	173	166
MAX	422	399	515	900	2,590	1,310	503	435	454	302	198	234
MIN	254	295	210	290	280	358	307	272	199	160	153	141
CFSM	0.57	0.63	0.57	0.87	1.60	1.07	0.71	0.61	0.51	0.41	0.33	0.32
IN.	0.66	0.70	0.66	1.01	1.66	1.23	0.79	0.71	0.57	0.48	0.38	0.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

MEAN	286	309	274	295	433	650	461	380	378	304	260	295
MAX	788	836	597	1,168	1,690	1,698	1,159	1,368	1,320	1,248	694	1,579
(WY)	(1928)	(1962)	(1929)	(1916)	(1938)	(1929)	(1993)	(1973)	(2000)	(1993)	(1924)	(1938)
MIN	126	127	120	89.4	127	181	198	140	113	117	105	106
(WY)	(1965)	(1965)	(1956)	(1956)	(1959)	(1934)	(1938)	(1934)	(1934)	(1958)	(1934)	(1958)

05436500 SUGAR RIVER NEAR BRODHEAD, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1914 - 2005	
ANNUAL TOTAL	158,733		129,321			
ANNUAL MEAN	434		354		360	
HIGHEST ANNUAL MEAN					694	1993
LOWEST ANNUAL MEAN					172	1934
HIGHEST DAILY MEAN	4,080	May 25	2,590	Feb 16	10,800	Mar 14, 1929
LOWEST DAILY MEAN	(a)200	(b)Jan 29-31	141	Sep 13	51	Jun 13, 1934
ANNUAL SEVEN-DAY MINIMUM	(a)203	Jan 27	145	Sep 8	71	Jun 28, 1934
MAXIMUM PEAK FLOW			2,850	Feb 16	(c)14,800	Sep 13, 1915
MAXIMUM PEAK STAGE			7.06	Feb 16	(d)11.40	Sep 13, 1915
INSTANTANEOUS LOW FLOW					35	Sep 19, 1959
ANNUAL RUNOFF (CFSM)	0.829		0.677		0.689	
ANNUAL RUNOFF (INCHES)	11.29		9.20		9.36	
10 PERCENT EXCEEDS	676		501		585	
50 PERCENT EXCEEDS	336		302		265	
90 PERCENT EXCEEDS	220		168		151	

(a) Ice affected
(b) Also occurred Feb. 1, 2
(c) From rating curve extended above 7,500 ft^3/s
(d) From floodmarks
(e) Estimated

05437500 ROCK RIVER AT ROCKTON, IL

LOCATION.--Lat 42°26'55", long 89°04'11" (NAD of 1927), in SW ¼ NE ¼ sec.24, T.46 N., R.1 E., Winnebago County, Hydrologic Unit 07090005, on right bank 750 ft downstream from State Highway 75 in Rockton, 1.0 mi downstream from Pecatonica River, and at mile 156.1.

DRAINAGE AREA.--6,363 mi^2.

PERIOD OF RECORD.--June 1903 to July 1906, October 1906 to November 1907, January 1908 to March 1909, July 1914 to September 1919, October 1939 to current year. Published as "below mouth of Pecatonica River at Rockton" 1903-9; as "at Rockford" 1914-19. Monthly discharge only for some periods, for 1903-1950, published in WSP 1308.

REVISED RECORD.--WSP 325: 1903-9. WSP 895: 1904(M). WSP 1508: 1915, 1916-17(M). WDR IL-75-1: Drainage area. WDR IL-97-1: 1996 (Dec. 10-23).

GAGE.--Water-stage recorder, U.S. Army Corps of Engineers satellite telemeter and raingage, and crest-stage gage. Datum of gage is 707.94 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1906, nonrecording gage at site 800 ft upstream at datum about 1 ft higher. Oct. 1, 1906, to Mar. 31, 1909, nonrecording gage at site 800 ft upstream at datum about 2 ft higher. July 30, 1914, to Apr. 30, 1919, nonrecording gage at site at Rockford about 21 mi downstream, at different datum. Oct. 1, 1939, to Aug. 10, 1973, at site 800 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Low flow regulated by powerplant upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1937 reached a stage of 14.6 ft (backwater from ice), from floodmark.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,180	3,080	3,420	3,290	3,300	7,190	7,010	3,360	2,350	1,950	1,690	1,520
2	2,220	3,430	3,640	e3,300	3,180	6,770	7,130	3,220	2,540	1,830	1,730	1,410
3	2,240	3,200	3,560	e3,500	3,160	6,400	7,190	3,240	2,570	1,770	1,740	1,390
4	2,190	3,360	3,360	e3,400	2,360	6,260	7,130	3,180	2,540	1,740	1,710	1,420
5	2,500	3,220	3,430	e3,200	2,700	6,040	6,980	3,150	2,820	1,800	1,680	1,300
6	2,340	3,090	3,510	e3,000	3,130	6,220	6,930	3,120	3,520	1,890	1,660	1,320
7	2,470	3,180	3,670	e2,900	6,250	7,270	7,080	3,090	3,380	1,940	1,610	1,350
8	2,490	3,010	3,780	e2,900	8,070	7,690	6,940	3,080	2,980	1,840	1,560	1,410
9	2,700	3,610	4,030	e2,800	7,730	7,930	6,790	3,020	2,620	1,760	1,410	1,450
10	2,640	2,920	4,300	e2,800	7780	8,250	6,830	2,970	2,280	1,720	1,560	1,360
11	2,670	3,860	4,700	e2,900	8,080	8,540	6,800	3,350	2,240	1,670	1,540	1,290
12	2,330	3,910	4,510	3,300	8,400	8,610	6,840	4,080	2,270	1,710	1,730	1,320
13	2,270	3,430	4,340	4,980	8,720	8,300	6,700	4,030	2,400	1,690	1,720	1,320
14	2,430	3,250	3,760	5,770	11,800	7,710	6,480	3,780	2,510	1,760	1,610	1,280
15	2,580	2,730	3,800	5,850	13,400	7,090	6,300	3,940	2,420	1,660	1,740	1,290
16	2,250	2,800	3,450	3,840	13,300	6,590	3,140	4,340	2,530	1,610	1,590	1,430
17	2,140	2,700	3,560	7,680	13,800	6,390	5,970	4,300	2,130	1,390	1,620	1,290
18	2,180	2,740	3,230	9,090	14,100	6,290	5,780	4,230	2,020	1,480	1,640	1,150
19	2,460	2,830	2,720	9,400	13,800	6,470	5,540	4,410	1,950	1,270	1,740	1,570
20	2,140	3,440	e2,600	8,250	13,100	6,810	5,450	4,460	1,910	1,600	2,280	1,310
21	2,260	3,590	e2,600	7,540	12600	6,760	5,390	4,350	1,880	2,040	2,220	1,370
22	2,380	3,440	e2,700	e6,600	12,100	6,880	5,280	4,270	1,900	1,870	2,030	1,410
23	2,710	2,790	e2,900	e6,200	11,900	6,970	5,240	4,160	1,850	1,840	1,940	1,510
24	2,590	2,750	e2,900	e5,600	11,300	6,980	5,080	4,110	1,440	1,800	1,770	1,550
25	2,780	2,860	e2,800	e5,200	10,200	6,990	4,860	3,980	1,720	1,990	1,690	1,640
26	3,140	3,060	e2,800	e4,800	8,950	6,920	4,640	3,880	2,130	2,690	1,630	2,060
27	3,290	3,090	e2,800	e4,600	8,060	6,820	4,310	3,690	2,080	2,990	1,590	1,850
28	3,280	3,290	e2,900	e4,300	7,610	6,760	4,150	3,660	2,270	2,840	1,590	1,870
29	3,100	3,280	e3,000	e3,900	---	6,780	4,080	3,170	2,410	2,590	1,550	1,780
30	2,910	3,430	e3,100	e3,700	---	6,810	3,570	2,890	2,120	2,270	1,540	1,710
31	2,720	---	e3,300	3,560	---	6,890	---	2,590	---	1,940	1,570	---
TOTAL	78,580	95,370	105,170	151,150	248,880	218,380	178,610	113,100	69,780	58,940	52,680	43,930
MEAN	2,535	3,179	3,393	4,876	8,889	7,045	5,954	3,648	2,326	1,901	1,699	1,464
MAX	3,290	3,910	4,700	9,400	14,100	8,610	7,190	4,460	3,520	2,990	2,280	2,060
MIN	2,140	2,700	2,600	2,800	2,360	6,040	3,570	2,590	1,440	1,270	1,410	1,150
CFSM	0.40	0.50	0.53	0.77	1.40	1.11	0.94	0.57	0.37	0.30	0.27	0.23
IN.	0.46	0.56	0.61	0.88	1.46	1.28	1.04	0.66	0.41	0.34	0.31	0.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	3,105	3,524	3,297	3,224	3,935	7,190	7,259	5,399	4,694	3,742	2,891	2,857
MAX	13,340	11,320	9,049	9,432	8,889	13,920	18,530	17,770	16,960	17,000	9,039	7,753
(WY)	(1987)	(1986)	(1983)	(1960)	(2005)	(1974)	(1993)	(1973)	(2000)	(1993)	(1993)	(1972)
MIN	857	1,100	1,004	800	1,000	1,692	2,476	1,103	1,248	1,056	793	780
(WY)	(1965)	(1940)	(1959)	(1940)	(1940)	(1954)	(1958)	(1958)	(1977)	(1965)	(1958)	(1958)

05437500 ROCK RIVER AT ROCKTON, IL—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	2,054,650		1,414,570			
ANNUAL MEAN	5,614		3,876		4,259	
HIGHEST ANNUAL MEAN					9,484	1993
LOWEST ANNUAL MEAN					1,568	1958
HIGHEST DAILY MEAN	18,600	Jun 4	14,100	Feb 18	29,700	Mar 25, 1975
LOWEST DAILY MEAN	1,870	Jan 6	1,150	Sep 18	501	Sep 14, 1958
ANNUAL SEVEN-DAY MINIMUM	1,900	Jan 29	1,300	Sep 12	622	Oct 2, 1958
MAXIMUM PEAK FLOW			14,300	Feb 18	30,000	Mar 25, 1975
MAXIMUM PEAK STAGE			9.24	Feb 18	15.54	Mar 25, 1975
INSTANTANEOUS LOW FLOW			803	Sep 18		
ANNUAL RUNOFF (CFSM)	0.882		0.609		0.669	
ANNUAL RUNOFF (INCHES)	12.01		8.27		9.09	
10 PERCENT EXCEEDS	12,900		7,150		8,390	
50 PERCENT EXCEEDS	3,820		3,080		3,240	
90 PERCENT EXCEEDS	2,190		1,590		1,310	

(e) Estimated

05438283 PISCASAW CREEK NEAR WALWORTH, WI

LOCATION.--Lat 42°31'18", long 88°39'39", in NE $^1/_4$ NE $^1/_4$ sec.25, T.1 N., R.15 E., Walworth County, Hydrologic Unit 07090006, on right bank 0.9 mi upstream from County Trunk Highway B bridge, 3.2 mi southwest of Walworth.

DRAINAGE AREA.--9.58 mi^2.

PERIOD OF RECORD.--September 1992 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 935 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair (see Introduction). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.2	0.99	0.89	0.99	1.4	1.4	0.88	0.96	0.80	0.72	0.62
2	1.1	1.3	0.95	4.2	0.96	1.3	1.4	0.90	0.92	0.79	0.72	0.62
3	1.1	1.2	0.94	1.2	1.1	1.2	1.4	0.90	0.94	0.78	0.72	0.62
4	1.1	1.2	1.0	0.99	1.2	1.2	1.4	0.90	0.97	0.80	0.71	0.66
5	1.1	1.2	1.0	0.97	3.3	3.3	1.5	0.91	1.1	0.78	0.70	0.65
6	1.2	1.1	1.2	0.93	29	13	1.5	1.1	1.00	0.77	0.69	0.61
7	1.2	1.4	1.6	0.89	85	7.8	1.4	0.99	1.0	0.76	0.65	0.56
8	1.2	1.1	1.5	0.89	8.3	2.5	1.2	0.96	1.0	0.74	0.62	0.56
9	1.1	1.1	1.3	0.89	3.4	1.8	1.2	1.1	1.0	0.74	0.66	0.52
10	1.1	1.1	1.2	0.82	2.4	1.6	1.2	1.1	0.92	0.73	0.68	0.48
11	1.1	1.1	1.2	0.83	1.9	1.4	1.2	1.1	4.6	0.72	0.66	0.45
12	1.1	1.1	1.2	21	3.2	1.4	1.2	1.0	2.3	0.74	0.74	0.42
13	1.1	1.1	1.1	28	63	2.5	1.1	1.1	1.7	0.73	0.65	0.42
14	1.1	1.2	1.0	3.2	103	4.7	1.1	1.1	1.6	0.71	0.64	0.42
15	1.2	1.2	0.97	1.9	22	2.1	1.0	1.0	1.4	0.71	0.64	0.42
16	1.2	1.1	0.95	1.5	6.7	1.3	1.0	0.98	1.2	0.69	0.63	0.44
17	1.1	1.1	0.94	1.2	3.9	1.2	1.1	0.93	1.1	0.68	0.62	0.47
18	1.2	1.1	0.93	1.2	2.5	1.4	0.99	0.90	1.1	0.68	0.64	0.47
19	1.2	1.1	0.93	1.1	2.1	8.7	0.99	1.4	1.0	0.68	0.63	0.50
20	1.2	1.2	0.93	1.1	2.0	4.3	0.95	2.3	1.0	0.74	0.94	0.49
21	1.2	1.1	0.90	1.0	3.3	1.8	0.91	1.8	0.99	0.76	0.70	0.48
22	1.5	1.1	0.88	1.0	2.9	1.5	1.00	1.4	0.96	0.74	0.68	0.50
23	1.2	1.1	0.88	0.99	2.2	1.4	1.0	1.3	0.95	0.76	0.68	0.49
24	1.9	1.0	0.84	0.99	1.8	1.3	1.0	1.3	0.93	0.75	0.68	0.49
25	1.9	0.99	0.87	0.98	2.0	1.2	1.00	1.2	0.90	0.74	0.68	0.57
26	1.4	1.0	0.88	0.94	1.9	1.2	0.99	1.2	0.95	0.74	0.67	0.73
27	1.3	1.1	0.88	0.91	1.6	1.3	0.99	1.2	0.89	0.75	0.67	0.59
28	1.1	1.1	0.89	0.92	1.8	1.4	0.99	1.1	0.84	0.80	0.71	0.66
29	1.1	1.1	0.88	0.92	---	1.4	0.90	1.1	0.80	0.74	0.70	0.64
30	1.1	1.1	0.89	0.91	---	1.5	0.93	1.0	0.80	0.73	0.69	0.60
31	1.1	---	0.87	0.94	---	1.4	---	0.98	---	0.71	0.63	---
TOTAL	37.5	33.89	31.49	84.20	363.45	79.5	33.94	35.13	35.82	22.99	21.15	16.15
MEAN	1.21	1.13	1.02	2.72	13.0	2.56	1.13	1.13	1.19	0.74	0.68	0.54
MAX	1.9	1.4	1.6	28	103	13	1.5	2.3	4.6	0.80	0.94	0.73
MIN	1.0	0.99	0.84	0.82	0.96	1.2	0.90	0.88	0.80	0.68	0.62	0.42
CFSM	0.13	0.12	0.11	0.28	1.35	0.27	0.12	0.12	0.12	0.08	0.07	0.06
IN.	0.15	0.13	0.12	0.33	1.41	0.31	0.13	0.14	0.14	0.09	0.08	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)

MEAN	2.07	1.93	1.86	2.25	4.99	3.75	3.50	3.52	7.63	2.73	1.89	1.93
MAX	3.68	3.29	4.54	5.85	13.1	12.0	12.4	8.44	17.2	6.22	4.27	4.48
(WY)	(1994)	(1993)	(1993)	(1993)	(1997)	(1993)	(1993)	(2004)	(1999)	(1993)	(1993)	(1993)
MIN	1.21	1.08	0.99	0.88	1.23	0.69	1.00	1.13	1.19	0.74	0.68	0.54
(WY)	(2005)	(1997)	(1998)	(2004)	(1995)	(1996)	(1996)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005	
ANNUAL TOTAL	865.14		795.21			
ANNUAL MEAN	2.36		2.18		3.15	
HIGHEST ANNUAL MEAN					6.41	1993
LOWEST ANNUAL MEAN					1.32	1995
HIGHEST DAILY MEAN	102	May 22	103	Feb 14	251	Feb 21, 1997
LOWEST DAILY MEAN	0.80	(a)Feb 1	0.42	Sep 12-15	0.42	Sep 12-15, 2005
ANNUAL SEVEN-DAY MINIMUM	0.80	Feb 7	0.43	Sep 11	0.43	Sep 11, 2005
MAXIMUM PEAK FLOW			332	Feb 14	(b)571	Jun 13, 1999
MAXIMUM PEAK STAGE			8.43	Feb 14	(c)10.05	Jun 30, 1993
INSTANTANEOUS LOW FLOW			0.38	Sep 12, 13	0.38	Sep 12, 13 2005
ANNUAL RUNOFF (CFSM)	0.247		0.227		0.329	
ANNUAL RUNOFF (INCHES)	3.36		3.09		4.47	
10 PERCENT EXCEEDS	3.5		1.9		4.5	
50 PERCENT EXCEEDS	1.2		1.0		1.8	
90 PERCENT EXCEEDS	0.88		0.65		0.96	

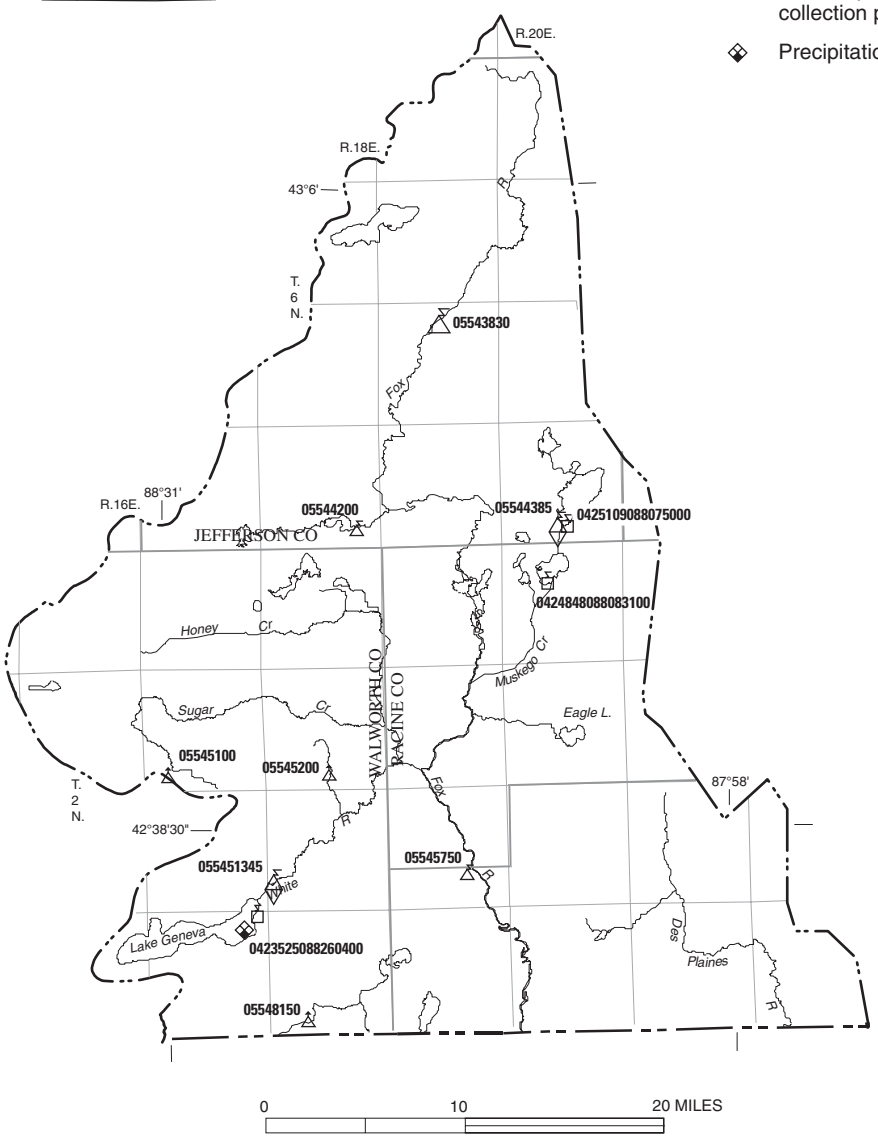
05438283 PISCASAW CREEK NEAR WALWORTH, WI—Continued

(a) Also occurred Feb. 2, 4, 7, 8, 10-15
(b) Gage height, 9.69 ft
(c) Discharge, 322 ft^3/s



EXPLANATION

- 05543830 Station number
- △ Stream gage
- ▽ Surface water-quality station
- Stream gage equipped with telephone or data collection platform
- Crest-stage partial-record station
- Lake gage equipped with telephone or data collection platform
- Precipitation gage



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

ILLINOIS RIVER BASIN

05527800 DES PLAINES RIVER AT RUSSELL, IL

LOCATION.--Lat 42°29'21", long 87°55'35" (NAD of 1927), in SE $^1/_4$ sec.3, T.46 N., R.11 E., Lake County, Hydrologic Unit 07120004, on right bank at upstream side of Russell Road bridge, 0.3 mi west of Russell, 7.2 mi upstream from Mill Creek, and at mile 109.3.

DRAINAGE AREA.--123 mi^2.

PERIOD OF RECORD.--June 1967 to current year.

REVISED RECORDS.--WDR IL-75-1: Drainage area. WDR IL-76-1: 1960-68(M), 1973(M).

GAGE.--Water-stage recorder, phone telemeter, raingage, and crest-stage gage. Datum of gage is 662.00 ft above NGVD of 1929. Oct. 17, 1961, to June 29, 1967, crest-stage gage at left downstream side of bridge at datum 4.29 ft higher.

REMARKS.--Records good except those estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.10	9.9	50	6.0	e38	128	108	29	9.0	1.1	0.43	0.01
2	0.24	34	51	12	36	129	117	27	7.9	1.0	0.17	0.00
3	0.57	41	45	21	34	108	142	25	6.7	0.86	0.08	0.00
4	0.78	34	40	27	37	99	165	23	6.6	0.78	0.01	0.00
5	0.84	32	36	e27	44	100	174	21	12	0.74	0.00	0.00
6	0.93	26	42	e24	62	125	174	18	24	0.62	0.00	0.00
7	1.0	21	85	e20	124	199	168	17	26	0.64	0.00	0.00
8	1.5	15	161	e18	203	249	157	16	19	0.69	0.00	0.00
9	1.6	12	170	e17	240	265	147	16	11	0.60	0.00	0.00
10	2.5	11	165	e16	255	256	134	20	8.7	0.48	0.00	0.00
11	2.6	8.7	152	17	253	236	118	28	8.0	0.36	0.00	0.00
12	2.3	7.9	132	29	237	208	103	49	9.6	0.29	0.00	0.00
13	1.8	7.3	102	204	229	172	89	65	8.6	0.23	3.4	0.00
14	1.2	8.0	75	283	328	136	79	75	7.3	0.16	5.2	0.00
15	1.3	9.0	61	280	458	109	70	61	8.2	0.11	3.9	0.00
16	2.5	10	38	262	609	94	63	48	6.7	0.08	2.7	0.00
17	4.2	11	31	234	631	91	57	38	6.3	0.03	1.8	0.00
18	2.7	12	19	197	545	92	54	31	5.0	0.00	1.7	0.00
19	2.3	16	e16	150	427	102	51	37	4.3	0.00	1.8	0.00
20	2.2	31	e12	107	356	129	54	60	3.4	0.00	8.3	0.00
21	2.0	33	11	82	310	154	57	68	2.5	0.25	25	0.00
22	1.5	28	7.8	e72	271	160	58	61	1.6	2.3	17	0.19
23	4.9	24	5.7	e66	241	155	61	50	1.3	2.3	7.7	11
24	16	19	4.0	e63	205	148	60	40	1.1	2.5	3.7	13
25	9.6	20	3.0	61	173	140	56	32	0.78	2.3	1.9	5.7
26	5.6	33	2.7	59	150	131	50	26	0.69	2.9	0.98	7.1
27	4.6	33	2.6	56	126	124	47	20	0.81	2.8	0.59	12
28	4.6	44	2.7	50	120	117	43	16	0.88	2.3	0.29	6.4
29	5.6	50	2.9	e43	---	111	37	13	0.82	1.4	0.23	3.5
30	9.4	48	3.1	e41	---	108	33	12	1.1	1.0	0.15	2.1
31	9.6	---	5.5	e39	---	109	---	11	---	0.79	0.06	---
TOTAL	106.56	688.8	1,534.0	2,583.0	6,742	4,484	2,726	1,053	209.88	29.61	87.09	61.00
MEAN	3.44	23.0	49.5	83.3	241	145	90.9	34.0	7.00	0.96	2.81	2.03
MAX	16	50	170	283	631	265	174	75	26	2.9	25	13
MIN	0.10	7.3	2.6	6.0	34	91	33	11	0.69	0.00	0.00	0.00
CFSM	0.03	0.19	0.40	0.68	1.96	1.18	0.74	0.28	0.06	0.01	0.02	0.02
IN.	0.03	0.21	0.46	0.78	2.04	1.36	0.82	0.32	0.06	0.01	0.03	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2005, BY WATER YEAR (WY)

MEAN	40.6	66.7	84.5	66.6	109	206	216	139	107	52.9	37.5	49.6
MAX	364	390	382	279	327	673	718	695	642	363	417	410
(WY)	(1987)	(1986)	(1983)	(1993)	(1974)	(1979)	(1993)	(2004)	(2000)	(1978)	(1978)	(1972)
MIN	0.06	1.60	3.06	1.46	1.19	14.9	33.4	6.15	1.90	0.78	0.23	0.060
(WY)	(1995)	(2000)	(1977)	(1977)	(2003)	(1968)	(1977)	(1977)	(1988)	(1988)	(1999)	(1994)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1967 - 2005	
ANNUAL TOTAL	52,281.24		20,304.94			
ANNUAL MEAN	143		55.6		97.9	
HIGHEST ANNUAL MEAN					206	1993
LOWEST ANNUAL MEAN					9.24	1977
HIGHEST DAILY MEAN	3,260	May 24	631	Feb 17	3,260	May 24, 2004
LOWEST DAILY MEAN	0.01	Sep 29	0.01	(a)	0.00	(b)
ANNUAL SEVEN-DAY MINIMUM	0.08	Sep 25	0.00	Aug 5	0.00	Jul 27, 1988
MAXIMUM PEAK FLOW			672	Feb 17	3,500	May 23, 2004
MAXIMUM PEAK STAGE			7.41	Feb 17	11.09	May 23, 2004
ANNUAL RUNOFF (CFSM)	1.16		0.452		0.796	
ANNUAL RUNOFF (INCHES)	15.81		6.14		10.81	
10 PERCENT EXCEEDS	339		165		268	
50 PERCENT EXCEEDS	33		16		34	
90 PERCENT EXCEEDS	2.3		0.08		2.6	

(a) Many days
(b) At times in most years
(e) Estimated

05543830 FOX RIVER AT WAUKESHA, WI

LOCATION.--Lat 43°00'17", long 88°14'37", in SW $^1/_4$ SW $^1/_4$ sec.3, T.6 N., R.19 E., Waukesha County, Hydrologic Unit 07120006, on left bank 40 ft downstream from Prairie Street bridge in Waukesha, 1.0 mi downstream from dam and 3.2 mi downstream from Pewaukee River.

DRAINAGE AREA.--126 mi^2.

PERIOD OF RECORD.--January 1963 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 793.04 ft above NGVD of 1929 (levels by City of Waukesha).

REMARKS.--Records good except those for estimated daily discharges, which are fair (see Introduction). There is occasional regulation from mill dam 1.0 mi upstream. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	54	46	41	62	83	256	73	46	36	24	25
2	28	75	44	133	66	78	258	67	41	28	20	22
3	24	59	41	102	66	77	243	60	38	30	18	16
4	24	57	42	84	67	73	216	55	38	39	20	17
5	25	58	41	66	77	75	191	55	48	40	18	15
6	23	48	63	58	99	99	184	89	43	35	15	16
7	21	41	117	e56	189	235	212	103	39	31	16	17
8	27	41	128	e52	214	259	213	86	37	30	20	17
9	33	38	97	53	189	216	193	92	37	27	18	17
10	28	38	86	53	169	172	168	103	36	22	16	18
11	29	43	87	51	140	132	144	143	31	21	18	18
12	29	39	77	161	117	111	127	146	30	23	32	18
13	29	36	61	392	132	98	116	147	33	28	27	27
14	28	34	51	e350	295	96	92	138	33	27	23	22
15	32	37	54	e320	354	91	80	119	34	24	22	18
16	33	36	48	e250	327	90	70	102	35	22	20	19
17	31	36	49	e170	260	95	68	85	31	20	17	20
18	28	36	44	e120	185	98	64	72	25	21	33	17
19	26	51	39	e80	147	122	64	144	24	20	32	25
20	25	65	40	e76	125	140	77	161	24	33	30	24
21	25	53	38	e73	120	155	75	125	24	46	27	20
22	25	46	e36	e71	115	167	78	100	22	49	24	71
23	62	41	e32	e70	107	162	80	85	22	54	20	49
24	56	37	e29	e68	103	160	70	76	22	58	20	25
25	36	34	e28	e67	102	170	65	66	25	42	20	68
26	32	35	30	e66	97	174	64	58	54	61	21	144
27	32	50	34	e64	94	179	65	59	44	46	47	91
28	34	63	35	e63	92	189	62	53	35	35	29	52
29	34	55	33	e60	---	202	59	50	28	28	22	40
30	42	49	33	60	---	220	71	45	36	24	21	33
31	42	---	37	59	---	246	---	45	---	24	24	---
TOTAL	970	1,385	1,620	3,389	4,110	4,464	3,725	2,802	1,015	1,024	714	981
MEAN	31.3	46.2	52.3	109	147	144	124	90.4	33.8	33.0	23.0	32.7
MAX	62	75	128	392	354	259	258	161	54	61	47	144
MIN	21	34	28	41	62	73	59	45	22	20	15	15
CFSM	0.25	0.37	0.41	0.87	1.16	1.14	0.99	0.72	0.27	0.26	0.18	0.26
IN.	0.29	0.41	0.48	1.00	1.21	1.32	1.10	0.83	0.30	0.30	0.21	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2005, BY WATER YEAR (WY)

MEAN	73.8	81.0	80.0	65.9	96.3	185	204	143	108	79.2	65.0	74.7
MAX	346	303	207	188	247	451	598	494	370	271	217	385
(WY)	(1987)	(1986)	(1992)	(1973)	(2001)	(1974)	(1993)	(2004)	(1996)	(1993)	(1998)	(1986)
MIN	6.44	8.14	4.80	6.35	6.26	22.5	53.4	26.6	19.0	9.33	8.23	6.44
(WY)	(1964)	(1964)	(1964)	(1964)	(1964)	(1968)	(1963)	(1977)	(1964)	(1963)	(1963)	(1963)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1963 - 2005	
ANNUAL TOTAL	46,179		26,199			
ANNUAL MEAN	126		71.8		106	
HIGHEST ANNUAL MEAN					193	1993
LOWEST ANNUAL MEAN					31.6	1964
HIGHEST DAILY MEAN	1,270	May 24	392	Jan 13	2,160	Apr 22, 1973
LOWEST DAILY MEAN	21	Oct 7	15	(a)Aug 6	(b)3.2	(c)Dec 29-31 1963
ANNUAL SEVEN-DAY MINIMUM	25	Sep 22	16	Sep 3	(b)3.3	Dec 26, 1963
MAXIMUM PEAK FLOW			542	Jan 12	2,260	Apr 22, 1973
MAXIMUM PEAK STAGE			4.76	Jan 12	7.42	Apr 22, 1973
ANNUAL RUNOFF (CFSM)	1.00		0.570		0.842	
ANNUAL RUNOFF (INCHES)	13.63		7.73		11.44	
10 PERCENT EXCEEDS	317		164		234	
50 PERCENT EXCEEDS	54		49		66	
90 PERCENT EXCEEDS	29		21		21	

(a) Also occurred Sept. 5
(b) Ice affected
(c) Also occurred Jan. 1, 1964
(e) Estimated

05544200 MUKWONAGO RIVER AT MUKWONAGO, WI

LOCATION.--Lat 42°51'24", long 88°19'40", in NE $^1/_4$ NE $^1/_4$ sec.35, T.5 N ., R.18 E., Waukesha County, Hydrologic Unit 07120006, on left bank 100 ft upstream from bridge on State Highway 83 in Mukwonago, 100 ft downstream from railroad bridge, and 800 ft downstream from dam.

DRAINAGE AREA.--74.1 mi^2.

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

REVISED RECORDS.--WDR WI-79-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 779.23 ft above NGVD of 1929 (Southeastern Wisconsin Regional Planning Commission bench mark). Prior to Oct. 19, 1981, at datum 0.85 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair (see Introduction). Discharge affected by manipulation of gates at dams 800 ft and 11.4 mi upstream. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	51	48	31	46	54	99	45	30	45	22	22
2	28	66	51	61	45	51	92	34	21	19	21	20
3	26	66	49	69	44	43	88	29	22	21	21	18
4	27	63	48	69	44	35	65	19	23	21	21	17
5	27	50	45	69	44	37	59	16	30	21	19	18
6	26	46	47	66	e44	e38	65	33	45	21	18	18
7	25	48	51	53	e49	e66	114	48	59	20	17	23
8	27	48	58	44	e62	90	123	48	49	18	16	19
9	27	46	60	44	84	87	113	51	30	16	16	19
10	36	44	61	32	87	81	106	51	22	16	16	18
11	40	27	69	29	79	77	71	68	22	15	15	18
12	38	22	105	e53	56	74	52	61	20	15	19	17
13	36	24	e41	e110	50	52	53	59	19	27	18	19
14	25	25	e30	146	97	45	53	64	20	28	18	20
15	24	27	30	136	122	46	52	81	20	26	17	19
16	27	30	31	96	121	46	51	85	20	24	17	20
17	26	47	38	50	112	46	39	35	19	22	16	21
18	28	54	39	43	75	46	36	19	18	20	21	21
19	32	55	38	46	63	49	38	26	17	17	28	22
20	43	55	37	46	67	54	80	58	16	21	36	22
21	45	52	36	47	67	73	89	67	15	41	38	22
22	38	52	35	e48	63	80	50	62	15	42	35	27
23	39	54	34	e50	60	79	37	54	14	45	35	27
24	39	52	33	51	60	77	38	48	16	74	33	27
25	54	50	32	48	60	73	39	46	15	51	32	63
26	60	46	31	48	59	57	47	27	21	51	28	211
27	57	46	25	47	59	51	50	19	28	30	28	125
28	42	46	23	47	57	56	47	21	41	31	26	123
29	37	38	24	47	---	77	46	22	46	44	26	155
30	41	38	26	46	---	93	46	23	72	40	26	91
31	42	---	29	46	---	111	---	46	---	25	23	---
TOTAL	1,088	1,368	1,304	1,818	1,876	1,944	1,938	1,365	805	907	722	1,262
MEAN	35.1	45.6	42.1	58.6	67.0	62.7	64.6	44.0	26.8	29.3	23.3	42.1
MAX	60	66	105	146	122	111	123	85	72	74	38	211
MIN	24	22	23	29	44	35	36	16	14	15	15	17
CFSM	0.47	0.62	0.57	0.79	0.90	0.85	0.87	0.59	0.36	0.39	0.31	0.57
IN.	0.55	0.69	0.65	0.91	0.94	0.98	0.97	0.69	0.40	0.46	0.36	0.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2005, BY WATER YEAR (WY)

MEAN	47.0	54.6	52.3	45.5	53.7	72.2	74.7	63.7	54.2	41.8	43.8	44.9
MAX	98.7	110	83.7	77.8	83.8	151	150	155	138	80.8	83.5	88.7
(WY)	(1987)	(1986)	(1983)	(1974)	(1974)	(1974)	(1993)	(1975)	(1975)	(1993)	(1979)	(1986)
MIN	19.0	29.2	26.2	22.8	29.6	40.6	36.6	16.9	14.4	13.3	15.2	11.7
(WY)	(1998)	(1977)	(1990)	(1977)	(2004)	(2003)	(2003)	(1977)	(1988)	(1988)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1973 - 2005	
ANNUAL TOTAL	18,693		16,397			
ANNUAL MEAN	51.1		44.9		53.9	
HIGHEST ANNUAL MEAN					90.3	1974
LOWEST ANNUAL MEAN					30.8	1977
HIGHEST DAILY MEAN	231	May 23, 24	211	Sep 26	275	Mar 6, 1974
LOWEST DAILY MEAN	17	Apr 13	14	Jun 23	1.8	Dec 23, 1975
ANNUAL SEVEN-DAY MINIMUM	23	Jan 7	15	Jun 19	6.8	Oct 31, 1988
MAXIMUM PEAK FLOW			241	Sep 25	(a)300	Mar 5, 1976
MAXIMUM PEAK STAGE			3.67	Sep 25	3.67	Sep 25, 2005
ANNUAL RUNOFF (CFSM)	0.689		0.606		0.727	
ANNUAL RUNOFF (INCHES)	9.38		8.23		9.88	
10 PERCENT EXCEEDS	97		77		98	
50 PERCENT EXCEEDS	42		42		46	
90 PERCENT EXCEEDS	25		19		21	

05544200 MUKWONAGO RIVER AT MUKWONAGO, WI—Continued

(a) Gage height, 2.50 ft, datum then in use
(e) Estimated

05544385 MUSKEGO (BIG MUSKEGO) LAKE OUTLET NEAR WIND LAKE, WI

LOCATION.--Lat 42°51'09", long 88°07'50", in SE $^1/_4$ NE $^1/_4$ sec.33, T.5 N ., R.20 E., Waukesha County, Hydrologic Unit 07120006, on right bank at dam outlet of Muskego Lake, 700 ft north of Muskego Dam Drive, 2 mi northeast of Wind Lake.

DRAINAGE AREA.--33.9 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1987 to September 1989, October 1995 to current year. Prior to October 1996, published under station number 425109088075000. Prior to October 2000 published as "Muskego Lake Outlet near Wind Lake".

GAGE.--Water-stage recorder. Datum of gage is 760.00 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 18, 1987, nonrecording gage at same site and datum, October 1989 to September 1995, nonrecording gage at same datum.

REMARKS.--Flows for the water year were based on upstream-stage/downstream-stage-discharge ratings for flow through the variably-opened gate or upstream-stage-discharge rating for the dam crest or combination of gate and crest overflow. Records good except for estimated daily disicharges, which are poor (see Introduction).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	18	58	0.00	0.00	0.00	0.00	0.00
2	0.00	e8.8	0.00	0.00	0.00	17	60	0.00	0.00	0.00	0.00	0.00
3	0.00	e21	0.00	0.00	0.00	16	58	0.00	0.00	0.00	0.00	0.00
4	0.00	e21	0.00	9.0	0.00	16	58	0.00	0.00	0.00	0.00	0.00
5	0.00	e21	0.00	20	0.37	15	57	0.00	0.00	0.00	0.00	0.00
6	0.00	e21	0.00	20	3.4	15	57	0.00	0.00	0.00	0.00	0.00
7	0.00	e21	25	20	6.4	22	61	0.00	0.00	0.00	0.00	0.00
8	0.00	e21	38	20	9.0	27	57	0.00	0.00	0.00	0.00	0.00
9	0.00	e21	37	21	11	28	56	0.00	0.00	0.00	0.00	0.00
10	0.00	e8.0	37	21	13	29	56	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	37	21	14	30	56	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	35	21	14	31	56	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	36	21	17	29	56	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	36	21	55	27	54	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	36	21	74	25	38	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	35	21	78	24	21	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	14	21	75	24	21	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	21	70	25	21	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	21	64	30	21	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	8.9	63	33	21	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	61	35	21	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	56	60	21	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	51	73	21	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	47	67	21	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	30	66	9.4	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	18	62	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	18	60	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	18	59	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	58	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	57	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	57	---	0.00	---	0.00	0.00	---
TOTAL	0.00	163.80	366.00	328.90	866.17	1,135	1,036.40	0.00	0.00	0.00	0.00	0.00
MEAN	0.00	5.46	11.8	10.6	30.9	36.6	34.5	0.00	0.00	0.00	0.00	0.00
MAX	0.00	21	38	21	78	73	61	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	15	0.00	0.00	0.00	0.00	0.00	0.00
CFSM	0.00	0.16	0.35	0.31	0.91	1.08	1.02	0.00	0.00	0.00	0.00	0.00
IN.	0.00	0.18	0.40	0.36	0.95	1.25	1.14	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	13.6	11.7	12.3	15.9	33.7	27.0	29.3	25.1	26.8	8.66	3.36	5.93
MAX	44.2	45.6	44.2	43.9	88.6	51.8	55.6	69.7	69.7	39.6	14.8	32.0
(WY)	(1996)	(1996)	(1988)	(1988)	(2001)	(2001)	(1999)	(2000)	(1999)	(2000)	(1998)	(2000)
MIN	0.00	0.00	0.46	0.51	0.00	3.57	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1989)	(2000)	(2001)	(2003)	(2003)	(2003)	(1997)	(2005)	(2005)	(1988)	(1988)	(1988)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	6,817.30		3,896.27			
ANNUAL MEAN	18.6		10.7		17.7	
HIGHEST ANNUAL MEAN					28.3	1999
LOWEST ANNUAL MEAN					6.25	2003
HIGHEST DAILY MEAN	167	May 25	78	Feb 16	198	Jun 15, 1999
LOWEST DAILY MEAN	0.00	Mar 23	0.00	Oct 1	0.00	May 26, 1988
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 29	0.00	Oct 1	0.00	May 26, 1988
ANNUAL RUNOFF (CFSM)	0.549		0.315		0.522	
ANNUAL RUNOFF (INCHES)	7.48		4.28		7.09	
10 PERCENT EXCEEDS	51		38		53	
50 PERCENT EXCEEDS	8.0		0.00		6.6	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

(e) Estimated

423525088260400 GENEVA LAKE AT LAKE GENEVA, WI

LOCATION.--Lat 42°35'25", long 88°26'04" in SE $^1/_4$ NW $^1/_4$ sec.36, T.2 N., R.17 E., Walworth County, Hydrologic Unit 07120006, at Geneva Lake dam at Center Street at Lake Geneva.

DRAINAGE AREA.--28.7 mi^2. Area of Lake Geneva, 5,262 acres.

PERIOD OF RECORD.--October 1997 to August 2002, December 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 862.08 ft above NGVD of 1929. Intermittent staff-gage readings October to March.

REMARKS.--Gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.29 ft, June 13, 2000; minimum gage height, 1.50 ft, Oct. 11, 2003 (affected by wind).

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 2.85 ft, May 13; minimum gage height, 1.53 ft, Dec. 30 (affected by wind).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.02	1.90	2.01	1.82	2.33	2.17	2.24	2.43	2.48	2.39	2.17	2.01
2	2.02	1.95	2.00	1.92	2.32	e2.13	2.25	2.42	2.47	2.36	2.17	1.98
3	2.01	1.94	1.99	1.93	e2.31	e2.10	2.26	2.41	2.47	2.35	2.16	1.96
4	1.97	1.96	2.00	1.94	2.29	e2.08	2.26	2.40	2.48	2.35	2.15	1.95
5	1.96	1.97	1.97	1.96	2.27	2.05	2.27	2.40	2.54	2.34	2.12	1.94
6	1.94	1.94	1.99	2.01	2.27	2.03	2.28	2.41	2.54	2.32	2.11	1.93
7	1.92	1.93	2.05	2.01	2.30	2.02	2.33	2.41	2.52	2.31	2.10	1.92
8	1.92	1.91	2.07	2.00	2.31	1.99	2.34	2.41	2.52	2.31	2.09	1.91
9	1.91	1.91	2.06	2.00	2.30	1.99	2.35	2.43	2.51	2.30	2.08	1.90
10	1.90	1.91	2.06	2.00	2.30	2.02	2.35	2.46	2.51	2.30	2.06	1.90
11	1.89	1.88	2.07	2.00	2.29	2.04	2.35	2.47	2.52	2.28	2.05	1.89
12	1.89	1.88	2.09	2.05	2.27	e2.05	2.37	2.47	2.53	2.27	2.15	1.89
13	1.89	1.87	2.04	2.14	2.28	e2.05	2.40	2.49	2.53	2.27	2.12	1.88
14	1.88	1.87	2.03	2.14	2.39	e2.06	2.40	2.51	2.56	2.26	2.11	1.86
15	1.88	1.87	2.04	2.14	2.40	e2.06	2.40	2.49	2.51	2.26	2.10	1.83
16	1.88	1.89	2.01	e2.15	2.40	e2.07	2.41	2.47	2.48	2.26	2.09	1.83
17	1.83	1.90	1.99	e2.16	2.39	e2.07	2.41	2.47	2.45	2.27	2.08	1.82
18	1.79	1.90	1.98	e2.17	e2.37	2.08	2.41	2.47	2.43	2.27	2.10	1.82
19	1.79	1.93	1.96	e2.18	2.36	2.12	2.42	2.53	2.43	2.23	2.10	1.83
20	1.80	1.97	1.95	e2.19	2.36	2.14	2.44	2.56	2.43	2.23	2.17	1.83
21	1.79	1.96	1.95	e2.20	2.37	2.14	2.43	2.56	2.42	2.26	2.16	1.83
22	1.79	1.96	1.92	2.21	2.35	2.14	2.45	2.57	2.40	2.26	2.13	1.85
23	1.87	1.96	e1.90	2.22	2.31	2.15	2.45	2.55	2.40	2.26	2.10	1.84
24	1.87	1.94	e1.89	2.22	2.28	2.16	2.44	2.54	2.40	2.29	2.08	1.84
25	1.86	1.95	e1.88	2.22	2.26	2.16	2.45	2.53	2.38	2.27	2.06	1.87
26	1.86	1.93	e1.88	2.22	2.22	2.17	2.44	2.53	2.41	2.27	2.06	1.95
27	1.86	1.97	e1.88	e2.24	2.19	2.18	2.44	2.53	2.41	2.24	2.08	1.94
28	1.87	1.98	e1.87	e2.28	2.19	2.18	2.43	2.52	2.41	2.23	2.06	1.95
29	1.90	1.97	1.86	2.33	---	2.19	2.43	2.51	2.39	2.20	2.05	1.94
30	1.96	1.98	1.84	2.34	---	2.20	2.43	2.50	2.43	2.18	2.03	1.93
31	1.89	---	1.84	2.34	---	2.24	---	2.49	---	2.19	2.02	---
MEAN	1.89	1.93	1.97	2.12	2.31	2.10	2.38	2.48	2.47	2.28	2.10	1.89
MAX	2.02	1.98	2.09	2.34	2.40	2.24	2.45	2.57	2.56	2.39	2.17	2.01
MIN	1.79	1.87	1.84	1.82	2.19	1.99	2.24	2.40	2.38	2.18	2.02	1.82

(e) Estimated

055451345 WHITE RIVER AT CENTER STREET AT LAKE GENEVA, WI

LOCATION.--Lat 42°35'26", long 88°26'01", in SE ¼ NW ¼ sec.36, T.2 N., R.17 E., Walworth County, Hydrologic Unit 07120006, on left bank at downstream end of Center Street culvert crossing at Lake Geneva.

DRAINAGE AREA.--28.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1997 to August 12, 2002, December 24, 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 848.22 ft above NGVD of 1929.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.05	0.09	0.06	7.5	8.0	69	0.33	9.3	18	3.3	0.19	0.11
2	0.04	0.03	0.05	7.1	28	68	0.30	7.7	17	0.63	0.19	0.12
3	0.04	0.02	0.05	6.9	43	68	0.26	6.1	17	0.59	0.17	0.14
4	0.04	0.04	0.06	6.9	43	67	0.32	5.5	18	0.65	0.15	0.14
5	0.04	0.03	0.06	7.0	43	66	0.35	5.4	30	0.27	0.14	0.15
6	0.04	0.03	0.06	7.2	42	65	0.42	6.3	30	0.10	0.13	0.13
7	0.04	0.03	0.11	7.3	41	63	0.94	6.8	27	0.06	0.13	0.12
8	0.05	0.03	0.04	7.3	41	62	1.2	6.8	27	0.05	0.13	0.11
9	0.04	0.03	0.04	7.3	41	28	1.6	9.9	26	0.06	0.13	0.11
10	0.04	0.03	0.05	7.3	41	1.5	2.0	13	25	0.05	0.13	0.12
11	0.03	0.04	0.04	7.4	42	1.4	1.6	16	27	0.05	0.14	0.10
12	0.03	0.03	0.04	8.1	42	1.1	4.4	14	28	0.06	0.34	0.09
13	0.03	0.04	0.04	7.6	43	1.1	5.3	20	28	0.06	0.11	0.09
14	0.04	0.04	0.04	7.1	44	1.1	5.7	21	34	0.06	0.10	0.09
15	0.04	0.04	0.04	7.1	45	0.98	5.8	18	25	0.06	0.09	0.10
16	0.03	0.04	3.8	7.1	44	0.90	6.3	15	17	0.08	0.09	0.09
17	0.03	0.04	7.5	7.1	44	0.90	6.6	15	13	0.11	0.09	0.08
18	0.03	0.05	7.4	7.2	43	0.86	7.3	14	10	0.11	0.15	0.06
19	0.03	0.07	7.3	7.6	43	0.89	8.7	26	9.4	0.10	0.11	0.11
20	0.03	0.04	7.4	7.6	44	0.86	11	31	10	0.16	0.37	0.07
21	0.03	0.06	7.4	7.6	44	0.83	9.3	31	9.6	0.20	0.12	0.07
22	0.03	0.06	7.5	7.7	60	0.80	11	32	6.3	0.09	0.14	0.22
23	0.07	0.06	7.5	7.6	67	0.79	12	30	6.8	0.19	0.22	0.05
24	0.01	0.06	7.7	7.7	66	0.79	11	27	7.5	0.10	0.26	0.06
25	0.02	0.06	7.7	7.9	67	0.74	11	25	3.9	0.09	0.22	0.23
26	0.02	0.06	7.6	8.0	68	0.72	10	26	7.3	0.14	0.24	0.05
27	0.02	0.12	7.5	8.0	68	0.71	11	26	7.5	0.15	0.24	0.06
28	0.02	0.05	7.3	8.0	68	0.69	9.1	25	7.5	0.16	0.22	0.07
29	0.02	0.06	7.0	8.1	---	0.71	8.2	23	5.0	0.17	0.21	0.06
30	0.04	0.05	7.0	8.0	---	0.74	8.8	22	9.9	0.17	0.19	0.06
31	0.02	---	7.3	8.1	---	0.39	---	20	---	0.19	0.16	---
TOTAL	1.04	1.43	115.68	232.4	1,313.0	575.50	171.82	553.8	507.7	8.26	5.30	3.06
MEAN	0.03	0.05	3.73	7.50	46.9	18.6	5.73	17.9	16.9	0.27	0.17	0.10
MAX	0.07	0.12	7.7	8.1	68	69	12	32	34	3.3	0.37	0.23
MIN	0.01	0.02	0.04	6.9	8.0	0.39	0.26	5.4	3.9	0.05	0.09	0.05
CFSM	0.00	0.00	0.13	0.26	1.63	0.65	0.20	0.62	0.59	0.01	0.01	0.00
IN.	0.00	0.00	0.15	0.30	1.70	0.75	0.22	0.72	0.66	0.01	0.01	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

MEAN	4.30	5.66	14.6	22.2	32.9	22.9	26.6	51.4	67.2	18.4	3.32	5.08
MAX	18.9	21.3	36.6	50.7	64.2	61.8	47.6	79.8	127	51.0	10.8	26.4
(WY)	(2002)	(2002)	(2002)	(2001)	(1999)	(2001)	(2002)	(1999)	(1999)	(2000)	(2001)	(2001)
MIN	0.03	0.05	0.04	0.03	0.57	0.58	5.73	17.9	16.9	0.27	0.17	0.04
(WY)	(2005)	(2005)	(2004)	(2004)	(2003)	(2003)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1998 - 2005	
ANNUAL TOTAL	7,021.93		3,488.99			
ANNUAL MEAN	19.2		9.56		24.8	
HIGHEST ANNUAL MEAN					34.5	1999
LOWEST ANNUAL MEAN					9.56	2005
HIGHEST DAILY MEAN	244	May 23	69	Mar 1	342	Jun 14, 1999
LOWEST DAILY MEAN	0.01	Oct 24	0.01	Oct 24	0.01	Oct 24, 2004
ANNUAL SEVEN-DAY MINIMUM	0.02	Jan 4	0.02	Oct 24	0.02	Nov 24, 2003
MAXIMUM PEAK FLOW			127	May 13	561	Jun 13, 1999
MAXIMUM PEAK STAGE			9.48	May 13	11.60	Mar 10, 2002
ANNUAL RUNOFF (CFSM)	0.668		0.333		0.863	
ANNUAL RUNOFF (INCHES)	9.10		4.52		11.73	
10 PERCENT EXCEEDS	62		31		66	
50 PERCENT EXCEEDS	1.1		0.80		9.9	
90 PERCENT EXCEEDS	0.02		0.04		0.05	

055451345 WHITE RIVER AT CENTER STREET AT LAKE GENEVA, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1997 to September 1999, October 2000 to August 2002, December 2002 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1997 to September 1999.
TOTAL-PHOSPHORUS DISCHARGE: October 1997 to September 1999, October 2000 to August 2002, December 2002 to current year.

REMARKS.--Records fair. Samples collected by Geneva Lake Environmental Agency using equal-width increment (EWI) method unless otherwise noted.

EXTREMES FOR PERIOD OF RECORD.--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 16 mg/L, APR. 26, 1999; minimum observed, 1 mg/L, on several days.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 3.0 ton, APR. 26, 1999; minimum daily, 0.0 ton, on many days in 1998 and 1999 water years.
TOTAL-PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.40 mg/L, Sept. 8; minimum observed, <0.005 mg/L, Jan. 6 and Feb. 12, 1998, and May 19, 2003.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 8.86 lb, June 13, 2001; minimum daily, 0.00 lb, on several days in 1998 and 1999 water years, and many days in 2002, 2004, and 2005 water years.

EXTREMES FOR CURRENT YEAR.--
TOTAL-PHOSPHORUS CONCENTRATIONS: Maximum observed, 0.040 mg/L, July 7; minimum observed, <0.005 mg/L, May 13.
TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 5.41 lb, Mar. 8; minimum daily, 0.00 lb, on many days.

PHOSPHORUS, WATER, UNFILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.43	0.52	4.93	0.03	0.37	1.31	0.28	0.01	0.00
2	0.00	0.00	0.00	0.41	2.45	4.83	0.03	0.30	1.21	0.05	0.01	0.00
3	0.00	0.00	0.00	0.40	3.94	4.79	0.02	0.23	1.20	0.04	0.00	0.00
4	0.00	0.00	0.00	0.41	3.91	4.91	0.03	0.20	1.24	0.04	0.00	0.00
5	0.00	0.00	0.00	0.41	3.92	5.07	0.03	0.19	2.02	0.01	0.00	0.00
6	0.00	0.00	0.00	0.42	3.90	5.20	0.03	0.21	2.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.43	3.80	5.27	0.07	0.22	1.76	0.00	0.00	0.00
8	0.00	0.00	0.00	0.43	3.74	5.41	0.09	0.22	1.75	0.00	0.00	0.00
9	0.00	0.00	0.00	0.44	3.71	2.51	0.12	0.31	1.68	0.00	0.00	0.00
10	0.00	0.00	0.00	0.44	3.67	0.14	0.14	0.39	1.66	0.00	0.00	0.00
11	0.00	0.00	0.00	0.44	3.67	0.14	0.11	0.45	1.81	0.00	0.00	0.00
12	0.00	0.00	0.00	0.49	3.64	0.12	0.30	0.40	1.95	0.00	0.02	0.00
13	0.00	0.00	0.00	0.46	3.65	0.12	0.35	0.55	1.98	0.00	0.00	0.00
14	0.00	0.00	0.00	0.43	3.75	0.12	0.37	0.57	2.45	0.00	0.00	0.00
15	0.00	0.00	0.00	0.43	3.75	0.12	0.37	0.48	1.82	0.00	0.00	0.00
16	0.00	0.00	0.20	0.44	3.67	0.11	0.39	0.41	1.29	0.00	0.00	0.00
17	0.00	0.00	0.41	0.44	3.59	0.12	0.40	0.40	0.97	0.00	0.00	0.00
18	0.00	0.00	0.40	0.45	3.51	0.12	0.43	0.39	0.78	0.00	0.00	0.00
19	0.00	0.00	0.40	0.48	3.46	0.12	0.50	1.27	0.75	0.00	0.00	0.00
20	0.00	0.00	0.40	0.48	3.52	0.11	0.62	2.33	0.82	0.00	0.02	0.00
21	0.00	0.00	0.41	0.48	3.44	0.10	0.51	2.35	0.80	0.01	0.00	0.00
22	0.00	0.00	0.41	0.48	4.63	0.10	0.59	2.45	0.54	0.00	0.00	0.01
23	0.00	0.00	0.42	0.49	5.14	0.09	0.60	2.24	0.58	0.01	0.01	0.00
24	0.00	0.00	0.43	0.49	5.01	0.09	0.53	2.03	0.65	0.00	0.01	0.00
25	0.00	0.00	0.43	0.51	5.04	0.08	0.54	1.90	0.34	0.00	0.01	0.01
26	0.00	0.00	0.43	0.52	5.05	0.07	0.49	2.00	0.63	0.00	0.01	0.00
27	0.00	0.00	0.42	0.52	5.00	0.07	0.48	1.95	0.65	0.00	0.01	0.00
28	0.00	0.00	0.41	0.52	4.97	0.07	0.41	1.88	0.64	0.00	0.01	0.00
29	0.00	0.00	0.40	0.52	---	0.07	0.35	1.71	0.43	0.00	0.01	0.00
30	0.00	0.00	0.40	0.52	---	0.07	0.37	1.56	0.86	0.00	0.01	0.00
31	0.00	---	0.42	0.52	---	0.03	---	1.42	---	0.01	0.00	---
TOTAL	0.00	0.00	6.39	14.33	108.05	45.10	9.30	31.38	36.57	0.45	0.14	0.02

WTR YR 2005 TOTAL 251.73

055451345 WHITE RIVER AT CENTER STREET AT LAKE GENEVA, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Phosphorus, water, unfltrd mg/L (00665)
JAN				
28...	1145	8.0	10	.012
FEB				
07...	1212	43	10	.017
MAR				
03...	1055	64	10	.013
18...	1500	.86	10	.025
30...	1200	.65	10	.017
APR				
22...	1435	15	10	.010
MAY				
13...	1335	13	10	<.005
26...	1415	22	10	.014
JUN				
09...	0815	25	10	.012
23...	0757	5.7	10	.016
JUL				
07...	0845	.06	10	.040

05545750 FOX RIVER NEAR NEW MUNSTER, WI

LOCATION.--Lat 42°36'39", long 88°13'33", in NW ¼ NW ¼ sec.26, T.2 N., R.19 E., Kenosha County, Hydrologic Unit 07120006, on right bank 40 ft downstream from bridge on County Trunk Highway JB, 2.2 mi north of New Munster, and 17.0 mi upstream from Fox Chain of Lakes.

DRAINAGE AREA.--811 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Prior to October 1993, published as "at Wilmot" under station number 05546500.

REVISED RECORDS.--WSP 1308: 1943(M), 1945(M). WDR WI-67-1: Drainage area. WDR WI-92-1: 1991.

GAGE.--Water-stage recorder. Datum of gage is 735.72 ft above NGVD of 1929 (Racine County Surveyor bench mark). Prior to Sept. 2 1965, nonrecording gage at bridge 400 ft above dam in Wilmot 11 mi downstream at datum 0.50 ft lower, and Sept. 2 1965 to Sept. 30, 1993, recording gage 100 ft downstream from bridge at the lower datum. Removal of dam due to damage was completed by Sept. 15, 1992.

REMARKS.--Records good except those for estimated daily discharges, which are fair (see Introduction). Gage-height telemeter and data-collection platform at station. Occasional regulation from several dams upstream from gage.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	303	339	420	e350	e600	1,150	345	245	169	142	116
2	159	382	323	633	e370	e540	1,170	320	245	185	139	111
3	168	389	311	885	e370	e480	1,180	315	255	174	131	89
4	164	323	319	711	e370	504	1,030	316	237	168	126	88
5	165	391	321	e660	e420	545	929	307	256	167	101	112
6	161	337	335	e600	e560	618	856	276	270	153	99	110
7	171	264	438	e510	e800	1,060	1,010	312	270	159	99	86
8	207	345	594	e410	e900	1,310	1,150	326	260	155	100	86
9	178	285	547	e340	e840	1,220	1,010	367	248	152	99	86
10	175	240	572	e310	e790	1,040	932	406	231	144	98	86
11	176	265	594	e280	e730	891	868	487	221	139	99	89
12	177	291	538	e600	e700	729	812	565	199	135	149	87
13	177	258	462	e800	e790	622	806	490	226	150	136	89
14	182	239	389	e740	e1,600	582	708	535	270	180	124	87
15	209	244	527	e620	e2,200	508	476	527	226	116	119	84
16	200	252	484	e520	e2,200	446	500	501	216	131	116	99
17	195	261	416	e440	e2,000	506	509	434	208	112	109	95
18	197	257	394	e430	e1,600	563	463	413	203	113	113	94
19	180	295	e370	e420	e1,400	635	379	368	190	111	205	101
20	210	336	e370	e400	1,290	856	386	454	178	129	156	99
21	229	332	e360	e390	1,150	855	540	519	152	158	154	100
22	237	341	e350	e380	1,010	886	514	496	145	157	156	127
23	227	332	e340	e370	849	895	550	498	122	180	165	147
24	247	324	e330	e360	693	873	510	459	118	224	153	117
25	285	330	e330	e350	700	850	390	336	126	204	131	196
26	283	257	e350	e340	696	831	306	311	148	262	130	533
27	294	246	e370	e340	638	766	346	308	146	216	128	585
28	256	326	385	e330	623	814	378	298	137	226	124	490
29	258	363	392	e330	---	867	384	286	153	186	122	473
30	263	337	396	e330	---	913	370	285	161	174	124	418
31	243	---	414	e330	---	1,020	---	270	---	150	121	---
TOTAL	6,421	9,145	12,660	14,579	26,639	23,825	20,612	12,130	6,062	5,079	3,968	5,080
MEAN	207	305	408	470	951	769	687	391	202	164	128	169
MAX	294	391	594	885	2,200	1,310	1,180	565	270	262	205	585
MIN	148	239	311	280	350	446	306	270	118	111	98	84
CFSM	0.26	0.38	0.50	0.58	1.17	0.95	0.85	0.48	0.25	0.20	0.16	0.21
IN.	0.29	0.42	0.58	0.67	1.22	1.09	0.95	0.56	0.28	0.23	0.18	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	384	474	449	421	543	1,087	1,053	732	581	389	328	339
MAX	1,931	1,536	1,755	1,818	1,386	2,434	3,591	2,078	1,923	1,382	902	1,763
(WY)	(1987)	(1986)	(1983)	(1960)	(2001)	(1979)	(1993)	(1973)	(2004)	(1969)	(1952)	(1972)
MIN	79.5	113	91.4	87.7	105	252	256	108	124	69.2	57.2	62.7
(WY)	(1957)	(1950)	(1964)	(1940)	(1940)	(1968)	(1958)	(1958)	(1988)	(1958)	(1958)	(1946)

05545750 FOX RIVER NEAR NEW MUNSTER, WI—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	245,366		146,200			
ANNUAL MEAN	670		401		565	
HIGHEST ANNUAL MEAN					1,240	1993
LOWEST ANNUAL MEAN					174	1958
HIGHEST DAILY MEAN	4,470	May 24	(a)2,200	Feb 15, 16	7,100	Apr 1, 1960
LOWEST DAILY MEAN	147	Sep 30	84	Sep 15	35	Sep 9, 1958
ANNUAL SEVEN-DAY MINIMUM	152	Sep 25	87	Sep 9	41	Sep 7, 1958
MAXIMUM PEAK FLOW			(b)2,260	Feb 15	(c)7,520	Mar 31, 1960
MAXIMUM PEAK STAGE			(d)11.55	Feb 15	(a)14.10	Feb 21, 1994
INSTANTANEOUS LOW FLOW			79	Sep 14, 15	0.00	(f)Oct 26, 1945
ANNUAL RUNOFF (CFSM)	0.827		0.494		0.696	
ANNUAL RUNOFF (INCHES)	11.25		6.71		9.46	
10 PERCENT EXCEEDS	1,680		849		1,270	
50 PERCENT EXCEEDS	347		323		369	
90 PERCENT EXCEEDS	177		118		127	

(a) Ice affected
(b) Estimated based on ice measurement
(c) Gage height, 9.25 ft, from graph based on gage readings, site and datum then in use
(d) Backwater from ice
(e) Estimated
(f) Also occurred Aug. 10, 1990