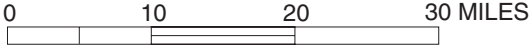


EXPLANATION

- 05391260 Station number
- △ Stream gage
- ▽ Surface water-quality station
- ⚡ Stream gage equipped with telephone or data collection platform
- ⚡ Crest-stage partial-record station



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

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 mi².

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. Datum of gage is 1,569.05 ft above NGVD of 1929 (levels by Wisconsin Valley Improvement Co.).

REMARKS.--Records good (see page 11). 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	407	416	481	627	655	557	318	1,190	762	529	495	549
2	406	424	483	628	634	556	309	1,170	892	530	504	547
3	404	426	484	630	632	557	299	1,100	929	542	509	536
4	402	432	484	630	647	556	303	1,020	868	547	510	528
5	401	437	558	630	643	557	309	917	832	543	513	524
6	399	446	611	630	640	562	310	854	840	539	516	525
7	397	441	613	631	640	560	331	849	845	492	519	523
8	396	440	613	627	641	560	357	825	831	464	525	517
9	394	440	613	627	632	557	351	738	819	467	533	516
10	393	440	617	627	627	560	348	693	807	480	539	513
11	396	440	620	624	624	557	348	692	737	488	543	507
12	418	439	620	620	620	560	350	670	695	487	543	503
13	423	440	621	620	620	566	344	672	698	486	543	496
14	395	440	621	616	613	565	341	681	654	484	542	486
15	377	441	623	616	613	567	351	676	629	486	542	494
16	e372	447	622	612	610	567	366	685	586	491	542	436
17	368	450	623	607	602	567	383	655	557	491	543	402
18	357	459	623	606	600	566	399	631	553	496	545	398
19	349	460	620	604	596	565	417	636	547	495	549	454
20	347	462	620	607	588	558	433	635	543	497	557	483
21	346	464	620	645	587	556	446	741	542	495	562	480
22	346	465	620	687	587	561	455	810	536	491	560	477
23	371	468	620	683	583	556	612	817	529	493	555	477
24	388	471	625	679	580	549	710	817	528	494	545	473
25	396	474	626	677	578	535	715	813	528	497	538	466
26	402	475	633	673	573	533	842	719	526	496	537	463
27	402	476	637	670	569	526	959	660	526	497	540	460
28	406	475	637	667	567	529	1,060	650	528	491	550	457
29	408	479	635	664	558	419	1,110	639	529	489	556	484
30	411	481	635	661	---	314	1,160	632	529	489	565	501
31	411	---	630	658	---	315	---	629	---	493	556	---
TOTAL	12,088	13,548	18,688	19,783	17,659	16,613	15,036	23,916	19,925	15,459	16,676	14,675
MEAN	390	452	603	638	609	536	501	771	664	499	538	489
MAX	423	481	637	687	655	567	1,160	1,190	929	547	565	549
MIN	346	416	481	604	558	314	299	629	526	464	495	398

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2004, BY WATER YEAR (WY)

	650	691	773	819	809	641	415	716	724	666	585	594
MEAN	650	691	773	819	809	641	415	716	724	666	585	594
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 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1936 - 2004

ANNUAL TOTAL	198,879	204,066	
ANNUAL MEAN	545	558	674
HIGHEST ANNUAL MEAN			1,062
LOWEST ANNUAL MEAN			359
HIGHEST DAILY MEAN	1,670	May 18	2,820
LOWEST DAILY MEAN	267	Mar 20	35
ANNUAL SEVEN-DAY MINIMUM	281	Mar 19	107
MAXIMUM PEAK FLOW			3,570
MAXIMUM PEAK STAGE			7.59
10 PERCENT EXCEEDS	772	692	1,030
50 PERCENT EXCEEDS	496	544	644
90 PERCENT EXCEEDS	333	398	314

(a)Also occurred May 1, 2

(e)Estimated due to missing record

WISCONSIN RIVER BASIN

05393500 SPIRIT RIVER AT SPIRIT FALLS, WI

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LOCATION.--Lat 45°26'57", long 89°58'45", in SW 1/4 NW 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 mi².

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 page 11). Gage-height telemeter at station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	24	e26	e24	e9.2	e17	e740	109	293	12	5.4	8.0
2	14	24	e23	e23	e8.6	e18	e720	93	225	11	9.2	8.5
3	13	22	e20	e21	e8.2	e18	719	78	161	9.6	7.7	9.0
4	15	27	e20	e20	e8.6	e18	629	68	121	9.9	5.7	8.3
5	16	45	e21	e18	e9.2	e19	554	60	101	11	4.6	9.6
6	15	37	e20	e17	e9.2	e20	563	54	117	11	3.9	15
7	13	30	e20	e16	e9.2	e20	625	49	98	12	3.6	19
8	14	24	e19	e15	e9.2	e22	568	74	77	12	4.7	17
9	12	20	e18	e14	e9.2	e22	470	90	178	10	6.5	16
10	12	20	e16	e14	e9.2	e22	368	145	334	9.6	9.7	17
11	11	23	e16	e13	e8.8	e20	292	145	212	9.5	10	20
12	19	27	e18	e13	e8.4	e20	232	122	237	11	8.9	19
13	25	25	e18	e13	e8.0	e20	187	298	223	9.6	7.4	21
14	21	25	e18	e12	e7.6	e22	166	343	163	8.2	6.1	24
15	22	25	e19	e12	e7.6	e22	150	315	124	7.2	5.3	43
16	18	24	e19	e12	e8.4	e23	146	223	95	6.7	5.9	54
17	16	25	e19	e12	e8.8	e24	158	163	80	6.0	9.2	39
18	15	65	e20	e12	e9.6	e25	157	130	65	5.7	10	31
19	14	103	e20	e11	e10	e23	286	103	51	6.0	9.9	27
20	14	71	e20	e10	e11	e26	375	96	42	6.1	8.9	26
21	14	56	e20	e10	e11	e23	311	84	35	7.2	7.4	24
22	14	47	e20	e9.6	e12	e24	277	139	30	7.7	6.8	24
23	14	e44	e20	e9.6	e12	e28	218	298	26	7.2	6.2	21
24	14	e38	e19	e9.6	e12	e35	172	620	23	6.4	6.1	25
25	15	e36	e17	e9.8	e13	e74	175	439	21	5.9	6.9	27
26	15	e38	e17	e9.8	e15	e107	225	254	19	5.7	7.7	27
27	14	e35	e19	e9.8	e16	e280	192	186	17	5.5	7.9	24
28	17	e33	e23	e9.2	e16	e760	163	167	15	5.0	7.5	22
29	22	e30	e26	e8.8	e16	e1,500	144	126	14	5.0	7.7	22
30	25	e28	e25	e8.8	---	e880	125	130	14	4.7	7.8	27
31	25	---	e24	e9.2	---	e800	---	279	---	4.8	8.1	---
TOTAL	504	1,071	620	406.2	301.0	4,932	10,107	5,480	3,211	249.2	222.7	674.4
MEAN	16.3	35.7	20.0	13.1	10.4	159	337	177	107	8.04	7.18	22.5
MAX	25	103	26	24	16	1,500	740	620	334	12	10	54
MIN	11	20	16	8.8	7.6	17	125	49	14	4.7	3.6	8.0
CFSM	0.20	0.44	0.25	0.16	0.13	1.95	4.13	2.17	1.31	0.10	0.09	0.28
IN.	0.23	0.49	0.28	0.19	0.14	2.25	4.61	2.50	1.46	0.11	0.10	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, BY WATER YEAR (WY)

MEAN	74.4	73.7	38.4	20.3	19.8	109	330	152	99.2	46.3	37.4	73.7
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 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1942 - 2004

ANNUAL TOTAL	30,964.0	27,778.5	
ANNUAL MEAN	84.8	75.9	88.8
HIGHEST ANNUAL MEAN			140
LOWEST ANNUAL MEAN			36.3
HIGHEST DAILY MEAN	1,710	May 12	3,290
LOWEST DAILY MEAN	4.6	Sep 11	1.0
ANNUAL SEVEN-DAY MINIMUM	5.1	Sep 5	1.4
MAXIMUM PEAK FLOW		(a)1,500	(c)4,180
MAXIMUM PEAK STAGE		(a)7.86	10.00
INSTANTANEOUS LOW FLOW		3.3	1.0
ANNUAL RUNOFF (CFSM)	1.04	0.930	1.09
ANNUAL RUNOFF (INCHES)	14.12	12.66	14.79
10 PERCENT EXCEEDS	200	220	216
50 PERCENT EXCEEDS	20	20	28
90 PERCENT EXCEEDS	9.1	7.7	8.5

(a) Ice affected

(b) Also occurred Aug. 3

(c) From rating curve extended above 2,500 ft³/s

(e) Estimated due to ice effect or missing record