

Water-Data Report 2013

05404116 WEST BRANCH BARABOO RIVER AT HILLSBORO, WI

Wisconsin Basin
Baraboo Subbasin

LOCATION.--Lat 43°39'10", long 90°20'09" referenced to North American Datum of 1983, in NE ¼ NE ¼ sec.35, T.14 N., R.1 E., Vernon County, WI, 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 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1988 to April 2013 (discontinued). Published as South Branch Baraboo River at Hillsboro, July 1988 to September 2008.

REVISED RECORDS.--WDR WI-2007-1: 2007(M), WDR WI-2008-1: 2008(M)

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 927.21 ft above NAVD of 1988 (levels by Mid-State Associates, Baraboo, WI).

REMARKS.--Records good except those for estimated daily discharges, which are poor, and discharges above 1,100 ft³/s which are fair. Flows are occasionally regulated by dam 0.35 mi upstream. Gage-height telemeter at station.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	11	12	13	11	14	13	83	---	---	---	---	---
2	11	12	14	e12	e13	12	58	---	---	---	---	---
3	11	11	14	e12	e13	12	56	---	---	---	---	---
4	11	11	13	e12	e13	e12	69	---	---	---	---	---
5	10	11	12	e11	e13	e12	65	---	---	---	---	---
6	10	12	12	e12	e12	e12	52	---	---	---	---	---
7	11	13	13	12	e12	12	72	---	---	---	---	---
8	11	12	12	13	e11	13	48	---	---	---	---	---
9	13	12	13	13	e11	16	114	---	---	---	---	---
10	14	12	13	13	e20	119	379	---	---	---	---	---
11	12	32	12	19	117	151	120	---	---	---	---	---
12	11	25	12	28	41	54	86	---	---	---	---	---
13	21	16	12	18	27	29	52	---	---	---	---	---
14	59	15	12	13	22	22	55	---	---	---	---	---
15	25	14	22	13	17	20	115	---	---	---	---	---
16	15	14	27	13	14	19	43	---	---	---	---	---
17	14	13	19	12	13	17	61	---	---	---	---	---
18	15	13	17	12	e13	17	128	---	---	---	---	---
19	15	13	16	e12	e13	15	79	---	---	---	---	---
20	13	13	18	e11	e11	16	41	---	---	---	---	---
21	13	13	14	e10	e12	15	35	---	---	---	---	---
22	12	14	15	e8.6	e12	16	53	---	---	---	---	---
23	14	12	14	e8.8	13	16	35	---	---	---	---	---
24	13	12	14	e9.0	13	16	30	---	---	---	---	---
25	15	13	13	e9.5	13	15	27	---	---	---	---	---
26	16	12	13	e9.7	13	16	24	---	---	---	---	---
27	13	11	13	e10	14	23	22	---	---	---	---	---
28	12	12	14	e11	13	48	21	---	---	---	---	---
29	12	12	14	109	---	100	23	---	---	---	---	---
30	12	12	13	34	---	178	56	---	---	---	---	---
31	12	---	14	16	---	199	---	---	---	---	---	---
Total	457	409	447	507.6	523	1,235	2,102	---	---	---	---	---
Mean	14.7	13.6	14.4	16.4	18.7	39.8	70.1	---	---	---	---	---
Max	59	32	27	109	117	199	379	---	---	---	---	---
Min	10	11	12	8.6	11	12	21	---	---	---	---	---
Cfsm	0.38	0.35	0.37	0.42	0.48	1.02	1.79	---	---	---	---	---
In.	0.43	0.39	0.43	0.48	0.50	1.17	2.00	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	17.4	18.0	15.3	14.7	19.6	38.1	37.5	29.7	36.2	21.8	21.3	20.5
Max	38.2	33.1	24.8	26.8	37.3	79.9	95.3	105	160	96.8	85.2	95.3
(WY)	(2008)	(2012)	(2009)	(1996)	(2005)	(2011)	(2008)	(2004)	(2008)	(2010)	(2010)	(1992)
Min	6.79	8.14	4.42	8.95	6.47	14.5	8.47	10.2	8.38	5.83	6.69	6.12
(WY)	(1990)	(1991)	(1990)	(1991)	(2007)	(2000)	(1990)	(2007)	(1989)	(1989)	(1988)	(1990)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013 (October 1 to April 30)		Water Years 1988 - 2013	
Annual total	6,899.6					
Annual mean	18.9				24.2	
Highest annual mean					45.7	2008
Lowest annual mean					13.0	1989
Highest daily mean	178	Apr 20	379	Apr 10	2,150	Jun 8, 2008
Lowest daily mean	9.6	Jul 17	^a 8.6	Jan 22	^b 1.0	Sep 1, 2003
Annual seven-day minimum	10	Jul 5	^a 9.4	Jan 21	^c 1.4	Jul 22, 1994
Maximum peak flow			935	Apr 10	5,260	Jun 8, 2008
Maximum peak stage			12.40	Apr 10	16.12	Jun 8, 2008
Annual runoff (cfsm)	0.482				0.619	
Annual runoff (inches)	6.56				8.41	
10 percent exceeds	27				37	
50 percent exceeds	14				16	
90 percent exceeds	11				8.6	

^a Ice affected.

^b Result of gate regulation at dam 0.35 mi upstream.

^c Result of closing gates to fill lake 0.35 mi upstream.

