Water-Data Report 2013

04073500 FOX RIVER AT BERLIN, WI

Fox Basin
Upper Fox Subbasin

LOCATION.--Lat 43°57′14″, long 88°57′09″ referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.16, T.17 N., R.13 E., Green Lake County, WI, Hydrologic Unit 04030201, on left bank, 0.4 mi downstream from government dam, 1.0 mi south of Huron Street bridge in Berlin, 2.5 mi upstream from Barnes Creek, and at mile 89.0.

DRAINAGE AREA.--1,340 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1898 to current year.

REVISED RECORDS.--WSP 1337: 1910. WDR WI-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 744.52 ft above mean tide at New York City (by U.S. Army Corps of Engineers). Prior to Oct. 27, 1954, nonrecording gage at site 0.3 mi upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Usually less than about 10 ft^3/s was diverted into the basin from the Wisconsin River at Portage Canal throughout the year. Data-collection platform and 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	449	893	734	e689	e688	e858	2,040	3,070	2,070	1,910	834	543
2	450	880	740	e683	e660	e879	2,190	2,960	2,060	1,910	831	535
3	447	865	743	e686	e684	e879	2,320	2,870	2,030	1,900	825	523
4	447	848	760	e683	e656	e879	2,410	2,780	2,000	1,880	802	542
5	459	830	749	e683	e660	e883	2,470	2,690	1,970	1,840	788	543
6	454	817	745	e681	e644	e887	2,500	2,610	1,950	1,790	776	535
7	428	816	753	e681	e648	e903	2,540	2,530	1,920	1,740	780	548
8	433	795	735	e672	e680	e907	2,570	2,460	1,890	1,790	782	535
9	473	789	731	e666	e749	e959	2,650	2,410	1,860	1,820	699	530
10	460	774	722	e666	e802	e1,060	2,890	2,440	1,820	1,840	561	566
11	449	791	730	e720	e846	e1,080	3,100	2,440	1,780	1,830	560	555
12	446	846	731	e755	e850	e1,180	3,320	2,400	1,750	1,800	581	547
13	511	866	731	e812	e870	e1,290	3,480	2,360	1,730	1,770	589	514
14	636	853	743	e792	e909	e1,370	3,540	2,340	1,690	1,730	588	512
15	744	844	752	e755	e939	e1,380	3,650	2,310	1,690	1,690	606	538
16	798	827	789	e740	e980	e1,410	3,670	2,270	1,700	1,630	613	542
17	833	808	809	e709	e947	e1,410	3,660	2,230	1,690	1,580	610	552
18	875	807	817	e669	e907	e1,400	3,720	2,210	1,670	1,510	606	573
19	893	807	817	e655	e903	e1,420	3,780	2,170	1,650	1,450	605	591
20	882	804	742	e618	e862	e1,420	3,750	2,150	1,620	1,360	601	621
21	877	797	576	e552	e814	e1,380	3,720	2,120	1,630	1,280	597	627
22	881	804	e809	e544	e814	e1,330	3,710	2,120	1,630	1,230	604	614
23	969	814	e763	e529	e806	e1,300	3,670	2,170	1,670	1,200	588	604
24	1,020	766	e735	e518	e806	e1,220	3,620	2,150	1,690	1,120	582	609
25	1,050	756	e718	e515	e814	e1,210	3,560	2,140	1,730	1,070	581	615
26	1,070	760	e715	e515	e830	e1,160	3,480	2,100	1,770	1,050	586	609
27	1,060	694	e698	e507	e834	e1,180	3,400	2,080	1,800	1,030	583	603
28	1,030	681	e695	e598	e846	e1,350	3,310	2,090	1,840	983	582	611
29	994	750	e698	e669	---	e1,460	3,230	2,070	1,880	961	557	629
30	963	749	e695	e780	---	e1,670	3,170	2,080	1,900	933	571	613
31	912	---	e689	e737	---	1,870	---	2,080	---	876	552	---
Total	22,393	24,131	22,864	20,479	22,448	37,584	95,120	72,900	54,080	46,503	20,020	17,079
Mean	722	804	738	661	802	1,212	3,171	2,352	1,803	1,500	646	569
Max	1,070	893	817	812	980	1,870	3,780	3,070	2,070	1,910	834	629
Min	428	681	576	507	644	858	2,040	2,070	1,620	876	552	512
Cfsm	0.54	0.60	0.55	0.49	0.60	0.90	2.37	1.75	1.35	1.12	0.48	0.42
In.	0.62	0.67	0.63	0.57	0.62	1.04	2.64	2.02	1.50	1.29	0.56	0.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	964	1,063	899	714	778	1,735	2,206	1,521	1,259	962	803	876
Max	3,819	2,463	1,871	1,631	1,803	4,272	4,225	3,801	4,938	4,072	2,540	3,491
(WY)	(1987)	(1986)	(1986)	(1939)	(1966)	(1973)	(1979)	(1973)	(2004)	(1993)	(1993)	(1938)
Min	347	380	369	311	318	495	667	600	367	384	346	364
(WY)	(1959)	(1977)	(1977)	(1959)	(1959)	(1964)	(1902)	(1934)	(1988)	(1988)	(1958)	(1958)

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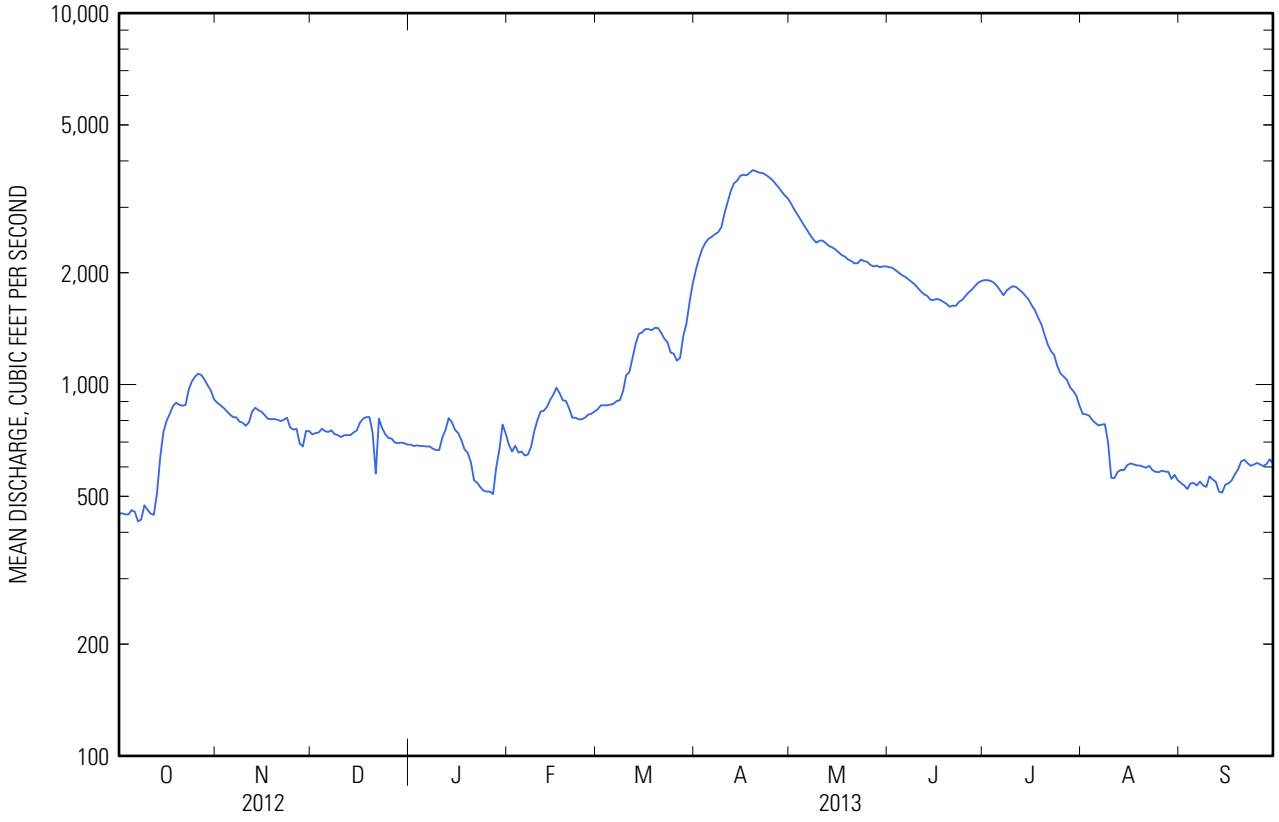
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1898 - 2013	
Annual total	384,238		455,601			
Annual mean	1,050		1,248		1,151	
Highest annual mean					2,203	1993
Lowest annual mean					559	1964
Highest daily mean	4,280	May 8	3,780	Apr 19	6,900	Mar 17, 1946
Lowest daily mean	350	Jul 20	428	Oct 7	217	Jun 27, 1988
Annual seven-day minimum	366	Jul 15	445	Oct 2	[a]266	Jan 30, 1900
Maximum peak flow			3,800	Apr 19	[b]6,900	Mar 17, 1946
Maximum peak stage			13.75	Apr 19	[c]16.23	Jun 18, 2004
Instantaneous low flow			423	Oct 7	210	Jun 27, 1988
Annual runoff (cfsm)	0.783		0.932		0.859	
Annual runoff (inches)	10.67		12.65		11.67	
10 percent exceeds	1,710		2,420		2,170	
50 percent exceeds	838		846		882	
90 percent exceeds	407		554		508	

[a] Ice affected.
[b] Gage height, 15.50 ft.
[c] Discharge, 5,680 ft³/s.