Water-Data Report 2011

04084500 FOX RIVER AT RAPIDE CROCHE DAM, NEAR WRIGHTSTOWN, WI

Fox Basin
Lower Fox Subbasin

LOCATION.--Lat 44°19′03″, long 88°11′50″ referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.4, T.21 N., R.19 E., Outagamie County, WI, Hydrologic Unit 04030204, at Rapide Croche Dam, 2.0 mi upstream from Wrightstown, and 18 mi upstream from mouth.

DRAINAGE AREA.--6,010 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1896 to September 1917 (monthly discharge only), October 1917 to current year. Monthly average data was published outside the period of daily data collection. These monthly data are not included in the monthly mean statistics.

REVISED RECORDS.--WDR WI-80-1: Drainage area. WDR WI-81-1: 1980.

GAGE.--Recording headwater and tailwater gages and electric generation are read 24 times a day and used to compute the discharge records.

COOPERATION.--Figures of daily discharge furnished by Kaukauna Electric and Water Department. Records reviewed by Geological Survey.

REMARKS.--Flow regulated by storage in Lake Winnebago (see sta. 04082500 and 04084255). Daily discharges determined from records of flow through turbines, head, gate openings, and lockages through navigation canal. Usually less than about 20 ft^3/s is diverted into basin from Wisconsin River at Portage Canal throughout the year.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9,140	7,050	5,280	4,040	4,650	5,620	12,900	15,200	7,320	12,100	6,080	1,580
2	7,530	6,470	5,200	3,840	4,510	5,100	13,300	14,900	6,500	10,800	5,830	1,630
3	7,860	6,800	5,160	5,020	4,390	5,650	13,500	14,600	6,660	10,500	2,990	1,660
4	7,230	6,860	5,170	4,980	4,340	5,600	13,100	14,800	5,330	10,700	3,410	1,740
5	7,750	6,600	5,160	5,320	4,670	5,760	13,300	16,500	4,840	9,660	3,410	1,110
6	7,960	6,710	4,340	5,120	4,240	5,560	13,100	16,100	3,960	8,560	3,660	1,700
7	7,790	6,820	3,930	4,900	4,090	5,630	13,200	16,100	3,610	8,490	3,600	3,340
8	7,780	6,750	3,210	5,480	4,220	5,160	13,100	15,800	3,300	7,810	3,670	2,810
9	7,640	6,690	3,490	5,820	4,560	5,400	13,200	16,100	3,490	5,950	3,950	2,860
10	7,590	6,630	4,290	5,120	3,840	5,690	14,700	15,200	3,190	5,900	4,100	2,860
11	7,580	6,540	4,450	4,740	4,020	5,990	14,900	14,800	3,940	5,840	3,970	2,970
12	7,560	6,400	4,610	4,660	4,510	5,810	14,500	14,200	3,700	5,700	4,400	2,900
13	7,630	6,310	3,980	4,860	4,080	5,670	14,400	12,400	3,790	6,010	4,460	2,780
14	7,430	6,430	4,190	4,740	4,380	5,670	13,000	11,200	3,580	5,380	4,150	3,030
15	6,590	6,900	4,810	4,730	4,420	5,630	13,800	11,200	3,770	4,210	4,130	2,520
16	6,660	6,780	3,980	4,730	4,400	5,590	14,600	11,800	3,860	2,760	4,200	3,010
17	6,560	5,840	3,900	4,730	4,590	6,680	15,000	11,200	3,720	3,040	4,390	2,830
18	6,260	5,890	3,650	4,580	5,010	8,190	15,100	9,430	3,890	4,150	4,390	2,860
19	4,360	5,970	3,570	4,740	4,660	9,200	14,400	9,770	3,870	5,180	4,330	2,900
20	3,370	6,090	3,600	4,700	4,860	9,360	15,700	8,650	4,280	8,190	4,560	3,020
21	3,110	5,940	3,660	4,630	4,570	9,270	15,400	9,690	6,170	7,230	4,350	2,890
22	3,380	5,630	3,670	4,700	5,140	10,300	15,600	9,500	9,360	7,070	3,100	2,640
23	4,600	5,960	3,430	4,210	5,540	12,100	15,600	9,540	13,600	8,070	2,450	2,510
24	4,590	6,020	3,510	4,470	5,450	11,800	15,300	9,870	12,900	8,300	2,220	2,580
25	5,080	6,020	3,260	4,350	5,740	12,000	15,300	9,170	12,500	8,070	1,150	2,680
26	8,310	5,890	3,410	4,310	5,930	11,800	15,600	9,570	13,200	10,100	1,200	3,570
27	7,940	6,020	3,120	3,960	5,700	11,800	15,900	9,520	12,700	8,210	1,240	4,840
28	7,090	5,970	3,070	4,140	5,710	11,900	15,600	9,580	11,500	8,790	1,160	5,300
29	7,940	5,550	3,250	4,710	---	13,000	15,300	9,300	12,500	7,560	1,460	5,960
30	8,110	5,240	4,160	4,640	---	12,900	15,400	9,560	12,200	7,240	1,480	5,890
31	8,030	---	5,590	4,650	---	12,900	---	9,210	---	7,090	1,130	---
Total	210,450	188,770	126,100	145,620	132,220	252,730	433,800	374,460	203,230	228,660	104,620	88,970
Mean	6,789	6,292	4,068	4,697	4,722	8,153	14,460	12,080	6,774	7,376	3,375	2,966
Max	9,140	7,050	5,590	5,820	5,930	13,000	15,900	16,500	13,600	12,100	6,080	5,960
Min	3,110	5,240	3,070	3,840	3,840	5,100	12,900	8,650	3,190	2,760	1,130	1,110
In.	1.30	1.17	0.78	0.90	0.82	1.56	2.69	2.32	1.26	1.42	0.65	0.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,269	4,020	3,964	4,035	4,074	5,212	7,359	6,068	4,982	3,454	2,565	2,794
Max	14,230	12,740	9,879	7,831	7,831	12,440	19,360	20,160	15,000	15,600	9,623	11,020
(WY)	(1987)	(1985)	(1983)	(1960)	(1939)	(1973)	(1929)	(1960)	(2004)	(1993)	(1924)	(1938)
Min	728	1,242	1,562	1,432	1,768	1,596	1,590	1,260	1,098	983	761	709
(WY)	(1933)	(1931)	(1959)	(1977)	(1977)	(1964)	(1954)	(1931)	(1931)	(1931)	(1936)	(1933)

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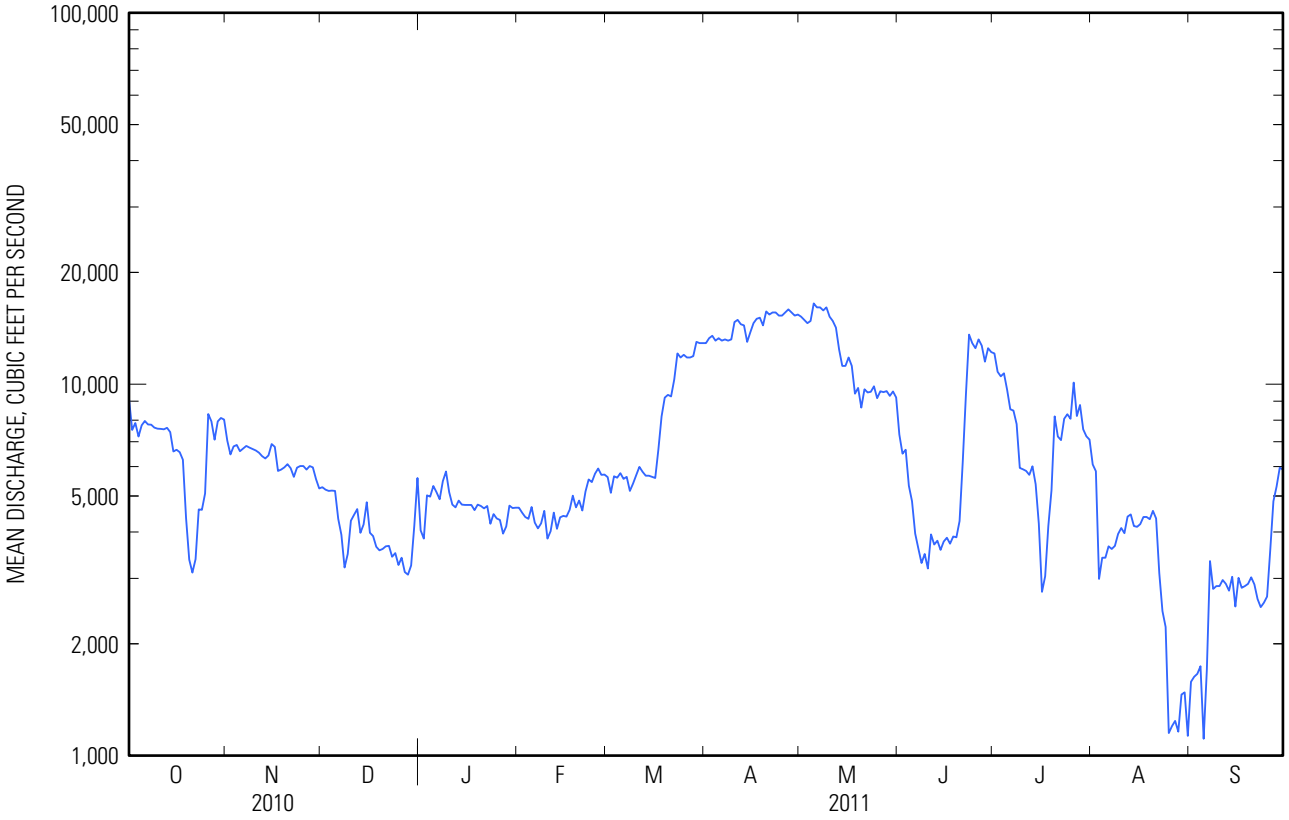
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1918 - 2011	
Annual total	1,898,890		2,489,630			
Annual mean	5,202		6,821		4,313	
Highest annual mean					8,427	1993
Lowest annual mean					1,626	1931
Highest daily mean	12,600	Jul 23[a]	16,500	May 5	24,000	Apr 18, 1952
Lowest daily mean	1,300	Jun 2	1,110	Sep 5	138	Aug 2, 1936
Annual seven-day minimum	1,600	May 28	1,260	Aug 25	499	Sep 20, 1933
Annual runoff (inches)	11.75		15.41		9.75	
10 percent exceeds	8,310		13,200		7,920	
50 percent exceeds	4,430		5,630		3,600	
90 percent exceeds	2,620		3,060		1,640	

[a] Also occurred July 24, 27 and 28.