Water-Data Report 2011

04084445 FOX RIVER AT APPLETON, WI

Fox Basin
Lower Fox Subbasin

LOCATION.--Lat 44°14′53″, long 88°25′23″ referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.34, T.21 N., R.17 E., Outagamie County, WI, Hydrologic Unit 04030204, on left bank at south end of Lutz Park, approximately 2,600 ft upstream of Memorial Drive bridge at Appleton.

DRAINAGE AREA.--5,950 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1986 to current year.

GAGE.--Water-stage recorder. Side-looking velocity meter system.

REMARKS.--Records are good except for estimated periods which are poor. Gage-height telemeter at station.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 04084445, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04084445.2011.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7,371	6,884	4,334	3,607	3,568	4,138	11,960	16,250	6,833	9,951	e4,660	1,313
2	6,534	6,451	4,171	3,583	4,018	3,896	12,090	15,770	5,775	9,088	e3,720	1,466
3	6,664	6,425	3,971	4,813	3,478	3,789	12,500	15,720	5,246	8,835	2,530	1,548
4	6,717	6,219	4,013	3,908	3,386	4,019	12,590	15,730	4,188	9,130	2,589	1,483
5	6,710	6,076	4,021	3,650	3,302	4,045	12,540	15,810	4,096	8,370	2,760	1,339
6	6,680	6,108	3,693	3,424	3,368	3,885	12,510	15,540	3,705	7,480	2,888	1,881
7	6,658	6,233	3,057	3,694	3,301	3,874	12,430	15,480	3,284	7,518	3,014	2,878
8	6,653	6,058	2,554	4,037	3,270	3,868	12,480	15,180	3,627	5,890	3,175	2,816
9	6,508	6,061	2,665	3,983	3,333	4,203	12,500	15,260	3,076	4,830	3,705	2,780
10	6,424	5,716	3,036	3,734	3,119	4,105	12,830	14,970	3,058	4,950	3,863	2,767
11	6,554	5,836	3,786	3,711	3,250	4,103	13,680	14,310	3,283	5,195	3,930	2,814
12	6,405	5,843	3,951	3,490	3,266	4,216	13,310	13,210	3,270	5,332	3,966	2,819
13	6,189	5,978	3,616	3,454	3,199	4,105	13,310	12,140	3,270	5,221	3,988	2,767
14	5,521	6,260	3,632	3,486	3,299	4,013	12,990	10,770	3,313	4,728	3,630	2,682
15	4,970	5,907	3,549	3,382	3,394	4,010	12,640	10,450	3,448	3,298	3,810	2,513
16	5,119	5,214	2,970	3,352	3,362	4,347	13,390	10,510	3,255	2,673	4,022	2,612
17	5,005	4,596	2,526	3,559	3,383	5,244	13,730	10,250	3,295	2,679	3,931	2,587
18	4,516	4,536	2,562	3,457	3,687	7,403	14,040	9,281	3,388	3,432	3,802	2,584
19	3,290	5,077	2,560	3,328	3,547	8,509	14,090	7,959	3,460	4,714	3,823	2,586
20	2,647	4,647	2,571	3,241	3,704	8,702	14,240	8,141	4,079	5,948	3,725	2,616
21	2,679	4,565	2,608	3,398	3,790	8,853	14,950	8,226	5,289	6,218	3,649	2,696
22	3,176	4,628	2,556	3,442	3,872	10,070	15,460	8,268	8,602	6,159	2,820	2,523
23	3,620	4,710	2,462	3,371	4,168	11,770	15,560	8,621	11,390	6,628	2,394	2,427
24	3,906	4,632	2,420	3,341	4,107	11,700	15,460	8,414	11,280	6,847	1,886	2,441
25	4,783	4,799	2,410	3,396	4,119	11,600	15,330	7,807	11,250	7,044	1,294	2,445
26	7,460	4,813	2,443	3,244	4,109	11,640	16,040	7,742	10,490	6,070	1,349	3,313
27	8,002	4,567	2,305	3,272	3,866	11,700	16,550	8,085	10,230	6,976	1,263	4,264
28	7,172	4,466	2,180	3,310	3,936	11,770	16,150	8,295	9,944	6,230	1,221	4,759
29	7,590	4,434	2,422	3,323	---	11,760	16,190	8,190	9,788	5,750	1,274	5,336
30	7,671	4,471	3,086	3,294	---	11,760	16,670	8,119	9,984	5,910	1,350	5,581
31	7,346	---	3,779	3,629	---	11,800	---	7,953	---	5,620	1,355	---
Total	180,540	162,210	95,909	109,913	100,201	218,897	418,210	352,451	175,196	188,714	91,386	82,636
Mean	5,824	5,407	3,094	3,546	3,579	7,061	13,940	11,370	5,840	6,088	2,948	2,755
Max	8,002	6,884	4,334	4,813	4,168	11,800	16,670	16,250	11,390	9,951	4,660	5,581
Min	2,647	4,434	2,180	3,241	3,119	3,789	11,960	7,742	3,058	2,673	1,221	1,313
Cfsm	0.98	0.91	0.52	0.60	0.60	1.19	2.34	1.91	0.98	1.02	0.50	0.46
In.	1.13	1.01	0.60	0.69	0.63	1.37	2.61	2.20	1.10	1.18	0.57	0.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,637	4,250	3,822	3,781	3,688	5,196	6,936	5,867	5,757	3,983	2,728	2,877
Max	13,510	7,863	7,509	5,575	5,422	9,731	13,940	11,900	15,630	15,110	6,259	8,899
(WY)	(1987)	(1996)	(1993)	(1987)	(1987)	(2004)	(2011)	(1993)	(2004)	(1993)	(1993)	(1986)
Min	1,413	2,275	2,541	2,535	1,862	2,445	2,688	2,682	1,243	944	971	1,226
(WY)	(2000)	(2009)	(1990)	(1990)	(2003)	(2000)	(1990)	(1988)	(1988)	(1988)	(1988)	(1988)

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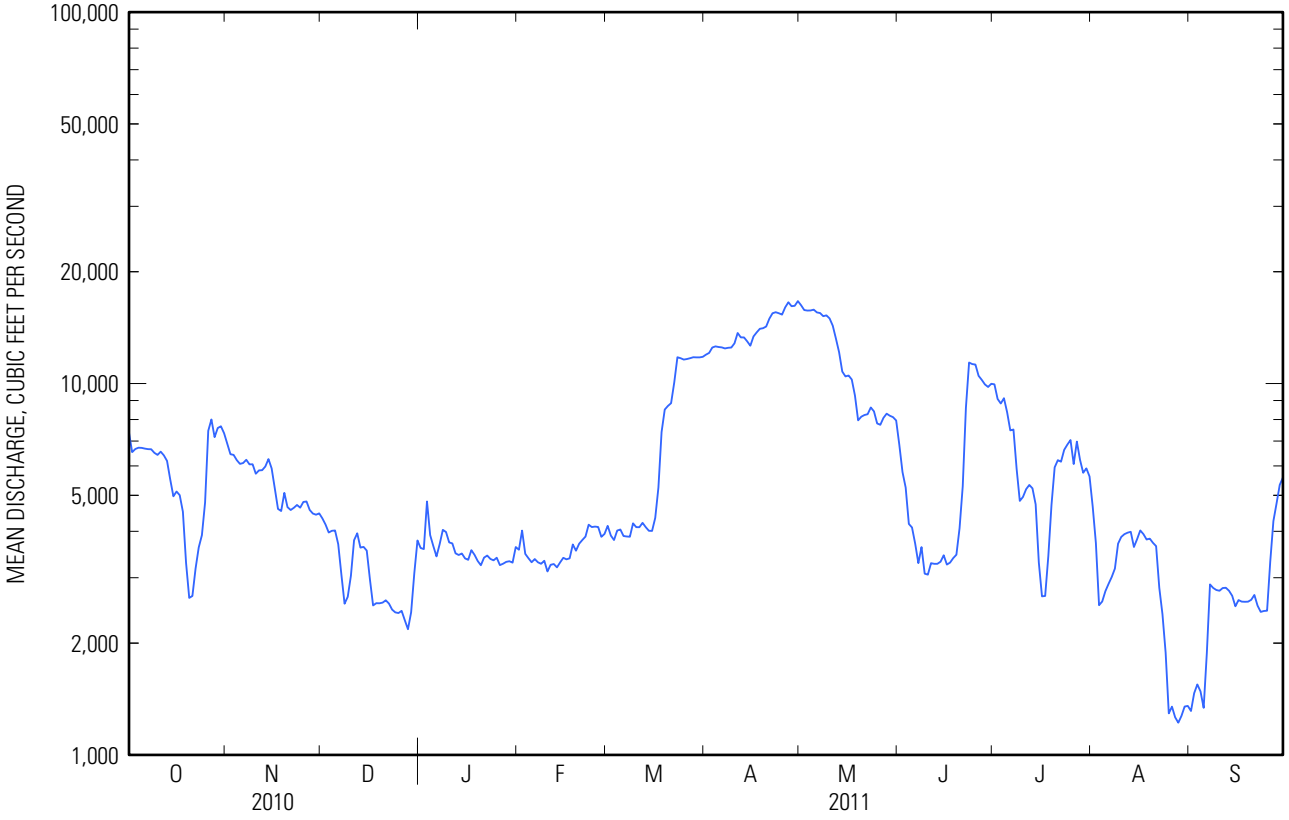
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1986 - 2011	
Annual total	1,793,147		2,176,263			
Annual mean	4,913		5,962		4,350	
Highest annual mean					8,107	1993
Lowest annual mean					2,995	1988
Highest daily mean	14,100	Jul 23[a]	16,670	Apr 30	18,000	Jul 6, 1993
Lowest daily mean	1,448	Jun 2	1,221	Aug 28	782	May 23, 2007
Annual seven-day minimum	1,626	May 28	1,301	Aug 25	899	Jul 9, 1988
Annual runoff (cfsm)	0.826		1.00		0.731	
Annual runoff (inches)	11.21		13.61		9.93	
10 percent exceeds	8,128		12,500		8,428	
50 percent exceeds	4,065		4,171		3,570	
90 percent exceeds	2,416		2,587		1,630	

[a] Also occurred Jul. 24.



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WATER-QUALITY RECORDS

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 2

[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; --, no data]

Date	Sample start time	Discharge, instantaneous, ft³/s (00061)	Sampling method (82398)	Bed sediment, wet sieved, sieve diameter, percent smaller than 0.0625 millimeters (69600)	Bed sediment, wet sieved, sieve diameter, percent smaller than 0.125 millimeters (69602)	Bed sediment, wet sieved, sieve diameter, percent smaller than 0.25 millimeters (69603)	Bed sediment, wet sieved, sieve diameter, percent smaller than 0.5 millimeters (69604)	Bed sediment, wet sieved, sieve diameter, percent smaller than 1 millimeters (69605)	Bed sediment, wet sieved, sieve diameter, percent smaller than 16 millimeters (69609)	Bed sediment, wet sieved, sieve diameter, percent smaller than 2 millimeters (69606)
05-04-2011	**0937**	15,700	EWI	--	--	--	--	--	--	--
07-22-2011	**0816**	5,860	EWI	--	--	--	--	--	--	--
07-22-2011	**0945**	5,610	Other	5	6	7	10	24	100	51

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 2

[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; --, no data]

Date	Sample start time	Bed sediment, wet sieved, sieve diameter, percent smaller than 4 millimeters (69607)	Bed sediment, wet sieved, sieve diameter, percent smaller than 8 millimeters (69608)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment, sieve diameter, percent smaller than 0.125 mm (70332)	Suspended sediment, sieve diameter, percent smaller than 0.25 mm (70333)	Suspended sediment, sieve diameter, percent smaller than 0.5 mm (70334)	Suspended sediment concentration, mg/L (80154)
05-04-2011	**0937**	--	--	86	97	99	100	24
07-22-2011	**0816**	--	--	88	--	--	--	13
07-22-2011	**0945**	84	96	--	--	--	--	--