Water-Data Report 2011

01188090 FARMINGTON RIVER AT UNIONVILLE, CT

Lower Connecticut Basin
Farmington Subbasin

LOCATION.--Lat 41°45'19.97", long 72°53'13.35" (revised) referenced to North American Datum of 1983, Hartford County, CT, Hydrologic Unit 01080207, at right bank upstream from steel truss highway bridge on State Rt. 177 at Unionville, 4.1 mi downstream from Bunnell Brook and 3.0 mi upstream from Pequabuck River.

DRAINAGE AREA.--378 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 178.20 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at station.

REMARKS.--Records good except for periods of estimated daily discharge, which are fair. Peak flows are affected by flood-control regulation at Colebrook River Lake, Highland Lake Reservoir, Sucker Brook Dam, and Mad River Reservoir. The natural flow regime can be altered by regulation from water-supply reservoirs (Barkhamsted, Lake McDonough, East Branch, Nepaug, and West Branch), flood-control reservoirs (Colebrook River Lake, Highland Lake Reservoir, Sucker Brook Dam, and Mad River Reservoir), and by Otis Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,000 ft^3/s (corrected), Apr. 16, 2007, gage height, 16.81 ft., superseding figures published in reports for water years 2007 - 2010.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955 reached a stage of 32.9 ft from floodmark; discharge, 140,000 ft^3/s, by slope-area measurement 3.8 mi upstream.

REVISIONS.--The maximum discharge for water year 2007 has been revised to 21,000 ft^3/s, Apr. 16, 2007, gage height, 16.81 ft. The maximum daily mean discharge for water year 2007 has been revised to 15,900 ft^3/s.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01188090, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01188090.2011.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	2,240	571	1,320	572	e540	1,240	895	985	599	655	321	1,700
2	1,510	512	2,490	695	e548	1,070	936	864	637	597	327	1,890
3	727	506	1,360	758	e572	932	889	847	555	585	310	1,750
4	428	681	920	e552	e579	833	846	853	548	597	307	1,640
5	367	1,090	718	e496	e583	833	842	817	529	539	304	1,470
6	533	879	646	e449	e626	1,960	898	723	509	484	304	2,360
7	823	707	628	e426	e617	11,400	807	661	486	442	434	3,300
8	570	705	564	e412	e581	5,540	755	634	472	438	377	6,750
9	431	713	515	e407	e549	3,160	723	572	646	469	360	4,420
10	367	614	513	e402	e512	2,400	732	469	951	433	399	2,430
11	369	561	492	e407	e489	6,560	795	452	863	416	352	1,650
12	479	528	1,320	e463	e481	5,240	937	422	1,210	403	327	1,760
13	532	503	3,460	e426	e473	3,380	1,440	376	922	394	317	2,900
14	580	495	1,920	e421	e457	2,740	1,400	370	832	387	355	2,830
15	1,000	484	1,220	e421	e499	2,480	1,110	540	886	379	1,430	2,890
16	1,030	482	1,030	e416	e461	2,610	894	779	773	377	998	2,660
17	869	1,190	921	e432	e453	2,880	3,910	805	776	372	596	2,470
18	754	993	852	e477	e559	3,010	2,610	1,190	1,020	383	431	2,360
19	697	746	804	e491	e800	3,660	2,960	1,910	773	392	391	1,630
20	665	651	772	e496	e658	3,160	3,040	2,120	639	335	338	731
21	646	596	757	e494	e587	2,970	2,470	1,780	611	332	360	816
22	615	548	730	e491	e524	2,720	1,540	1,490	647	327	399	787
23	583	548	695	e487	e469	2,080	1,630	1,190	1,080	324	356	1,340
24	572	522	656	e487	e445	1,810	1,750	1,130	1,580	328	330	2,320
25	544	498	631	e487	924	1,780	1,510	1,010	1,360	343	328	1,540
26	566	532	639	e487	1,190	1,620	1,340	896	1,430	352	437	1,230
27	693	547	636	e529	915	1,410	1,210	785	1,080	355	620	1,270
28	793	520	696	e486	997	1,110	1,220	710	863	331	15,300	1,240
29	694	495	655	e486	---	877	1,320	683	843	320	8,080	2,760
30	625	455	601	e477	---	838	1,090	724	731	330	3,350	2,790
31	597	---	592	e509	---	835	---	710	---	324	1,960	---
Total	21,899	18,872	29,753	15,039	17,088	83,138	42,499	27,497	24,851	12,743	40,498	65,684
Mean	706	629	960	485	610	2,682	1,417	887	828	411	1,306	2,189
Max	2,240	1,190	3,460	758	1,190	11,400	3,910	2,120	1,580	655	15,300	6,750
Min	367	455	492	402	445	833	723	370	472	320	304	731

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	518	626	715	737	669	1,079	1,274	790	707	397	451	452
Max	1,488	1,322	2,031	2,396	1,433	2,682	2,902	1,902	2,149	1,037	1,306	2,189
(WY)	(2006)	(2004)	(1997)	(2006)	(2008)	(2011)	(1983)	(1989)	(1982)	(2009)	(2011)	(2011)
Min	175	210	182	135	201	289	269	238	183	159	158	106
(WY)	(1981)	(2002)	(2002)	(1981)	(1980)	(1989)	(1985)	(1985)	(1985)	(1985)	(2002)	(2002)

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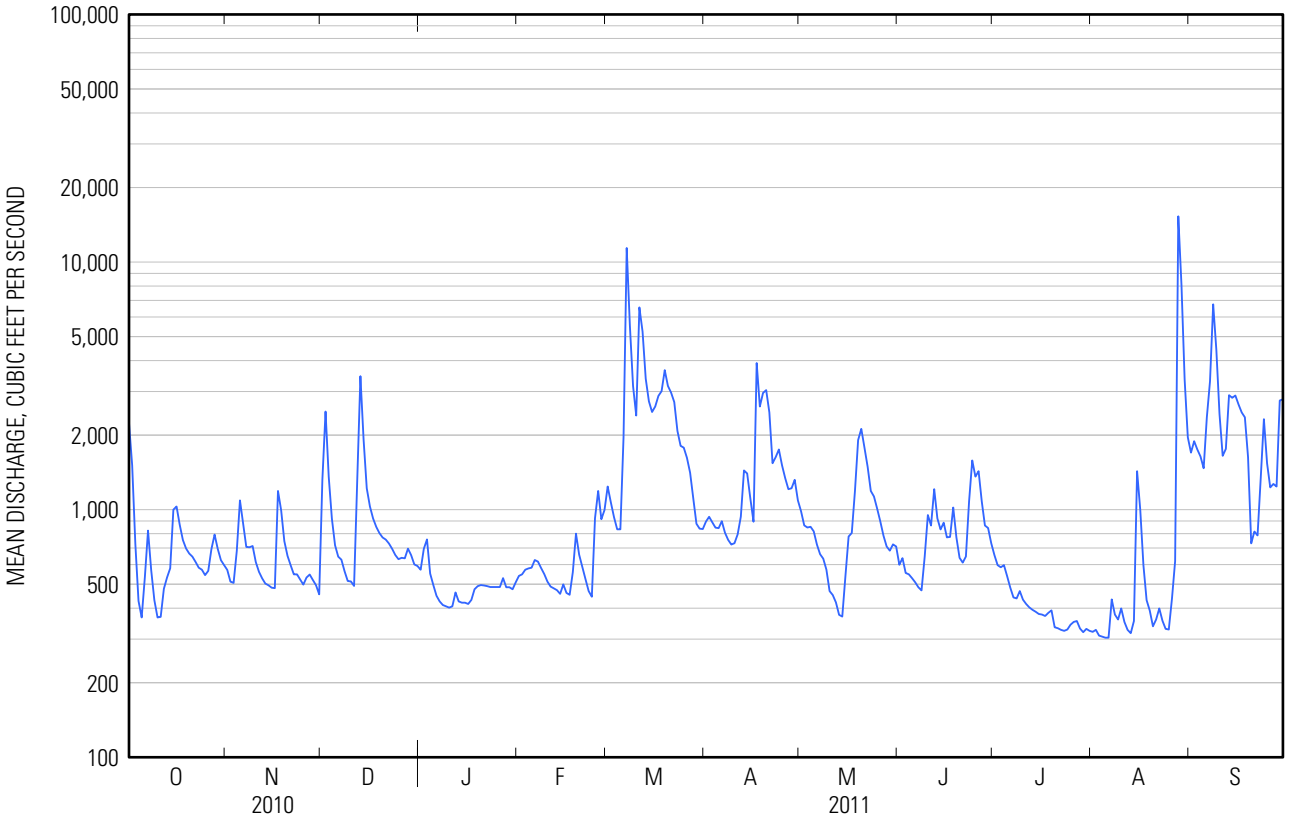
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1978 - 2011	
Annual total	282,997		399,561			
Annual mean	775		1,095		701	
Highest annual mean					1,095	2011
Lowest annual mean					287	1985
Highest daily mean	5,730	Mar 31	15,300	Aug 28	15,900	Apr 16, 2007
Lowest daily mean	101	Sep 20	304	Aug 5 [a]	64	Sep 26, 2002
Annual seven-day minimum	103	Sep 15	314	Jul 31	67	Sep 20, 2002
Maximum peak flow			26,600	Aug 28	26,600	Aug 28, 2011
Maximum peak stage			18.55	Aug 28	18.55	Aug 28, 2011
Instantaneous low flow			300	Aug 5 [a]	61	Sep 26, 2002
10 percent exceeds	1,550		2,410		1,370	
50 percent exceeds	514		681		494	
90 percent exceeds	144		378		221	

[a] Also Aug. 6.