Water-Data Report 2012

011230695 SHETUCKET RIVER AT TAFTVILLE, CONN.

Connecticut Coastal Basin
Shetucket Subbasin

LOCATION.--Lat 41°34'12.01", long 72°02'46.48" referenced to North American Datum of 1983, New London County, CT, Hydrologic Unit 01100002, on right bank at Helikon Furniture Co., 900 ft. upstream from Rte. 169 bridge, .9 mi. upstream of confluence with Quinebaug River, at Taftville, CT.

DRAINAGE AREA.--512 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1989 to September 1996, March 2001 to September 2001, October 2007 to current year.

GAGE.--Water-stage recorder. Datum of gage is 19.12 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at station.

REMARKS.--Records good except for periods of estimated daily discharges, which are poor. Flow regulated by mills and flood detention reservoirs on Willimantic River, on Natchaug River by pumping for municipal supply for city of Willimantic, by Mansfield Hollow Dam, and by power regulation at Taftville Dam 0.2 mi upstream.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,680	2,350	3,190	1,230	1,300	980	546	704	350	250	127	158
2	1,540	2,250	2,390	1,380	1,250	1,360	587	764	668	291	142	130
3	1,330	2,140	1,870	1,330	1,160	1,260	639	773	1,510	289	159	129
4	1,410	1,740	1,690	926	941	1,480	504	1,060	1,570	259	148	181
5	1,450	1,490	1,480	846	987	1,240	437	860	1,210	284	141	407
6	1,230	1,400	1,500	905	898	1,020	548	855	1,070	225	153	369
7	1,020	1,350	2,120	1,130	930	950	350	715	756	225	246	334
8	884	1,250	7,550	1,220	882	776	364	662	634	212	168	391
9	817	1,290	6,850	1,030	857	968	486	868	542	304	137	317
10	769	1,250	3,670	940	809	973	375	1,510	423	153	143	306
11	742	2,070	3,060	897	818	883	343	1,750	495	165	271	222
12	679	1,820	3,150	1,360	752	842	364	1,300	350	137	222	125
13	883	1,510	1,920	2,470	718	810	441	1,040	514	153	269	170
14	1,560	1,470	2,220	2,110	711	751	334	916	639	164	122	128
15	2,460	1,670	1,830	1,640	701	728	345	830	429	137	340	154
16	1,870	1,630	1,810	1,240	559	673	342	1,280	500	152	442	145
17	1,780	2,270	1,630	1,220	671	592	350	1,050	367	128	330	e153
18	1,340	2,210	1,530	1,110	892	604	336	835	260	113	340	e162
19	1,240	1,790	1,480	1,080	773	586	184	735	289	107	534	238
20	2,600	1,500	1,350	1,020	704	529	315	659	333	105	370	310
21	2,240	1,440	1,340	918	650	594	198	557	361	112	152	230
22	1,490	1,330	1,410	941	640	469	305	664	222	125	276	218
23	1,280	2,240	1,650	963	635	581	2,660	703	1,170	128	124	159
24	1,150	3,070	1,930	1,510	648	464	2,800	689	408	131	145	184
25	1,090	2,290	1,660	1,880	945	556	1,910	451	823	122	164	136
26	1,020	1,940	1,540	1,730	947	426	1,550	565	668	124	125	159
27	1,120	1,560	1,500	1,760	807	481	739	521	612	121	137	122
28	1,820	1,470	2,560	2,380	759	552	702	464	384	109	131	208
29	1,710	1,290	2,310	1,970	723	393	705	379	380	314	136	595
30	2,170	2,770	1,660	1,700	---	539	673	364	362	330	119	778
31	2,320	---	1,400	1,500	---	393	---	363	---	232	146	---
Total	44,694	53,850	71,250	42,336	24,067	23,453	20,432	24,886	18,299	5,701	6,459	7,318
Mean	1,442	1,795	2,298	1,366	830	757	681	803	610	184	208	244
Max	2,600	3,070	7,550	2,470	1,300	1,480	2,800	1,750	1,570	330	534	778
Min	679	1,250	1,340	846	559	393	184	363	222	105	119	122

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	734	990	1,418	1,324	1,342	1,945	1,646	974	637	376	463	469
Max	2,074	1,986	2,772	2,309	2,878	3,444	2,721	1,820	1,366	1,562	1,584	1,858
(WY)	(1990)	(1990)	(2009)	(1996)	(2008)	(2011)	(1993)	(2011)	(2001)	(2009)	(2011)	(2011)
Min	72.6	207	363	545	830	757	681	605	292	124	75.2	82.6
(WY)	(2008)	(2008)	(2008)	(2011)	(2012)	(2012)	(2012)	(2001)	(1991)	(1991)	(1993)	(2010)

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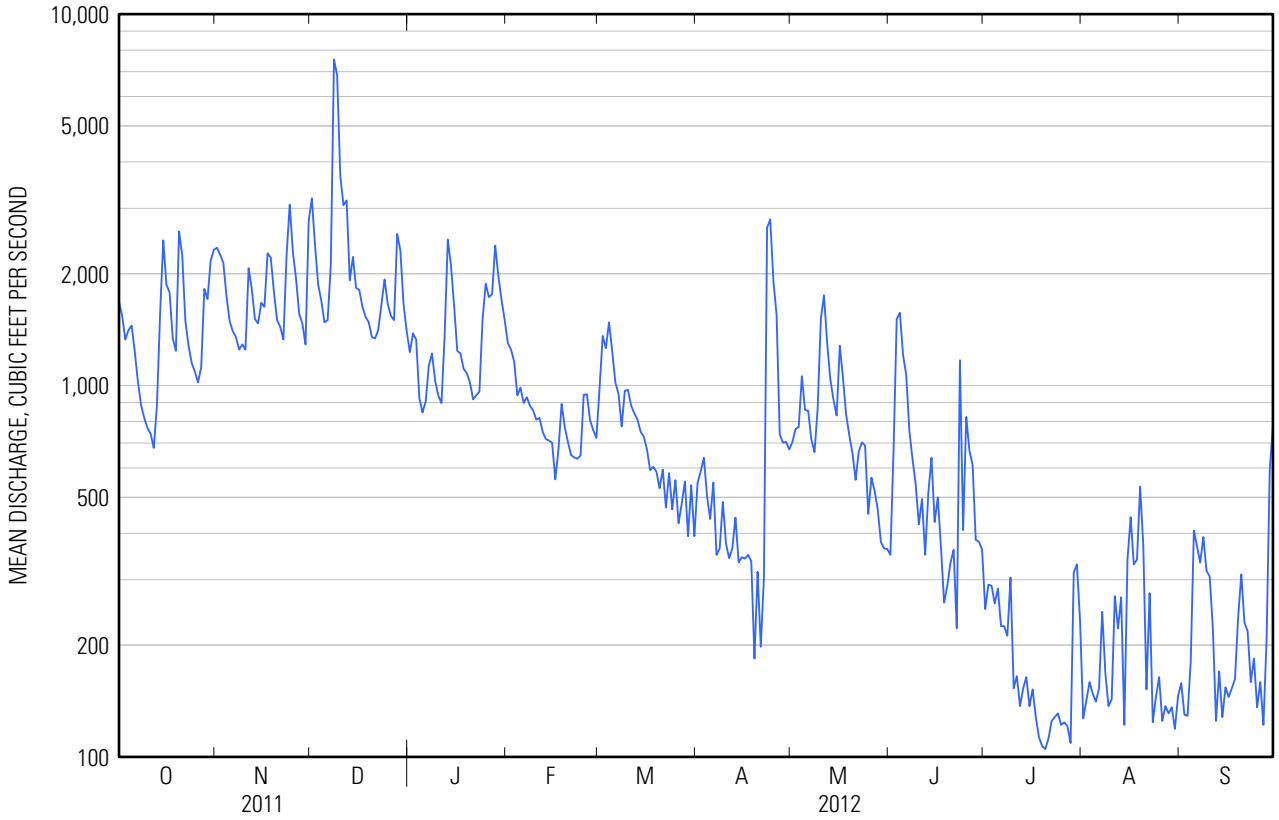
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1990 - 2012	
Annual total	588,606		342,745			
Annual mean	1,613		936		1,023	
Highest annual mean					1,275	2011
Lowest annual mean					736	1995
Highest daily mean	8,810	Mar 7	7,550	Dec 8	11,500	Mar 31, 2010
Lowest daily mean	138	Jul 24	105	Jul 20	23	Sep 3, 1993
Annual seven-day minimum	165	Jul 31	117	Jul 17	39	Sep 12, 1995
Maximum peak flow			9,380	Dec 8	13,700	Mar 30, 2010
Maximum peak stage			13.27	Dec 8	[a]16.05	Mar 31, 2010
Instantaneous low flow			[b]52	Sep 1	[b]21	Sep 25, 1993
10 percent exceeds	3,020		1,890		2,110	
50 percent exceeds	1,270		732		735	
90 percent exceeds	474		151		137	

[a] Backwater affected from confluence with Quinebaug River downstream of gage.
[b] Result of regulation from Taftville Dam 0.2 mi upstream.