Water-Data Report 2010

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT

Connecticut Coastal Basin
Quinebaug Subbasin

LOCATION.--Lat 41°35′52″, long 71°59′05″ referenced to North American Datum of 1927, New London County, CT, Hydrologic Unit 01100001, on left bank behind high school on Slater Avenue at Jewett City, 570 ft downstream from outlet of canal from Wedgewood Mills at mouth of Pachaug River, 1,000 ft downstream from railroad bridge and at mile 6.1.

DRAINAGE AREA.--713 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1918 to current year.

REVISED RECORDS.--WSP 781: Drainage area. WSP 1301: 1919-26 (M). WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 63.07 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at station.

REMARKS.--Records good. Peak flows are affected by flood-control regulation at East Brimfield Lake, Westville Lake, West Thompson Lake, Hodges Village Reservoir, and Buffumville Lake since 1960. The natural flow regime is altered by regulation at East Brimfield Lake, Westville Lake, West Thompson Lake, HodgesVillage Reservoir, Buffumville Lake, Lake Chaubunagungamaug, Quaddick Reservoir, and other small reservoirs in the basin, and by a hydropower plant in Jewett City.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2010: U.S. Geological Survey Water-Data Report WDR-US-2010, site 01127000, accessed at http://wdr.water.usgs.gov/wy2010/pdfs/01127000.2010.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	269	1,270	1,430	1,860	1,850	4,530	12,800	1,130	478	354	188	184
2	238	974	1,330	1,790	1,680	3,850	8,640	1,060	665	225	106	85
3	271	800	2,450	1,540	1,610	3,470	7,410	1,150	606	167	51	200
4	367	919	3,590	1,410	1,440	3,050	6,420	1,070	614	253	81	80
5	1,120	845	2,800	1,450	1,330	2,810	5,730	1,020	648	253	136	185
6	565	747	2,580	1,460	1,300	2,410	5,370	929	609	115	122	57
7	613	794	2,210	1,350	1,150	2,150	5,060	861	564	257	164	179
8	660	761	1,910	1,290	1,200	2,000	4,720	925	619	232	155	49
9	616	717	1,880	1,150	1,100	1,880	4,230	1,090	596	133	142	166
10	559	678	2,360	996	1,120	1,790	4,140	1,030	611	117	120	41
11	487	608	2,320	1,030	1,110	1,730	3,690	912	865	230	127	98
12	371	640	1,950	1,070	1,050	1,650	3,280	919	799	113	103	112
13	463	566	1,770	949	1,040	1,830	2,820	831	1,510	114	100	40
14	415	819	2,800	1,040	994	7,180	2,620	827	1,530	240	100	162
15	396	1,520	3,100	999	987	10,600	2,240	831	1,240	619	93	36
16	485	1,410	2,790	973	987	8,510	2,010	766	934	318	104	42
17	513	1,290	2,400	1,030	996	6,780	2,180	708	805	196	105	202
18	560	1,100	1,840	1,610	908	5,670	2,130	698	655	182	122	187
19	832	976	1,600	1,970	989	4,430	1,950	1,400	579	299	103	135
20	742	1,200	1,390	1,980	950	3,710	1,770	1,490	510	139	240	46
21	726	1,520	1,560	1,750	999	3,320	1,650	1,240	511	262	36	132
22	678	1,380	1,540	1,510	997	3,000	1,540	984	452	260	207	95
23	626	1,210	1,450	1,350	974	4,400	1,470	912	558	139	330	98
24	705	1,140	1,420	1,190	2,250	8,480	1,400	776	549	316	302	121
25	1,580	1,060	1,370	1,680	5,010	7,300	1,400	711	443	562	297	43
26	1,740	1,040	1,380	5,530	7,950	5,490	1,490	612	387	322	288	169
27	1,310	1,210	2,440	5,280	7,550	4,540	1,630	604	365	274	244	41
28	1,140	1,580	3,890	4,390	5,620	3,980	1,530	589	379	233	199	272
29	1,910	1,470	3,390	3,670	---	5,570	1,320	463	349	155	158	332
30	1,650	1,340	2,150	2,410	---	17,800	1,190	510	330	165	156	198
31	1,430	---	2,120	2,100	---	23,600	---	470	---	195	178	---
Total	24,037	31,584	67,210	57,807	55,141	167,510	103,830	27,518	19,760	7,439	4,857	3,787
Mean	775	1,053	2,168	1,865	1,969	5,404	3,461	888	659	240	157	126
Max	1,910	1,580	3,890	5,530	7,950	23,600	12,800	1,490	1,530	619	330	332
Min	238	566	1,330	949	908	1,650	1,190	463	330	113	36	36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	692	1,090	1,520	1,621	1,688	2,542	2,459	1,514	1,034	565	479	506
Max	3,469	3,443	4,447	5,694	4,074	6,930	5,519	2,842	4,758	4,110	3,918	3,502
(WY)	(2006)	(1956)	(1997)	(1979)	(2008)	(1936)	(1987)	(1989)	(1982)	(1938)	(1955)	(1938)
Min	132	189	281	219	473	953	840	620	235	122	98.4	97.4
(WY)	(1931)	(1966)	(1931)	(1981)	(1980)	(2006)	(2006)	(1930)	(1999)	(1995)	(1957)	(1957)

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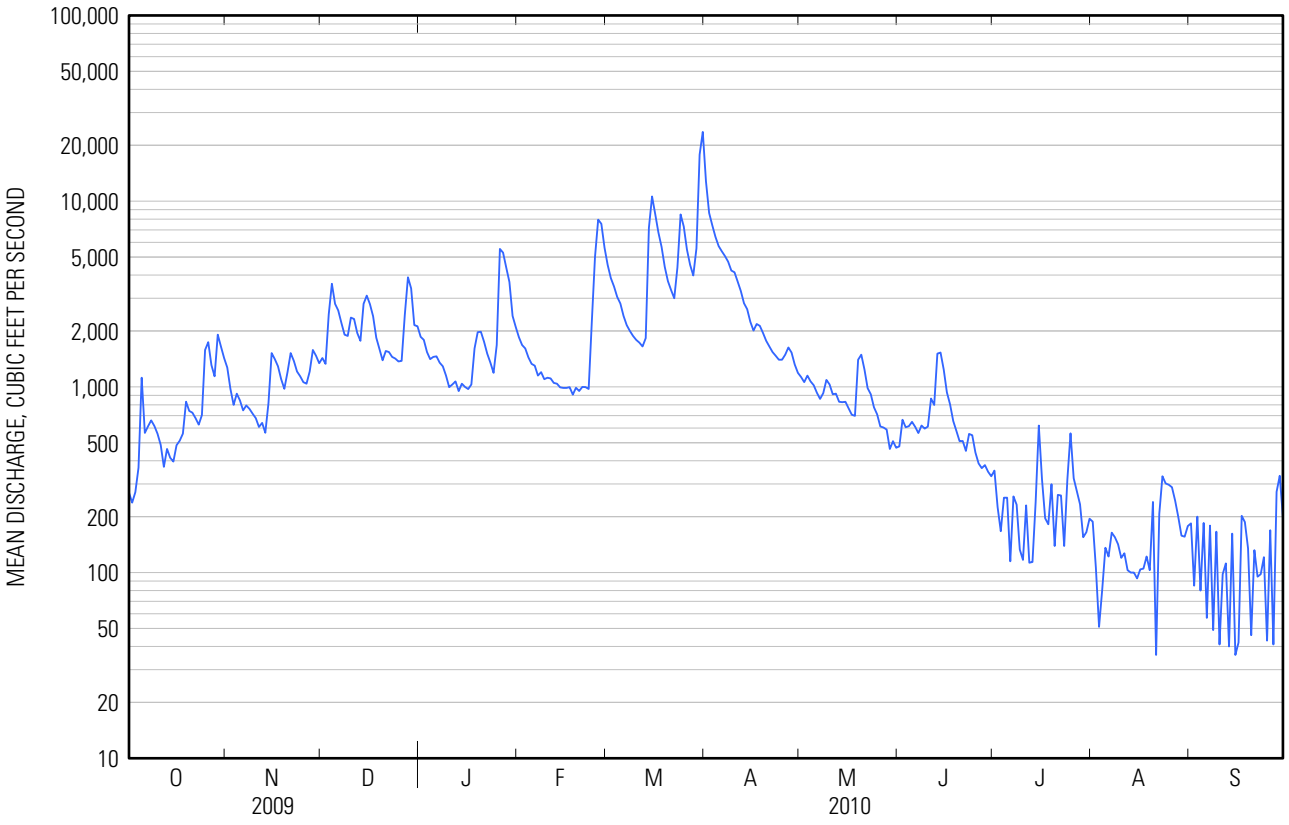
SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1919 - 2010	
Annual total	512,238		570,480			
Annual mean	1,403		1,563		1,307	
Highest annual mean					2,015	1984
Lowest annual mean					598	1930
Highest daily mean	7,130	Jul 3	23,600	Mar 31	35,300	Aug 20, 1955
Lowest daily mean	192	Sep 27	36	Aug 21[e]	18	Aug 28, 1949[a]
Annual seven-day minimum	213	Sep 21	76	Sep 10	52	Aug 31, 1995
Maximum peak flow			26,000	Mar 31	[b]40,700	Aug 20, 1955
Maximum peak stage			23.26	Mar 31	[c]29.00	Aug 20, 1955
Instantaneous low flow			[f]28	Aug 20	16	Sep 25, 1948[d]
10 percent exceeds	2,440		3,700		2,840	
50 percent exceeds	1,270		987		920	
90 percent exceeds	393		133		231	

[a] Also occurred Dec. 11, 1949.
[b] From rating curve extended above 11,000 ft³/s by computation of peak flows over three nearby dams at gage heights 21.7 ft, 22.5 ft., 24.0 ft., and 29.0 ft.
[c] From floodmarks.
[d] Also occurred Nov. 18, 1950.
[e] Also occurred Sep. 15.
[f] Result of regulation.