Water-Data Report 2010

01125500 QUINEBAUG RIVER AT PUTNAM, CT

Connecticut Coastal Basin
Quinebaug Subbasin

LOCATION.--Lat 41°54′33″, long 71°54′48″ referenced to North American Datum of 1927, Windham County, CT, Hydrologic Unit 01100001, on right bank at Putnam, 0.15 mi downstream from Little River, 0.3 mi upstream from New York, New Haven and Hartford Railroad bridge, 2.8 mi downstream from French River, 3.0 mi downstream from West Thompson Dam, and 36 mi upstream from mouth.

DRAINAGE AREA.--328 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Discharge: December 1929 to September 1969, October 1995 to current year. Monthly discharge only for October and November 1929, published in WSP 1301. Stage record only October 1974 to September 1995.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 216.76 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 1, 1958, at same site on left bank at same datum. Satellite telemetry at station.

REMARKS.--Records good except for periods of estimated discharge, which are fair. 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, Hodges Village Reservoir, Buffumville Lake, Lake Chaubunagungamaug, Quaddick Reservoir, and other small reservoirs in the basin.

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 01125500, accessed at http://wdr.water.usgs.gov/wy2010/pdfs/01125500.2010.pdf

01125500 QUINEBAUG RIVER AT PUTNAM, CT—Continued

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

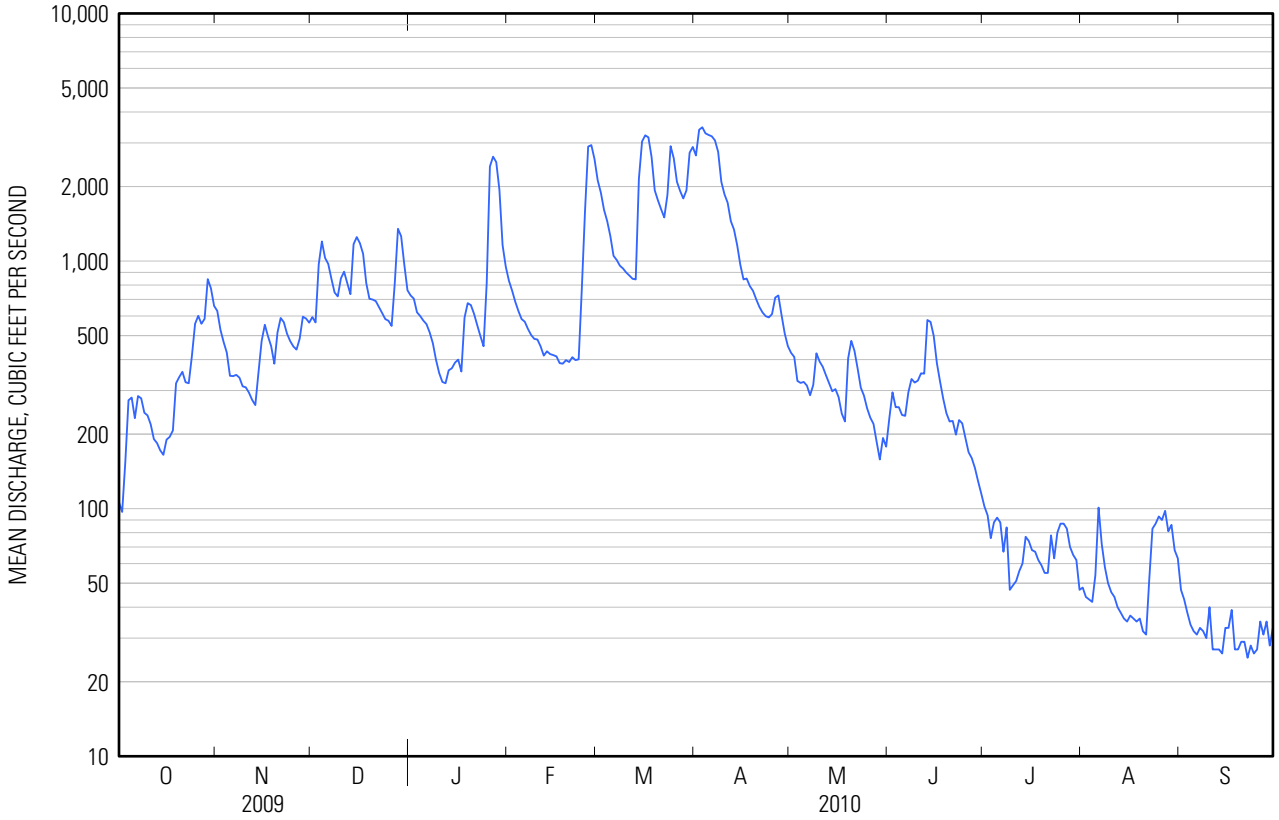
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	106	629	594	726	833	2,120	2,670	426	232	102	48	47
2	97	528	565	705	760	1,890	3,390	410	295	94	44	43
3	155	471	969	621	685	1,610	3,470	328	257	76	43	38
4	274	427	1,200	600	628	1,450	3,280	322	257	88	42	34
5	281	344	1,030	575	583	1,260	3,230	325	239	92	54	32
6	232	343	974	556	569	1,050	3,190	314	237	88	101	31
7	285	347	849	e515	e532	1,010	3,070	287	295	67	72	33
8	279	338	747	e466	503	958	2,760	316	334	84	58	32
9	244	312	720	e399	485	933	2,090	424	323	47	50	30
10	238	309	851	e353	482	899	1,860	393	329	49	46	40
11	219	294	906	e325	452	874	1,720	374	352	51	44	27
12	191	275	815	e321	415	848	1,450	346	351	56	40	27
13	184	262	735	e362	432	843	1,340	321	578	60	38	27
14	172	355	1,170	369	421	2,150	1,160	298	568	77	36	26
15	165	476	1,250	389	417	3,040	965	304	499	74	35	33
16	190	553	1,180	400	412	3,220	843	282	387	68	37	33
17	195	497	1,070	358	387	3,160	850	242	326	67	36	39
18	207	453	814	591	385	2,630	792	225	278	62	35	27
19	321	385	704	676	398	1,930	758	404	243	59	36	27
20	340	515	699	664	391	1,760	701	476	225	55	32	29
21	357	589	689	612	409	1,620	653	434	226	55	31	29
22	324	566	e652	551	398	1,500	620	368	199	78	52	25
23	321	509	e617	498	401	1,850	599	308	228	63	83	28
24	414	475	e583	453	775	2,910	592	286	221	80	87	26
25	558	452	574	818	1,590	2,600	611	254	193	87	93	27
26	601	439	547	2,410	2,900	2,090	712	233	169	87	90	35
27	558	486	817	2,640	2,940	1,920	726	220	160	83	98	31
28	584	596	1,350	2,510	2,580	1,790	605	186	146	70	81	35
29	845	586	1,260	1,940	---	1,930	510	158	129	65	86	28
30	776	564	967	1,160	---	2,740	453	193	115	62	68	33
31	659	---	762	950	---	2,890	---	178	---	47	63	---
Total	10,372	13,375	26,660	24,513	22,163	57,475	45,670	9,635	8,391	2,193	1,759	952
Mean	335	446	860	791	792	1,854	1,522	311	280	70.7	56.7	31.7
Max	845	629	1,350	2,640	2,940	3,220	3,470	476	578	102	101	47
Min	97	262	547	321	385	843	453	158	115	47	31	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	309	462	604	666	687	1,128	1,147	617	439	251	219	248
Max	1,950	1,553	1,939	1,437	2,083	3,627	2,788	1,090	1,596	1,773	2,935	2,276
(WY)	(2006)	(1956)	(1997)	(2006)	(2008)	(1936)	(1940)	(1945)	(2006)	(1938)	(1955)	(1938)
Min	40.1	81.0	115	144	233	392	322	273	70.5	50.1	36.3	31.7
(WY)	(2008)	(2002)	(1931)	(1944)	(2002)	(2006)	(2006)	(1965)	(1999)	(1999)	(1999)	(2010)

01125500 QUINEBAUG RIVER AT PUTNAM, CT—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1930 - 2010	
Annual total	227,028		223,158			
Annual mean	622		611		568	
Highest annual mean					988	1938
Lowest annual mean					257	1965
Highest daily mean	2,820	Jul 3	3,470	Apr 3	26,400	Aug 20, 1955
Lowest daily mean	59	Sep 26	25	Sep 22	8.0	Sep 3, 1999
Annual seven-day minimum	71	Sep 20	27	Sep 18	16	Sep 2, 1999
Maximum peak flow			3,770	Apr 2	[a]48,000	Aug 19, 1955
Maximum peak stage			7.83	Apr 2	[b]26.50	Aug 19, 1955
Instantaneous low flow			[c]15	Jul 10	3.9	Sep 2, 1999
10 percent exceeds	1,140		1,660		1,260	
50 percent exceeds	547		385		379	
90 percent exceeds	173		40		84	

[a] From rating curve extended above 2,500 ft³/s on basis of computation of flow over dam at gage heights 17.28 and 19.45 ft and slope-area measurement of peak flow.
[b] From floodmarks.
[c] Result of regulation.