Water-Data Report 2010

01124151 QUINEBAUG RIVER AT WEST THOMPSON, CT

Connecticut Coastal Basin
Quinebaug Subbasin

LOCATION.--Lat 41°56′36″, long 71°54′03″ referenced to North American Datum of 1927, Windham County, CT, Hydrologic Unit 01100001, on left bank 350 ft downstream from concrete v-notch weir below West Thompson Dam.

DRAINAGE AREA.--172 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1966 to September 1989, October 2000 to September 2001, October 2002 to current year. October 1989 to September 2000 and October 2001 to September 2002 unpublished.

REVISED RECORDS.--WDR CT-08-1: Instantaneous low flow.

GAGE.--Water-stage recorder. Datum of gage is 289.34 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Peak flows are affected by flood-control regulation at East Brimfield Lake, Westville Lake, and West Thompson Lake since 1960. The natural flow regime is altered by regulation at East Brimfield Lake, Westville Lake, West Thompson Lake, East Brimfield Lake, and other small reservoirs in the basin.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a discharge of about 48,200 ft^3/s, by comparison of peak flows at Quinebaug and Putnam, gage height, 20.1 ft from floodmarks.

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 01124151, accessed at http://wdr.water.usgs.gov/wy2010/pdfs/01124151.2010.pdf

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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	56	309	300	348	461	1,280	1,300	216	116	66	36	39
2	50	281	278	345	422	1,060	e2,230	211	147	59	34	35
3	62	258	479	294	351	822	e2,380	175	136	42	32	28
4	112	229	577	278	327	718	e2,290	165	137	43	29	25
5	117	166	462	293	302	588	e2,300	170	134	44	32	24
6	96	170	435	285	302	502	e2,300	167	132	43	41	23
7	111	182	376	264	279	496	e2,210	162	196	34	35	23
8	130	171	346	239	271	472	e1,910	164	210	27	31	22
9	110	155	333	226	264	457	e1,250	222	195	28	30	22
10	93	154	402	207	262	438	e1,030	228	181	30	29	22
11	85	145	426	186	233	422	e894	209	204	31	28	21
12	78	136	374	182	227	409	e616	195	207	31	28	21
13	75	133	329	186	229	406	e524	185	251	31	27	21
14	74	138	627	191	228	e950	384	171	267	34	26	21
15	74	199	633	188	224	e1,400	280	167	243	37	25	21
16	95	210	581	187	220	e2,000	281	162	203	37	25	21
17	97	198	530	188	194	2,190	332	132	170	37	24	21
18	92	191	353	252	197	e1,640	308	119	147	35	24	21
19	143	180	315	320	208	e1,030	311	173	129	33	23	21
20	154	204	327	314	207	e886	289	224	116	31	23	21
21	155	263	329	294	210	804	271	209	124	32	23	21
22	155	243	316	272	209	713	259	188	121	33	23	21
23	170	220	293	249	208	951	249	167	119	31	24	21
24	216	209	295	227	391	e1,540	281	151	123	34	33	21
25	248	197	282	340	869	1,510	311	138	113	49	52	20
26	265	193	269	1,230	1,680	1,150	411	128	101	57	63	20
27	274	210	381	1,670	1,890	1,030	411	122	91	56	65	20
28	283	278	727	1,670	1,660	929	317	96	88	52	59	21
29	430	268	623	1,210	---	827	261	73	82	48	55	21
30	377	255	435	601	---	e687	233	98	71	43	50	21
31	333	---	322	508	---	e660	---	101	---	39	44	---
Total	4,810	6,145	12,755	13,244	12,525	28,967	26,423	5,088	4,554	1,227	1,073	680
Mean	155	205	411	427	447	934	881	164	152	39.6	34.6	22.7
Max	430	309	727	1,670	1,890	2,190	2,380	228	267	66	65	39
Min	50	133	269	182	194	406	233	73	71	27	23	20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	215	265	399	389	406	588	629	344	273	123	93.4	90.8
Max	1,329	716	1,136	1,030	1,399	1,120	1,447	730	999	497	511	461
(WY)	(2006)	(2007)	(1997)	(1979)	(2008)	(2008)	(1987)	(1972)	(1982)	(2009)	(1989)	(2008)
Min	29.8	36.4	64.5	39.9	93.3	193	160	140	44.3	31.1	20.6	17.8
(WY)	(2008)	(2002)	(2002)	(1981)	(1980)	(2006)	(2006)	(1986)	(1999)	(1999)	(2007)	(2007)

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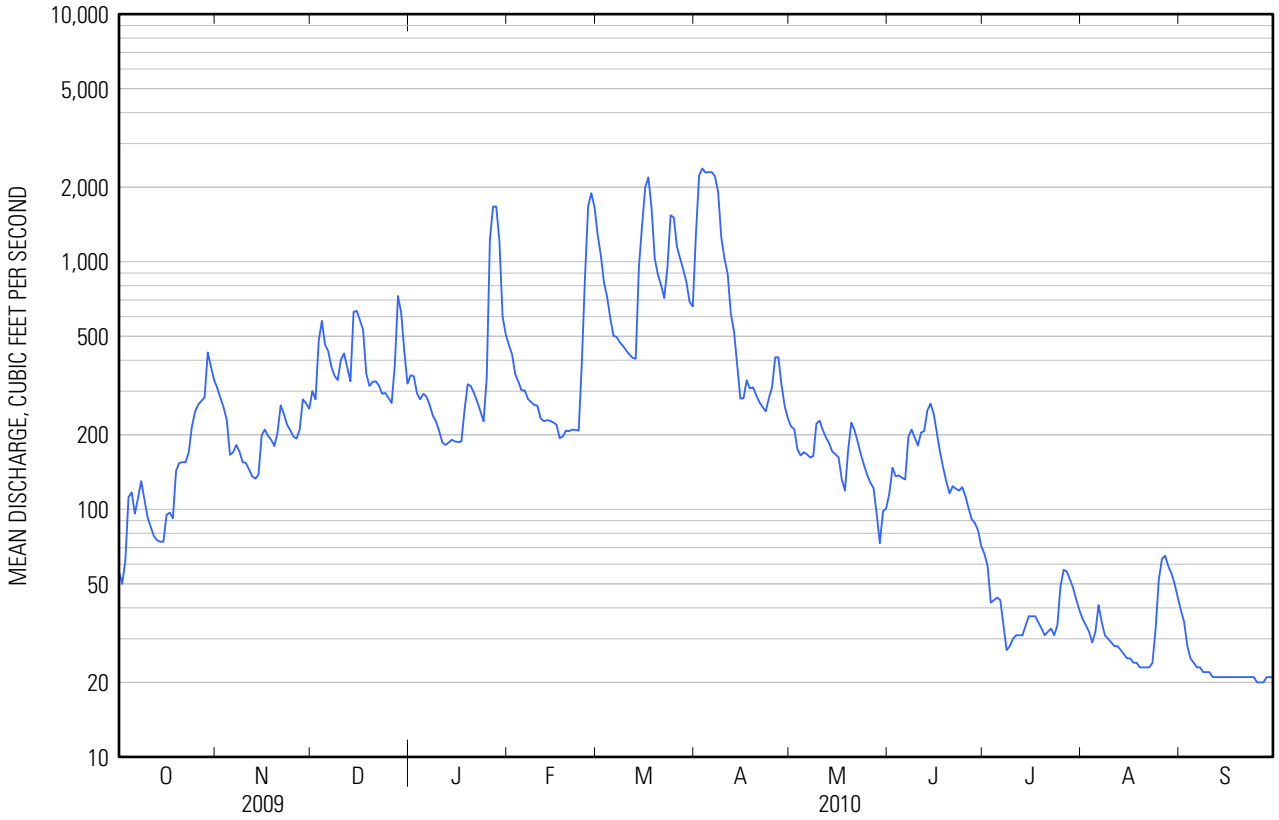
SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1966 - 2010	
Annual total	113,605		117,491			
Annual mean	311		322		317	
Highest annual mean					523	2006
Lowest annual mean					144	1985
Highest daily mean	1,560	Jul 25	2,380	Apr 3	2,770	Apr 10, 1987
Lowest daily mean	25	Sep 26	20	Sep 25[a]	3.1	Jan 12, 1981
Annual seven-day minimum	32	Sep 21	21	Sep 21	10	Aug 31, 1975
Maximum peak flow			[e]2,400	Apr 2	2,820	Apr 10, 1987
Maximum peak stage			5.86	Apr 2	6.45	Apr 10, 1987
Instantaneous low flow			20	Sep 22[b]	0.00	Many days
10 percent exceeds	591		811		724	
50 percent exceeds	258		196		200	
90 percent exceeds	77		26		39	

[a] Also Sep. 26, 27.
[b] Also Sep. 24-27.
[e] estimated