Water-Data Report 2010

01124000 QUINEBAUG RIVER AT QUINEBAUG, CT

Connecticut Coastal Basin
Quinebaug Subbasin

LOCATION.--Lat 42°01′20″, long 71°57′22″ referenced to North American Datum of 1927, Windham County, CT, Hydrologic Unit 01100001, on right bank at Quinebaug, 500 ft upstream from bridge on State Rt. 197, 0.2 mi downstream from Massachusetts-Connecticut State line, 7.8 mi upstream from French River, and at mile 46.

DRAINAGE AREA.--155 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1931 to current year.

REVISED RECORDS.--WSP 851: 1936 (M). WSP 1201: 1939-43, 1949. WSP 1381: 1938 (M). WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 341.52 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at station.

REMARKS.--Records good except for periods of estimated record, which are fair. Peak flows are affected by flood-control regulation at East Brimfield Lake and Westville Lake since 1960. The natural flow regime can be altered by regulation at East Brimfield Lake, Westville Lake, 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 01124000, accessed at http://wdr.water.usgs.gov/wy2010/pdfs/01124000.2010.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	45	299	296	389	e440	926	1,620	160	106	54	34	31
2	42	261	272	339	e387	735	1,690	160	109	48	32	19
3	53	230	473	319	e351	659	1,540	158	98	45	30	9.4
4	111	193	477	e310	e324	592	1,360	149	111	43	28	9.8
5	84	199	436	e301	e305	537	1,210	138	100	40	29	9.3
6	79	193	408	e288	e287	495	1,130	130	137	38	31	11
7	107	174	349	e253	e273	468	1,030	120	224	35	29	13
8	120	145	340	e242	e260	449	949	187	199	34	28	13
9	69	137	358	e233	e249	450	857	221	158	32	28	12
10	76	150	454	e227	e242	426	722	185	166	31	28	12
11	68	124	413	e221	e234	404	581	167	204	34	29	12
12	64	125	317	e213	e228	394	490	153	182	33	28	12
13	65	113	439	e208	e221	419	382	141	257	32	28	12
14	61	167	621	e201	e216	1,350	317	125	240	38	27	12
15	73	211	553	e193	e210	1,550	280	135	200	39	26	11
16	120	188	535	e185	e206	1,590	250	116	167	37	24	12
17	65	185	e496	188	e204	1,180	290	106	133	35	23	13
18	109	184	e430	292	e202	898	304	110	122	33	22	13
19	157	165	e378	285	e202	740	270	204	104	31	21	13
20	160	239	e353	286	e201	626	246	175	100	32	19	13
21	163	247	e333	270	e200	548	231	160	115	31	18	12
22	160	223	e313	257	e199	494	215	138	99	29	22	12
23	159	206	e298	220	e198	891	234	123	115	28	44	12
24	195	195	e285	211	427	1,150	293	110	107	41	62	12
25	255	190	e275	809	799	964	356	101	95	65	66	13
26	252	192	264	1,310	1,670	846	436	89	84	58	69	12
27	261	246	536	1,170	1,230	730	337	91	76	55	61	13
28	315	283	558	992	1,120	635	232	86	75	47	55	19
29	367	260	504	729	---	1,030	205	87	62	44	49	24
30	327	282	599	715	---	2,380	178	88	58	41	42	22
31	300	---	606	e540	---	2,420	---	79	---	37	36	---
Total	4,482	6,006	12,969	12,396	11,085	26,976	18,235	4,192	4,003	1,220	1,068	413.5
Mean	145	200	418	400	396	870	608	135	133	39.4	34.5	13.8
Max	367	299	621	1,310	1,670	2,420	1,690	221	257	65	69	31
Min	42	113	264	185	198	394	178	79	58	28	18	9.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	163	235	325	343	346	535	545	306	216	106	109	111
Max	1,072	711	1,008	1,028	1,014	1,669	1,239	658	1,057	700	1,971	1,296
(WY)	(2006)	(1956)	(1997)	(1979)	(2008)	(1936)	(1940)	(1989)	(1982)	(1938)	(1955)	(1938)
Min	16.3	29.2	51.6	51.9	83.0	188	159	131	33.2	17.8	12.9	10.8
(WY)	(1958)	(2002)	(2002)	(2002)	(1980)	(2006)	(2006)	(1957)	(1999)	(1957)	(1957)	(2007)

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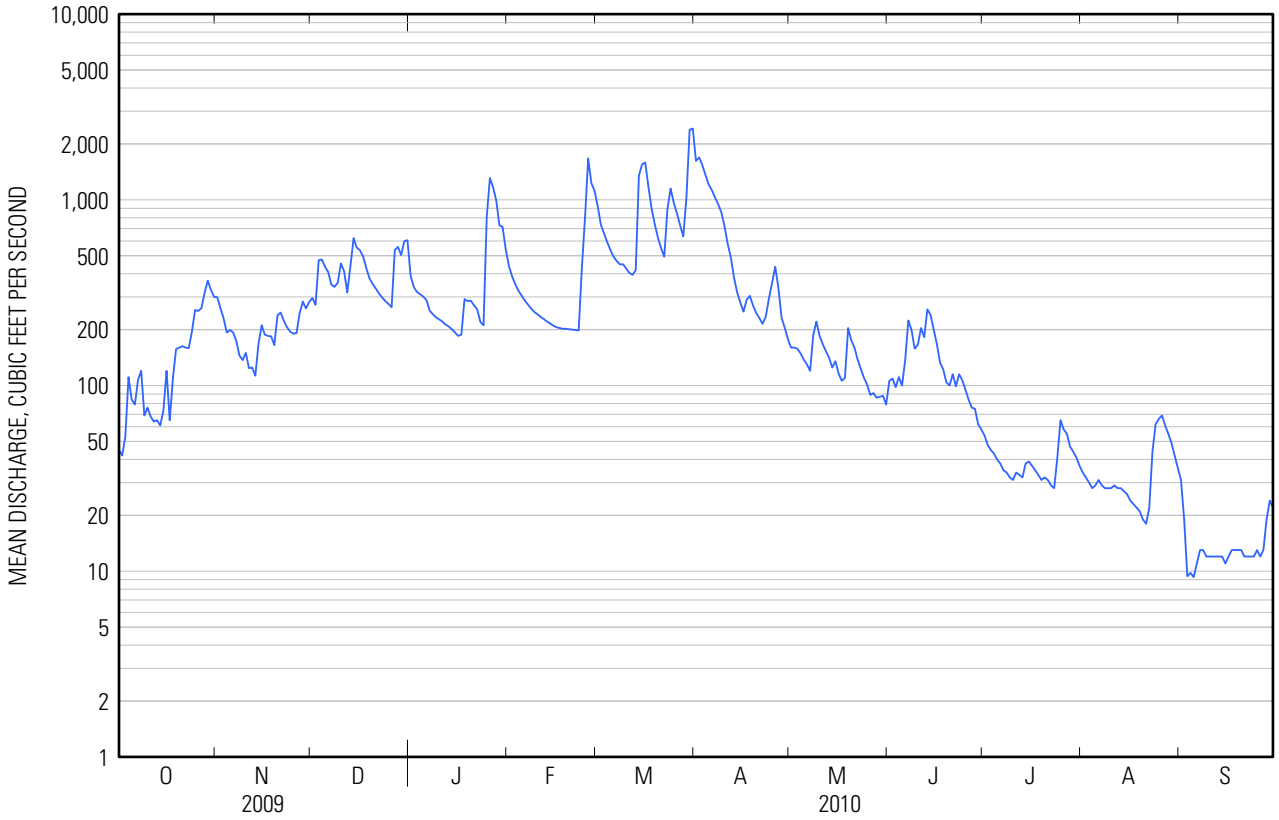
SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1932 - 2010	
Annual total	106,340		103,045.5			
Annual mean	291		282		278	
Highest annual mean					466	1955
Lowest annual mean					124	1965
Highest daily mean	1,460	Jul 24	2,420	Mar 31	26,500	Aug 19, 1955
Lowest daily mean	20	Sep 26	9.3	Sep 5	1.0	Sep 4, 1956
Annual seven-day minimum	29	Sep 21	11	Sep 3	8.3	Sep 26, 2007
Maximum peak flow			3,110	Mar 30	[a]49,300	Aug 19, 1955
Maximum peak stage			6.77	Mar 30	[b]18.96	Aug 19, 1955
Instantaneous low flow			8.1	Sep 2	1.0	Sep 4, 1956[c]
10 percent exceeds	536		681		617	
50 percent exceeds	261		188		188	
90 percent exceeds	75		25		37	

[a] From rating curve extended above 820 ft³/s on basis of slope-area measurement of peak flow.
[b] From floodmarks.
[c] Also occurred Sep. 17, 18, 1950, July 9, 1951, Sep. 4 and Oct. 29, 1956, and Jan. 27, 1985 (ice siphoning).