Water-Data Report 2010

01205500 HOUSATONIC RIVER AT STEVENSON, CT

Connecticut Coastal Basin
Housatonic Subbasin

LOCATION.--Lat 41°23′02″, long 73°10′05″ referenced to North American Datum of 1927, Fairfield County, CT, Hydrologic Unit 01100005, on left bank, 0.2 mi downstream from dam of Connecticut Light and Power Company at Stevenson, Fairfield County, 0.2 mi upstream from Eightmile Brook, and at mile 19.2.

DRAINAGE AREA.--1,544 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1928 to current year.

REVISED RECORDS.--WSP 711: 1929(M). WSP 1231: 1951. WSP 1301: 1933-34(M), 1936-37. WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 24.98 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Telephone telemetry at station. Satellite telemetry at station.

REMARKS.--Records good. The natural flow regime is regulated by Stevenson Hydroelectric Plant, Lake Candlewood, Lake Lillinonah, Lake Zoar, Cairns and Shepaug Reservoirs, and by diversion out of basin at Shepaug Reservoir. Effects of flood-control dams in the Blackberry River Basin on peak flows at the gaging station are insignificant.

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 01205500, accessed at http://wdr.water.usgs.gov/wy2010/pdfs/01205500.2010.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	928	2,440	3,350	4,300	3,760	6,650	13,700	2,170	992	406	376	1,070
2	759	509	3,570	3,620	3,150	5,320	10,800	2,610	1,150	371	375	768
3	1,450	810	4,610	4,190	3,480	5,920	9,280	3,150	1,130	382	355	356
4	1,440	3,040	4,820	2,890	3,650	5,360	7,070	1,890	1,190	363	330	314
5	721	2,290	3,820	2,060	3,160	4,860	5,690	1,790	1,040	351	329	290
6	649	2,930	4,310	2,210	2,420	5,170	5,380	1,540	2,010	1,220	330	281
7	931	407	4,740	2,180	1,810	4,310	5,150	1,420	946	862	331	294
8	928	1,150	2,740	2,460	2,430	4,550	6,000	1,610	718	352	330	285
9	1,020	3,880	2,820	2,250	2,800	4,880	4,120	1,240	766	352	333	267
10	2,560	1,570	4,860	2,270	2,290	6,670	4,610	1,590	747	352	1,120	254
11	1,330	1,300	3,140	2,290	2,130	6,880	3,900	1,850	901	353	359	261
12	541	1,800	4,930	2,120	2,110	6,680	3,880	879	886	881	350	262
13	540	1,810	4,520	2,150	2,310	7,400	3,380	2,150	714	769	346	253
14	550	2,030	5,050	1,970	2,190	12,900	3,070	1,750	1,810	742	349	265
15	575	2,010	4,860	1,980	1,780	12,500	3,190	2,400	1,730	413	346	263
16	1,110	2,850	4,810	1,780	2,830	11,600	2,770	2,130	1,500	1,070	350	269
17	3,940	2,840	4,500	1,760	1,420	10,300	2,780	1,410	761	370	347	269
18	1,570	2,320	4,110	2,060	1,870	9,430	2,270	1,240	1,110	368	348	315
19	642	2,590	3,590	2,370	1,790	8,380	3,680	1,420	1,080	369	348	240
20	1,470	3,300	4,200	2,780	1,110	6,950	3,050	1,930	1,090	710	328	232
21	1,790	3,210	3,010	2,070	1,470	6,170	3,120	2,200	1,100	1,050	341	230
22	1,000	3,470	1,950	4,340	2,680	8,000	1,600	1,590	411	388	883	259
23	1,910	2,980	2,950	4,530	2,360	14,000	2,070	502	1,780	388	1,610	280
24	5,970	2,410	2,440	2,840	4,800	12,200	2,120	525	1,000	388	890	258
25	3,360	2,540	3,040	6,290	8,360	8,770	2,460	1,190	399	387	728	251
26	3,410	2,550	2,750	11,400	15,000	8,690	2,470	1,530	398	385	681	239
27	3,590	2,390	7,530	8,330	9,550	7,440	2,910	1,120	401	384	343	239
28	4,330	2,590	7,870	7,150	7,040	9,640	2,080	1,080	1,640	387	385	281
29	5,260	2,390	5,820	6,420	---	14,300	2,450	382	416	1,440	363	289
30	4,310	2,790	4,420	4,800	---	17,200	2,460	382	419	379	358	5,540
31	3,620	---	3,390	3,300	---	17,200	---	379	---	378	1,160	---
Total	62,204	69,196	128,520	111,160	99,750	270,320	127,510	47,049	30,235	17,010	15,422	14,674
Mean	2,007	2,307	4,146	3,586	3,562	8,720	4,250	1,518	1,008	549	497	489
Max	5,970	3,880	7,870	11,400	15,000	17,200	13,700	3,150	2,010	1,440	1,610	5,540
Min	540	407	1,950	1,760	1,110	4,310	1,600	379	398	351	328	230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,614	2,352	3,042	3,128	3,009	4,815	5,243	3,217	2,261	1,319	1,153	1,170
Max	8,810	8,786	8,384	9,441	8,494	12,960	11,150	8,627	7,013	4,923	8,294	8,705
(WY)	(1956)	(1956)	(1997)	(1949)	(2008)	(1936)	(1983)	(1989)	(1972)	(1938)	(1955)	(1938)
Min	259	258	726	356	800	1,658	1,272	1,092	670	294	280	213
(WY)	(1965)	(1979)	(1965)	(1981)	(1980)	(2006)	(1985)	(1986)	(1965)	(1962)	(1999)	(1964)

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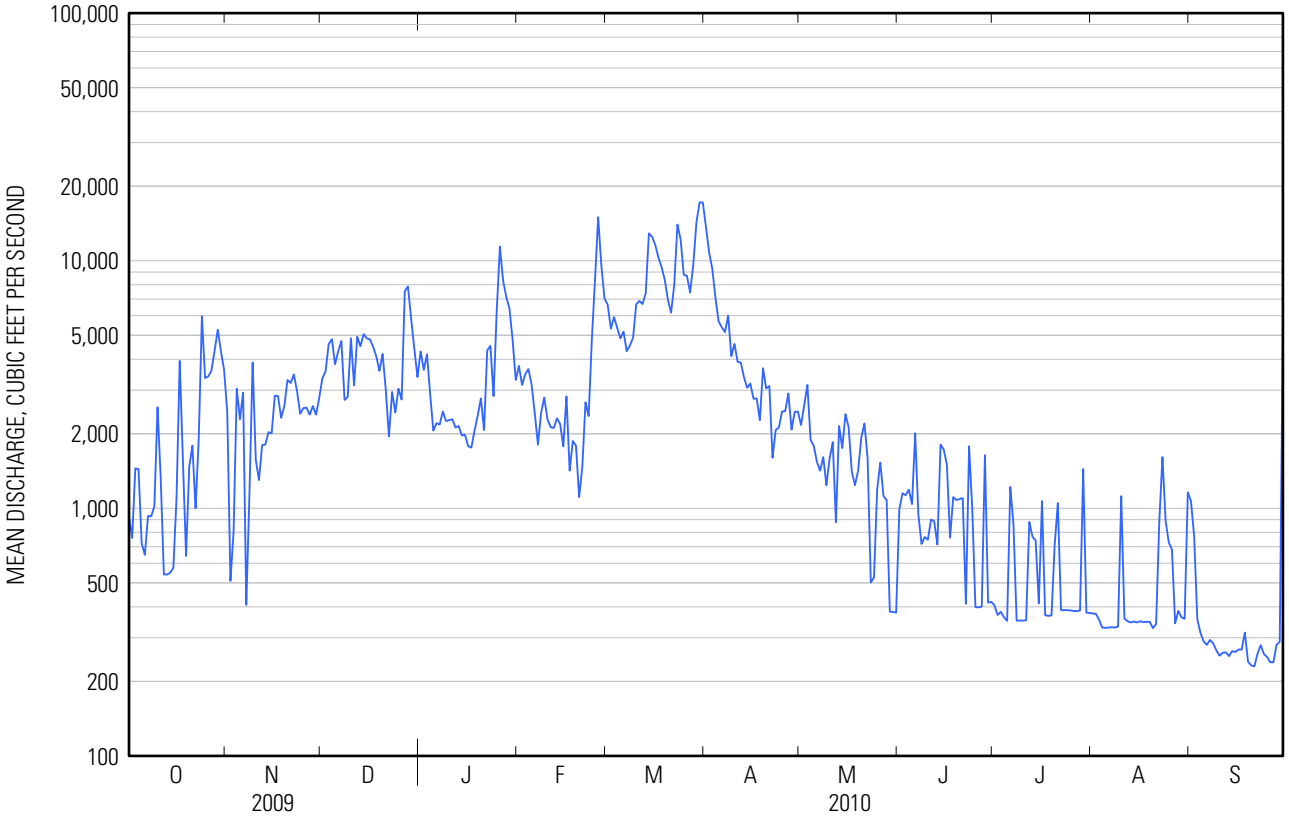
SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1929 - 2010	
Annual total	1,175,187		993,050			
Annual mean	3,220		2,721		2,691	
Highest annual mean					4,258	2006
Lowest annual mean					990	1965
Highest daily mean	13,300	Jun 19	17,200	Mar 30[d]	62,400	Oct 16, 1955
Lowest daily mean	382	Sep 26	230	Sep 21	0.00	Oct 12, 1930
Annual seven-day minimum	816	Sep 16	250	Sep 20	56	Aug 13, 1984
Maximum peak flow			20,600	Mar 30	[a]75,800	Oct 16, 1955
Maximum peak stage			13.23	Mar 30	[b]24.50	Oct 16, 1955
Instantaneous low flow			[f]178	Dec 20	[c]	[c]
10 percent exceeds	5,650		6,340		5,990	
50 percent exceeds	2,880		1,930		1,910	
90 percent exceeds	1,080		346		262	

[a] From rating curve extended above 3,500 ft³/s on basis of computation of peak flow at Stevenson and Derby Dams and slope-area measurement at gage heights 21.5 and 23.5 ft.
[b] From floodmarks.
[c] Practically no flow at times, result of regulation.
[d] Also Mar. 31.
[f] Result of regulation.