01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT

Connecticut Coastal Basin
Housatonic Subbasin

LOCATION.--Lat 41°57′26″, long 73°22′11″ referenced to North American Datum of 1927, Litchfield County, CT, Hydrologic Unit 01100005, on left bank at hydroelectric plant of Firstlight Power Resources at Falls Village, 1.4 mi downstream from Hollenbeck River, and at mile 75.9.

DRAINAGE AREA.--634 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Discharge: July 1912 to current year. Water-quality: water years 1974-80.

REVISED RECORDS.--WSP 781: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 529.06 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 26, 1964, at site 0.6 mi downstream at datum 6.72 ft lower. Satellite telemetry at station.

REMARKS.--Records good except those for periods of estimated record, which are fair. Low flow completely regulated by power plant of Firstlight Power Resources. High flow is regulated by flood-control reservoirs from 20.5 mi^2 in the Blackberry River Basin, but the regulation does not appreciably affect monthly runoff or the peak flows at the gaging station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,600 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 26	1745	5,560	6.83
Feb 26	2115	4,170	5.88
Mar 16	0530	6,540	7.51
Mar 24	1400	5,480	6.78
Mar 31	1045	*6,560	*7.52

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 01199000, accessed at http://wdr.water.usgs.gov/wy2010/pdfs/01199000.2010.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	486	1,710	1,440	1,150	1,390	2,230	6,080	737	361	271	192	125
2	449	1,690	1,390	1,100	1,280	1,970	5,410	685	536	281	184	121
3	472	1,480	1,770	763	1,220	1,900	4,370	657	603	262	176	117
4	553	1,370	2,640	736	1,120	1,750	3,300	676	506	246	170	112
5	588	1,200	2,430	882	1,040	1,610	2,620	655	450	232	172	108
6	537	1,090	2,090	889	1,000	1,450	2,280	611	456	219	190	105
7	523	1,030	1,790	895	846	1,400	2,130	561	520	207	186	104
8	597	986	1,560	858	833	1,480	1,800	602	477	195	170	99
9	594	922	1,470	778	802	1,650	1,680	812	421	195	159	95
10	584	876	e1,540	674	819	1,760	1,700	828	460	207	160	96
11	584	852	1,410	682	776	1,830	1,500	722	554	242	175	95
12	516	847	1,220	714	713	2,000	1,330	680	582	311	154	95
13	485	838	1,140	640	691	2,400	1,210	702	1,090	263	144	96
14	474	922	1,760	656	688	5,080	1,120	820	1,200	236	136	96
15	493	1,360	1,960	660	667	6,240	1,050	894	965	235	134	94
16	501	1,420	1,900	653	658	6,440	1,010	778	740	233	143	96
17	511	1,240	1,540	641	655	5,840	1,120	674	635	247	151	94
18	507	1,100	1,030	715	655	4,950	1,160	608	624	249	205	89
19	530	1,000	1,050	796	643	4,320	1,100	688	560	247	189	89
20	534	1,160	1,070	817	624	3,960	1,000	742	505	329	168	90
21	544	1,710	933	750	612	3,750	926	689	458	402	155	91
22	526	1,660	837	673	600	3,550	872	609	405	315	161	89
23	504	1,390	799	629	614	4,290	803	545	394	286	249	87
24	571	1,220	787	563	675	5,330	753	487	385	389	334	87
25	1,840	1,140	814	1,400	1,020	5,240	745	466	391	540	295	86
26	2,330	1,090	833	5,100	3,440	4,680	780	445	357	494	252	86
27	1,990	1,050	1,290	5,000	3,700	3,830	903	425	354	361	214	86
28	1,630	1,220	1,950	4,120	2,880	3,040	943	416	434	298	180	87
29	2,240	1,490	1,670	2,460	---	3,270	880	393	392	232	159	99
30	2,250	1,400	e991	e1,670	---	4,870	795	398	346	232	146	315
31	1,880	---	e1,100	1,530	---	6,390	---	369	---	210	134	---
Total	26,823	36,463	44,204	39,594	30,661	108,500	51,370	19,374	16,161	8,666	5,637	3,129
Mean	865	1,215	1,426	1,277	1,095	3,500	1,712	625	539	280	182	104
Max	2,330	1,710	2,640	5,100	3,700	6,440	6,080	894	1,200	540	334	315
Min	449	838	787	563	600	1,400	745	369	346	195	134	86
Cfsm	1.36	1.92	2.25	2.01	1.73	5.52	2.70	0.99	0.85	0.44	0.29	0.16
In.	1.57	2.14	2.59	2.32	1.80	6.37	3.01	1.14	0.95	0.51	0.33	0.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	664	969	1,157	1,157	1,107	1,945	2,396	1,366	916	592	515	513
Max	3,318	3,795	3,328	4,490	3,394	5,291	5,207	2,892	3,143	2,302	2,509	3,543
(WY)	(2006)	(1928)	(2009)	(1949)	(2008)	(1936)	(1940)	(1984)	(1984)	(1945)	(1955)	(1938)
Min	122	117	131	189	267	669	756	541	277	170	157	104
(WY)	(1915)	(1915)	(1915)	(1981)	(1920)	(1965)	(1985)	(1941)	(1964)	(1965)	(1913)	(2010)

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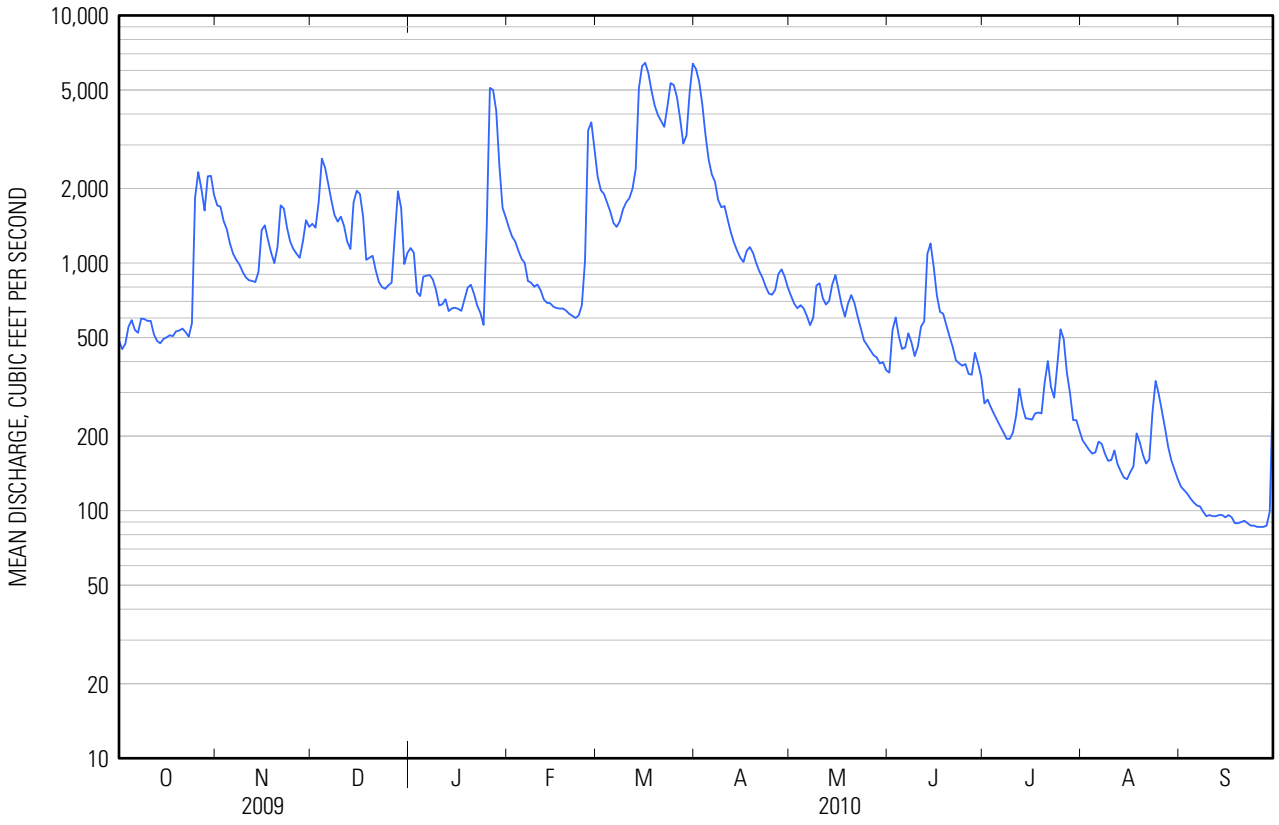
SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1913 - 2010	
Annual total	536,297		390,582			
Annual mean	1,469		1,070		1,107	
Highest annual mean					1,782	1928
Lowest annual mean					403	1965
Highest daily mean	6,980	Aug 1	6,440	Mar 16	23,700	Jan 1, 1949
Lowest daily mean	325	Sep 26	86	Sep 25[c]	24	Oct 15, 1914
Annual seven-day minimum	363	Sep 21	87	Sep 22	51	Sep 10, 2002
Maximum peak flow			6,560	Mar 31	23,900	Jan 1, 1949
Maximum peak stage			7.52	Mar 31	[a]19.40	Jan 1, 1949
Instantaneous low flow			[d]83	Sep 23[f]	[b]	[b]
Annual runoff (cfsm)	2.32		1.69		1.75	
Annual runoff (inches)	31.47		22.92		23.73	
10 percent exceeds	2,480		2,240		2,410	
50 percent exceeds	1,160		688		747	
90 percent exceeds	546		153		230	

[a] From floodmarks, present site and datum.
[b] Practically no flow at times when power plant was shut down.
[c] Also Sep. 26-27.
[d] Result of regulation.
[f] Also Sep. 24-27.