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. 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)
Dec 13	1800	*10,100	*10.27
Dec 29	1815	4,510	6.12
Mar 10	0300	4,150	5.87
Jun 22	0900	6,200	7.28
Jul 3	2030	3,980	5.75
Aug 1	1945	7,190	8.02

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	898	1,940	1,540	2,730	770	1,530	2,100	625	753	1,360	6,980	1,750
2	766	1,650	1,980	2,290	763	1,300	1,830	647	656	1,820	6,910	1,350
3	699	1,410	1,840	2,410	753	997	1,710	665	598	3,720	6,150	1,130
4	647	1,280	1,540	2,100	715	968	1,910	662	567	3,760	4,860	931
5	598	1,200	1,380	2,030	631	956	2,140	655	519	2,920	3,330	849
6	536	1,150	1,300	1,840	618	943	2,040	702	494	2,080	2,270	757
7	504	1,130	1,210	1,780	614	1,010	2,190	1,340	466	1,580	1,760	687
8	492	1,090	1,040	1,900	650	1,580	2,140	1,650	445	1,430	1,480	641
9	468	1,110	972	1,770	698	3,210	1,870	1,510	441	1,370	1,240	639
10	468	1,060	1,320	1,430	700	4,020	1,600	1,450	482	1,210	1,150	609
11	458	982	2,770	1,420	713	3,810	1,670	1,460	496	1,060	1,110	569
12	436	915	6,220	1,400	1,090	3,840	1,910	1,230	1,290	1,360	1,040	634
13	416	889	9,600	1,320	1,560	3,530	1,690	1,070	1,740	1,450	1,710	667
14	406	942	8,830	1,290	1,540	2,940	1,430	960	2,430	1,190	1,900	627
15	415	1,100	6,480	1,100	1,310	2,460	1,300	940	3,080	979	1,410	586
16	417	1,470	5,100	e989	1,090	2,250	1,170	913	4,190	912	1,090	547
17	441	1,530	4,420	e899	970	2,130	1,090	1,740	3,910	1,410	933	511
18	485	1,360	3,880	922	882	2,090	1,030	2,440	3,710	2,120	797	478
19	481	1,210	3,180	992	909	2,170	970	1,980	5,250	2,140	749	448
20	473	1,070	2,580	990	951	2,280	921	1,490	5,260	1,600	734	466
21	460	972	2,310	946	909	2,150	986	1,190	5,820	1,370	765	411
22	462	906	2,030	893	867	1,880	1,090	997	6,020	2,520	1,390	370
23	466	832	1,800	909	846	1,670	1,150	862	5,240	2,390	2,950	363
24	468	792	1,980	908	745	1,460	1,100	778	3,940	2,200	2,960	359
25	481	1,020	3,640	794	697	1,360	1,000	731	2,820	2,630	2,370	353
26	1,330	1,590	4,090	769	833	1,300	894	658	2,400	2,790	1,710	325
27	2,180	1,620	3,730	748	808	1,330	816	656	2,360	2,600	1,300	358
28	2,120	1,360	3,930	749	1,420	1,400	759	817	2,090	2,370	1,060	524
29	2,770	1,220	4,400	836	---	1,460	701	926	1,790	3,100	1,720	613
30	2,770	1,140	4,290	860	---	1,920	661	963	1,510	3,730	2,460	551
31	2,370	---	3,790	823	---	2,340	---	910	---	5,500	2,320	---
Total	26,381	35,940	103,172	40,837	25,052	62,284	41,868	33,617	70,767	66,671	68,608	19,103
Mean	851	1,198	3,328	1,317	895	2,009	1,396	1,084	2,359	2,151	2,213	637
Max	2,770	1,940	9,600	2,730	1,560	4,020	2,190	2,440	6,020	5,500	6,980	1,750
Min	406	792	972	748	614	943	661	625	441	912	734	325
Cfsm	1.34	1.89	5.25	2.08	1.41	3.17	2.20	1.71	3.72	3.39	3.49	1.00
In.	1.55	2.11	6.05	2.40	1.47	3.65	2.46	1.97	4.15	3.91	4.03	1.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	662	966	1,154	1,156	1,108	1,929	2,403	1,373	920	595	519	517
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	126
(WY)	(1915)	(1915)	(1915)	(1981)	(1920)	(1965)	(1985)	(1941)	(1964)	(1965)	(1913)	(1995)

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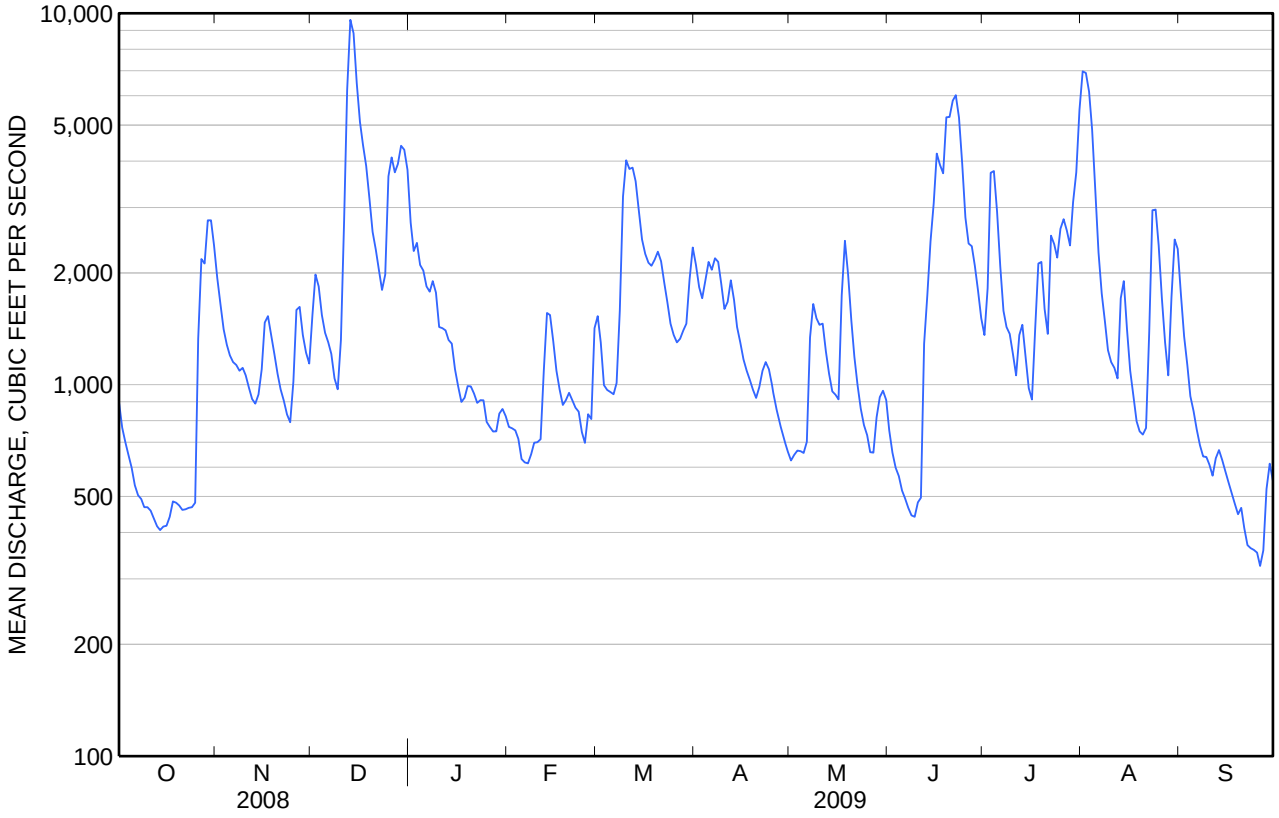
SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1913 - 2009	
Annual total	637,899		594,300			
Annual mean	1,743		1,628		1,107	
Highest annual mean					1,782	1928
Lowest annual mean					403	1965
Highest daily mean	9,900	Mar 10	9,600	Dec 13	23,700	Jan 1, 1949
Lowest daily mean	299	Sep 3	325	Sep 26	24	Oct 15, 1914
Annual seven-day minimum	325	Aug 29	363	Sep 21	51	Sep 10, 2002
Maximum peak flow			10,100	Dec 13	23,900	Jan 1, 1949
Maximum peak stage			10.27	Dec 13	[a]19.40	Jan 1, 1949
Instantaneous low flow			[c]165	Jan 29	[b]	[b]
Annual runoff (cfsm)	2.75		2.57		1.75	
Annual runoff (inches)	37.43		34.87		23.73	
10 percent exceeds	3,780		3,260		2,410	
50 percent exceeds	1,200		1,210		748	
90 percent exceeds	467		516		231	

[a] From floodmarks, present site and datum.

[b] Practically no flow at times when power plant was shut down.

[c] Result of regulation.