01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT

Connecticut Coastal Basin
Housatonic Subbasin

LOCATION.--Lat 41°39′11″, long 73°29′25″ referenced to North American Datum of 1927, Litchfield County, CT, Hydrologic Unit 01100005, on left bank 0.4 mi downstream from hydroelectric plant of Connecticut Light and Power Co., 0.5 mi upstream from bridge on U.S. Rt. 7 at Gaylordsville, 1.5 mi downstream from Tenmile River, and at river mile 50.6.

DRAINAGE AREA.--996 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Discharge: July 1940 to current year. October 1900 to December 1904 (fragmentary), January 1905 to December 1908 (gage heights only), January 1909 to December 1912 (fragmentary), January 1913 to October 1914 (gage heights only), November 1914 (fragmentary). Water-quality records: water years 1960, 1968. Daily water temperature: water years 1960, 1968. Daily suspended-sediment discharge: water years 1979-80.

REVISED RECORDS.--WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 236.78 ft above sea level. October 1900 to November 1914, nonrecording gage on covered bridge 0.6 mi downstream at different datum. Satellite telemetry at station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1854 reached a stage of 21 ft 3 in, former site and datum; reported by observer in 1902. Flood of Sept. 22, 1938, reached a stage of 14.5 ft, from floodmarks, at present site, discharge, 37,000 ft^3/s, by computation of peak flow over dam 2.5 mi upstream adjusted for flow from intervening area.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 9	0330	10,900	9.05
Oct 11	1345	11,100	9.10
Oct 15	0215	*20,700	*12.24
Oct 17	0945	8,220	7.90
Oct 26	1300	10,100	8.72
Dec 1	2015	8,750	8.14
Dec 27	0645	6,730	7.18
Dec 30	1615	6,050	6.83
Jan 15	0800	10,600	8.91
Jan 19	0915	14,400	10.33
Jan 23	0630	6,590	7.11
Feb 5	2215	6,200	6.91
Apr 24	1700	6,590	7.11
May 13	0345	6,340	6.98

Minimum discharge, 152 ft^3/s, Oct. 6, 7, gage height, 1.22 ft.

01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

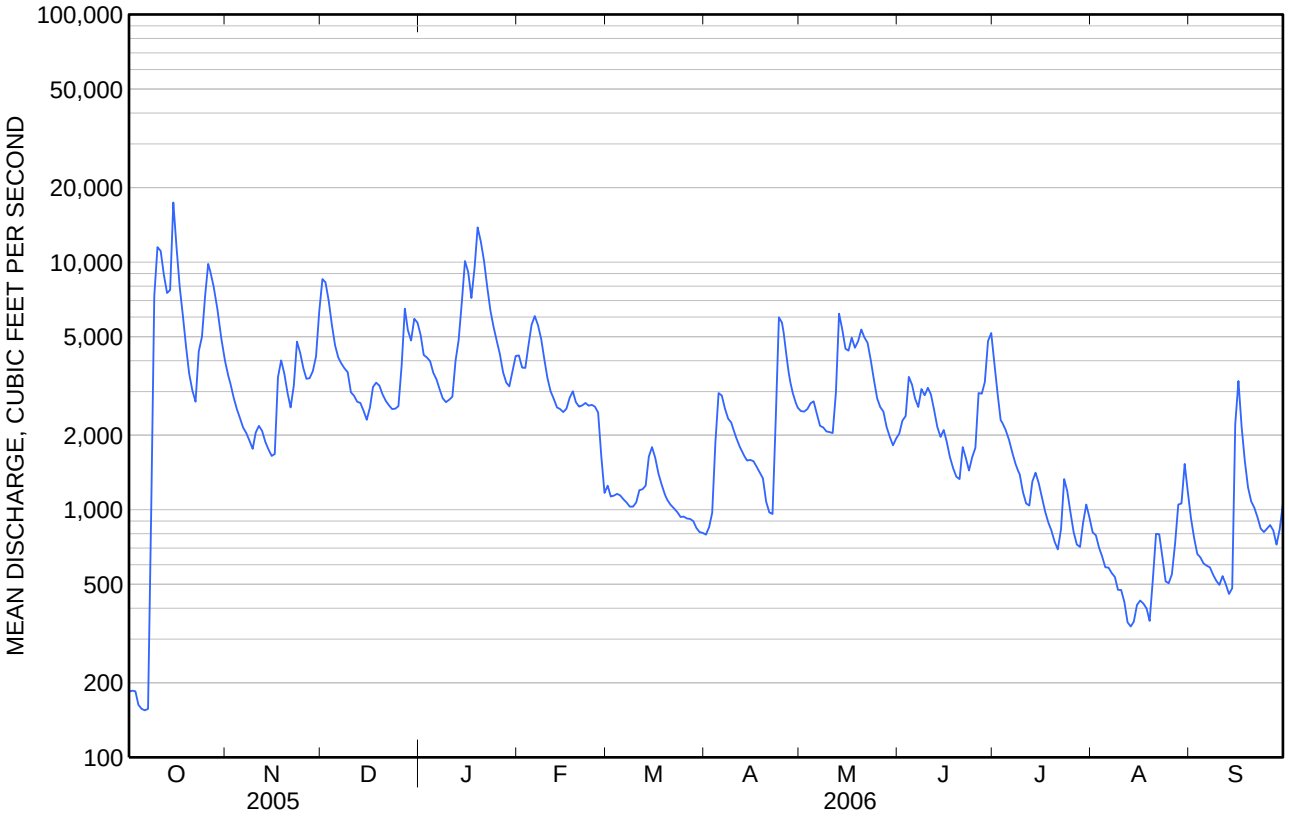
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	184	3,630	8,540	5,070	4,200	1,250	793	2,500	2,030	3,880	810	928
2	186	3,230	8,290	4,220	3,750	1,130	852	2,490	2,290	2,930	789	769
3	185	2,840	6,990	4,120	3,740	1,140	972	2,550	2,390	2,300	702	663
4	163	e2,550	5,580	3,980	4,580	1,160	1,870	2,690	3,440	2,170	648	642
5	157	e2,350	4,610	3,570	5,580	1,140	2,960	2,740	3,200	2,040	586	607
6	155	e2,150	4,120	3,360	6,050	1,100	2,890	2,440	2,810	1,820	584	594
7	157	e2,040	3,900	3,060	5,570	1,070	2,560	2,180	2,600	1,640	555	585
8	1,010	e1,900	3,720	2,820	4,900	1,030	2,330	2,150	3,070	1,490	535	546
9	7,290	e1,760	3,590	2,720	4,080	1,030	2,250	2,070	2,900	1,390	475	516
10	e11,500	2,050	2,980	2,780	3,410	1,070	2,050	2,060	3,110	1,180	474	497
11	e11,100	2,180	2,880	2,860	3,010	1,200	1,880	2,040	2,920	1,060	424	540
12	8,870	2,080	2,730	4,000	2,800	1,210	1,770	2,960	2,530	1,040	351	500
13	7,500	1,880	2,700	4,830	2,590	1,250	1,650	6,190	2,160	1,300	338	457
14	7,720	1,750	2,510	6,870	2,550	1,640	1,580	5,340	1,970	1,410	353	482
15	17,400	1,650	2,310	10,100	2,480	1,790	1,590	4,470	2,100	1,280	413	2,210
16	11,500	1,680	2,590	9,120	2,560	1,620	1,570	4,390	1,880	1,120	430	3,310
17	7,940	3,430	3,130	7,160	2,830	1,400	1,490	4,950	1,630	983	418	2,160
18	6,050	4,010	3,260	9,510	3,010	1,270	1,410	4,510	1,470	887	399	1,570
19	4,530	3,540	3,170	13,800	2,720	1,160	1,340	4,790	1,360	824	356	1,230
20	3,550	2,960	2,920	12,100	2,610	1,090	1,080	5,340	1,330	743	522	1,080
21	3,030	2,590	2,750	10,100	2,640	1,040	975	4,970	1,790	692	799	1,020
22	2,730	3,170	2,640	7,920	2,700	1,010	961	4,720	1,620	833	796	933
23	4,360	4,770	2,550	6,370	2,630	979	2,310	4,020	1,440	1,330	641	839
24	5,000	4,300	2,560	5,500	2,650	935	5,980	3,340	1,630	1,190	514	813
25	7,340	3,720	2,620	4,820	2,610	939	5,700	2,820	1,780	977	505	840
26	9,830	3,380	3,820	4,250	2,470	922	4,630	2,600	2,960	813	549	867
27	8,750	3,400	6,480	3,590	1,640	918	3,660	2,490	2,940	723	730	825
28	7,560	3,630	5,310	3,260	1,170	899	3,120	2,160	3,280	707	1,050	724
29	6,310	4,160	4,820	3,150	---	844	2,770	1,970	4,800	886	1,060	834
30	5,040	6,320	5,900	3,630	---	812	2,580	1,820	5,170	1,050	1,530	1,060
31	4,180	---	5,700	4,180	---	806	---	1,940	---	929	1,190	---
Total	171,277	89,100	125,670	172,820	91,530	34,854	67,573	101,700	74,600	41,617	19,526	28,641
Mean	5,525	2,970	4,054	5,575	3,269	1,124	2,252	3,281	2,487	1,342	630	955
Max	17,400	6,320	8,540	13,800	6,050	1,790	5,980	6,190	5,170	3,880	1,530	3,310
Min	155	1,650	2,310	2,720	1,170	806	793	1,820	1,330	692	338	457
Cfsm	5.55	2.98	4.07	5.60	3.28	1.13	2.26	3.29	2.50	1.35	0.63	0.96
In.	6.40	3.33	4.69	6.45	3.42	1.30	2.52	3.80	2.79	1.55	0.73	1.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,035	1,466	1,846	1,912	1,864	2,979	3,479	2,187	1,480	876	731	675
Max	5,525	5,024	5,064	6,599	4,398	6,529	6,685	5,079	4,538	3,323	4,433	2,487
(WY)	(2006)	(1956)	(2004)	(1949)	(1976)	(1977)	(1993)	(1989)	(1984)	(1972)	(1955)	(2004)
Min	203	203	411	288	592	1,037	972	810	389	236	213	153
(WY)	(1965)	(1965)	(1965)	(1981)	(1980)	(1965)	(1985)	(1965)	(1964)	(1965)	(1964)	(1995)

01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT—Continued

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1941 - 2006	
Annual total	853,226		1,018,908			
Annual mean	2,338		2,792		1,709	
Highest annual mean					2,792	2006
Lowest annual mean					572	1965
Highest daily mean	17,400	Oct 15	17,400	Oct 15	38,800	Aug 19, 1955
Lowest daily mean	127	Sep 14	155	Oct 6	60	Aug 31, 1944
Annual seven-day minimum	147	Sep 9	170	Oct 1	104	Aug 18, 1981
Maximum peak flow			20,700	Oct 15	51,800	Aug 19, 1955
Maximum peak stage			12.24	Oct 15	18.58	Aug 19, 1955
Instantaneous low flow			152	Oct 6[a]	30	Oct 28, 1914
Annual runoff (cfsm)	2.35		2.80		1.72	
Annual runoff (inches)	31.87		38.06		23.31	
10 percent exceeds	5,930		5,630		3,700	
50 percent exceeds	1,520		2,300		1,170	
90 percent exceeds	216		627		333	

[a] Also occurred Oct. 7.