Water-Data Report 2011

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 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 and crest-stage gage. Datum of gage is 236.78 ft above National Geodetic Vertical Datum of 1929. October 1900 to November 1914, nonrecording gage on covered bridge 0.6 mi downstream at different datum. Satellite telemetry at station.

REMARKS.--Records poor including periods of estimated daily discharge. 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.

PEAK DISCHARGES 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)
Mar 7	0745	*26,300	*13.74
Mar 11	2215	18,400	11.58
Mar 16	1500	7,560	7.58
Apr 18	0400	7,990	7.78
Aug 28	1730	21,600	12.50
Sep 8	1300	23,100	12.90

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01200500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01200500.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,350	1,080	1,820	1,360	e836	3,420	2,240	3,410	1,540	1,900	496	8,950
2	5,400	1,040	4,780	1,540	e859	3,260	2,320	3,030	1,420	1,540	435	e5,800
3	3,750	999	4,680	1,660	e918	2,850	2,280	2,730	1,330	1,310	414	e3,290
4	2,400	1,150	3,920	1,620	e967	2,490	2,180	2,690	1,200	1,280	377	e2,480
5	1,640	2,010	3,120	1,600	956	2,480	2,350	3,030	1,080	1,260	351	e2,470
6	1,320	2,310	2,610	1,320	1,060	5,150	e3,350	2,810	998	1,110	339	e7,930
7	1,940	2,060	2,280	1,190	1,090	21,500	e3,430	2,500	914	998	462	12,600
8	2,240	1,830	2,060	1,220	1,280	18,300	3,020	2,210	859	989	543	19,900
9	1,940	1,880	1,770	1,190	1,380	e16,000	2,690	2,050	1,180	1,140	436	20,400
10	1,470	1,800	1,410	1,120	1,100	11,800	2,470	1,930	1,950	1,130	454	16,600
11	1,140	1,690	1,620	1,100	e1,110	e16,400	2,360	1,750	2,040	945	420	12,900
12	994	1,590	2,140	897	1,010	e16,400	2,360	1,630	2,070	826	382	8,960
13	835	1,490	4,430	1,060	981	12,500	e2,860	1,520	2,200	772	352	e6,250
14	764	1,410	5,000	1,220	994	9,930	e3,270	1,430	1,980	707	342	4,560
15	1,090	1,380	4,080	1,170	1,420	8,080	2,870	1,580	1,900	654	531	3,600
16	1,930	1,350	3,360	1,080	1,410	7,250	2,570	1,890	1,780	599	1,550	3,140
17	2,070	1,930	2,730	1,060	1,190	7,230	e5,390	2,000	1,770	547	1,660	2,790
18	1,800	2,440	2,660	974	1,300	6,930	e7,730	2,350	2,150	516	1,250	2,520
19	1,430	2,230	2,360	1,130	1,900	6,970	6,170	3,600	2,090	500	1,040	2,300
20	1,260	1,940	2,040	1,170	1,940	6,660	5,480	4,150	1,660	494	1,110	2,080
21	1,180	1,720	1,950	1,120	1,860	6,150	4,690	4,470	1,390	454	1,050	2,020
22	1,160	1,560	1,880	e1,040	1,680	5,650	3,920	4,410	1,280	422	1,350	2,270
23	1,100	1,470	1,750	e983	1,550	5,070	3,640	3,630	1,650	383	1,400	2,780
24	1,000	1,400	1,630	e925	1,460	4,540	e3,920	3,220	2,410	416	1,240	3,690
25	941	1,310	1,450	e893	1,840	3,940	3,690	2,870	2,790	416	953	3,550
26	914	1,290	1,390	e981	2,790	3,450	3,530	2,630	2,770	455	1,460	3,060
27	1,090	1,320	948	e974	2,760	3,050	3,520	2,250	2,590	644	1,970	2,530
28	1,570	1,300	1,330	e970	2,800	2,740	3,860	2,010	2,330	693	e12,800	e2,090
29	1,720	1,180	1,320	e950	---	2,480	4,290	1,830	2,180	621	e18,500	e3,970
30	1,500	1,190	1,430	e916	---	2,350	3,880	1,940	2,140	550	15,100	e7,590
31	1,280	---	1,380	e898	---	2,240	---	1,890	---	587	12,300	---
Total	52,218	47,349	75,328	35,331	40,441	227,260	106,330	79,440	53,641	24,858	81,067	183,070
Mean	1,684	1,578	2,430	1,140	1,444	7,331	3,544	2,563	1,788	802	2,615	6,102
Max	5,400	2,440	5,000	1,660	2,800	21,500	7,730	4,470	2,790	1,900	18,500	20,400
Min	764	999	948	893	836	2,240	2,180	1,430	859	383	339	2,020
Cfsm	1.69	1.58	2.44	1.14	1.45	7.36	3.56	2.57	1.80	0.81	2.63	6.13
In.	1.95	1.77	2.81	1.32	1.51	8.49	3.97	2.97	2.00	0.93	3.03	6.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,051	1,495	1,899	1,914	1,896	3,117	3,480	2,149	1,497	902	779	752
Max	5,525	5,024	5,064	6,599	5,698	7,331	6,685	5,079	4,538	3,323	4,433	6,102
(WY)	(2006)	(1956)	(2004)	(1949)	(2008)	(2011)	(1993)	(1989)	(1984)	(1972)	(1955)	(2011)
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)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1941 - 2011	
Annual total	618,340		1,006,333			
Annual mean	1,694		2,757		1,742	
Highest annual mean					2,792	2006
Lowest annual mean					572	1965
Highest daily mean	10,500	Mar 31	21,500	Mar 7	38,800	Aug 19, 1955
Lowest daily mean	124	Sep 26	339	Aug 6	60	Aug 31, 1944[a]
Annual seven-day minimum	137	Sep 21	411	Aug 1	104	Aug 18, 1981
Maximum peak flow			26,300	Mar 7	51,800	Aug 19, 1955
Maximum peak stage			13.74	Mar 7	18.58	Aug 19, 1955
Instantaneous low flow			304	Jul 25	30	Oct 28, 1914[b]
Annual runoff (cfsm)	1.70		2.77		1.75	
Annual runoff (inches)	23.09		37.59		23.77	
10 percent exceeds	3,930		5,250		3,740	
50 percent exceeds	1,210		1,800		1,200	
90 percent exceeds	224		831		337	

[a] Also Sep. 20, 1949.
[b] Site and datum then in use.