

HOUSATONIC RIVER BASIN
01208500 NAUGATUCK RIVER AT BEACON FALLS, CT

LOCATION.--Lat 41°26'32", long 73°03'47", New Haven County, Hydrologic Unit 01100005, on left bank at downstream side of bridge on Bridge Street at Beacon Falls, 0.4 mi upstream from Bronson Brook, and at mile 10.1.

DRAINAGE AREA.--260 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1918 to September 1924, September 1928 to September 1955, published as "near Naugatuck," October 1955 to current year.

REVISED RECORDS.--WSP 1171: 1918-24, 1928-49. WSP 1501: 1956 (P). WDR CT-83-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 117.28 ft above sea level. Prior to Oct. 1, 1955, water-stage recorder at site 2.5 mi upstream at datum 37.89 ft higher. Oct. 1, 1955, to Mar. 21, 1957, nonrecording gage at present site and datum. Telephone telemetry at station. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Winchester, Hall Meadow Brook, East Branch, Thomaston, Pitch, Morris, and Wigwam Reservoirs, Northfield Brook, Hancock Brook, Hop Brook, and Black Rock Lakes, and during low flow, by industrial plants upstream. Flow increased by diversion from Shepaug Reservoir into Naugatuck River basin. Town of Watertown diverts about 0.5 Mgal/d from Pomperaug River basin into Naugatuck River about 10 mi upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in November 1927 reached a stage of 14 ft, former site and datum, discharge, about 26,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	239	168	291	183	562	2060	672	239	247	119	61	73
2	140	179	258	141	1190	1440	671	234	234	186	58	66
3	117	157	244	879	2300	928	628	232	215	171	59	64
4	104	146	234	917	1810	2530	608	296	198	124	57	62
5	106	140	224	456	1420	1750	565	276	179	112	61	62
6	104	139	225	308	1030	1170	521	245	176	105	72	79
7	103	138	222	288	864	960	515	260	182	99	68	119
8	930	138	215	233	806	701	466	259	169	101	76	101
9	908	137	239	600	704	688	430	290	153	99	72	93
10	945	137	216	756	676	661	428	282	143	94	60	656
11	695	342	205	449	652	613	397	253	141	84	60	238
12	375	317	193	354	649	588	430	231	147	82	61	128
13	289	237	189	326	771	528	395	205	145	90	67	108
14	1180	210	193	268	672	536	361	198	156	88	113	123
15	1420	203	180	761	547	643	332	177	143	83	101	156
16	828	192	189	1070	537	609	349	180	138	82	91	3980
17	441	195	188	713	502	646	471	179	145	80	77	3560
18	358	208	188	982	1040	808	394	190	124	79	73	2540
19	302	189	173	1800	1290	771	344	331	116	93	70	2210
20	243	185	172	1580	978	641	364	1400	122	101	71	1920
21	226	194	174	1260	719	577	351	978	118	93	99	1390
22	233	185	196	1130	562	3360	318	449	110	84	80	566
23	218	175	228	1040	464	3210	398	442	96	78	72	408
24	204	174	199	2580	462	2830	466	1060	98	101	76	318
25	186	165	168	1850	451	2160	370	1250	104	81	85	235
26	182	572	159	1680	450	1260	323	799	106	69	133	214
27	185	949	153	1510	455	954	298	689	101	67	94	205
28	212	496	167	1190	641	964	276	571	102	62	77	185
29	237	375	184	844	---	1010	262	383	147	60	74	174
30	194	316	328	692	---	844	259	319	151	60	71	625
31	176	---	185	602	---	723	---	275	---	59	87	---
TOTAL	12080	7358	6379	27442	23204	37163	12662	13172	4406	2886	2376	20658
MEAN	390	245	206	885	829	1199	422	425	147	93.1	76.6	689
MAX	1420	949	328	2580	2300	3360	672	1400	247	186	133	3980
MIN	103	137	153	141	450	528	259	177	96	59	57	62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1999, BY WATER YEAR (WY)

	395	546	637	647	657	999	1019	622	414	253	289	244
MEAN	395	546	637	647	657	999	1019	622	414	253	289	244
MAX	2480	1890	1688	2307	1436	2227	2467	2098	1973	787	2920	902
(WY)	1956	1956	1997	1979	1981	1983	1983	1989	1982	1972	1955	1975
MIN	80.3	85.6	164	118	252	450	273	239	122	72.6	72.0	78.4
(WY)	1965	1965	1966	1981	1980	1989	1985	1965	1957	1966	1966	1964

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1955 - 1999	
ANNUAL TOTAL	196528		169786			
ANNUAL MEAN	538		465		560	
HIGHEST ANNUAL MEAN					830	1973
LOWEST ANNUAL MEAN					237	1965
HIGHEST DAILY MEAN	3450	Mar 9	3980	Sep 16	56400	Aug 19 1955
LOWEST DAILY MEAN	71	Sep 21	57	Aug 4	c 40	Oct 5 1930
ANNUAL SEVEN-DAY MINIMUM	75	Sep 15	59	Jul 29	47	Jul 11 1971
INSTANTANEOUS PEAK FLOW			12700	Sep 16	a 106000	Aug 19 1955
INSTANTANEOUS PEAK STAGE			11.95	Sep 16	b 25.70	Aug 19 1955
INSTANTANEOUS LOW FLOW			d 50	Aug 3	24	Oct 21 1935
10 PERCENT EXCEEDS	1140		1050		1200	
50 PERCENT EXCEEDS	342		234		346	
90 PERCENT EXCEEDS	108		80		112	

- a** From rating curve extended above 9,000 ft³/s, on basis of slope-area measurements of peak flow at gage height of 12.4 and 25.7 ft, use and datum then in use.
b From floodmarks.
c Also occurred on Oct. 12, 1930 and Sept. 7, 1936.
d Also occurred Aug. 4, 10, and Sep. 5.

