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 mi^2.

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.--Records good except for periods of estimated daily dischares, which are fair. 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 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,690 ft^3/s, July 15, gage height, 8.38 ft; minimum discharge, 91 ft^3/s, July 13, 14, gage height, 1.42 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

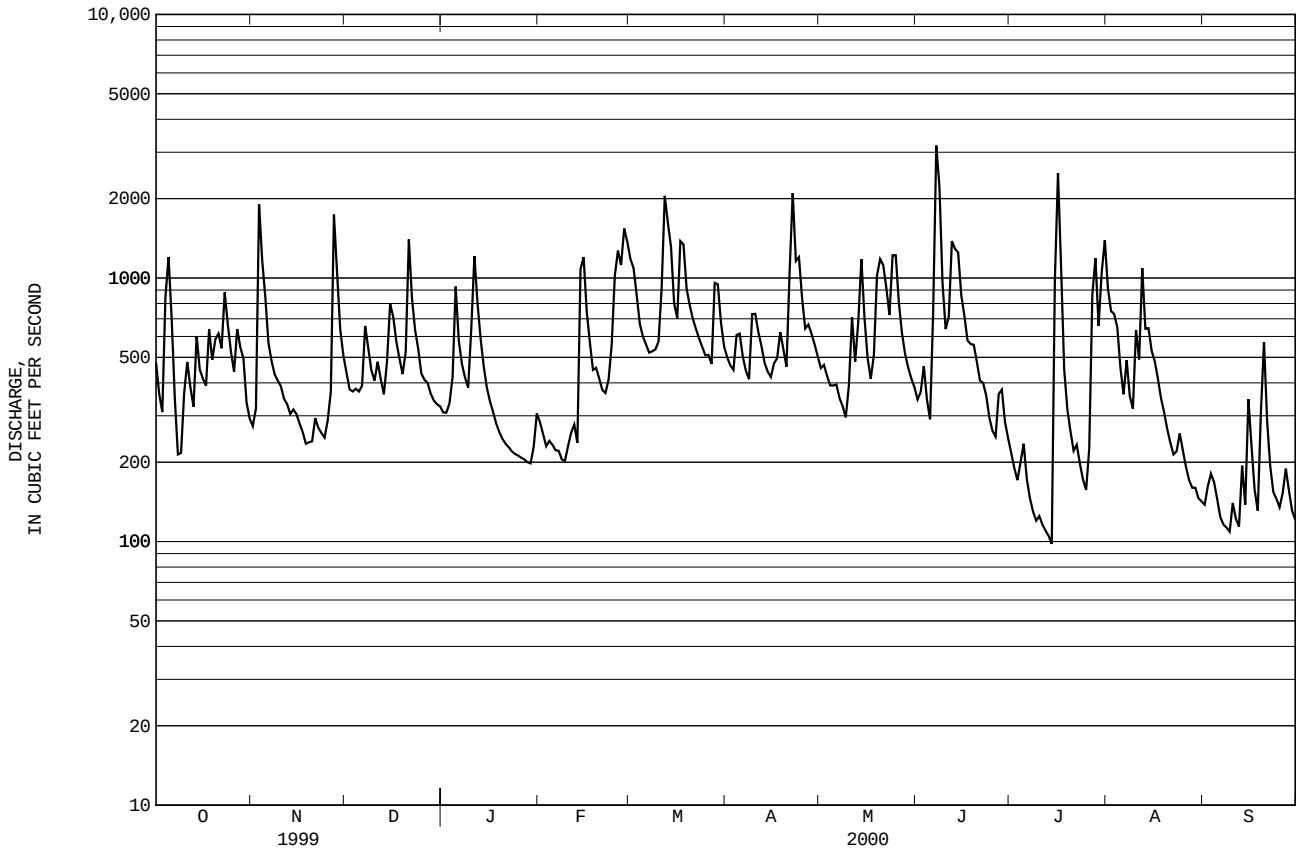
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	478	274	438	309	284	1180	500	455	346	217	911	138
2	364	e320	378	308	256	1090	466	468	369	190	749	162
3	310	e1900	371	334	230	861	448	425	463	171	729	181
4	848	1170	380	419	241	670	607	391	346	200	650	168
5	1200	848	371	928	233	599	615	391	291	235	457	145
6	701	568	390	577	222	559	503	394	745	173	362	124
7	350	484	658	472	221	521	444	350	3180	146	488	116
8	214	431	541	419	205	527	413	326	2230	130	357	113
9	217	408	446	384	202	536	729	296	956	120	319	109
10	366	388	408	643	230	574	731	392	640	125	635	140
11	e480	348	481	1210	259	917	622	709	713	116	491	122
12	e385	332	413	804	278	2050	550	482	1380	110	1090	114
13	325	305	362	587	237	1620	476	681	1290	105	642	194
14	602	317	482	461	1080	1310	441	1180	1250	98	645	138
15	450	304	797	383	1200	802	421	704	861	985	530	347
16	415	280	712	e340	745	703	474	496	720	2500	483	230
17	390	260	573	e310	570	1380	496	415	580	1090	415	157
18	638	235	494	e280	448	1340	623	509	562	447	350	131
19	489	238	432	e260	456	911	537	1020	558	317	309	308
20	585	240	525	e245	415	788	461	1180	480	262	267	570
21	615	294	1400	e235	376	700	1050	1120	408	221	237	287
22	541	270	839	e228	366	640	2100	915	400	233	214	193
23	882	258	635	e220	411	590	1160	724	358	198	220	154
24	664	248	539	e215	559	548	1200	1220	295	172	257	145
25	e525	288	434	e212	1020	509	837	1220	263	157	222	135
26	e440	370	411	e208	1270	511	643	807	250	225	192	153
27	e640	1740	400	e205	1120	472	666	617	363	864	171	189
28	546	1050	364	e200	1540	958	615	515	377	1190	160	156
29	495	642	343	e198	1370	946	560	457	285	659	160	131
30	337	510	332	229	---	679	505	415	247	1050	146	121
31	293	---	326	306	---	550	---	385	---	1390	142	---
TOTAL	15785	15320	15675	12129	16044	26041	19893	19659	21206	14096	13000	5371
MEAN	509	511	506	391	553	840	663	634	707	455	419	179
MAX	1200	1900	1400	1210	1540	2050	2100	1220	3180	2500	1090	570
MIN	214	235	326	198	202	472	413	296	247	98	142	109

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2000, BY WATER YEAR (WY)

MEAN	322	481	580	620	616	997	959	604	400	245	252	241
MAX	2480	1890	1688	2307	1436	2227	2467	2098	1973	957	2920	1301
(WY)	1956	1956	1997	1979	1981	1983	1983	1989	1982	1938	1955	1938
MIN	55.3	63.9	113	118	204	450	273	225	122	72.6	72.0	68.2
(WY)	1931	1932	1936	1981	1934	1989	1985	1941	1957	1966	1966	1931

e Estimated.

01208500 NAUGATUCK RIVER AT BEACON FALLS, CT--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1928 - 2000	
ANNUAL TOTAL	190749		194219			
ANNUAL MEAN	523		531		526	
HIGHEST ANNUAL MEAN					830	1973
LOWEST ANNUAL MEAN					237	1965
HIGHEST DAILY MEAN	3980	Sep 16	3180	Jun 7	56400	Aug 19 1955
LOWEST DAILY MEAN	57	Aug 4	98	Jul 14	**c**40	Oct 5 1930
ANNUAL SEVEN-DAY MINIMUM	59	Jul 29	115	Jul 8	47	Jul 11 1971
INSTANTANEOUS PEAK FLOW			5690	Jul 15	**a**106000	Aug 19 1955
INSTANTANEOUS PEAK STAGE			8.38	Jul 15	**b**25.70	Aug 19 1955
INSTANTANEOUS LOW FLOW			91	Jul 13	24	Oct 21 1935
10 PERCENT EXCEEDS	1150		1080		1120	
50 PERCENT EXCEEDS	364		432		325	
90 PERCENT EXCEEDS	80		172		106	

a From rating curve extended above 9,000 ft^3/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.