

PAWCATUCK RIVER BASIN

01118300 PENDLETON HILL BROOK NEAR CLARKS FALLS, CT

LOCATION.--Lat 41°28'29", long 71°50'05", New London County, Hydrologic Unit 01090005, on left bank just upstream from twin culverts on Grindstone Hill Rd., 0.1 mi west of State Rt. 49 in the township of North Stonington, 1.6 mi northwest of Clarks Falls, and 3.4 mi northeast of village of North Stonington.

DRAINAGE AREA.--4.02 mi².

PERIOD OF RECORD.--July 1958 to current year.

REVISED RECORDS.--WDR CT-85-1: 1982 (P).

GAGE.--Water-stage recorder. Datum of gage is 152.90 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good, except those for periods of estimated record, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 70 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
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No peak greater than base discharge.

Minimum discharge, 0.02 ft³/s, Aug. 28, gage height, 0.73 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	1.1	1.4	e1.4	3.8	3.5	29	14	10	1.4	0.17	0.18
2	3.1	1.1	1.2	e1.4	4.1	3.4	21	15	6.8	1.2	0.13	1.5
3	1.8	1.1	1.0	e1.3	3.3	21	16	18	5.1	1.1	0.20	1.9
4	1.2	1.3	0.98	e1.3	e2.7	17	14	13	4.4	0.94	0.20	2.1
5	0.90	1.3	0.98	e1.2	e2.5	10	12	11	5.1	0.80	0.15	1.4
6	0.81	1.4	0.95	e1.2	e2.3	7.3	10	9.1	7.7	0.69	0.12	0.66
7	0.78	1.3	0.98	5.1	2.6	6.2	8.5	8.3	38	0.65	0.10	0.41
8	0.68	1.1	0.95	3.5	2.7	5.4	7.8	7.7	22	0.68	0.08	0.31
9	0.76	1.1	1.9	2.7	2.5	5.1	7.5	7.0	13	0.63	0.07	0.23
10	0.81	1.1	1.9	2.9	2.4	11	18	7.4	8.7	0.62	0.06	0.18
11	0.74	1.1	1.6	3.5	5.9	9.8	13	6.3	6.7	0.54	0.06	0.17
12	0.72	1.0	1.5	4.0	e3.8	7.3	9.9	6.9	5.8	0.48	0.05	0.15
13	0.70	1.0	1.3	9.3	e3.1	6.8	8.5	19	5.4	0.44	0.05	0.14
14	0.76	1.0	1.4	8.3	e2.8	7.1	8.0	39	6.0	0.42	0.05	0.13
15	1.0	1.0	2.1	e6.0	e2.6	6.0	7.7	24	8.0	0.42	0.04	0.14
16	1.3	1.1	1.6	e4.5	2.9	5.8	7.1	16	7.3	0.43	0.04	2.6
17	1.7	1.0	1.4	e4.0	3.0	5.2	6.6	12	7.4	0.39	0.04	1.9
18	1.2	1.00	4.2	e3.4	3.5	5.3	6.2	34	5.6	0.34	0.04	0.97
19	1.00	0.97	3.2	e3.0	3.0	6.7	5.8	30	4.5	0.31	0.03	0.61
20	0.96	1.0	1.9	e2.8	2.8	10	5.5	20	4.0	0.43	0.03	0.48
21	0.95	1.0	1.4	e2.6	6.2	19	5.1	15	3.4	0.44	0.04	0.40
22	0.95	0.96	1.1	e2.4	5.0	12	6.1	12	3.0	0.37	0.04	0.35
23	0.98	0.94	0.98	4.7	3.9	8.6	7.4	10	2.7	0.33	0.03	3.3
24	1.00	0.95	6.6	6.1	3.3	7.1	6.4	8.9	2.4	0.40	0.03	1.9
25	1.1	1.1	5.7	5.8	2.9	6.2	7.0	7.7	2.1	0.36	0.03	1.1
26	1.1	2.3	3.5	4.7	2.9	6.6	13	7.2	2.1	0.29	0.04	0.84
27	1.0	1.7	2.6	3.9	3.3	22	9.3	6.8	1.9	0.26	0.03	5.9
28	1.00	1.5	2.1	3.5	4.0	17	13	7.0	1.8	0.29	0.03	4.3
29	1.00	1.3	e1.8	3.3	---	12	18	6.7	1.6	0.34	0.18	2.3
30	1.0	1.4	e1.6	3.2	---	10	13	5.9	1.4	0.33	0.72	1.5
31	1.0	---	e1.5	3.1	---	9.8	---	6.4	---	0.24	0.31	---
TOTAL	37.30	35.22	61.32	114.1	93.8	290.2	320.4	411.3	203.9	16.56	3.19	38.05
MEAN	1.20	1.17	1.98	3.68	3.35	9.36	10.7	13.3	6.80	0.53	0.10	1.27
MAX	5.3	2.3	6.6	9.3	6.2	22	29	39	38	1.4	0.72	5.9
MIN	0.68	0.94	0.95	1.2	2.3	3.4	5.1	5.9	1.4	0.24	0.03	0.13
CFSM	0.30	0.29	0.49	0.92	0.83	2.33	2.66	3.30	1.69	0.13	0.03	0.32
IN.	0.35	0.33	0.57	1.06	0.87	2.69	2.96	3.81	1.89	0.15	0.03	0.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2002, BY WATER YEAR (WY)

MEAN	3.73	7.78	11.7	12.1	12.5	16.5	15.2	10.5	6.63	2.52	2.06	2.03
MAX	14.9	19.7	28.8	43.6	22.3	31.5	48.2	23.2	32.4	10.5	12.4	10.4
(WY)	1990	1973	1987	1979	1982	1994	1983	1979	1982	1959	1986	1961
MIN	0.83	1.09	1.84	1.69	2.95	6.91	4.29	3.93	0.82	0.17	0.12	0.049
(WY)	1964	2002	1966	1981	1980	1981	1999	1986	1999	1994	1999	1980

e Estimated.

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1959 - 2002
ANNUAL TOTAL	3213.94	1685.15	
ANNUAL MEAN	8.81	4.62	8.58
HIGHEST ANNUAL MEAN			13.1 1984
LOWEST ANNUAL MEAN			4.30 1966
HIGHEST DAILY MEAN	100 Mar 22	39 May 14	251 Mar 18 1968
LOWEST DAILY MEAN	0.52 Sep 13	0.04 Aug 19	0.01 Sep 9 1980
ANNUAL SEVEN-DAY MINIMUM	0.59 Sep 8	0.04 Aug 22	0.01 Sep 9 1980
MAXIMUM PEAK FLOW		49 May 18	375 Jun 5 1982
MAXIMUM PEAK STAGE		2.61 May 18	6.73 Jun 5 1982
INSTANTANEOUS LOW FLOW		0.02 Aug 28	0.00 Aug 22 1987
ANNUAL RUNOFF (CFSM)	2.19	1.15	2.13
ANNUAL RUNOFF (INCHES)	29.74	15.59	29.00
10 PERCENT EXCEEDS	22	12	19
50 PERCENT EXCEEDS	4.1	2.2	5.7
90 PERCENT EXCEEDS	0.90	0.27	0.57

