THAMES RIVER BASIN

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT

LOCATION.--Lat 41°40'56", long 72°09'59", Windham County, Hydrologic Unit 01100002, at bridge on State Highway 203, at South Windham, 0.8 mi downstream from Jordan Brook, and 1.8 mi upstream from Cold Brook.

DRAINAGE AREA.--408 mi^2 .

PERIOD OF RECORD.--Water year 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1980 to September 1992.

WATER TEMPERATURE: August 1980 to September 1992.

INSTRUMENTATION.--Water-quality monitor August 1980 to September 1992.

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01122500, 1.6 mi upstream, and adjusting its discharge by multiplying by a factor of 1.01, which is the ratio of the two stations' drainage areas. Instantaneous records are representative of the cross section while continuous records are based on point samples. ** Samples were taken 1.6 mi upstream at station 01122500 due to work being performed at bridge where samples are normally taken.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 301 microsiemens May 21, 1982; minimum, 27 microsiemens Aug. 14, 1989.

WATER TEMPERATURE: Maximum, 29.0°C July 18, 19, 1982, Aug. 15, 1988; minimum, 0.0°C on many days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
OCT												
14...	0950	378	103	7.3	12.5	14.0	2.5	9.5	92	3500	400	24
NOV												
09...	1130	175	107	7.8	11.5	5.0	1.5	13.6	106	80	K6	26
DEC												
22...	1045	247	109	7.3	7.5	5.5	1.9	12.5	101	K160	K15	24
JAN												
14...	1400	646	125	6.9	-5.0	.0	1.3	13.8	93	100	160	21
MAR												
16...	1100	1240	89	6.9	7.5	2.5	.80	13.1	98	36	K16	--
APR												
14...	1030	521	99	7.4	12.0	10.5	1.3	10.9	99	41	K10	21
MAY												
18...	1310	240	108	7.3	22.5	18.0	1.3	9.9	104	39	20	24
JUN												
14...	1250	94	132	7.6	24.0	23.0	1.2	9.5	112	72	31	30
JUL												
26...	1125	77	146	7.5	28.0	26.0	1.3	9.3	116	140	K15	32
AUG												
09...	1240	46	151	7.5	23.5	24.5	1.5	8.7	106	180	28	32
SEP												
28...	1200	164	141	6.8	19.0	16.5	1.5	9.2	94	540	44	29

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT												
14...	6.4	1.9	8.1	2.1	0	17	14	9.1	13	<.10	7.5	71
NOV												
09...	7.1	2.0	9.4	2.0	0	21	17	8.4	14	<.10	6.1	77
DEC												
22...	6.4	1.9	8.8	1.7	0	17	14	9.5	14	<.10	7.8	71
JAN												
14...	5.4	1.8	13	1.6	0	12	10	8.3	20	<.10	8.7	76
MAR												
16...	--	--	--	--	0	10	8	--	--	--	--	--
APR												
14...	5.8	1.7	9.1	1.4	0	16	13	8.1	14	<.10	6.2	58
MAY												
18...	6.5	1.9	9.9	1.6	0	17	14	8.9	15	<.10	5.1	63
JUN												
14...	8.3	2.1	11	2.0	0	22	18	11	18	<.10	4.8	85
JUL												
26...	8.9	2.3	14	2.5	0	32	26	14	21	<.10	4.1	86
AUG												
09...	8.9	2.4	14	2.6	0	28	23	--	20	.14	4.5	85
SEP												
28...	8.0	2.2	12	2.4	0	22	18	16	18	<.10	6.7	97

THAMES RIVER BASIN

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
OCT												
14...	75	.013	.191	.108	.45	.56	.43	.75	.054	<.050	.019	24
NOV												
09...	78	<.010	.265	.114	.26	.37	.28	.64	<.050	<.050	.024	10
DEC												
22...	68	<.010	.354	.116	.07	.19	.31	.54	<.050	<.050	.020	13
JAN												
14...	78	<.010	.349	.117	.28	.40	.31	.75	.030	.010	.013	32
MAR												
16...	57	<.010	.280	.030	.16	.19	.13	.47	.020	.006	<.010	21
APR												
14...	68	<.010	.244	.093	.21	.30	.19	.55	.017	.010	<.010	18
MAY												
18...	--	.011	.268	.170	.20	.37	.35	.64	.030	.012	.015	15
JUN												
14...	--	.043	.578	.047	.40	.44	.42	1.0	.056	.037	.027	22
JUL												
26...	89	.035	.406	.049	.42	.47	.33	.87	.107	.090	.074	19
AUG												
09...	86	.059	.353	.184	.79	.97	.47	1.3	.161	.143	.110	20
SEP												
28...	85	.018	.307	.272	.39	.66	.58	.97	.074	.058	.043	14

DATE	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT												
14...	<1.0	9.5	<1.0	<1	<1.0	<1	<1.0	<1.0	2	1.0	470	180
NOV												
09...	<1.0	7.3	<1.0	--	<1.0	--	<1.0	<1.0	--	<1.0	--	170
DEC												
22...	<1.0	8.3	<1.0	<1	<1.0	<1	<1.0	<1.0	1	<1.0	420	150
JAN												
14...	<1.0	8.5	<1.0	<1	<1.0	<1	<1.0	<1.0	<1	1.0	310	140
MAR												
16...	<1.0	7.3	<1.0	<1	<1.0	<1	<1.0	<1.0	<1	<1.0	140	--
APR												
14...	<1.0	7.7	<1.0	<1	<1.0	<1	<1.0	<1.0	<1	<1.0	260	120
MAY												
18...	<1.0	7.5	<1.0	<1	<1.0	<1	<1.0	<1.0	1	<1.0	460	160
JUN												
14...	<1.0	7.9	<1.0	<1	<1.0	<1	<1.0	<1.0	2	1.5	360	270
JUL												
26...	<1.0	6.2	<1.0	<1	<1.0	<1	<1.0	<1.0	1	1.5	340	230
AUG												
09...	<1.0	6.6	<1.0	<1	<1.0	<1	<1.0	<1.0	2	1.5	300	180
SEP												
28...	<1.0	11	<1.0	<0	<1.0	<1	<.80	<1.0	2	1.5	340	110

THAMES RIVER BASIN

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT											
14...	<1	<1.0	17	<1.0	2	<1.0	<1.0	<10	1.9	<1.0	8.1
NOV											
09...	--	<1.0	13	<1.0	--	<1.0	<1.0	--	1.8	<1.0	4.3
DEC											
22...	<1	<1.0	14	<1.0	1	<1.0	<1.0	<10	2.4	<1.0	3.8
JAN											
14...	<1	<1.0	28	<1.0	<1	<1.0	<1.0	<10	3.6	<1.0	4.5
MAR											
16...	<1	<1.0	20	<1.0	<1	<1.0	<1.0	<40	2.2	<1.0	2.9
APR											
14...	<1	<1.0	22	<1.0	<1	<1.0	<1.0	<40	2.1	<1.0	3.5
MAY											
18...	<1	<1.0	20	<1.0	4	<1.0	<1.0	<40	1.5	<1.0	3.8
JUN											
14...	<1	<1.0	13	<1.0	<1	<1.0	<1.0	<40	2.3	<1.0	3.6
JUL											
26...	<1	<1.0	31	<1.0	<1	1.1	<1.0	<40	3.6	<1.0	5.0
AUG											
09...	<1	<1.0	52	<1.0	<1	<1.0	<1.0	<40	4.0	<1.0	4.1
SEP											
28...	<1	<1.0	41	<1.0	E1	<1.0	<1.0	<30	2.7	<1.0	5.5

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