

## 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 Rt. 203, at South Windham, 0.8 mi downstream from Jordan Brook, and 1.8 mi upstream from Cold Brook.

**DRAINAGE AREA.**--408 mi<sup>2</sup>.

**PERIOD of RECORD.**--Water year 1974 to current year.

**PERIOD of DAILY RECORD.**--

SPECIFIC CONDUCTANCE: August 1980 to September 1992.

WATER TEMPERATURES: 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.

**EXTREMES FOR PERIOD of DAILY RECORD.**--

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

WATER TEMPERATURES: 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 2001 TO SEPTEMBER 2002

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, (PER-CENT SATUR-ATION) (00301)	FECAL COLI-FORM, MFC MF, (COL/100 ML) (31616)	ENTERO-COCCI, MEI MF, (COL/100 ML) (90909)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
OCT	17...	0930	202	123	7.0	13.0	14.0	2.0	9.2	91	216	80	28	7.64
NOV	08...	1450	87	158	7.6	13.0	9.5	1.1	14.1	124	10k	7k	33	9.47
DEC	05...	1240	142	136	7.3	20.0	9.0	1.4	12.4	107	160	47	30	8.09
JAN	09...	1340	142	154	6.8	2.5	1.5	1.4	14.1	102	38	52	33	9.19
MAR	13...	1340	345	121	7.1	11.0	5.5	1.2	13.6	108	368k	95	25	6.69
APR	10...	1030	541	111	7.1	17.0	12.5	1.3	10.9	101	232	107	22	5.73
MAY	15...	1230	3200	80	6.4	15.0	11.5	3.7	10.9	104	1060	460	17	4.29
JUN	20...	1300	550	102	6.7	30.0	20.5	2.0	10.0	110	42	28k	20	5.53
JUL	22...	1200	117	139	7.0	30.5	24.5	2.0	8.5	102	53	14	29	8.12
AUG	19...	1215	45	163	7.1	36.0	27.0	1.7	8.7	110	41	14k	34	9.41
SEP	03...	1015	128	156	6.8	24.5	19.0	2.1	8.7	94	136	93k	32	8.95

Date	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 SI02) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00613)	
OCT	17...	2.11	11.1	2.30	0	24	20	8.7	17.7	E.1	5.30	70	76	E.005
NOV	08...	2.36	15.3	3.15	0	26	21	12.6	23.6	.1	5.32	92	98	<.008
DEC	05...	2.30	12.5	2.46	0	21	18	10.8	19.5	E.1	5.67	80	80	<.008
JAN	09...	2.54	13.7	2.39	0	18	15	13.9	24.6	E.1	9.87	98	102	E.004
MAR	13...	2.02	10.1	1.63	0	16	13	10.8	16.9	<.1	6.76	82	78	.009
APR	10...	1.82	9.64	1.43	0	13	11	9.6	16.9	.1	5.42	62	63	<.008
MAY	15...	1.41	6.93	1.21	0	8	6	7.1	11.4	E.1n	5.96	53	71	<.008
JUN	20...	1.62	8.61	1.32	0	17	14	7.7	14.4	E.1n	7.77	70	68	.011
JUL	22...	2.17	13.3	2.24	0	20	16	10.7	19.1	E.1	5.73	88	88	.058
AUG	19...	2.51	15.6	2.76	0	26	21	10.4	21.0	.2	5.64	95	93	.155
SEP	03...	2.38	14.6	2.91	0	23	19	12.1	20.9	.1	6.34	84	84	.041

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	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)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	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)
OCT 17...	.18	<.04	--	.35	.24	.53	.053	.031	.02	9	.09	8	<.06
NOV 08...	.27	<.04	--	.25	.23	.52	.062	.054	.04	10	.14	8	<.06
DEC 05...	.25	<.04	--	.29	.20	.54	.050	.019	<.02	8	.09	7	<.06
JAN 09...	.64	E.04	--	.26	.23	.89	.077	.068	.05	15	.12	9	<.06
MAR 13...	.29	<.04	--	.30	.22	.59	.019	.007	<.02	23	.06	7	<.06
APR 10...	.20	<.04	--	.31	.20	.51	.032	.018	E.01	1	.08	8	<.06
MAY 15...	.13	<.04	--	.37	.28	.50	.072	.014	<.02	56	<.05	8	<.06
JUN 20...	.30	E.03	--	.36	.33	.67	.036	.020	<.02	34	.08	8	<.06
JUL 22...	.56	.04	.41	.45	.34	1.0	.058	.036	.02	15	.08	8	<.06
AUG 19...	.87	.11	.43	.55	.41	1.4	.060	.038	.02	10	.14	10	<.06
SEP 03...	.59	.09	.27	.36	.32	.95	.061	.041	.03	8	E.04	10	<.06

Date	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)	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)
OCT 17...	<.1	<.04	<.8	E.5	.07	E1.2	.9	280	128	<1	.11	10.2	.2
NOV 08...	<.1	<.04	E.5	<.8	.07	E1.0	.9	230	165	<1	.19	6.8	.3
DEC 05...	<.1	<.04	<.8	<.8	.05	E1.0	.8	290	146	M	.13	8.6	.2
JAN 09...	<.1	<.04	<.8	<.8	.10	1.2	1.1	300	186	<1	.22	25.5	.3
MAR 13...	<.1	<.04	<.8	<.8	.08	E.9	.8	240	131	<1	.12	24.3	.3
APR 10...	--	<.04	--	<.8	.09	--	.8	--	125	--	.13	21.9	E.2
MAY 15...	<.1	<.04	E.6	<.8	.10	E1.2	.9	510	171	M	.20	20.6	E.1
JUN 20...	<.1	<.04	11.5	<.8	.09	1.3	1.0	510	282	1	.25	15.8	.3
JUL 22...	<.1	<.04	<.8	<.8	.07	1.9	1.1	460	182	<1	.19	14.9	1.4
AUG 19...	<.1	<.04	<.8	.8	.12	E.7	1.2	270	159	<1	.12	32.0	.6
SEP 03...	<.1	<.04	<.8	<.8	.08	1.5	1.0	370	130	1	.19	14.6	.6

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## 01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	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 17...	<2.0	.47	<1	<20	2	E.01	5.0
NOV 08...	<2.0	.47	<1	<20	3	.04	4.1
DEC 05...	<2.0	.25	<1	<20	2	.02	3.4
JAN 09...	<2.0	.60	<1	<20	5	.03	4.1
MAR 13...	<2.0	.39	<1	<20	3	.03	4.3
APR 10...	--	.42	<1	--	2	.03	3.8
MAY 15...	<2.0	.69	<1	<20	3	.04	7.6
JUN 20...	6.4	.69	<1	<20	4	.04	5.4
JUL 22...	<2.0	.81	<1	E30	2	.02	4.7
AUG 19...	<2.0	.74	<1	<20	3	.02	4.3
SEP 03...	<2.0	.49	<1	<20	2	.02	3.9

Value qualifier codes used in this report:

k -- Counts outside acceptable range

n -- Below the NDV

## Science Challenge

What percentage of the world's water is held in its oceans?  
Which of the Earth's oceans is the largest?

Find more earth science information on our website at <http://www.usgs.gov>

Approximately 97 percent of the earth's total water supply is contained in the oceans. The Pacific Ocean is the largest ocean at 64,186,000 square miles. It is more than two times the size of the Atlantic Ocean. It has an average depth of 12,925 feet, and the greatest known depth is 36,198 feet at the Mariana Trench.