

THAMES RIVER BASIN
01119375 WILLIMANTIC RIVER AT MERROW, CT

LOCATION.--Lat 41°50'07", long 72°18'38", Tolland County, Hydrologic Unit 01100002, at bridge on State Highway 195, 0.7 mi upstream from Merrow, 0.8 mi downstream from Newcomb Brook, and 1.5 mi upstream from Winding Brook.

DRAINAGE AREA.--94.0 mi².

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

REMARKS.--Discharges shown for this location are computed by determining the discharge for station 01119384, 2.0 mi downstream, and adjusting its discharge by multiplying by a factor of 0.98, which is the ratio of the two stations' drainage areas.

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 (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)	
NOV	20...	1550	61	123	7.1	12.5	7.0	5.0	12.1	102	290	56
JAN	11...	1115	E511	129	6.6	-5.0	.0	2.0	14.5	100	210	80
MAR	02...	1430	314	72	6.5	5.0	3.0	1.6	14.0	106	47	K16
MAY	20...	1315	367	86	7.1	21.5	17.5	6.6	9.3	99	3000	660
JUN	21...	1200	24	149	7.6	19.5	18.0	1.5	9.3	99	25	K19
JUL	28...	1345	18	192	7.8	30.0	26.5	5.6	8.4	108	110	38
AUG	10...	1000	15	251	7.7	22.0	18.0	.89	8.7	94	92	168
SEP	29...	1130	41	136	6.9	21.0	17.0	4.6	9.9	103	170	60

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	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 MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT MG/L AS HCO3 (00453)	ALKA- LILITY 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)	
NOV	20...	24	5.9	2.2	12	2.4	0	12	10	13	16	<.10
JAN	11...	17	4.3	1.6	15	1.4	0	9	7	8.1	24	<.10
MAR	02...	12	2.8	1.2	6.8	.93	0	4	3	7.3	11	<.10
MAY	20...	17	4.1	1.6	8.5	1.3	0	11	9	8.4	12	<.10
JUN	21...	37	11	2.4	17	1.6	0	16	13	15	22	<.10
JUL	28...	31	7.9	2.6	23	4.3	0	22	18	23	28	.30
AUG	10...	36	9.3	3.2	31	4.3	0	23	19	30	31	.12
SEP	29...	24	6.1	2.1	13	2.3	0	11	9	19	16	<.10

THAMES RIVER BASIN
01119375 WILLIMANTIC RIVER AT MERROW, CT--Continued

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

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	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. TOTAL (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
NOV 20...	8.0	84	89	.013	.403	.068	.21	.28	.24	.68
JAN 11...	8.5	81	84	<.010	.346	.111	1.8	1.9	.32	2.3
MAR 02...	6.9	50	52	.017	.203	.038	.19	.23	.17	.43
MAY 20...	6.5	56	79	<.010	.183	.034	.54	.58	.27	.76
JUN 21...	4.3	97	100	<.010	.829	<.020	--	.37	.28	1.2
JUL 28...	2.9	115	117	<.010	.533	<.020	--	.59	.30	1.1
AUG 10...	2.2	134	144	<.010	1.19	<.020	--	.39	.36	1.6
SEP 29...	6.2	83	84	<.010	.405	<.020	--	.44	.29	.85

DATE	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)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	BARIIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
NOV 20...	<.050	<.050	<.010	20	<1.0	10	<1.0	<1.0	<1.0	<1.0
JAN 11...	.021	.009	<.010	48	<1.0	11	<1.0	<1.0	<1.0	<1.0
MAR 02...	.020	.005	<.010	47	<1.0	7.2	<1.0	<1.0	<1.0	<1.0
MAY 20...	.100	.017	.016	20	<1.0	9.0	<1.0	<1.0	<1.0	<1.0
JUN 21...	.022	.010	<.010	18	<1.0	9.4	<1.0	<1.0	<1.0	<1.0
JUL 28...	.061	.010	<.010	18	<1.0	7.9	<1.0	<1.0	<1.0	<1.0
AUG 10...	.016	.010	<.010	7.5	<1.0	11	<1.0	<1.0	<1.0	<1.0
SEP 29...	.018	.006	<.010	13	<1.0	11	<1.0	<1.0	<.80	<1.0

DATE	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	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, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	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)
NOV 20...	1.7	190	<1.0	11	<1.0	1.6	<1.0	4.7	<1.0	4.8
JAN 11...	1.6	140	<1.0	36	<1.0	1.5	<1.0	8.2	<1.0	5.2
MAR 02...	<1.0	70	<1.0	27	<1.0	<1.0	<1.0	3.9	<1.0	4.2
MAY 20...	1.2	160	<1.0	39	<1.0	1.5	<1.0	2.9	<1.0	8.1
JUN 21...	3.7	240	<1.0	14	<1.0	1.9	<1.0	7.4	<1.0	4.0
JUL 28...	2.7	120	<1.0	20	<1.0	2.1	<1.0	4.5	<1.0	4.1
AUG 10...	2.3	68	<1.0	16	<1.0	2.2	<1.0	2.2	<1.0	3.5
SEP 29...	4.4	80	<1.0	12	<1.0	1.6	<1.0	5.8	<1.0	4.8