

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT

LOCATION.--Lat 41°32'30", long 72°33'13", Middlesex County, Hydrologic Unit 01080205, on pier of United Technologies Corporation (formerly Connecticut Advanced Nuclear Engineering Laboratory, CANEL), 0.8 mi south of Middle Haddam, 7.6 mi upstream from Salmon River, and 6.1 mi south of Middletown.

DRAINAGE AREA.--10,897 mi² rev.

PERIOD of RECORD.--Water year 1967 to current year.

PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1967 to September 1970, October 1973 to June 1976, June 1978 to September 2002 (discontinued).

pH: October 1967 to September 1970, October 1973 to June 1976, June 1978 to September 2002 (discontinued).

WATER TEMPERATURES: October 1967 to September 1970, October 1973 to June 1976, June 1978 to September 2002 (discontinued).

DISSOLVED OXYGEN: October 1967 to September 1970, October 1973 to June 1976, June 1978 to September 1997, October 1998 to September 1999.

INSTRUMENTATION.--Water-quality monitor October 1967 to September 2002 (discontinued).

REMARKS.--USGS water-quality monitoring system installed June 1978. Interruptions of the record due to malfunctions of the instrument. The instantaneous record values will not necessarily fall within the corresponding daily range of the continuous records due to the depth and location of the probes used for the monitoring system. Stream tidal affected. Extremes for period of daily record and current year are only for those values reported. Limited daily value data for water year 2002 available upon request.

EXTREMES FOR PERIOD of DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 483 microsiemens Aug. 18, 1975; minimum, 33 microsiemens March 23, 1980.

pH: Maximum, 9.7 units July 3, 1975; minimum, 4.9 units Apr. 23, 1976.

WATER TEMPERATURES: Maximum, 33.0°C July 12, 1970; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 19.2 mg/L Feb. 17, 1980; minimum 0.6 mg/L Aug. 11, 1970.

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

Date	Time	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)	FECAL COLI- FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ENTERO- COCCI, MEI MF, WATER (COL/ 100 ML) (90909)	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)	
OCT	22...	1025	183	7.4	18.5	16.0	3.0	9.1	92	131	1k	49	14.9	2.89
DEC	19...	1130	151	7.3	8.0	6.0	.96	12.5	101	3100	310k	42	13.1	2.14
FEB	20...	1050	152	6.9	9.0	3.5	1.8	13.6	101	220	540	38	11.6	2.13
APR	01...	1100	125	6.6	14.0	7.5	2.2	12.7	106	--	177	32	10.1	1.69
JUN	03...	1000	126	7.2	20.0	20.0	4.8	7.6	84	106k	8k	33	10.1	1.79
AUG	27...	1015	185	6.9	26.0	25.5	2.0	5.6	68	2k	2k	47	15.1	2.24
Date		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 MG/L AS (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)	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)
OCT	22...	15.8	2.45	0	39	32	12.9	24.6	.1	2.65	104	102	.038	.68
DEC	19...	11.3	1.52	0	35	29	10.1	16.7	.1	4.53	92	96	.013	.52
FEB	20...	12.2	1.33	0	31	25	10.1	20.1	E.1n	5.23	86	90	.015	.55
APR	01...	10.0	1.09	0	23	19	8.1	15.4	.1	5.68	77	88	E.005	.34
JUN	03...	8.71	1.22	0	29	24	7.9	14.1	E.1n	5.22	72	78	.010	.37
AUG	27...	13.2	2.10	0	40	33	10.3	19.3	E.1n	3.03	110	91	.015	.45
Date		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)	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)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
OCT	22...	.11	.38	.49	.38	1.2	.151	.128	.10	4	.14	19	<.06	E.03
DEC	19...	.14	.27	.41	.39	.93	.082	.067	.05	8	.10	14	<.06	E.02
FEB	20...	.13	.24	.37	.33	.92	.071	.053	.04	16	.13	14	<.06	E.02
APR	01...	.08	.25	.33	.20	.67	.059	.025	E.01	18	<.05	12	<.06	<.04
JUN	03...	.09	.27	.36	.26	.73	.061	.035	.02	14	E.05	15	<.06	<.04
AUG	27...	E.03	--	.37	.25	.81	.055	.050	.04	11	.09	16	<.06	E.02

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

Date	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	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)
OCT 22...	<.8	.07	2.4	21	.09	3.8	.9	1.00	<1	3	.07	4.1
DEC 19...	<.8	.07	1.6	81	.21	12.7	.5	.65	<1	2	.08	3.4
FEB 20...	<.8	.08	1.4	85	.16	27.6	.4	.59	<1	3	.09	3.3
APR 01...	<.8	.06	1.2	67	.11	18.9	E.1	.42	<1	2	.06	4.4
JUN 03...	<.8	.06	1.6	102	.18	14.1	.3	1.05	<1	1	.06	4.1
AUG 27...	E.7	.07	1.8	27	.14	13.1	.8	.88	<1	4	.08	3.6

Value qualifier codes used in this report:

k -- Counts outside acceptable range

n -- Below the NDV