01109000 WADING RIVER NEAR NORTON, MA
(National Water Quality Assessment Site)

LOCATION.--Lat 41°56′51", long 71°10′38", Bristol County, Hydrologic Unit 01090004, on left bank 200 ft downstream from bridge on State Highway 140, 0.9 mi upstream from confluence with Rumford River, and 1.5 mi southeast of Norton.

DRAINAGE AREA.--43.3 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: June 1925 to current year.
Water-quality records: Water year 1967–68, 1999.

REVISED RECORDS.--WSP 871: 1938. WSP 1301: 1929–33(M). WSP 1621: 1925–58 (monthly runoff). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 55.14 ft above sea level. Prior to Oct. 1, 1930, nonrecording gage at same site at datum 0.62 ft higher and Oct. 1, 1930, to May 5, 1933, at same site at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated to some extent by Lake Mirimichi and other lakes and reservoirs upstream. Diversion upstream for municipal supply of Attleboro and small diversions to and from basin for other municipal supplies. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--74 years, 73.7 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,460 ft^3/s, Mar. 19, 1968; maximum gage height, 11.47 ft, Mar. 19, 1968, June 14, 1998; minimum discharge, 0.3 ft^3/s, Sept. 10, 1926.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 460 ft^3/s, Feb. 3, gage height, 8.86 ft; minimum, 1.5 ft^3/s, Aug. 3–5, 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	25	38	36	119	265	107	39	37	3.5	1.9	2.9
2	12	24	35	e28	121	319	101	37	31	3.0	1.8	2.8
3	12	22	33	40	364	247	95	35	27	3.6	1.7	2.7
4	11	20	31	125	391	249	89	37	24	5.4	1.6	2.7
5	9.6	19	28	146	308	250	83	48	21	6.0	4.4	2.7
6	8.8	15	27	122	272	213	79	53	18	5.2	4.2	2.7
7	8.4	14	27	105	234	213	75	50	17	4.5	2.0	3.1
8	8.3	14	26	111	207	194	71	49	15	3.8	2.1	2.9
9	24	14	30	91	182	172	68	59	13	3.2	2.2	2.8
10	62	14	29	112	164	159	67	53	11	2.8	1.7	12
11	92	29	28	101	149	142	65	45	10	2.6	1.7	74
12	106	53	26	82	137	134	63	37	9.0	2.4	1.7	62
13	91	59	25	73	140	130	61	28	8.4	2.5	1.7	25
14	79	49	23	68	135	126	57	27	7.9	2.4	1.7	15
15	79	41	22	109	117	126	55	27	7.5	2.3	4.2	12
16	75	36	22	239	108	133	52	25	7.5	2.3	6.5	57
17	62	35	21	241	105	136	60	23	6.8	2.3	6.6	180
18	53	38	21	212	115	160	67	22	6.6	2.2	5.0	142
19	46	39	21	299	157	148	63	22	6.1	2.8	3.7	85
20	39	37	21	311	153	134	58	30	5.5	3.5	3.1	62
21	34	42	21	250	134	121	55	37	5.0	3.1	3.0	46
22	31	43	22	215	116	124	53	32	4.7	2.5	3.0	36
23	28	37	22	196	e94	136	54	28	4.2	2.5	3.0	31
24	25	34	21	204	95	131	62	66	3.7	2.5	2.9	29
25	23	31	20	293	89	140	61	124	3.1	2.5	2.9	26
26	21	32	19	264	84	135	55	112	2.8	2.5	3.5	22
27	20	46	17	221	93	125	51	89	2.7	2.4	3.6	20
28	21	52	17	197	99	130	48	74	2.5	2.2	3.6	17
29	23	47	19	175	---	146	45	65	2.5	2.0	3.4	16
30	24	42	35	151	---	131	42	54	2.5	1.9	2.9	18
31	24	---	40	130	---	115	---	45	---	1.9	2.9	---
TOTAL	1164.1	1003	787	4947	4482	5084	1962	1472	323.0	92.3	94.2	1012.3
MEAN	37.6	33.4	25.4	160	160	164	65.4	47.5	10.8	2.98	3.04	33.7
MAX	106	59	40	311	391	319	107	124	37	6.0	6.6	180
MIN	8.3	14	17	28	84	115	42	22	2.5	1.9	1.6	2.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1999, BY WATER YEAR (WY)

MEAN	30.5	60.5	91.3	102	108	155	136	82.7	53.0	24.9	21.6	21.0
MAX	143	210	257	353	232	354	323	227	284	225	175	106
(WY)	1956	1956	1946	1979	1970	1936	1987	1954	1998	1938	1955	1954
MIN	3.11	5.21	10.4	13.7	26.1	65.6	35.0	28.6	9.79	2.98	1.91	1.76
(WY)	1958	1958	1966	1981	1980	1985	1985	1965	1957	1999	1993	1930

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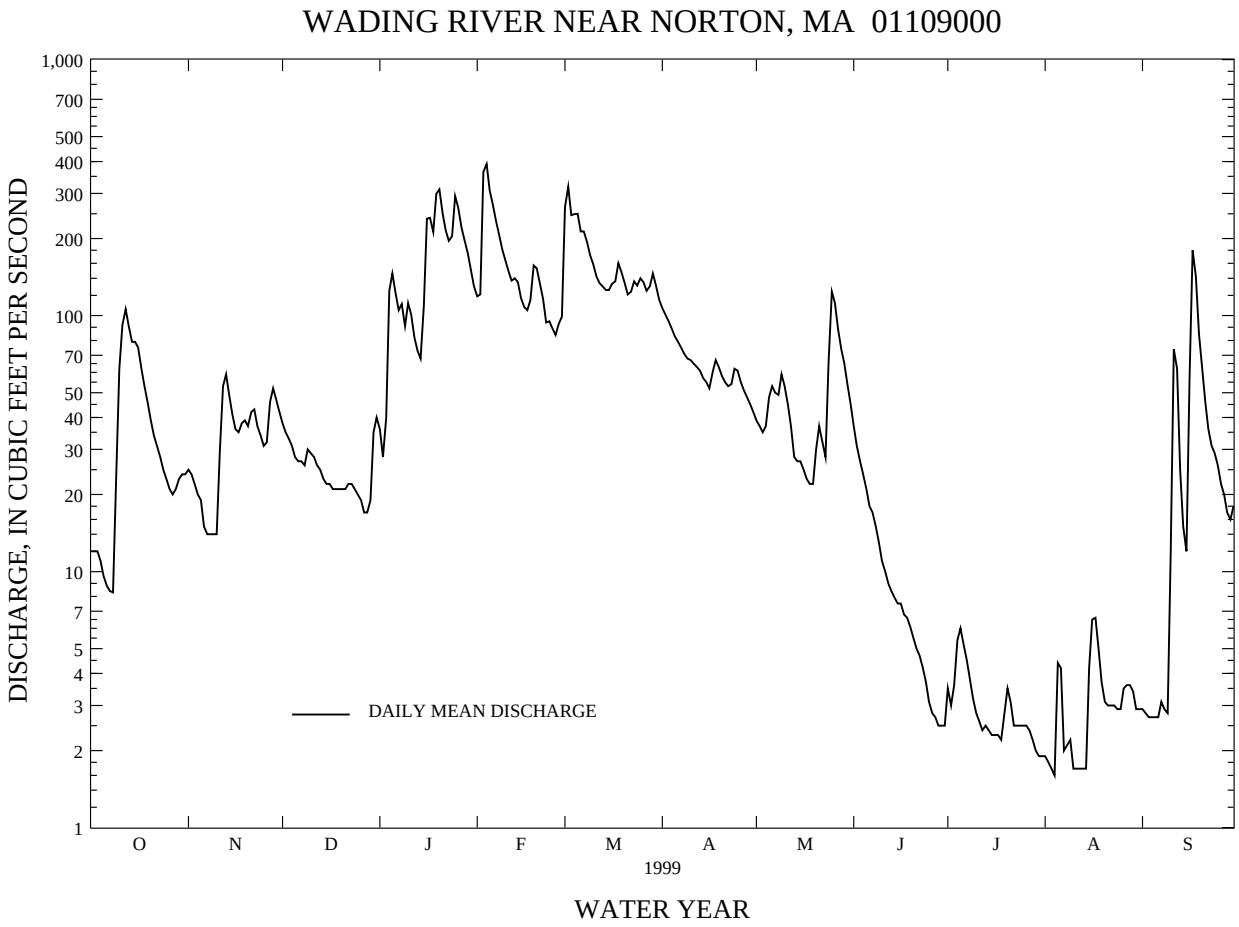
SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1925 - 1999	
ANNUAL TOTAL	44671.8		22422.9			
ANNUAL MEAN	122		61.4		73.7	
HIGHEST ANNUAL MEAN					123	1984
LOWEST ANNUAL MEAN					28.8	1966
HIGHEST DAILY MEAN	1110	Jun 15	391	Feb 4	1280	Mar 19 1968
LOWEST DAILY MEAN	8.0	Aug 16	1.6	Aug 4	.30	Sep 10 1926
ANNUAL SEVEN-DAY MINIMUM	9.5	Aug 10	1.8	Jul 29	.62	Aug 30 1993
INSTANTANEOUS PEAK FLOW			460	Feb 3	1460	Mar 19 1968
INSTANTANEOUS PEAK STAGE			8.86	Feb 3	11.47	Mar 19 1968
INSTANTANEOUS LOW FLOW			1.5	Aug 3	.30	Sep 10 1926
10 PERCENT EXCEEDS	287		152		169	
50 PERCENT EXCEEDS	59		34		51	
90 PERCENT EXCEEDS	14		2.7		6.8	

e Estimated



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967–68, 1999.

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 LAB (STAND-ARD UNITS) (00403)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT									
20...	0940	39	181	6.9	11.8	12.9	8.3	8.0	37
NOV									
19...	0950	39	184	7.6	5.2	5.0	10.8	8.3	35
DEC									
10...	0810	30	184	7.0	.1	5.0	10.9	8.3	36
JAN									
07...	1005	106	170	6.7	4.5	.1	13.5	7.1	37
FEB									
10...	1020	165	165	6.7	9.1	3.5	13.8	5.8	33
MAR									
03...	0900	251	160	6.8	5.3	3.0	12.5	5.2	34
APR									
16...	1045	52	203	7.0	12.0	10.9	10.2	8.0	44
MAY									
03...	0910	35	211	7.1	12.9	14.1	8.5	8.8	44
JUN									
10...	0950	11	245	7.2	19.3	19.3	6.7	10	53
JUL									
05...	0745	6.1	238	7.3	27.8	24.5	4.5	10	46
AUG									
10...	1030	1.8	235	7.0	20.6	19.0	5.5	10	48
16...	0945	6.4	220	7.1	22.3	19.5	5.5	9.4	42
SEP									
09...	1045	2.7	290	6.9	27.2	23.5	5.5	11	64
17...	0830	177	197	6.8	15.7	19.1	7.2	9.9	31

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DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT										
20...	<0.10	390	1.9	56	1.9	125	9.0	24	9.3	0.034
NOV										
19...	<.10	280	2.0	42	1.8	126	9.5	21	13	.034
DEC										
10...	<.10	280	2.0	58	1.7	125	8.2	21	11	.047
JAN										
07...	<.10	180	1.8	100	1.7	109	7.2	22	9.5	.043
FEB										
10...	<.10	120	1.4	27	.90	102	6.5	21	9.6	.026
MAR										
03...	<.10	110	1.2	30	1.0	100	5.0	20	7.7	.023
APR										
16...	<.10	190	1.9	62	1.6	124	2.5	26	8.8	<.020
MAY										
03...	<.10	380	2.1	122	1.5	106	2.4	27	9.0	.051
JUN										
10...	<.10	480	2.2	105	1.5	154	4.6	30	7.7	.064
JUL										
05...	.12	270	2.3	170	2.0	159	4.5	27	8.2	.062
AUG										
10...	.14	240	2.4	174	2.3	121	2.1	29	8.2	<.020
16...	.10	400	2.1	129	2.3	128	2.4	26	9.0	.042
SEP										
09...	<.10	91	2.7	126	2.4	158	1.3	36	13	.027
17...	<.10	170	2.2	191	2.0	127	7.2	22	31	.025

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
20...	0.51	0.56	<0.010	0.011	0.024	0.013	14	0.20	7	52
NOV										
19...	.35	.46	.010	.019	.010	.011	9.5	.30	9	53
DEC										
10...	.31	.41	<.010	<.050	.018	.014	8.1	--	3	83
JAN										
07...	.29	.38	<.010	.011	.023	<.010	7.7	.20	2	78
FEB										
10...	.21	.26	<.010	.006	.009	<.010	5.6	<.20	1	75
MAR										
03...	.19	.27	.019	.004	.013	<.010	5.9	<.20	4	60
APR										
16...	.27	.38	<.010	.007	.017	.012	6.1	.20	1	83
MAY										
03...	.34	.44	<.010	.012	.020	.016	7.0	--	2	67
JUN										
10...	.41	.40	<.010	.023	.038	.023	7.1	.30	6	65
JUL										
05...	.50	.49	<.010	.020	.091	.017	7.0	.40	8	56
AUG										
10...	.27	.38	<.010	.029	.015	<.010	5.7	.30	3	70
16...	.34	.52	<.010	.023	.044	.011	5.8	.30	2	71
SEP										
09...	.31	.38	<.010	.008	.023	<.010	4.9	<.20	6	65
17...	.43	.66	<.010	.020	.060	<.010	8.2	1.1	13	76