01116000 SOUTH BRANCH PAWTUXET RIVER AT WASHINGTON, RI

MASSACHUSETTS-RHODE ISLAND COASTAL BASIN
PAWTUXET RIVER SUBBASIN

LOCATION.--Lat 41°41′24″, long 71°33′59″ referenced to North American Datum of 1927, Kent County, Hydrologic Unit 01090004, on right bank, 150 ft downstream from South Main Street at Washington, and 0.9 mi upstream from outlet of Tiogue Lake.

DRAINAGE AREA.--62.8 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Discharge: October 1940 to current year. Water-quality records: Water years 1955-1956, 1963.

REVISED RECORDS.--WDR-MA-RI-03-1: Drainage area; WDR-MA-RI-1995-1, annual peak discharge and gage height.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 217.76 ft above National Geodetic Vertical Datum of 1929.

COOPERATION.--Rhode Island Water Resources Board.

REMARKS.--Records good except those for estimated daily discharge, which are poor. Flow regulated by Flat River Reservoir 2.3 mi upstream, usable capacity, 250,000,000 ft^3, and other smaller reservoirs. Prior to May 1972, diversion from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick.

REVISIONS.--The annual peak discharge for water year 1995 is revised with the following value that supersedes that peak discharge value published in the 1995 Annual Water Data Report:

Water Year 1995, Jan. 7, 1995, revised annual peak discharge, 245 cfs.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01116000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01116000.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	35	45	56	97	75	333	142	178	101	53	46	37
2	39	45	64	61	82	327	169	162	99	52	37	35
3	53	45	56	60	80	318	158	149	88	56	34	34
4	68	52	57	56	69	308	114	146	78	48	35	40
5	70	61	85	53	69	304	131	154	71	33	37	40
6	87	55	87	57	83	303	136	147	68	37	37	57
7	84	51	87	78	78	334	126	138	66	51	64	97
8	75	57	86	80	e80	334	118	134	63	60	54	257
9	72	66	84	82	e100	323	112	127	66	131	47	431
10	72	58	82	82	109	314	108	119	85	133	52	336
11	69	53	82	95	e148	320	104	114	85	113	44	234
12	69	51	109	153	146	318	103	111	174	92	43	183
13	69	58	216	154	145	290	154	109	252	74	38	155
14	67	72	220	150	146	77	261	109	205	65	37	137
15	83	72	214	148	145	61	240	109	159	54	98	127
16	74	72	206	146	136	74	190	116	132	47	240	121
17	70	99	203	138	102	107	318	126	115	44	264	108
18	68	89	204	99	105	103	422	172	112	43	187	99
19	67	97	219	104	110	101	354	228	105	40	141	92
20	67	101	217	101	113	100	287	253	94	46	112	90
21	67	126	212	101	144	94	219	225	84	41	91	88
22	67	127	208	e100	143	96	139	189	78	44	83	89
23	67	125	205	e100	146	93	170	162	86	43	71	96
24	67	125	202	e120	160	93	219	171	109	44	80	145
25	59	125	198	118	192	93	219	176	111	45	196	186
26	56	125	190	118	203	92	199	159	105	45	201	170
27	41	124	170	118	236	95	186	144	93	44	199	144
28	38	122	e158	117	330	104	190	130	82	43	200	126
29	46	98	105	114	---	107	211	119	73	43	77	141
30	47	51	101	114	---	109	202	111	62	43	45	186
31	46	---	101	99	---	110	---	104	---	41	40	---
Total	1,959	2,447	4,484	3,213	3,675	5,835	5,701	4,591	3,101	1,748	2,930	4,081
Mean	63.2	81.6	145	104	131	188	190	148	103	56.4	94.5	136
Max	87	127	220	154	330	334	422	253	252	133	264	431
Min	35	45	56	53	69	61	103	104	62	33	34	34
Cfsm	1.01	1.30	2.30	1.65	2.09	3.00	3.03	2.36	1.65	0.90	1.51	2.17
In.	1.16	1.45	2.66	1.90	2.18	3.46	3.38	2.72	1.84	1.04	1.74	2.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	77.2	109	164	173	178	228	217	150	114	65.6	61.8	64.9
Max	286	354	422	489	327	730	595	294	444	236	168	240
(WY)	(2006)	(1956)	(1987)	(1979)	(1970)	(2010)	(1983)	(1948)	(1982)	(2009)	(1979)	(1954)
Min	28.5	28.7	34.5	35.9	45.7	69.2	68.2	55.6	39.2	26.8	13.7	25.5
(WY)	(1942)	(1966)	(1966)	(1966)	(1966)	(2002)	(1966)	(1992)	(1957)	(1995)	(2002)	(1995)

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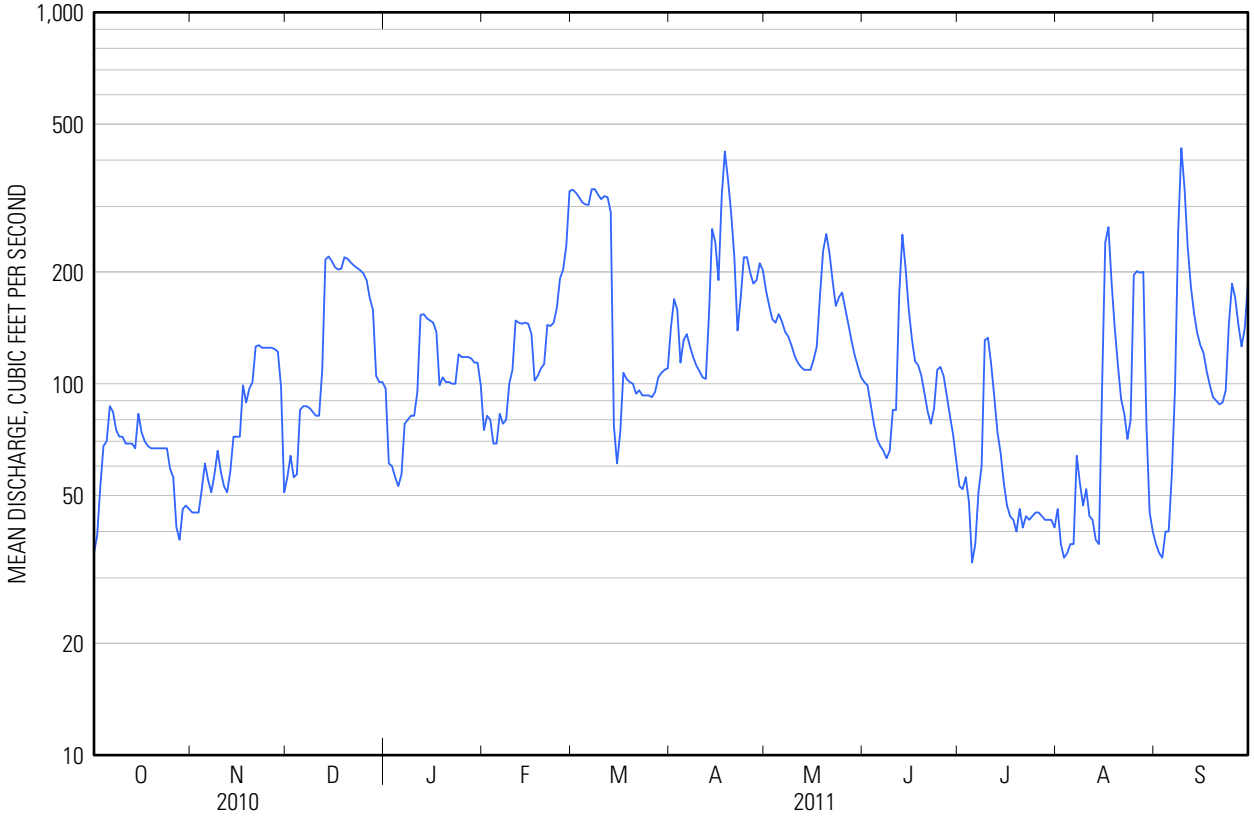
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1941 - 2011	
Annual total	64,096		43,765			
Annual mean	176		120		133	
Highest annual mean					202	1973
Lowest annual mean					56.9	1966
Highest daily mean	4,830	Mar 31	431	Sep 9	4,830	Mar 31, 2010
Lowest daily mean	24	Aug 15	33	Jul 5	2.8	Aug 27, 1944
Annual seven-day minimum	25	Aug 15	38	Jul 31	9.3	Jun 23, 1980
Maximum peak flow			449	Sep 9	5,490	Mar 31, 2010
Maximum peak stage			2.81	Sep 9	9.25	Mar 31, 2010
Instantaneous low flow			32	Jul 5		
Annual runoff (cfsm)	2.80		1.91		2.12	
Annual runoff (inches)	37.97		25.92		28.84	
10 percent exceeds	319		218		263	
50 percent exceeds	88		101		102	
90 percent exceeds	31		45		31