



Water-Data Report 2009

01410000 OSWEGO RIVER AT HARRISVILLE, NJ

MULLICA RIVER BASIN

LOCATION.--Lat 39°39'48", long 74°31'25" referenced to North American Datum of 1983, Washington Township, Burlington County, NJ, Hydrologic Unit 02040301, on right bank 50 ft downstream from bridge on County Route 679 at Harrisville, and 0.3 mi upstream from confluence with West Branch Wading River.

DRAINAGE AREA.--72.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to October 1955, published as "East Branch Wading River at Harrisville".

REVISED RECORDS.--WDR NJ-83-1: Drainage area.

GAGE.--Water-stage recorder. Concrete control since June 23, 1939. Datum of gage is 4.62 ft above NGVD of 1929.

REMARKS.--Records good, except for estimated daily discharges, which are fair. Figures given herein represent flow over main spillway and through bypass channel. Flow regulated by Harrisville Pond, 200 ft above station (capacity about 30,000,000 gal) and by ponds and cranberry bogs 5 to 10 mi upstream. Flow probably reduced by ground-water outflow to nearby surface drainage basins, such as Oyster Creek. Several measurements of water temperature were made during the year. Satellite telemetry at station.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
 [e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	49	40	90	83	96	66	69	74	51	60	42	54
2	44	38	76	79	94	e75	89	72	48	60	56	52
3	41	36	55	77	93	77	114	75	46	56	70	49
4	42	36	46	77	92	74	125	93	49	49	63	47
5	36	38	44	77	87	71	107	100	83	46	50	46
6	41	53	41	78	82	73	96	109	135	45	50	45
7	44	56	41	162	77	83	119	122	126	42	48	45
8	45	57	40	243	79	89	143	131	104	38	43	45
9	52	52	40	248	81	105	152	128	94	35	52	45
10	46	46	44	215	78	111	129	116	93	34	57	44
11	36	41	71	189	78	87	120	104	87	33	50	153
12	32	40	327	164	78	82	128	93	96	45	56	237
13	32	47	394	143	74	64	118	82	128	37	88	241
14	30	60	344	133	71	59	150	72	126	35	71	161
15	29	72	288	121	69	75	190	91	110	33	69	102
16	28	98	239	104	67	75	248	94	91	33	66	84
17	28	92	244	93	66	60	233	89	78	34	56	71
18	28	73	236	87	67	52	186	82	88	33	49	63
19	28	62	214	83	71	50	145	74	99	32	61	57
20	28	55	230	83	67	53	128	68	89	32	73	51
21	28	52	221	80	65	53	147	62	88	35	75	51
22	27	48	207	77	64	50	153	54	89	36	103	66
23	26	45	166	77	65	49	146	49	84	37	117	73
24	27	47	146	77	63	46	131	50	85	45	104	93
25	31	74	151	77	60	45	119	49	87	43	76	63
26	44	75	143	77	60	48	103	49	83	44	70	46
27	44	67	128	76	60	59	88	50	77	41	61	70
28	46	62	111	86	60	67	79	50	73	39	58	76
29	53	54	104	112	---	76	74	59	68	37	59	69
30	48	63	97	112	---	81	72	63	63	39	60	67
31	43	---	91	104	---	73	---	57	---	39	57	---
Total	1,156	1,679	4,669	3,494	2,064	2,128	3,901	2,461	2,618	1,247	2,010	2,366
Mean	37.3	56.0	151	113	73.7	68.6	130	79.4	87.3	40.2	64.8	78.9
Max	53	98	394	248	96	111	248	131	135	60	117	241
Min	26	36	40	76	60	45	69	49	46	32	42	44
Cfsm	0.51	0.77	2.08	1.55	1.02	0.95	1.79	1.09	1.20	0.55	0.89	1.09
In.	0.59	0.86	2.40	1.79	1.06	1.09	2.00	1.26	1.34	0.64	1.03	1.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	62.4	80.3	83.5	100	102	116	112	94.4	71.3	64.3	73.1	61.9
Max	176	234	200	242	210	255	253	261	162	201	207	166
(WY)	(1959)	(1973)	(1973)	(1979)	(1939)	(1998)	(1970)	(1998)	(1998)	(1938)	(1933)	(2006)
Min	28.6	28.6	27.1	31.2	28.8	40.5	41.3	43.1	33.7	24.2	23.9	24.4
(WY)	(1966)	(2002)	(1966)	(2002)	(2002)	(2002)	(1985)	(2002)	(1966)	(1977)	(1957)	(1951)

01410000 OSWEGO RIVER AT HARRISVILLE, NJ—Continued**SUMMARY STATISTICS**

	Calendar Year 2008		Water Year 2009		Water Years 1931 - 2009	
Annual total	27,068		29,793		85.1	
Annual mean	74.0		81.6		138	1978
Highest annual mean					36.7	2002
Lowest annual mean						
Highest daily mean	394	Dec 13	394	Dec 13	1,220	Aug 20, 1939
Lowest daily mean	24	Jul 23	26	Oct 23	4.0	Jun 23, 1967
Annual seven-day minimum	26	Aug 30	27	Oct 18	14	Sep 7, 1966
Maximum peak flow			406	Dec 13	^a 1,390	Aug 20, 1939
Maximum peak stage			4.59	Dec 13	^b 9.54	Aug 20, 1939
Instantaneous low flow			24	Oct 23	^c 0.00	Oct 26, 1932
Annual runoff (cfsm)	1.02		1.13		1.17	
Annual runoff (inches)	13.89		15.29		15.95	
10 percent exceeds	126		143		147	
50 percent exceeds	60		70		70	
90 percent exceeds	31		39		36	

^a From rating curve extended above 840 ft³/s by logarithmic plotting.

^b From high-water mark in gage house.

^c While pond filling.

