



Water-Data Report 2011

01406050 DEEP RUN AT OLD BRIDGE, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°24'54", long 74°20'56" referenced to North American Datum of 1983, Old Bridge Township, Middlesex County, NJ, Hydrologic Unit 02030105, on right end of dam for Deep Run Reservoir, 800 ft upstream of Waterworks Road, 0.9 mi east of Old Bridge, 1.2 mi upstream of mouth, and 3.2 mi south of Sayreville.

DRAINAGE AREA.--16.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water year 2000. Continuous-record gaging station, water years 2001 to current year.

REVISED RECORDS.--WDR NJ-03-1: Drainage area.

GAGE.--Water-stage and precipitation recorder and concrete dam. Datum of gage is 1.3 ft above NAVD of 1988 (levels from New Jersey Geological Survey benchmark).

REMARKS.--Records fair. Records given herein represent flow over spillway, flow through sluice gates and leakage. Dam construction for Deep Run Reservoir was completed in 1988. Water diverted for municipal supply by City of Perth Amboy from nearby wells. 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 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	112	2.5	28	8.8	12	43	24	16	7.7	2.3	2.2	28
2	85	2.5	76	21	44	27	28	15	13	1.9	1.2	22
3	22	2.5	24	38	96	22	20	14	8.5	5.9	0.58	19
4	12	11	15	21	40	18	17	26	6.1	12	4.8	16
5	13	25	11	15	29	17	20	43	5.5	5.9	3.6	14
6	11	12	8.7	12	53	32	22	23	5.2	3.2	0.92	33
7	7.4	7.3	7.3	11	56	232	17	18	4.7	3.9	0.40	125
8	5.4	5.9	6.3	9.1	72	94	16	15	4.1	19	0.40	220
9	4.1	5.2	5.6	8.8	55	43	41	13	3.8	80	12	130
10	3.2	4.5	4.8	7.3	30	35	26	12	34	18	40	55
11	2.8	4.0	4.9	7.0	22	267	20	11	15	8.2	7.0	34
12	9.9	3.8	32	7.6	19	130	19	10	23	5.0	2.6	28
13	10	3.8	82	7.7	17	60	86	9.7	17	3.7	1.6	23
14	5.6	3.8	30	6.8	26	36	55	9.8	8.9	2.5	371	20
15	15	3.8	16	7.2	72	28	29	24	8.4	2.0	515	17
16	8.1	4.2	11	7.8	37	60	31	25	6.4	1.6	95	15
17	4.8	15	9.1	7.7	42	63	373	23	8.6	1.3	40	13
18	3.6	14	7.7	23	89	34	123	67	7.7	0.82	23	12
19	4.6	7.5	7.2	91	93	27	59	68	5.1	0.40	90	11
20	6.5	5.7	6.7	69	46	21	37	32	3.0	0.40	58	11
21	4.4	4.8	6.2	37	29	26	29	48	2.5	0.40	35	11
22	3.4	4.3	6.3	22	24	34	23	24	3.1	0.40	321	12
23	2.8	4.2	6.0	17	19	41	43	21	21	0.40	76	53
24	2.6	3.8	5.5	16	18	110	59	20	34	0.40	32	158
25	2.5	3.8	5.3	14	87	70	64	15	28	0.40	26	57
26	2.6	5.1	5.4	13	144	38	38	12	12	0.67	27	30
27	3.0	5.3	4.3	12	58	27	27	10	6.4	0.52	37	23
28	3.7	4.2	7.0	14	52	22	25	8.7	4.6	0.40	2,120	20
29	3.6	3.6	7.7	14	---	19	26	7.8	3.7	2.4	252	21
30	2.9	3.7	7.5	13	---	18	19	11	2.9	29	82	21
31	2.6	---	7.5	12	---	17	---	12	---	6.5	45	---
Total	380.1	186.8	462.0	570.8	1,381	1,711	1,416	664.0	313.9	219.51	4,322.30	1,252
Mean	12.3	6.23	14.9	18.4	49.3	55.2	47.2	21.4	10.5	7.08	139	41.7
Max	112	25	82	91	144	267	373	68	34	80	2,120	220
Min	2.5	2.5	4.3	6.8	12	17	16	7.8	2.5	0.40	0.40	11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	18.8	24.0	32.6	26.8	30.1	44.6	39.1	21.6	19.4	11.4	20.8	15.4
Max	58.2	62.1	59.5	49.4	49.3	131	93.1	32.7	61.5	22.4	139	41.7
(WY)	(2006)	(2007)	(2010)	(2006)	(2011)	(2010)	(2007)	(2009)	(2003)	(2007)	(2011)	(2011)
Min	0.94	0.73	4.07	7.57	5.55	14.2	11.8	14.6	6.26	0.55	2.40	1.24
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2006)	(2002)	(2001)	(2004)	(2002)	(2010)	(2005)

01406050 DEEP RUN AT OLD BRIDGE, NJ—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 2001 - 2011	
Annual total	9,860.48	12,879.41		
Annual mean	27.0	35.3	25.3	
Highest annual mean			35.3	2011
Lowest annual mean			8.90	2002
Highest daily mean	704	Mar 14	2,120	Aug 28, 2011
Lowest daily mean	0.40	Jul 8	0.40	Many days
Annual seven-day minimum	0.40	Aug 10	0.40	Jul 19
Maximum peak flow			4,000	Aug 28
Maximum peak stage			9.60	Aug 28, 2011
Instantaneous low flow			0.40	Many days
10 percent exceeds	61	68	54	
50 percent exceeds	10	15	13	
90 percent exceeds	0.98	2.9	2.0	

^a Estimated leakage when sluice gate is closed and reservoir was below spillway crest.

