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Water-Data Report 2010

**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 mi<sup>2</sup>.

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

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	6.7	24	15	32	14	53	128	23	82	1.4	2.0	0.40
<b>2</b>	4.9	18	13	33	14	73	80	20	26	1.2	5.8	0.40
<b>3</b>	4.8	15	84	22	15	80	59	29	15	1.3	3.2	0.40
<b>4</b>	7.9	13	50	18	15	79	47	30	11	1.2	2.1	0.40
<b>5</b>	4.8	11	32	16	14	74	38	20	8.8	1.0	1.8	0.40
<b>6</b>	3.5	11	69	16	15	61	32	16	6.9	0.78	1.5	0.40
<b>7</b>	3.0	10	36	15	15	50	30	14	5.6	0.53	1.3	0.40
<b>8</b>	2.8	9.5	25	16	15	44	27	12	5.0	0.40	0.93	0.40
<b>9</b>	2.4	9.1	135	14	14	37	34	11	5.9	3.0	0.54	0.40
<b>10</b>	2.1	8.9	162	12	16	30	30	10	35	3.8	0.40	0.40
<b>11</b>	1.9	8.6	42	12	17	27	25	9.9	17	1.2	0.40	0.40
<b>12</b>	1.7	8.8	26	12	20	28	23	27	10	0.43	0.40	0.40
<b>13</b>	1.7	12	35	12	18	379	22	24	7.9	15	0.40	0.40
<b>14</b>	1.7	50	96	12	17	704	21	17	7.3	92	0.40	0.40
<b>15</b>	3.1	35	41	12	17	263	20	14	6.5	197	0.40	0.40
<b>16</b>	18	22	28	13	19	174	20	12	5.3	43	0.40	0.40
<b>17</b>	9.6	17	22	19	18	91	22	10	4.7	17	2.2	10
<b>18</b>	8.0	13	19	72	17	64	20	22	4.3	9.8	4.6	5.4
<b>19</b>	9.9	12	17	38	20	51	19	62	4.0	10	2.3	2.3
<b>20</b>	5.9	27	16	27	28	44	17	27	3.6	8.1	1.7	1.6
<b>21</b>	4.3	25	19	21	32	41	17	17	3.4	5.3	1.1	0.99
<b>22</b>	3.6	17	19	18	32	48	37	13	3.3	4.3	1.1	0.47
<b>23</b>	3.0	14	18	16	79	160	24	17	3.2	3.5	3.6	0.40
<b>24</b>	9.2	13	16	15	288	91	19	17	2.7	3.0	6.1	0.40
<b>25</b>	54	12	17	64	162	55	50	15	2.3	3.5	12	0.40
<b>26</b>	22	12	137	149	106	52	129	12	2.2	8.5	9.0	0.40
<b>27</b>	26	12	452	48	69	41	170	9.7	2.1	4.2	3.2	0.97
<b>28</b>	102	11	103	29	53	37	73	10	2.0	3.1	2.4	7.7
<b>29</b>	88	10	47	23	---	195	39	13	1.8	2.8	1.6	5.7
<b>30</b>	30	11	27	17	---	455	28	13	1.6	3.4	1.0	44
<b>31</b>	21	---	25	16	---	479	---	17	---	2.3	0.54	---
<b>Total</b>	467.5	471.9	1,843	839	1,159	4,060	1,300	563.6	296.4	452.04	74.41	87.13
<b>Mean</b>	15.1	15.7	59.5	27.1	41.4	131	43.3	18.2	9.88	14.6	2.40	2.90
<b>Max</b>	102	50	452	149	288	704	170	62	82	197	12	44
<b>Min</b>	1.7	8.6	13	12	14	27	17	9.7	1.6	0.40	0.40	0.40

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2010, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	19.4	25.7	34.3	27.7	28.2	43.5	38.2	21.6	20.2	11.8	8.91	12.7
<b>Max</b>	58.2	62.1	59.5	49.4	41.4	131	93.1	32.7	61.5	22.4	19.1	36.4
(WY)	(2006)	(2007)	(2010)	(2006)	(2010)	(2010)	(2007)	(2009)	(2003)	(2007)	(2003)	(2006)
<b>Min</b>	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)

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**SUMMARY STATISTICS**

	<b>Calendar Year 2009</b>		<b>Water Year 2010</b>		<b>Water Years 2001 - 2010</b>	
<b>Annual total</b>	8,302.0		11,613.98			
<b>Annual mean</b>	22.7		31.8		24.3	
<b>Highest annual mean</b>					32.8	2003
<b>Lowest annual mean</b>					8.90	2002
<b>Highest daily mean</b>	452	Dec 27	704	Mar 14	827	Apr 16, 2007
<b>Lowest daily mean</b>	1.1	Sep 7	0.40	Many days	0.10	Aug 23, 2002
<b>Annual seven-day minimum</b>	1.6	Sep 4	0.40	Aug 10	0.11	Nov 10, 2001
<b>Maximum peak flow</b>			1,200	Mar 14	1,270	Apr 16, 2007
<b>Maximum peak stage</b>			8.11	Mar 14	8.15	Apr 16, 2007
<b>Instantaneous low flow</b>			0.40	Many days	<sup>a</sup> 0.10	Aug 22, 2002
<b>10 percent exceeds</b>	46		72		52	
<b>50 percent exceeds</b>	13		15		13	
<b>90 percent exceeds</b>	2.5		0.98		1.9	

<sup>a</sup> Estimated leakage when sluice gate is closed and reservoir was below spillway crest.

