Water-Data Report 2011

01377450 WOODCLIFF LAKE AT HILLSDALE, NJ

HACKENSACK RIVER BASIN

LOCATION.--Lat 41°00′46″, long 74°02′57″ referenced to North American Datum of 1983, Hillsdale Borough, Bergen County, NJ, Hydrologic Unit 02030103, at Woodcliff Lake Dam on Pascack Brook, 0.7 mi north of Hillsdale, and 1.5 mi north of Westwood.

DRAINAGE AREA.--19.4 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Lake elevation and contents, water years 1929 to current year. Annual maximum, water years 1998 to current year. Prior to October 2007, month-end elevation and contents provided by United Water New Jersey. Annual minimum, October 2007 to current year.

REVISED RECORDS.--WDR NJ-88-1: Capacity, WDR NJ-99-1: 1998 (elevation, contents).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 0.00 ft above NGVD of 1929 (levels by United Water New Jersey).

COOPERATION.--United Water New Jersey.

REMARKS.--Reservoir is formed by earthfill dam, completed about 1905. The dam was modified in 1984, which increased capacity, 871,000,000 gal, elevation, 95.00 ft at top of Bascule gates. Flow is regulated by two Bascule gates 85-ft long and 6-ft high each and one 24-inch ball valve. Water is released for diversion at New Milford (diversion discontinued May 1990) and Oradell Reservoir at Haworth by United Water New Jersey (see 01378478), for municipal supply. Satellite gage-height telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 973,000,000 gal, Apr 16, 2007, gage height 96.8 ft; minimum contents, 493,000,000 gal, Oct 9, 2007, gage height 87.81 ft.

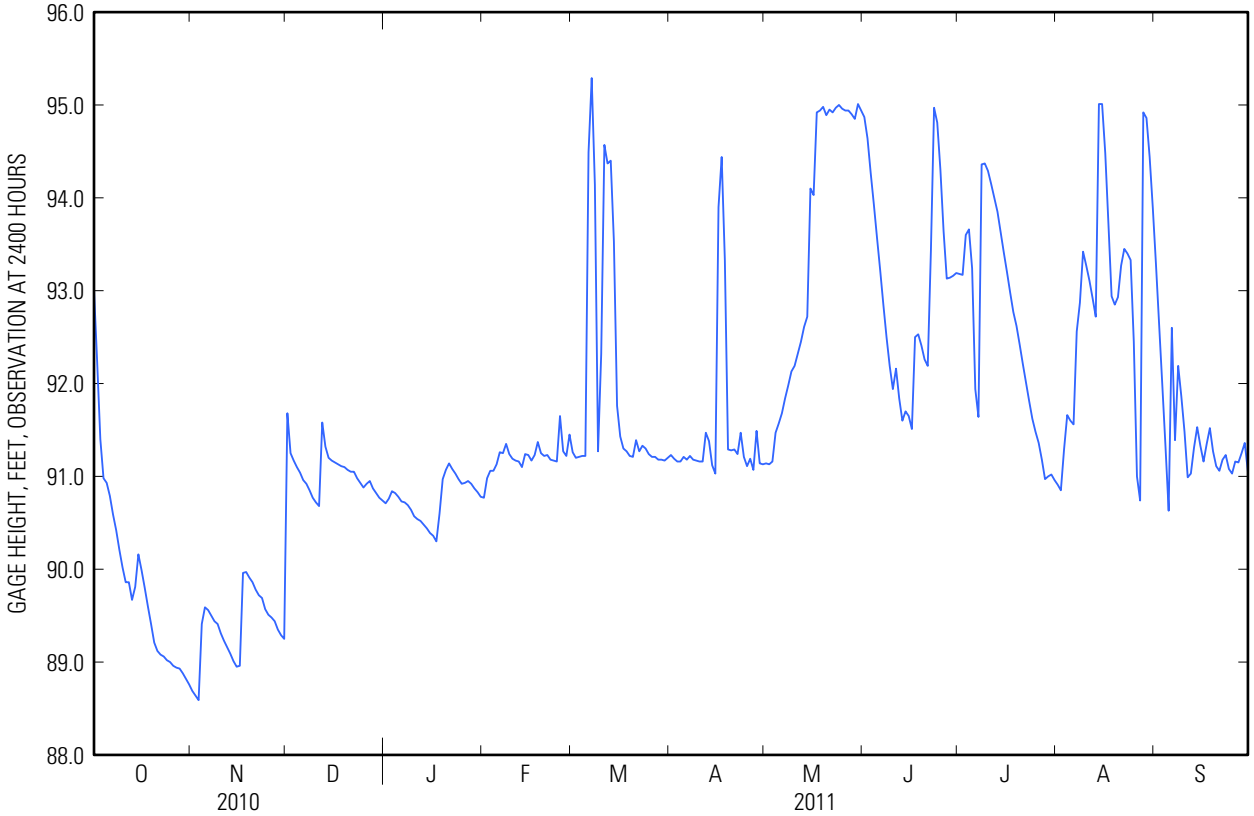
EXTREMES FOR CURRENT YEAR.--Maximum contents 917,000,000 gal, Apr 17, gage height, 95.80 ft; minimum contents 530,000,000 gal, Nov 4, gage height, 88.58 ft.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01377450, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01377450.2011.pdf

01377450 WOODCLIFF LAKE AT HILLSDALE, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	93.01	88.69	91.68	90.71	90.77	91.26	91.23	91.14	94.87	93.18	90.91	93.28
2	92.23	88.64	91.25	90.76	90.98	91.20	91.19	91.13	94.64	93.17	90.85	92.63
3	91.40	88.59	91.17	90.84	91.06	91.21	91.16	91.16	94.27	93.60	91.29	91.98
4	90.98	89.41	91.10	90.82	91.06	91.22	91.16	91.47	93.93	93.66	91.66	91.32
5	90.93	89.59	91.04	90.78	91.13	91.22	91.21	91.57	93.57	93.24	91.60	90.63
6	90.79	89.56	90.96	90.73	91.26	94.49	91.18	91.68	93.22	91.94	91.56	92.60
7	90.59	89.50	90.92	90.72	91.25	95.29	91.22	91.84	92.85	91.64	92.56	91.39
8	90.42	89.44	90.85	90.69	91.35	94.14	91.18	91.98	92.50	94.36	92.87	92.19
9	90.21	89.41	90.77	90.64	91.24	91.27	91.17	92.13	92.19	94.37	93.42	91.86
10	90.02	89.31	90.72	90.57	91.19	92.32	91.16	92.19	91.94	94.29	93.27	91.48
11	89.86	89.23	90.68	90.54	91.17	94.57	91.16	92.32	92.16	94.15	93.11	90.99
12	89.86	89.16	91.58	90.52	91.16	94.37	91.47	92.45	91.84	94.00	92.92	91.03
13	89.67	89.09	91.32	90.48	91.10	94.40	91.38	92.61	91.60	93.85	92.72	91.31
14	89.81	89.01	91.20	90.44	91.24	93.53	91.12	92.72	91.70	93.63	95.01	91.53
15	90.16	88.95	91.17	90.39	91.23	91.76	91.03	94.10	91.65	93.41	95.01	91.33
16	89.99	88.96	91.15	90.36	91.17	91.43	93.90	94.03	91.51	93.20	94.48	91.16
17	89.80	89.96	91.13	90.30	91.23	91.30	94.44	94.92	92.50	92.98	93.72	91.35
18	89.60	89.97	91.11	90.60	91.37	91.27	93.33	94.94	92.53	92.77	92.94	91.52
19	89.41	89.91	91.10	90.97	91.25	91.22	91.29	94.98	92.41	92.62	92.85	91.27
20	89.21	89.86	91.07	91.07	91.22	91.21	91.28	94.89	92.26	92.42	92.93	91.11
21	89.12	89.78	91.05	91.14	91.23	91.39	91.29	94.95	92.19	92.21	93.27	91.06
22	89.08	89.72	91.05	91.08	91.18	91.27	91.24	94.92	93.43	92.01	93.45	91.18
23	89.06	89.69	90.98	91.03	91.17	91.33	91.47	94.97	94.97	91.81	93.40	91.23
24	89.02	89.57	90.93	90.97	91.16	91.30	91.21	95.00	94.81	91.62	93.33	91.08
25	89.00	89.51	90.88	90.92	91.65	91.24	91.11	94.96	94.30	91.48	92.45	91.03
26	88.96	89.48	90.92	90.93	91.27	91.21	91.19	94.94	93.64	91.36	91.00	91.16
27	88.94	89.44	90.95	90.95	91.22	91.21	91.07	94.94	93.13	91.18	90.74	91.15
28	88.93	89.35	90.87	90.92	91.45	91.18	91.49	94.90	93.14	90.97	94.92	91.25
29	88.88	89.29	90.82	90.87	---	91.18	91.14	94.85	93.16	91.00	94.86	91.36
30	88.82	89.25	90.77	90.83	---	91.17	91.13	95.01	93.19	91.02	94.44	91.05
31	88.76	---	90.74	90.78	---	91.20	---	94.94	---	90.96	93.89	---
Mean	89.89	89.38	91.03	90.75	91.21	92.01	91.49	93.50	93.00	92.65	92.95	91.45
Max	93.01	89.97	91.68	91.14	91.65	95.29	94.44	95.01	94.97	94.37	95.01	93.28
Min	88.76	88.59	90.68	90.30	90.77	91.17	91.03	91.13	91.51	90.96	90.74	90.63
Month-end contents (million gallons)												
	539	563	639	641	677	663	660	868	771	651	809	655
Change in contents (equivalent in ft3/s)												
	-6.3	+1.2	+3.8	+0.1	+2.0	-0.7	-0.2	+10.4	-5.0	-6.0	+7.9	-7.9

	Change in contents, Equivalent in ft^3/s
CALENDAR YEAR 2010	-0.2
WATER YEAR 2011	0

01377450 WOODCLIFF LAKE AT HILLSDALE, NJ—Continued