



Water-Data Report 2013

01363400 ASHOKAN RESERVOIR AT ASHOKAN, NY

Upper Hudson Basin
Middle Hudson Subbasin

LOCATION.--Lat 41°57'01", long 74°12'30" referenced to North American Datum of 1927, Ulster County, NY, Hydrologic Unit 02020006, at gatehouse located at Dividing Weir Dyke, and 1.6 mi south of Shokan.

DRAINAGE AREA.--256 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1913 to current year.

REVISED RECORDS.--WDR NY-72-1: 1968. WDR NY-83-1: (M)(m).

GAGE.--Nonrecording gage read daily at 0800. Datum of gage is NGVD of 1929 (levels by Board of Water Supply, City of New York).

REMARKS.--The reservoir is formed by the masonry Olive Bridge Dam across Esopus Creek and a series of earth embankments between hills. The reservoir is divided into two basins separated by a weir containing a gatehouse. Storage began Sept. 9, 1913. Usable capacity of West basin (01363398) 47,180 mil gal between minimum operating level elevation 495.50 ft and crest of spillway to East basin (01363399), elevation 590.00 ft; dead storage below minimum operating level 2,237 mil gal. Usable capacity of East basin 80,678 mil gal between elevation 500.00 ft and crest of spillway, elevation 587.10 ft; no dead storage. Figures given herein represent total contents for each basin. Reservoir impounds water for diversion (01363401) into Catskill Aqueduct (completed in 1917) for New York City water supply. Any flood spillage enters the Esopus Creek channel below Olive Bridge Dam. Records provided by Department of Environmental Protection, City of New York. Elevation at 0800 hours on last day of month.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, in West basin, 54,541 mil gal, Apr. 3, 2005, elevation, 594.84 ft, in East basin, 89,411 mil gal, Mar. 31, 1951, elevation, 592.23 ft; minimum contents observed, in West basin, 9,098 mil gal, Oct. 24, 1926, elevation, 530.56 ft, in East basin, 8,394 mil gal, Oct. 24, 1926, elevation, 525.91 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, in West basin, 50,879 mil gal, Dec. 22, elevation, 591.38 ft, in East basin, 82,825 mil gal, June 14, elevation, 588.38 ft; minimum contents observed, in West basin, 42,388 mil gal, Sept. 30, elevation, 582.79 ft, in East basin, 50,772 mil gal, Oct. 19, elevation, 567.47 ft.

**MONTH-END ELEVATION AND CONTENTS, AND MONTHLY DIVERSION
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Date	West Basin			East Basin			01363401 Monthly Diversion (in ft ³ /s)
	Elevation (feet) *	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet) *	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	
Sept. 30	583.14	42,713		571.70	56,624		
Oct. 31	590.89	50,360	+382	571.21	55,918	-35.2	450
Nov. 30	590.12	49,544	-42.1	574.86	61,174	+271	301
Dec. 31	589.62	49,039	-25.2	580.75	70,295	+455	520
CAL YR 2012	--	--	+7.20	--	--	-21.6	549
Jan. 31	585.10	44,538	-225	579.55	68,391	-95.0	481
Feb. 28	584.30	43,789	-41.4	582.37	72,910	+250	449
Mar. 31	586.40	45,832	+102	583.20	74,250	+66.9	426
Apr. 30	590.13	49,555	+192	585.70	78,330	+210	461
May 31	590.38	49,820	+13.2	586.95	80,426	+105	689
June 30	590.10	49,523	-15.3	587.18	80,812	+19.9	539
July 31	589.85	49,268	-12.7	584.04	75,605	-260	706
Aug. 31	587.15	46,579	-134	581.67	71,780	-191	658
Sept. 30	582.79	42,388	-216	579.19	67,836	-203	719
WTR YR 2013	--	--	-1.38	--	--	+47.4	534

* Elevation at 0800 hours on last day of month.