

ROANOKE RIVER BASIN

02079490 JOHN H. KERR RESERVOIR NEAR BOYDTON, VA

LOCATION.--Lat 36°35'56", long 78°18'06", Mecklenburg County, Hydrologic Unit 03010102, at John H. Kerr Dam on Roanoke River, 2.7 mi upstream from Allen Creek, 6.7 mi southeast of Boydton, 18 mi upstream from the Virginia-North Carolina State line, and at mile 178.7.

DRAINAGE AREA.--7,780 mi², approximately.

PERIOD OF RECORD.--July 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level.

REMARKS.--Reservoir is formed by concrete dam with earth embankments. Spillway, with crest at elevation 288.0 ft, is equipped with 22 radial gates 32 ft high by 42 ft wide. Storage began in September 1950 during construction; initial filling started June 30, 1952; water in reservoir first reached rule-curve elevation in March 1953. Total capacity at top of gates, elevation, 320 ft, is 2,770,000 acre-ft of which 1,281,400 acre-ft is controlled flood storage between elevations 300 ft, top of power pool, and 320 ft; 316,900 acre-ft is available for power between elevations 293.0 ft, bottom of power pool, and 300 ft; 1,171,700 acre-ft is inactive and dead storage below elevation 293.0 ft. Figures given herein represent total contents. Reservoir is used for flood control, hydroelectric power, low-water regulation for navigation and pollution abatement, release of water for downstream fish spawning, water supply, and recreation.

COOPERATION.--Records were provided by the U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,736,460 acre-ft, Apr. 29, 1987, elevation, 319.61 ft; minimum (after first filling to rule curve), 724,700 acre-ft, Feb. 3, 1956, elevation, 280.23 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,891,060 acre-ft, Apr. 4, elevation, 307.43 ft; minimum, 1,237,970 acre-ft, Sept. 24, 25, elevation, 294.58 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	298.88	1,433,760	-
Oct. 31.....	297.65	1,375,390	-58,370
Nov. 30.....	296.77	1,334,700	-40,690
Dec. 31.....	296.14	1,306,230	-28,470
CAL YR 2000.....			-155,370
Jan. 31.....	297.19	1,353,950	+47,720
Feb. 28.....	298.06	1,394,570	+40,620
Mar. 31.....	305.58	1,785,000	+390,430
Apr. 30.....	300.66	1,521,930	-263,070
May 31.....	303.42	1,666,140	+144,210
June 30.....	301.36	1,557,680	-108,460
July 31.....	298.48	1,414,640	-143,040
Aug. 31.....	296.97	1,343,740	-70,900
Sept. 30.....	294.64	1,240,530	-103,210
WTR YR 2001.....			-193,230

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