

02451950 LEWIS SMITH RESERVOIR NEAR JASPER, AL

Black Warrior-Tombigbee Basin
Sipsey Fork Subbasin

LOCATION.--Lat 33°56'29", long 87°06'21" referenced to North American Datum of 1927, Walker County, AL, Hydrologic Unit 03160110, at forebay of Lewis Smith Dam on Sipsey Fork of Mulberry Fork of Black Warrior River, 1.2 mi. downstream from Ryan Creek, 2.5 mi. upstream from Mill Creek, 2.5 mi. upstream from State Highway 69, 14 mi. northwest of Jasper, and at mile 13.5.

DRAINAGE AREA.--945 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder with remote indicating gages. Datum of gage is NGVD of 1929 (levels by Alabama Power Co.), adjustment unknown.

REMARKS.--Reservoir is formed by an earth and rock-fill dam 300 ft high and 2,200 ft long with fixed crest spillway 956 ft long. Storage began Oct. 3, 1960. Capacity at elevation 522 ft (crest of spillway) is 1,670,700 acre-ft. Storage of 394,000 acre-ft is provided between elevations of 488 ft and 510 ft for power generation. Approximately 281,000 acre-ft of storage for flood control is provided between elevations of 510 ft and 522 ft. Reservoir is used for power development and flood control. Gage-height record and capacity table furnished by the Alabama Power Company.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 1,649,500 acre-ft, Mar. 19, 1973, elevation, 521.17 ft; minimum daily since reservoir was filled to elevation 510.00 ft operating pool (Jan. 6, 1962), 1,008,400 acre-ft, Dec. 2, 1971, elevation, 488.84 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 1,418,700 acre-ft, Jan. 13, elevation, 511.32 ft; minimum daily contents, 1,221,100 acre-ft, Sept. 29, elevation, 501.48 ft.

MONTHEND ELEVATION AND CONTENTS AT MIDNIGHT,
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (cubic feet per second)
Sep 30	503.65	1,262,200	--	--
Oct 31	503.31	1,255,500	-6,700	-109
Nov 30	505.34	1,295,100	+39,600	+666
Dec 31	509.82	1,386,600	+91,500	+1,490
CAL YR 2011	--	--	+165,800	+229
Jan 31	508.63	1,361,600	-25,000	-407
Feb 29	506.09	1,309,900	-51,700	-900
Mar 31	510.03	1,391,100	+81,200	+1,320
Apr 30	509.90	1,388,300	-2,800	-47
May 31	509.81	1,386,400	-1,900	-31
Jun 30	508.77	1,364,600	-21,800	-366
Jul 31	506.73	1,322,800	-41,800	-680
Aug 31	503.82	1,265,500	-57,300	-932
Sep 30	501.68	1,224,800	-40,700	-684
WTR YR 2012	--	--	-37,400	-52