

Sam Rayburn Dam and Sam Rayburn Reservoir

OWNER

The U.S. Government. Operated by the U.S. Army Corps of Engineers, Fort Worth District.

ENGINEER (Design)

U.S. Army Corps of Engineers, Fort Worth District.

LOCATION

On the Angelina River in Jasper County, 10 miles northwest of Jasper.

DRAINAGE AREA

3,449 square miles.

DAM

Type Earthfill
 Length 19,430 ft (includes spillway and dikes)
 Maximum height 120 ft
 Top width 42 ft

SPILLWAY

Crest elevation 176.0 ft above msl
 Length (net) 2,200.0 ft
 Type Broad-crested weir
 Control None

OUTLET WORKS

Type 2 conduits, each 10 by 20 ft by 180 ft long
 Invert elevation 105.0 ft above msl
 Control 2 tractor-type gates, 10 by 20 ft and 1 emergency gate

POWER FEATURES

Number of units 2
 Capacity (total nameplate) 52,000 kw
 Capacity (dependable) 49,000 kw

AUTHORIZATION

Federal: River and Harbor Act, March 2, 1945. Modified by River and Harbor Act, June 30, 1948
 State: Permit No. 2124 (Application No. 2298), October 13, 1964, to Lower Neches River Authority for the appropriation of 820,000 acre-feet of water annually—

Municipal use 50,000 acre-feet
 Industrial use 660,000 acre-feet
 Irrigation 110,000 acre-feet

RESERVOIR DATA (Based on U.S. Army Corps of Engineers data)

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	190.0	—	—
Maximum design water surface	183.0	5,610,000	180,000
Spillway crest	176.0	4,442,400	153,800
Top of flood control pool	173.0	3,997,600	142,700
Top of power pool	164.0	2,898,200	114,500
Top of power-head and sediment storage	149.0	1,452,000	74,040
Maximum tailwater	121.5	—	—
Streambed	70.0	—	—

GENERAL

Construction started September 7, 1956
 Dam completed March 29, 1965
 Impoundment of water began March 29, 1965
 Power generation began July 1, 1966
 Marketing agency for power Southwestern Power Administration
 General contractor Paul Hardeman, Inc., Stanton, California
 Project cost \$63,290,000

