

Bardwell Dam and Bardwell Lake

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.

LOCATION

On Waxahachie Creek in Ellis County, 5 miles south of Ennis.

DRAINAGE AREA

178 square miles.

DAM

Type Earthfill and concrete
 Length 15,400 ft including the spillway
 Maximum height 82 ft
 Top width 20 ft

SPILLWAY

Type Broad-crested weir
 Length 350 ft at the crest
 Crest elevation 439.0 ft above msl
 Control None

OUTLET WORKS

Type 1 conduit
 Size 10 ft diameter
 Control 2 gates, each 5 by 10 ft
 Invert elevation 391.0 ft above msl

AUTHORIZATION

Federal: Flood Control Act of March 31, 1960.
 State: Permit No. 2068 (Application No. 2250) March 18, 1963, to the Trinity River Authority authorizes the storage of 54,900 acre-feet and annual use of 9,600 acre-feet of water. The Authority has purchased the conservation storage space in the reservoir.

RESERVOIR DATA (Based on U.S. Geological Survey map completed in 1962)

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	460.0	—	—
Maximum design water surface	455.9	268,400	9,480
Top of flood control storage space	439.0	140,000	6,040
Top of conservation storage space	421.0	54,900	3,570
Invert of lowest outlet	391.0	1,320	—
Streambed	377.6	0	0
Sediment reserve above	421.0	5,500	—
Sediment reserve below	421.0	12,100	—
Usable conservation storage space	—	42,800	—

GENERAL

Construction started August 28, 1963
 Impoundment of water began November 20, 1965
 Dam completed March 27, 1966
 General contractor M & S Construction Company
 Estimated cost \$11,500,000

