

Waco Dam and Waco 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 the Bosque River in McLennan County, 2 miles west of Waco.

DRAINAGE AREA

1,670 square miles.

DAM

Type Earthfill with concrete spillway
 Length 24,618 ft
 Maximum height 140 ft
 Top width 20 ft

SPILLWAY

Type Ogee
 Length (net) 560.0 ft
 Crest elevation 465.0 ft above msl
 Control 14 tainter gates, each 40 by 35 ft

OUTLET WORKS

Type 1 conduit, 20 ft diameter
 Invert elevation 400.0 ft above msl
 Control 3 gates, each 6 ft 8 in. by 20 ft

AUTHORIZATION

Federal: Flood Control Act, September 3, 1954.
 State: Permit No. 1115 (Application No. 1187) August 15, 1929, to the city of Waco with authority to impound 39,000 acre-feet of water in the old reservoir with annual diversion of 85,000 acre-feet. This amount was reduced to 40,000 acre-feet by order of the State Board of Water Engineers October 13, 1960. Permit No. 1931 (Application No. 2082) June 6, 1957, allows the 39,000 acre-feet to be stored in the new reservoir. Permit No. 1930 (Application No. 2081) March 9, 1960, to the city of Waco changing former allocations to 104,100 acre-feet storage and annual diversion to 59,100 acre-feet. Brazos River Authority has purchased 91,000 acre-feet of storage capacity in the reservoir for \$6,000,000.

RESERVOIR DATA

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	510.0	—	—
Maximum design water surface	505.0	828,300	21,390
Top of flood control storage space	500.0	726,400	19,440
Spillway crest	465.0	233,500	9,220
Top of conservation storage space	455.0	152,500	7,270
Streambed	370.0	—	—
Maximum tailwater	431.6	—	—
Sediment reserve below	455.0	48,400	—
Sediment reserve above	455.0	20,600	—
Usable conservation storage space	—	104,100	—

GENERAL

Construction started June 13, 1958
 Impoundment of water began February 26, 1965
 Dam completed June 24, 1965
 General contractor Earthwork: Clement Bros., Hickory North Carolina
 Spillway: Elmer Gardner
 Repairs: R. G. LaTourneau, Inc.
 Estimated cost \$49,407,000

Difficulty was encountered in construction due to a foundation condition that caused sliding and damage to the embankment. This required a change in plans with additional volume of materials and another contract for completion.

