

### Whitney Dam and Whitney 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 Brazos River in Hill and Bosque Counties, 38 miles upstream from Waco, and 5.5 miles southwest of Whitney.

**DRAINAGE AREA**

17,656 square miles contributing.  
8,950 square miles noncontributing.

**DAM**

Type Concrete gravity and earthfill  
Length 17,695 ft  
Maximum height 159 ft  
Top width Embankment 34 ft and spillway 28 ft

**SPILLWAY**

Type Ogee  
Length (net at crest) 680.0 ft  
Crest elevation 533.0 ft above msl  
Control 17 tainter gates, each 40 by 38 ft

**OUTLET WORKS**

Type 16 conduits, each 5 by 9 ft  
Invert elevation 448.83 ft above msl  
Control Gates operated from tunnel

**POWER GENERATION FEATURES**

Number of units 2  
Total capacity 30,000 kw

**AUTHORIZATION**

Federal: Flood Control Act, August 18, 1941.  
Flood Control Act, December 22, 1944.  
Civil Functions Appropriation Act 1953.  
State: None. Brazos River Authority is considering purchase of 50,000 acre-feet of storage space for water supply.

**RESERVOIR DATA (Capacities based on surveys made in 1959)**

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of concrete dam	584.0	-	-
Top of earth embankment	580.0	-	-
Maximum design water surface	573.0	2,100,400	51,190
Top of flood-control pool	571.0	1,999,500	49,820
Spillway crest (top of ultimate power pool)	533.0	627,100	23,560
Top of interim power pool	523.0	427,400	16,450
Invert of lowest intake	448.83	4,270	475
Streambed	425.0	0	0
Sediment reserve and power-head storage space	520.0	379,100	-

**GENERAL**

Construction started May 12, 1947  
Dam completed April 18, 1951  
Deliberate impoundment began December 10, 1951  
Power generation began June 25, 1953  
Marketing agency for power Southwestern Power Administration  
General contractor L. P. Reed Inc.  
Estimated project cost \$41,795,000

