

Lavon Dam and Lavon 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 East Fork Trinity River in Collin County, 22 miles northeast of Dallas.

DRAINAGE AREA

770 square miles.

DAM

Type Earthfill
 Length 18,860 ft including the spillway
 Maximum height 81 ft
 Top width 30 ft

SPILLWAY

Type Ogee
 Length 480.0 ft net at the crest
 Crest elevation 475.5 ft above msl
 Control 12 tainter gates, each 40 by 28 ft

OUTLET WORKS

Type 5 sluices through piers
 Size Each 36-inch diameter
 Control 5 manually operated slide gates
 Invert elevation 453.0 ft above msl

AUTHORIZATION

Federal: River and Harbor Act, March 2, 1945, amended July 24, 1946.
 Flood Control Act, October 23, 1962, for modification.
 State: Permit No. 1720 (Application No. 1820) September 1, 1954, to the North Texas Municipal Water District authorizes annual diversion of 50,000 acre-feet of water for municipal use, 8,000 acre-feet for industrial purposes, and 2,000 acre-feet for domestic use. The District has purchased 120,000 acre-feet of storage space in the reservoir and proposes to purchase a total of 280,000 acre-feet in the future.

RESERVOIR DATA (Based on 1970 area and capacity data by the U.S. Army Corps of Engineers for modified project)

| FEATURE | ELEVATION (FEET ABOVE MSL) | CAPACITY (ACRE-FEET) | AREA (ACRES) |
|------------------------------------|-------------------------------|-------------------------|-----------------|
| Top of dam | 514.0 | — | — |
| Maximum design water surface | 509.0 | 921,200 | 33,500 |
| Top of flood control storage space | 503.5 | 748,200 | 29,450 |
| Top of conservation storage space | 492.0 | 456,500 | 21,400 |
| Spillway crest | 475.5 | 178,300 | 12,750 |
| Invert of lowest intake | 453.0 | 12,700 | 2,870 |
| Streambed | 433.0 | 0 | 0 |
| Sediment reserve above | 492.0 | 16,100 | — |
| Sediment reserve below | 492.0 | 76,500 | — |
| Usable conservation storage space | — | 380,000 | — |

GENERAL

Construction started (original) January 1948
 Dam completed September 1953
 Impoundment of water began September 14, 1953
 Modification construction started May 15, 1970
 Modification completed June 24, 1974 (scheduled)
 Contractor original project J. W. Moorman & Son, Snyder, Texas
 Contractor modification project H. B. Zachry Company (Embankment)
 Estimated original cost \$12,500,000
 Estimated cost with modification \$60,200,000

