

### Grapevine Dam and Grapevine 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 Denton Creek in Tarrant County, 2 miles northeast of Grapevine.

**DRAINAGE AREA**  
695 square miles.

**DAM**

|                |                                  |
|----------------|----------------------------------|
| Type           | Earthfill                        |
| Length         | 12,850 ft including the spillway |
| Maximum height | 137 ft                           |
| Top width      | 28 ft                            |

**SPILLWAY**

|                 |                    |
|-----------------|--------------------|
| Type            | Ogee               |
| Length          | 500 ft             |
| Crest elevation | 560.0 ft above msl |
| Control         | None               |

**OUTLET WORKS**

|                  |                                |
|------------------|--------------------------------|
| Type             | 1 conduit                      |
| Size             | 13 ft diameter with two inlets |
| Control          | 2 gates, each 6.5 by 13 ft     |
| Invert elevation | 475.0 ft above msl             |

**LOW FLOW OUTLETS**

|                         |                            |
|-------------------------|----------------------------|
| Type                    | 2 steel pipes              |
| Size                    | Each 30 inches in diameter |
| Lowest invert elevation | 500.5 ft above msl         |

**AUTHORIZATION**

Federal: River and Harbor Act, March 2, 1945. River and Harbor Act, October 27, 1965.  
 State: Permit No. 1603 (Application No. 1728) November 23, 1951, to the city of Grapevine allows diversion of 1,250 acre-feet of water annually for municipal use.  
 Permit No. 1464 (Application No. 1572) August 19, 1948, to the city of Dallas allows diversion of 85,000 acre-feet of water annually for municipal, manufacturing, recreational, and industrial purposes.  
 Permit No. 1465 (Application No. 1573) August 19, 1948, to Dallas County Park Cities Water Control and Improvement District No. 2 allows diversion of 50,000 acre-feet annually for municipal, industrial, recreational, and manufacturing purposes.

**RESERVOIR DATA (Based on 1946 survey by the U.S. Army Corps of Engineers)**

| FEATURE                           | ELEVATION (FEET ABOVE MSL) | CAPACITY (ACRE-FEET) | AREA (ACRES) |
|-----------------------------------|----------------------------|----------------------|--------------|
| Top of dam                        | 588.0                      | -                    | -            |
| Maximum design water surface      | 581.0                      | 768,800              | 19,420       |
| Top flood control storage space   | 560.0                      | 435,500              | 12,740       |
| Top conservation storage space    | 535.0                      | 188,550              | 7,380        |
| Invert of lowest outlet           | 475.0                      | 830                  | 126          |
| Streambed                         | 451.0                      | 0                    | 0            |
| Sediment reserve space above      | 535.0                      | 8,700                | -            |
| Sediment reserve space below      | 535.0                      | 27,300               | -            |
| Usable conservation storage space | -                          | 161,250              | -            |

Note: Proposed reallocation of water would change storage space at top of conservation pool to 386,500 acre-feet at elevation 556.0 feet above mean sea level. Sediment reserve space above 556.0 will be 1,700 acre-feet and 14,300 acre-feet below 556.0. Usable conservation storage will be 372,200 acre-feet.

**GENERAL**

|                            |   |
|----------------------------|---|
| Construction started       | January 1948  |
| Dam completed              | June 6, 1952  |
| Impoundment of water began | July 3, 1952  |
| General contractor         | T. L. James, Inc., and Guilliam Brothers, Ruston, Louisiana |
| Estimated project cost     | \$11,753,000  |

