

Amon G. Carter Dam and Lake Amon G. Carter

OWNER

City of Bowie.

ENGINEER (Design)

Freese and Nichols.

LOCATION

On Big Sandy Creek in Montague County, 6 miles south of Bowie.

DRAINAGE AREA

100 square miles.

DAM

| | |
|----------------|--------------------|
| Type | Earthfill |
| Length | 2,540 ft |
| Maximum height | 71 ft |
| Top width | 20 ft |
| Top elevation | 938.0 ft above msl |

SPILLWAY (emergency)

| | |
|-----------------|--------------------|
| Location | Left end of dam |
| Type | Cut through saddle |
| Crest length | 700 ft |
| Crest elevation | 927.0 ft above msl |

SPILLWAY (service)

| | |
|-------------------|------------------------|
| Type | Rectangular drop inlet |
| Crest length | 240 ft |
| Crest elevation | 920.0 ft above msl |
| Discharge conduit | 96-inch concrete pipe |

SERVICE OUTLETS

| | |
|------------------|--|
| Low flow | 18-inch concrete pipe syphon, reducing to 12 inches with a gate valve at the discharge end |
| Invert elevation | 892.5 ft above msl |
| Water diversion | Pumping plant located on top of an open concrete intake tower in the lake |

STATE AUTHORIZATION

Permit No. 1719 (Application No. 1853) August 19, 1954, allows storage of 20,050 acre-feet of water and annual use of 3,500 acre-feet for municipal and 1,500 acre-feet for industrial purposes.

RESERVOIR DATA (Based on area and capacity curve by Freese and Nichols, 1955)

| | |
|----------|--|
| Capacity | 20,050 acre-feet at elevation 920.0 ft above msl |
| Area | 1,540 acres at elevation 920.0 ft above msl |

GENERAL

| | |
|----------------------------|---------------|
| Construction started | July 11, 1955 |
| Dam completed | August 1956 |
| Impoundment of water began | May 1956 |
| General contractor | John A. Petty |
| Estimated cost of the dam | \$320,046 |

