

**Lake Arrowhead Dam and Lake Arrowhead**

**OWNER**

City of Wichita Falls.

**ENGINEER (Design)**

Homer A. Hunter, Dallas.  
A. H. Wolverton, Austin.

**LOCATION**

On the Little Wichita River in Clay County, 13 miles southeast of Wichita Falls.

**DRAINAGE AREA**

832 square miles (275 square miles of this is above Lake Kickapoo).

**DAM**

Type	Earthfill
Length (including the spillway)	15,900 ft
Maximum height	62 ft
Top width	25 ft

**SPILLWAY**

Location	Left end of the dam
Type	Concrete ogee weir
Control	None
Crest elevation	926.0 ft above msl
Crest length	1,581 ft

**OUTLET WORKS**

Type	Cylindrical tower with two inlets at elevations 908.0 and 874.0 ft above msl
Control	2 slide gates, each 5-ft diameter

A third 5-foot diameter slide gate controls flow to a 60-inch diameter steel pipe installed inside the 8-foot diameter conduit with invert elevation 874.0 ft above msl for municipal water supply.

**AUTHORIZATION**

Permit No 2015 (Application No. 2196), June 1, 1962, authorizes construction of a dam to impound 228,000 acre-feet of water and annual diversion of 45,000 acre-feet.

**RESERVOIR DATA (Based on 1969 U.S. Geological Survey tabulation from data furnished by Homer Hunter and Associates.)**

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	944.0	-	-
Design flood stage	939.55	551,400	28,230
Top of conservation pool	926.0	262,100	16,200
Low flow outlet	874.0	-	-

**GENERAL**

Construction started	May 17, 1965
Dam completed	December 1966
Impoundment of water began	October 1966
General contractor	H. E. Cummins and Sons
Estimated cost	\$12,500,000

