

Lake Diversion Dam and Lake Diversion

OWNER

City of Wichita Falls and Wichita County Water Improvement District No. 2.

ENGINEER

R. A. Thompson.

LOCATION

On the Wichita River in Archer County, 20 miles downstream from Lake Kemp Dam.

DRAINAGE AREA

Water is released from Lake Kemp to maintain water level at the desired elevation.

DAM

Type	Earthfill
Length	7,000 ft
Height	55 ft
Top width	16 ft
Top elevation	1,070.0 ft above msl

SPILLWAY (service with discharge to canal system)

Type	Gated concrete structure
Control	12 slide gates, each 5 by 8.5 ft
Crest length net	60 ft
Crest elevation	1,042.4 ft above msl

SPILLWAY (emergency)

Type	Concrete ogee
Control	None
Crest length	308 ft
Crest elevation	1,051± ft above msl

OUTLET WORKS

Water is released for irrigation through the service spillway, and through 2 valve-controlled pipes, 4 feet diameter, with invert at elevation 1,020.0 ft above msl.

STATE AUTHORIZATION

Permit No. 504 (Application No. 516), March 22, 1921. This project is part of same permit for Lake Kemp Dam and allows storage of 45,000 acre-feet of water.

RESERVOIR DATA

Capacity 40,000 acre-feet with surface area of 3,419 acres at elevation 1,051± ft above msl.

GENERAL

Construction started	1922
Construction completed	1924
Storage began	1924
General Contractor	W. E. Callahan Construction Company
Spillway Repair	June 1, 1975
Cost	\$691,122

