

Farmers Creek Dam and Farmers Creek Reservoir (Lake Nocona)

OWNER

North Montague County Water Supply District.

ENGINEER (Design)

Freese and Nichols.

LOCATION

On Farmers Creek in Montague County, 8 miles northeast of Nocona.

DRAINAGE AREA

94 square miles.

DAM

Type	Earthfill
Length	3,720 ft
Maximum height	77 ft
Top width	20 ft
Top elevation	847.0 ft above msl

SPILLWAY (emergency)

Location	Near left end of the dam
Type	Two level, 3 section, uncontrolled
Center section crest elevation	827.0 ft above msl
Center section crest length	100 ft
End sections crest elevations	835.0 ft above msl
End sections crest lengths	400 ft (each)

OUTLET WORKS (service)

The pump station structure on the left shore of the lake is a vertical concrete shaft with vertical pumps. The motors are mounted on a platform at elevation 842.0 ft above msl.

OUTLET WORKS (low flow)

Type	Concrete pipe, 18-inch diameter
Invert elevation	795.0 ft above msl
Control	Valves in manhole structure

STATE AUTHORIZATION

Permit No. 1922 (Application No. 2104), March 10, 1959, authorizes construction of a dam to create a reservoir with a capacity of 25,389 acre-feet and annual diversion of 2,500 acre-feet of water for municipal use, 1,000 acre-feet for industrial use, and 1,000 acre-feet for mining purposes.

RESERVOIR DATA

Capacity	25,400 acre-feet at elevation 827.0 ft above msl
Area	1,470 acres at elevation 827.0 ft above msl
Capacity	39,000 acre-feet at elevation 835.0 ft above msl
Area	1,920 acres at elevation 835.0 ft above msl

GENERAL

Construction started	September 1959
Project completed	October 1960
Deliberate impoundment began	Spring of 1961
Water use began	September 1961
Estimated cost of the dam	\$1,100,000

