

**Randell Dam and Lake Randell**

**OWNER**

City of Denison.

**ENGINEER (Design)**

Original dam T. G. Banks.  
 1941 dam improvements and tainter gates addition A. W. Brenneke.  
 Revised plans by Wisenbaker, Fix, and Associates.

**LOCATION**

On Shawnee Creek in Grayson County, 4 miles northwest of Denison.

**DRAINAGE AREA**

10.3 square miles. The runoff is supplemented with water pumped from Lake Texoma.

**DAM**

Type	Earthfill
Length	1,385 ft
Maximum height	70 ft
Top width	24 ft
Top elevation	628± ft above msl

**SPILLWAY (emergency) 1941**

Location	Left end of the dam
Type	Concrete section
Crest length (net)	287.5 ft
Crest elevation	622.40 ft
Control	23 tainter gates, each 12 ft 6 inches by 8 ft
Uncontrolled section on each side of the tainter gate section is seven inches below top of gates and each section is 20 feet long.	

**OUTLET WORKS**

Type	Vertical 24-inch pipe supported by derrick type tower
Control	4 sluice gates
Invert elevations	584, 596, 604.5 and 613 ft above msl
Discharge	24-inch cast iron pipe through the dam to water supply connection

**STATE AUTHORIZATION**

Permit No. 1622 (Application No. 1752), May 27, 1952, approved the construction of the dam and authorized storage of 5,400 acre-feet of water and annual diversion of 5,280 acre-feet for municipal water supply. The permit allows diversion of 24,400 acre-feet of water annually from Lake Texoma to supplement the flow of Shawnee Creek.

**RESERVOIR DATA**

Capacity	6,290 acre-feet at elevation 621.83 ft above msl
Area	311 acres at elevation 621.83 ft above msl
Capacity	4,250 acre-feet at elevation 614.40 ft above msl
Area	238 acres at elevation 614.40 ft above msl
Usable storage	2,040 acre-feet above 614.40 ft above msl

**GENERAL**

Original dam built	1909
Dam improved and spillway added	1941
General contractor 1941	Mitchell Darby and PWA

