

Oak Creek Dam and Oak Creek Reservoir

OWNER

City of Sweetwater.

ENGINEER (Design)

Freese, Nichols and Endress.

LOCATION

On Oak Creek in Coke County, 5 miles southeast of Blackwell.
Reservoir extends into Nolan County.

DRAINAGE AREA

244 square miles.

DAM

Type Earthfill
Length 3,800 ft
Height 95 ft
Top width 36 ft

SPILLWAY (emergency)

Type Fill in natural saddle
Crest length 800 ft
Crest elevation 2,005.0 ft above msl

SPILLWAY (service)

Location Beyond the right end of the dam
Type Cut channel
Crest length 300 ft
Crest elevation 2,000.0 ft above msl

OUTLET WORKS (pumping plant)

Water is pumped to Sweetwater, Blackwell, and Bronte. A 24-inch pipe with valve control can release water to Oak Creek.

STATE AUTHORIZATION

Permit No. 1519 (Application No. 1623) August 29, 1949, authorizes a reservoir and diversion of 10,000 acre-feet of water annually for municipal and industrial purposes.

RESERVOIR DATA (Based on 1950 survey by design engineers)

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	2,014.0	—	—
Crest of emergency spillway	2,005.0	52,490	2,900
Crest of service spillway	2,000.0	39,360	2,375
Invert to service outlet	1,951.0	100	65
Usable storage (above low outlet)	—	39,260	—

GENERAL

Construction started July 10, 1950
Dam completed May 1952
Deliberate impoundment began May 12, 1953
Use of water began September 1953
General contractor Harry Campbell, Fort Worth, Texas
Estimated cost of dam \$411,000

