

Colorado City Dam and Lake Colorado City

OWNER

Texas Electric Service Company.

ENGINEER (Design)

Freese, Nichols and Endress.

LOCATION

On Morgan Creek in Mitchell County, 4 miles southwest of Colorado City.

DRAINAGE AREA

322 square miles, of which 32 square miles is probably noncontributing.

DAM

Type Earthfill
 Length 4,800 ft
 Height 85 ft
 Top of dam elevation 2,090.0 ft above msl

SPILLWAY (service)

Type Drop inlet (double rectangular)
 Location 100 ft upstream
 Conduits (double-horseshoe) Each 10 by 10 ft
 Crest elevation 2070.2 ft above msl

SPILLWAY (emergency)

Location 600 ft from left end
 Type Cut in natural bank
 Length 1,200 ft
 Elevation 2,073.4 ft above msl

OUTLET WORKS

Water for condenser cooling is circulated from intake well to powerplant and back to the lake. Low flow release is valve-controlled, 30-inch diameter pipe through the dam with invert elevation 2,024.3 ft above msl.

POWER GENERATION FEATURES

6 generating units with total capacity of 833,000 kw.

STATE AUTHORIZATION

Permit No. 1475 (Application No. 1587) December 21, 1948, allows 5,500 acre-feet annual diversion for municipal, domestic, industrial, and steam-electric power use.

RESERVOIR DATA (Based on 1964 survey by owner)

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	2,090.0	--	--
Crest of emergency spillway	2,073.4	37,300	1,830
Crest of service spillway	2,070.2	31,805	1,612
Top of outlet box	2,024.3	320	--
Streambed	2,002.0	0	0
Usable storage		31,485	

Note: When lake level is low, water is pumped from Champion Creek Reservoir to maintain operating level.

GENERAL

Construction started 1948
 Impoundment of water began April 1949
 Dam completed September 1949
 Use of water for powerplant began June 1950
 General contractor Harry Campbell

