

Upper Nueces Dam and Upper Nueces Reservoir

OWNER

Zavala and Dimmit Counties Water Improvement District Number 1.

ENGINEER (Design)

H. R. F. Helland (1947).
The Terrell Bartlett Engineers (spillway 1957).

LOCATION

On the Nueces River in Zavala County, 6 miles north of Crystal City.

DRAINAGE AREA

2,160 square miles.

DAM

Type	Earthfill
Length	550 ft
Height	60 ft
Top width	20 ft

SPILLWAY (West channel relief floodway)

Location	Upstream of dam
Crest length	320 ft
Crest elevation	606.0 ft above msl

SPILLWAY (service)

Type	Concrete, uncontrolled
Crest length	270 ft
Crest elevation	598.0 ft above msl
Discharges flow to a regulating pool thence to river.	

OUTLET WORKS

Type	Drop inlet, 4 by 6 ft
Control	3 slide gates
Discharge conduit	42-inch concrete pipe
Invert low opening	559.5 ft above msl

STATE AUTHORIZATION

Permit No. 1419 (Application No. 1525) September 15, 1947, increased water rights from 10,000 to 14,000 acre-feet of water annually for irrigation use. Water rights established by earlier permits and certified filings dating from 1913.

RESERVOIR DATA

Capacity 7,590 acre-feet at elevation 598.0 ft above msl
Area 316 acres at elevation 598.0 ft above msl
Usable storage capacity 7,590 acre-feet

GENERAL

Original dam built	1926
Present dam started	October 16, 1947
Present dam completed	March 1948
Impoundment of water began	March 1948
General contractor of present dam	Schwoppe Brothers
Estimated cost of present dam and spillway	\$225,000

