

LOCATION: R.M. 238.9 on Leon River, Brazos River Basin near Proctor, Texas, and about 8 miles northeast of Comanche, in Comanche County.

DRAINAGE AREA:

1,265 square miles  
One inch of runoff 67,467 acre-feet

DAM:

Type: Rolled earth fill with concrete spillway in right abutment ridge  
Length: 13,460' (including spillway)  
Maximum Height: 86'  
Top Width: 30'

SPILLWAY:

Crest Elev: 1162.0' msl  
Length: 440' net at crest  
Type: Ogee  
Control: 11-40'x35' tainter gates

INFLOW:

Spillway design flood peak, cfs 459,200  
Spillway design flood volume, ac-ft 1,443,200  
Spillway design flood runoff, inches 22.09

OUTFLOW:

Total routed peak outflow, cfs 432,400  
Spillway, cfs 431,800  
Outlet works, cfs 600

OUTLET WORKS:

Type: 2 gate controlled conduits  
Dimension: 3' diameter  
Invert Elev: 1128.0' msl  
Control: 2-3x3' diameter slide gates

POWER FEATURES:

None

Feature	Reservoir Capacity						
	Elev : Feet : (msl)	Reser- : voir : Area : (acres)	Accumu- : lative : (ac-ft)	Runoff : (inches)	Incre- : mental : (ac-ft)	Spillway : Capacity : (cfs)	Outlet Works : Capacity : (cfs)
Top of Dam	1206.0						
Max Design Water Surface	1201.0	15,410	433,000	6.42		431,800	600
Top of Flood Control Pool and Top of Gates	1197.0	14,010	374,200	5.55	310,100	361,000	
Top of Conservation Pool and Spillway Crest	1162.0	4,610	59,400	0.88	31,400		
Sediment Reserve							
Total Storage					32,700*		
					374,200		
Maximum Tailwater	1172.7						
Streambed	1120.0						

\*Estimated 50 years of sediment storage distributed as follows: 4,700 ac-ft between elev 1197.0 and 1162.0' msl  
28,000 ac-ft below 1162.0' msl

(Sheet 1 of 2)  
PROCTOR LAKE

AUTHORIZATION: Flood Control Act of 3 Sep 54 (PL 83-780) (HD 535/81/2).

FINAL PROJECT COST (JUN 78):

Federal:	\$15,126,357.78
Non-Federal:	None*
Total:	\$15,126,357.78

ANNUAL O&M COST (FY 81):

Federal:	\$ 502,200
Non-Federal:	16,600
Total:	\$ 518,800

COST ALLOCATION METHOD:

Use of facilities (pro rata)

LOCAL AGENCY: Brazos River Authority

LAND ACQUISITION:

	: Guide Contour ('msl):	Area (Acres)
Fee simple	1172.0	9,079
Easement	1200.0	6,929
Total		16,008

FLOOD DATA:

Date	Peak Discharge (cfs)
May 1908 (Historic)	60,000
May 1952	38,500 (1)
May 1956	30,700
Oct 1959	36,100
Jan 1968	25,000

(1) Maximum of record.

Bankfull capacities below dam:

Dam to Hasse gage:	2,000 cfs
Hasse to Gatesville:	5,000 cfs

STATUS OF PROJECT: First construction contract was awarded 29 Jun 60. Deliberate impoundment began 30 Sep 63. Project is complete and operational.

\*NON-FEDERAL PARTICIPATION AND LOCAL COOPERATION:

A contract with the Brazos River Authority was approved 1 Jul 60 for 100 percent (31,400 ac-ft) of the conservation storage below elevation 1162.0 ft msl. A supplemental agreement to this contract was approved 9 May 66 to divide the water supply storage space into 20 percent (6,280 ac-ft) for present supply and 80 percent (25,120 ac-ft) for future supply. BRA will pay \$1,313,827.33 in addition to their share of the annual O&M cost, for this water supply storage space.

REMARKS:

Dependable yield\*\*: 21.5 cfs or 13.9 MGD

\*\*Based on critical dry period from 1950-1952 and 50 years of sedimentation.

Visitation (1981): 1,040,331

Shoreline at top of conservation pool: 38 miles

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PROCTOR LAKE