

LOCATION: R.M. 4.3 on the North Fork of the San Gabriel River, Brazos River Basin, 3.5 miles west of Georgetown, Texas

DRAINAGE AREA:

246 square miles
One inch of runoff 13,120 ac-ft

DAM:

Type: Rock fill, impervious core
Length: 6,700' (including spillway)
Maximum Height: 164'
Top Width: 30'

SPILLWAY:

Crest Elev: 834.0' msl
Length: 1,000'
Type: Broadcrested
Control: None

INFLOW:

Spillway design flood peak, cfs 395,800
Spillway design flood volume, ac-ft 336,800
Spillway design flood runoff, inches 25.67

OUTFLOW:

Total routed peak outflow, cfs 288,600
Spillway, cfs 284,000
Outlet works, cfs 4,600

OUTLET WORKS:

Type: 1 gate controlled conduit
Dimension: 11' diameter
Invert Elev: 720.0' msl
Control: 2-5'x11' hydraulic operated slide gates

POWER FEATURES: None

Feature	: Elev : Feet : (msl)	: Reser- : voir : Area : (acres)	: Reservoir Capacity :			: Spillway : Capacity : (cfs)	: Outlet Works : Capacity : (cfs)
			: Accumu- : lative : (ac-ft)	: Runoff : (inches)	: Incre- : mental : (ac-ft)		
Top of Dam	861.0	5,570					
Max Design Water Surface	856.2	5,090	221,100	17.57		284,000	4,600
Top of Flood Control Pool and Spillway Crest	834.0	3,220	130,800	9.97	87,600		4,800
Top of Conservation Pool	791.0	1,310	37,100	2.83	29,200		3,800
Sediment Reserve					14,000*		
Total Storage					130,800		
Maximum Tailwater	750.4						
Streambed	699.0						

*Estimated 100 years of sediment storage distributed as follows: 6,100 ac-ft between elev 834.0 and 791.0' msl
7,900 ac-ft below elev 791.0' msl

(Sheet 1 of 2)

GEORGETOWN LAKE - NORTH SAN GABRIEL DAM
(SAN GABRIEL RIVER PROJECT)

AUTHORIZATION: Flood Control Act of 1962, approved 23 Oct 62 (PL 87-874) (HD 591/87/2).

PROJECT COST ESTIMATE (OCT 82):

Federal:	\$38,800,000
Non-Federal:	None*
Total:	\$38,800,000

ANNUAL O&M COST (FY 81):

Federal:	\$ 475,000
Non-Federal:	164,000
Total:	\$ 639,000

COST ALLOCATION METHOD:

Separable costs - remaining benefits

LOCAL AGENCY: Brazos River Authority

LAND ACQUISITION:

	: Guide Contour ('msl) :	Area (Acres)
Fee simple	839.0	5,330
Easement		645
Total		5,975

FLOOD DATA:

Date	Peak Discharge (cfs)
Sep 21	160,000
Apr 57	155,000
Oct 59	71,500
Jun 44	37,500
Sep 81	75,000 (1)

(1) At Georgetown gage

LOW FLOW OUTLETS:

Intake dimensions: 3'x4'

Number: 4

Control: 1-3'x4' manually operated slide gate at each intake

Intake invert elevations:

Highest level:	777.0' msl
Upper intermediate level:	763.0' msl
Lower intermediate level:	749.0' msl
Lower level:	735.0' msl

STATUS OF PROJECT: Construction was initiated in FY 68 and completed in FY 82. Deliberate impoundment began 3 Mar 80. Project is operational.

*NON-FEDERAL PARTICIPATION AND LOCAL COOPERATION:

A contract with the Brazos River Authority was approved 24 Apr 81 for 100 percent (29,200 ac-ft) of the conservation storage between elevations 791.0 and 699.0' msl. BRA will pay an estimated \$6,311,000 exclusive of interest, in addition to their share of the annual O&M cost, for this water supply storage space.

REMARKS: This lake to be built with Granger and South Fork Lakes in the reservoir system.

Dependable yield**: 16 cfs or 10.3 MGD

**Based on a critical dry period from 1947-1967 and 100 years of sedimentation.

Visitation (1982): 893,843

Shoreline at top of conservation pool: 25 miles

(Sheet 2 of 2)

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