

LOCATION: R.M. 23.3 on Aquilla Creek, Brazos River Basin, one mile east of Aquilla, TX, in Hill County.

DRAINAGE AREA:
 252 square miles
 One inch of runoff 13,440 acre-feet

DAM:
 Type: Rolled earth fill
 Length: 11,890'
 Maximum Height: 104.5'
 Top Width: 38'

SPILLWAY:
 Crest Elev: 564.5' msl
 Length: 1,200' net at crest
 Type: Limited service
 Control: None

INFLOW:
 Spillway design flood peak, cfs 250,400
 Spillway design flood volume, ac-ft 384,100
 Spillway design flood runoff, inches 28.58

OUTFLOW:
 Total routed peak outflow, cfs 126,800
 Spillway, cfs 126,800
 Outlet works, cfs 0

OUTFLOW WORKS:
 Type: 1 gate controlled conduit
 Dimension: 10' diameter
 Invert Elev: 503.0' msl
 Control: 2 Service and 2 Emergency 4.5'x10' manually operated gates

LOW-FLOW OUTLET:
 Type: 1-1.0' diameter pipe emptying into flood control conduit
 Control: 1.0' sluice gate
 Invert Elev: 505.0' msl

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	582.5						
Maximum Design Water Surface	577.5	14,495	359,900	26.78		126,800	3,269
Spillway Crest	564.5	8,980	213,800	15.91			2,950
Top of Flood Control Pool	556.0	7,000	146,000	10.86	86,700		2,721
Top of Conservation Pool	537.5	3,280	52,400	3.90	33,600		2,134
Sediment Reserve					25,700*		
Total Storage					146,000		
Maximum Tailwater	510.0						
Streambed	478.0						

*Estimated 100 years of sediment storage distributed as follows: 6,900 ac-ft between elev 556.0 and 537.5' msl
 18,800 ac-ft below elev 537.5' msl