



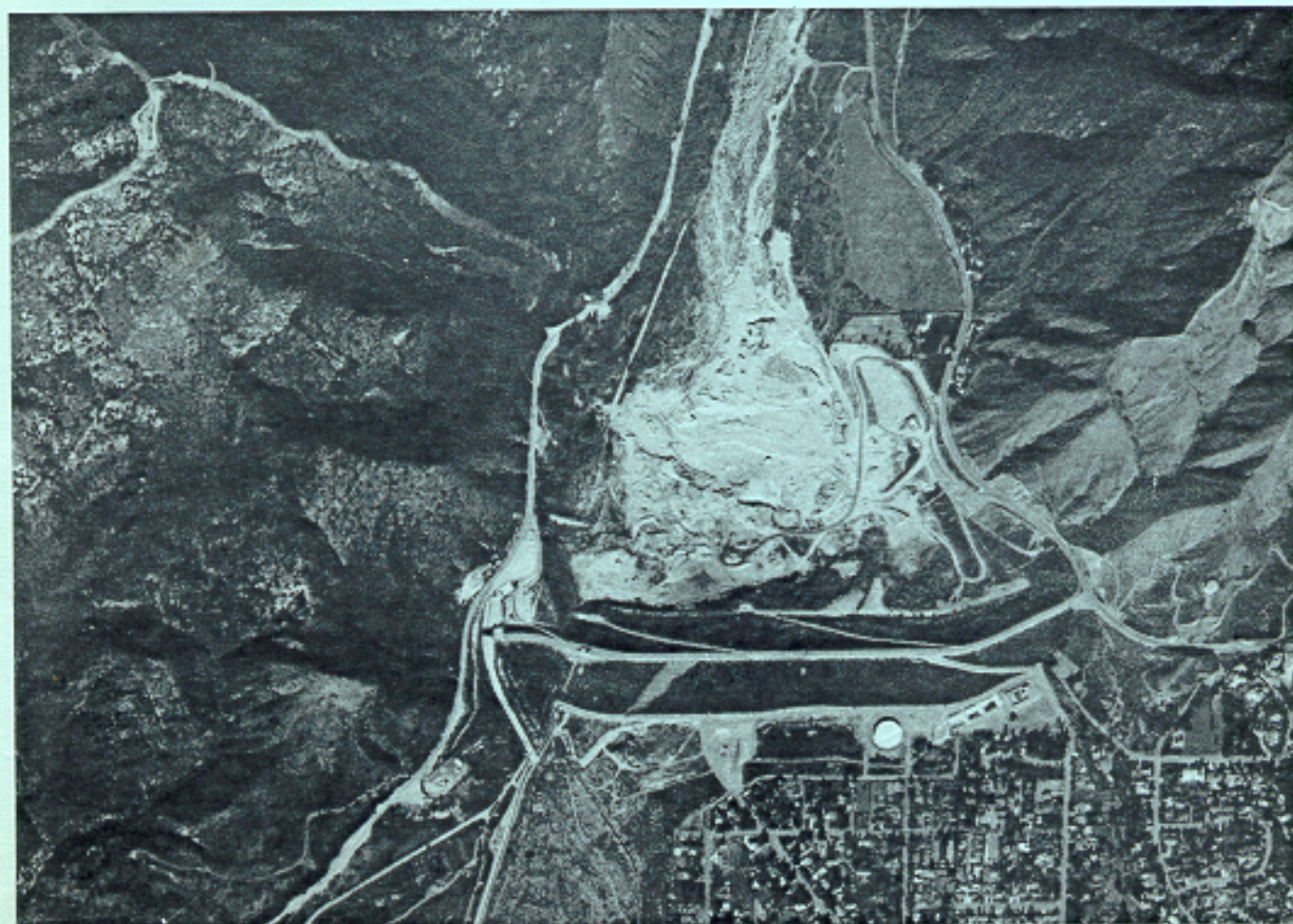
US Army Corps  
of Engineers  
Los Angeles District

# WATER CONTROL MANUAL

**SAN ANTONIO DAM**

**LOS ANGELES COUNTY AND SAN BERNARDINO COUNTY**

**SAN ANTONIO CREEK, CALIFORNIA**



YEAR OF PHOTO: 1990

**MAY 1991**

SAN ANTONIO DAM AND RESERVOIR  
LOS ANGELES COUNTY AND SAN BERNARDINO COUNTY, CALIFORNIA

PERTINENT DATA  
JULY 1990

Stream System . . . . .	San Antonio Creek	
Drainage Area . . . . .	sq. mi. . . . .	26.7
Elevation		
Streambed at upstream toe of dam . . . . .	ft, NGVD . . . . .	2,125
Debris Pool . . . . .	ft, NGVD . . . . .	2,164
Flood control pool (spillway crest) . . . . .	ft, NGVD . . . . .	2,238
Spillway design surcharge level . . . . .	ft, NGVD . . . . .	2,254.4
Top of dam . . . . .	ft, NGVD . . . . .	2,260
Area		
Debris pool . . . . .	acres . . . . .	59
Spillway crest . . . . .	acres . . . . .	145
Spillway design surcharge level . . . . .	acres . . . . .	163
Top of dam . . . . .	acres . . . . .	168
Capacity, gross		
Debris pool . . . . .	acre-ft . . . . .	953(0.67*)
Spillway crest . . . . .	acre-ft . . . . .	8,535(6.02*)
Spillway design surcharge level . . . . .	acre-ft . . . . .	11,063(7.83*)
Top of dam . . . . .	acre-ft . . . . .	11,992(8.46*)
Allowance for sediment		
50-year . . . . .	acre-ft . . . . .	2,000
Reservoir design flood . . . . .	acre-ft . . . . .	1,350
Dam: - Type . . . . .		Earth
Height above original streambed . . . . .	ft . . . . .	160
Top length . . . . .	ft . . . . .	3,850
Top width . . . . .	ft . . . . .	30
Freeboard . . . . .	ft . . . . .	5.1
Spillway: - Type . . . . .		Ungated overflow concrete ogee
Crest length . . . . .	ft . . . . .	200
Design surcharge . . . . .	ft . . . . .	16.4
Design discharge . . . . .	c.f.s. . . . .	51,160
Outlets:		
Gates - type . . . . .		Vertical lift
Number and size . . . . .		3 - 5'-8"W x 10'H
Gate sill elevation . . . . .	ft, NGVD . . . . .	2,125
Conduits		
Number and size - diameter . . . . .	ft . . . . .	1 - 14.5
Length . . . . .	ft . . . . .	508
Maximum capacity at spillway crest . . . . .	c.f.s. . . . .	11,800
Regulated capacity at spillway crest . . . . .	c.f.s. . . . .	8,000
Reservoir design flood:		
Duration (inflow) . . . . .	days . . . . .	2
Total volume . . . . .	acre-ft . . . . .	22,500(15.81*)
Inflow peak . . . . .	c.f.s. . . . .	19,000
Spillway design flood:		
Duration (inflow) . . . . .	days . . . . .	1
Total volume . . . . .	acre-ft . . . . .	18,200(11.90*)
Inflow peak . . . . .	c.f.s. . . . .	60,000
Historic maximums:		
Maximum release . . . . .	c.f.s. . . . .	8,420
Date . . . . .		1-25-69
Maximum water surface elevation . . . . .	ft, NGVD . . . . .	2225.6
Date . . . . .		2-19-80