

RESERVOIR SEDIMENT
DATA SUMMARY

SAN ANTONIO FLOOD CONTROL BASIN
NAME OF RESERVOIR

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

70-100

DATA SHEET NO.

DAM	1. OWNER Corps of Engineers			2. STREAM San Antonio Creek		3. STATE California										
	4. SEC. 24 TWP. 1N RANGE 8W			5. NEAREST P.O. Claremont 4.5NN		6. COUNTY Los Angeles-San Bernardino										
	7. LAT. 34° 09' 26" LONG. 117° 40' 50"			8. TOP OF DAM ELEVATION 2,260		9. SPILLWAY CREST ELEV. 2,238										
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-FEET		14. GROSS STORAGE, ACRE-FEET		15. DATE STORAGE BEGAN					
	a. FLOOD CONTROL		2,238		143		9,285		9,285		Nov 55					
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN					
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION															
	f. CONSERVATION															
	g. INACTIVE										May 56					
WATERSHED	17. LENGTH OF RESERVOIR 0.51 MILES				AV. WIDTH OF RESERVOIR 0.44 MILES											
	18. TOTAL DRAINAGE AREA 26.7 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 34.0 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 26.7 SQ. MI.				23. MEAN ANNUAL RUNOFF 7.25 INCHES											
	20. LENGTH 11.0 MILES		AV. WIDTH 2.43 MILES		24. MEAN ANNUAL RUNOFF 10,318 (13) AC.-FT.											
	21. MAX. ELEV. 10,080		MIN. ELEV. 2,125		25. ANNUAL TEMP MEAN 62.1° RANGE 47.2°-76.9°											
SURVEY DATA	26. DATE OF SURVEY		27. PERIOD YEARS		28. ACCL. YEARS		29. TYPE OF SURVEY		30. NO. OF RANGES OR CONTOUR INT.		31. SURFACE AREA, ACRES		32. CAPACITY, ACRE-FEET		33. C/I. RATIO, AC.-FT. PER AC.-FT.	
	Aug 56		Orig survey				range		18		143		9,285		0.90	
	Jul 69		12.91		12.91		Range line		18		125		6,718		.65	
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET				36. WATER INFL. TO DATE, AC.-FT.							
					a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		a. MEAN ANNUAL		b. TOTAL TO DATE			
	Jul 69		32.92		10,389		67,356		134,128		10,389		134,128			
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, ACRE-FEET						38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET							
			a. PERIOD TOTAL		b. AV. ANNUAL		c. PER SQ. MI.-YEAR		a. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. MI.-YEAR			
	Jul 69		2,567		199		7.45		2,567		199		7.45			
	26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PER SQ. MI.-YR.				41. STORAGE LOSS, PCT.		42. SED. INFLOW, PPM					
				a. PERIOD		b. TOTAL TO DATE		a. AV. ANN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE		
Jul 69								2.14		27.6						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION										
	117	100	80	80-60	60-40	40-20	20-Crest	152			
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
Jul 69	10	19	19	13	11	13	15				

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR													
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														
45. RANGE IN RESERVOIR OPERATION														
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.							
1956-57	2127.50	Dry	33	1966-67	2168.33	Dry	20,406							
1957-58	2144.18	Dry	13,604	1967-68	2142.40	Dry	1,579							
1958-59	2132.25	Dry	318	1968-69	2192.80	Dry	67,356							
1959-60	2125.80	Dry	15											
1960-61	Dry	Dry	0											
1961-62	2141.84	Dry	2,066											
1962-63	2130.45	Dry	110											
1963-64	2127.26	Dry	842											
1964-65	2129.86	Dry	73											
1965-66	2168.50	Dry	27,726											

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
2125	0	0	2215	103	4,092			
2135	0.3 Est	0.3	2225	112	5,177			
2145	9	34.7	2235	121	6,349			
2155	18	182	2245	131	7,605			
2165	33	421	2255	142	8,967			
2175	52	849	2260	147	9,690			
2185	68	1,466						
2195	81	2,225						
2205	92	3,108						

47. REMARKS AND REFERENCES
 1/ Item 25 - Temperature taken at Claremont, California.

48. AGENCY MAKING SURVEY C of E
 49. AGENCY SUPPLYING DATA C of E

50. DATE 6 Feb 70