

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

SANTA ANITA DEBRIS BASIN
NAME OF RESERVOIR

70-103a
DATA SHEET NO.

DAM	1. OWNER <u>LACED</u>			2. STREAM <u>Santa Anita Creek</u>			3. STATE <u>California</u>						
	4. SEC. <u>11</u> TWP. <u>1N</u> RANGE <u>11W</u>			5. NEAREST P O <u>Arcadia</u>			6. COUNTY <u>Los Angeles</u>						
	7. LAT <u>34° 10' 45"</u> LONG. <u>118° 01' 10"</u>			8. TOP OF DAM ELEVATION <u>795.0</u>			9. SPILLWAY CREST ELEV. <u>774.7</u>						
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										16. DATE NORMAL OPER. BEGAN Dec 59		
	b. MULTIPLE USE												
	c. POWER												
	d. WATER SUPPLY												
	e. IRRIGATION												
	f. CONSERVATION												
	g. INACTIVE												
17. LENGTH OF RESERVOIR <u>0.12</u> MILES					AV. WIDTH OF RESERVOIR <u>0.12</u> MILES								
WATERSHED	18. TOTAL DRAINAGE AREA <u>1.70</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION _____ INCHES								
	19. NET SEDIMENT CONTRIBUTING AREA <u>1.70</u> SQ. MI.				23. MEAN ANNUAL RUNOFF _____ INCHES								
	20. LENGTH <u>0.06</u> MILES		AV. WIDTH <u>1.77</u> MILES		24. MEAN ANNUAL RUNOFF _____ AC.-FT.								
	21. MAX. ELEV. <u>3,420</u>		MIN. ELEV. <u>748.5</u>		25. ANNUAL TEMP MEAN <u>62.2</u> RANGE <u>43.8° -75.6</u>								
	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.			
Sep 62		2.8	2.8				2/						
Sep 68		6.0	8.8										
Sep 70		2.0	10.8										
Sep 71		1.0	11.8										
Sep 75		4.0	15.8										
SURVEY DATA	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		
	Sep 62		22.77		No record of inflow.								
	Sep 68		26.11										
	Sep 70		44.34										
	Sep 71		27.06										
	Sep 75		23.92										
	26. DATE OF SURVEY		37. 3/ 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					
	Sep 62		91.13	32.5	19.1	91.1	32.5	19.1					
Sep 68		6.82	1.14	.67	97.9	11.1	6.53						
Sep 70		170.0	85.0	50.0	268.0	24.8	14.6						
Sep 71		27.06	27.06	15.92	295.06	25.0	14.71						
Sep 75		41.34	10.34	6.08	336.4	21.3	12.53						
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			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION													
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													
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.							
46. ELEVATION-AREA-CAPACITY DATA														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY						
47. REMARKS AND REFERENCES														
<u>1/</u> Item 25 - Temperature taken at Pasadena, California <u>2/</u> Item 32 - Capacity of debris basin varies. Debris excavated at various times. <u>3/</u> Item 37 - Sedimentation values computed by LACFCD are based on complete water year.														
48. AGENCY MAKING SURVEY LACFCD														
49. AGENCY SUPPLYING DATA C of E														
50. DATE Feb 76														