

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

SPINKS DEBRIS BASIN

NAME OF RESERVOIR

70-82a

DATA SHEET NO.

DAM	1. OWNER <b>LACFD</b>			2. STREAM <b>Spinks Canyon</b>			3. STATE <b>Calif.</b>						
	4. SEC. 19 TWP. 1N RANGE 10W			5. NEAREST P.O. <b>Monrovia</b>			6. COUNTY <b>Los Angeles</b>						
	7. LAT <b>34° 09' 06"</b> LONG <b>117° 57' 42"</b>			8. TOP OF DAM ELEVATION <b>769.5</b>			9. SPILLWAY CREST ELEV. <b>761.5</b>						
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												
	b. MULTIPLE USE												
	c. POWER												
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION										Dec 58		
	f. CONSERVATION												
	g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR <u>1/</u> MILES				AV. WIDTH OF RESERVOIR <u>1/</u> MILES								
	18. TOTAL DRAINAGE AREA <u>.44</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>24.45</u> INCHES								
	19. NET SEDIMENT CONTRIBUTING AREA <u>.44</u> SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES								
	20. LENGTH <u>1.19</u> MILES		AV. WIDTH <u>.64</u> MILES		24. MEAN ANNUAL RUNOFF AC-FT.								
	21. MAX. ELEV. <u>2675</u>		MIN. ELEV. <u>761.5</u>		25. ANNUAL TEMP. MEAN <u>62.2°</u> RANGE <u>48.8°-75.6°</u>								
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.			
	Sep 59		.8	.8									
	Sep 62		3.0	3.8									
	Sep 69		7.0	10.8									
	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 59		14.35		No record of inflow								
	Sep 62		17.97										
	Sep 69		25.74										
	26. DATE OF SURVEY		37. <u>4/</u> 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 59		8.4	--	--	8.4	--	--						
Sep 62		2.2	.73	1.66	10.0	2.63	5.97						
Sep 69		16.4	2.34	5.32	26.4	2.44	5.54						
					27.0	2.5	5.8						
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PERSQ. 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	-125
	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  
1/ Item 17 - No dimensions available.  
2/ Item 25 - Temperature taken at Pasadena, California  
3/ Item 32 - Debris basin capacity varies. Debris excavated at various times.  
4/ Item 37 - Sedimentation values computed by LACFCD based on complete water years.