

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

KINNELOA-WEST DEBRIS BASIN

NAME OF RESERVOIR

70-97a

DATA SHEET NO.

DAM	1. OWNER LACFGD			2. STREAM Kinneloa Canyon		3. STATE Calif		
	4. SEC. 12 TWP. 1N RANGE 12W		5. NEAREST P.O. Altadena		6. COUNTY Los Angeles			
	7. LAT. 34° 10' 54" LONG. 118° 5' 13"			8. TOP OF DAM ELEVATION 1408.5		9. SPILLWAY CREST ELEV. 1400.0		
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					Sep 66		
	f. CONSERVATION							
g. INACTIVE								
17. LENGTH OF RESERVOIR .045 MILES			AV. WIDTH OF RESERVOIR .02 MILES					
WATERSHED	18. TOTAL DRAINAGE AREA .16 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 31.5 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA .16 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES				
	20. LENGTH .909 MILES		AV. WIDTH .176 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.			
	21. MAX. ELEV. 3640		MIN. ELEV. 1385.0		25. ANNUAL TEMP. MEAN 62.2° RANGE 48.8°-75.6°			
	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, 2 /ACRE-FEET	33. C/I. RATIO, AC.-FT. PER AC.-FT.
Sep 69	3	3.0						
Sep 70	1	4.0						
Sep 71	1	5.0						
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 69	42.67	No record of inflow					
	Sep 70	18.71						
	Sep 71	23.22						
SURVEY DATA	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 69	14.8	4.93	30.8	14.8	4.93	30.8	
	Sep 70	3.10	3.10	19.4	17.9	4.48	28.0	
Sep 71	1.75	1.75	10.94	19.65	3.93	24.56		
SURVEY DATA	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	-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															
<u>1/</u> Item 25 - Temperature taken at Pasadena, Calif. <u>2/</u> Item 32 - Capacity of debris basin varies. Debris excavated at various times. <u>3/</u> Item 37 - Sedimentation values computed by LACFGD are based on complete water year.															
48. AGENCY MAKING SURVEY				LACFGD											
49. AGENCY SUPPLYING DATA				C of E								50. DATE <u>8 Feb 72</u>			

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DAM	1. OWNER <u>LACFCD</u>			2. STREAM <u>Kinneloa Canyon</u>			3. STATE <u>California</u>					
	4. SEC. <u>12</u> TWP. <u>1N</u> RANGE <u>12W</u>			5. NEAREST P.O. <u>Altadena</u>			6. COUNTY <u>Los Angeles</u>					
	7. LAT. <u>34° 10' 54"</u> LONG. <u>118° 5' 13"</u>			8. TOP OF DAM ELEVATION <u>1408.5</u>			9. SPILLWAY CREST ELEV. <u>1400.0</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											
	b. MULTIPLE USE											
	c. POWER											
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	e. IRRIGATION											
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	g. INACTIVE										Sep 66	
WATERSHED	17. LENGTH OF RESERVOIR <u>.045</u> MILES				AV. WIDTH OF RESERVOIR <u>.02</u> MILES							
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	20. LENGTH <u>.909</u> MILES		AV. WIDTH <u>.176</u> MILES		24. MEAN ANNUAL RUNOFF _____ AC.-FT.							
	21. MAX. ELEV. <u>3640</u>		MIN. ELEV. <u>1385.0</u>		25. ANNUAL TEMP. MEAN <u>62.2°</u> RANGE <u>48.3°-75.6°</u>							
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	Sep 69		3	3.0								
	Sep 70		1	4.0								
	Sep 71		1	5.0								
	Sep 73		2	7.0								
	Sep 78		5	12.0								
	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			
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Sep 71		1.75	1.75	10.94	19.65	3.93	24.56					
Sep 73		5.39	2.70	16.84	25.04	3.58	22.36					
Sep 78		2.05	0.41	2.56	27.09	2.26	14.13					
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				
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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														
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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 25 - Temperature taken at Pasadena, California.
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