

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

KINNELOA DEBRIS BASIN

NAME OF RESERVOIR

70-96a

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. STREAM <b>Kinneloa Canyon</b>			3. STATE <b>California</b>					
	4. SEC. <b>12</b> TWP. <b>1N</b> RANGE <b>12W</b>			5. NEAREST P.O. <b>Pasadena</b>			6. COUNTY <b>Los Angeles</b>					
	7. LAT. <b>34° 10' 59"</b> LONG. <b>118° 04' 58"</b>			8. TOP OF DAM ELEVATION <b>1395.0</b>			9. SPILLWAY CREST ELEV. <b>1388.0</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										Oct 64	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR <b>0.49</b> MILES				AV. WIDTH OF RESERVOIR <b>.016</b> MILES							
	18. TOTAL DRAINAGE AREA <b>0.20</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>31.5</b> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <b>.20</b> SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH <b>5000 Ft</b> AV. WIDTH <b>1000 Ft</b>				24. MEAN ANNUAL RUNOFF AC.-FT.							
	21. MAX. ELEV. <b>3675.0</b> MIN. ELEV. <b>1370.0</b>				25. ANNUAL TEMP MEAN <b>62.2°</b> RANGE <b>48.8°-75.6°</b>							
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, 2/ ACRE-Feet		33. C/I RATIO, AC.-FT. PER AC.-FT.		
	Sep 66		1.92	1.92								
	Sep 69		3.0	4.92								
	Sep 70		1.0	5.92								
	Sep 71		1.0	6.92								
	Sep 74		3.0	9.92								
	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 66		32.70		No record of inflow							
	Sep 69		42.67									
Sep 70		18.71										
Sep 71		23.22										
Sep 74		25.09										
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 66		4.2	2.10	10.50	4.2	2.10	10.50					
Sep 69		13.0	4.33	21.65	17.2	3.50	17.50					
Sep 70		2.54	2.54	12.7	19.7	3.33	16.6					
Sep 71		.62	.62	3.1	20.32	2.94	14.7					
Sep 74		2.73	.91	4.55	23.05	2.32	11.6					
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PER SQ. MI.-YEAR		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 25 - Temperature taken at Pasadena, California.

2/ Item 32 - Capacity of debris basin varies. Debris excavated at various times.

3/ Item 37 - Sedimentation values computed by LACFCD are based on complete water year.