

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

LA TUNA DEBRIS BASIN

NAME OF RESERVOIR

70-71a

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. STREAM <b>La Tuna Canyon</b>		3. STATE <b>California</b>																	
	4. SEC. <b>23</b> TWP. <b>2N</b> RANGE <b>14W</b>			5. NEAREST P.O. <b>Sun Valley</b>		6. COUNTY <b>Los Angeles</b>																	
	7. LAT. <b>34° 13' 41"</b> LONG. <b>118° 19' 21"</b>			8. TOP OF DAM ELEVATION <b>1157.0</b>		9. PILLWAY CREST ELEV. <b>1140.0</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										Jan 56												
	f. CONSERVATION																						
g. INACTIVE																							
17. LENGTH OF RESERVOIR			0.10			MILES			AV. WIDTH OF RESERVOIR			.06			MILES								
18. TOTAL DRAINAGE AREA			5.34			SQ. MI.			22. MEAN ANNUAL PRECIPITATION			15.2			INCHES								
19. NET SEDIMENT CONTRIBUTING AREA			5.34			SQ. MI.			23. MEAN ANNUAL RUNOFF						INCHES								
20. LENGTH			3.15			MILES			AV. WIDTH			1.96			MILES								
21. MAX. ELEV.			3126.0			MIN. ELEV.			1109.0			25. ANNUAL TEMP MEAN			62.2°			RANGE			48.8°-75.6°		
WATERSHED	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.								
	Feb 56		.1		.1																		
	Jul 57		1.4		1.5																		
	Sep 58		1.2		2.7																		
	Sep 59		1.0		3.7																		
	Sep 60		1.0		4.7																		
	Sep 62		2.0		6.7																		
Sep 71		9.0		15.7																			
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											
Feb 56		15.68		No record of inflow.																			
Jul 57		13.06																					
Sep 58		21.45																					
Sep 59		8.49																					
Sep 60		8.17																					
Sep 62		14.80																					
Sep 71		16.36																					
26. DATE OF SURVEY		37. 4/ 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 56		4.2			42.0			7.85			4.2			42.0			7.85						
Jul 57		.31			.22			.04			4.51			3.0			.56						
Sep 58		.81			.67			.13			5.32			1.97			.37						
Sep 59		11.5			11.5			2.15			16.82			4.55			.85						
Sep 60		6.51			6.51			1.22			23.3			4.96			.93						
Sep 62		16.7			8.35			1.53			40.0			5.98			1.11						
Sep 71		9.84			1.09			.20			49.84			3.17			.59						
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															
<p>1/ Items 8 &amp; 9 - Basin rebuilt during 1960-61.</p> <p>2/ Item 25 - Temperature taken at Pasadena, Calif.</p> <p>3/ Item 32 - Capacity of debris basin varies. Debris excavated at various times.</p> <p>4/ Item 37 - Sedimentation vades as computed by LACFCD are sediment removals from basin and are based on complete water year.</p>															
48. AGENCY MAKING SURVEY				LACFCD											
49. AGENCY SUPPLYING DATA				C of E								50. DATE 8 Feb 72			

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DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM La Tuna Canyon			3. STATE California						
	4. SEC. 23 TWP. 2N RANGE 14W			5. NEAREST P.O. Sun Valley			6. COUNTY Los Angeles						
	7. LAT. 34° 13' 41" LONG. 118° 19' 21" W			8. TOP OF DAM ELEVATION 1157.0			9. SPILLWAY CREST ELEV. 1140.0						
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										Jan 56		
	f. CONSERVATION												
	g. INACTIVE												
17. LENGTH OF RESERVOIR 0.10 MILES				AV. WIDTH OF RESERVOIR .06 MILES									
WATERSHED	18. TOTAL DRAINAGE AREA 5.34 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 15.2 INCHES								
	19. NET SEDIMENT CONTRIBUTING AREA 5.34 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES								
	20. LENGTH 3.15 MILES		AV. WIDTH 1.96 MILES		24. MEAN ANNUAL RUNOFF AC-F.T.								
	21. MAX. ELEV. 3126.0		MIN. ELEV. 1109.0		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, ACRE FEET		33. C/I. RATIO, AC.-FT. PER AC.-FT.
Sep 73		2.0	17.7										
Sep 77		4.0	21.7										
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 73	14.50		No record of inflow									
	Sep 77	13.52											
	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					
Sep 73	8.86	4.43	0.83	58.70		3.32		0.62					
Sep 77	2.11	0.53	0.10	60.81		2.80		0.52					
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  
1/ Items 8 & 9 - Basin rebuilt during 1960-61.  
2/ Item 25 - Temperature taken at Pasadena, Calif.  
3/ Item 32 - Capacity of debris basin varies. Debris excavated at various times.  
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