

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

WILBUR AVENUE DEBRIS BASIN (Revised)

NAME OF RESERVOIR

70-36c

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM Aliso Canyon			3. STATE California					
	4. SEC. Land TWP. Grant RANGE			5. NEAREST P.O. Northridge			6. COUNTY Los Angeles					
	7. LAT. 34° 13' 55" LONG. 118° 32' 55"			8. TOP OF DAM ELEVATION 812.3			9. SPILLWAY CREST ELEV. 805					
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										Jun 42	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 0.13 MILES				AV. WIDTH OF RESERVOIR 0.06 MILES							
	18. TOTAL DRAINAGE AREA 8.63 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 17.40 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 8.63 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH 6.38 MILES		AV. WIDTH 1.35 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.							
	21. MAX. ELEV. 3039		MIN. ELEV. 799.5		25. ANNUAL TEMP. MEAN 62.2° RANGE 48.8°-75.6°							
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 43		1.33	1.33								
	Sep 44		1.0	2.33								
	Sep 47		3.0	5.33								
	Sep 50		3.0	8.33								
	Sep 52		2.0	10.33								
	Sep 57		5.0	15.33								
	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 43		14.00		No record of inflow							
	Sep 44		26.00									
	Sep 47		15.77									
	Sep 50		9.70									
Sep 52		21.60										
Sep 57		15.60										
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 43		27.17	20.43	2.37	27.17	20.43	2.37					
Sep 44		23.44	23.44	2.72	50.61	21.72	2.52					
Sep 47		21.91	7.30	.85	72.52	13.61	1.58					
Sep 50		6.53	2.18	.25	79.05	9.49	1.10					
Sep 52		36.04	18.02	2.09	115.09	11.14	1.29					
Sep 57		20.21	4.04	.47	135.30	8.83	1.02					
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															
<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 based on complete water year.															
48. AGENCY MAKING SURVEY				LACFCD											
49. AGENCY SUPPLYING DATA				C of E				50. DATE <u>24 Feb 67</u>							

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	7. LAT. 34°13'55" LONG. 118°32'55"			8. TOP OF DAM ELEVATION 812.3			9. SPILLWAY CREST ELEV. 805							
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										Jun 42			
	f. CONSERVATION													
	g. INACTIVE													
WATERSHED	17. LENGTH OF RESERVOIR 0.13 MILES				AV. WIDTH OF RESERVOIR 0.06 MILES									
	18. TOTAL DRAINAGE AREA 8.63 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 17.40 INCHES									
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	21. MAX. ELEV. 3039		MIN. ELEV. 799.5		25. ANNUAL TEMP. MEAN 62.2° RANGE 48.8°-75.6°									
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 60		3	18.33							2/			
	Sep 62		2	20.33										
	Sep 65		3	23.33										
	Sep 66		1	24.33										
	Sep 67		1	25.33										
	Sep 68		1	26.33										
	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 60		17.9		No record of inflow									
	Sep 62		15.83											
	Sep 65		13.19											
	Sep 66		22.33											
	Sep 67		24.21											
	Sep 68		18.08											
26. DATE OF SURVEY		37. <u>3</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 60		23.24	7.75	0.90	158.54	8.65	1.00							
Sep 62		22.29	11.15	1.29	180.83	8.89	1.03							
Sep 65		10.60	3.53	.41	191.43	8.21	.95							
Sep 66		34.43	34.43	3.99	225.86	9.28	1.08							
Sep 67		20.27	20.27	2.35	246.13	9.72	1.13							
Sep 68		18.76	18.76	2.17	264.89	10.06	1.17							
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
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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														
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48. AGENCY MAKING SURVEY LACFCD														
49. AGENCY SUPPLYING DATA C of E														
													50. DATE 26 Jan 70	

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	Sep 69		1	27.33				2/				
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET			36. WATER INFL. TO DATE, AC.-FT.				
	Sep 69		27.21		No record of inflow							
	26. DATE OF SURVEY		37. 3/ PERIOD CAPACITY LOSS, ACRE-FEET		38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET							
Sep 69		23.50		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR			
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				

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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						
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48. AGENCY MAKING SURVEY	LACFGD													
49. AGENCY SUPPLYING DATA	C of E													
50. DATE						26Jan70								