

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

LITTLE DALTON DEBRIS DAM

NAME OF RESERVOIR

70-98a

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM Little Dalton			3. STATE California								
	4. SEC. 20 TWP. 1N RANGE 9W			5. NEAREST P.O. Glendora			6. COUNTY Los Angeles								
	7. LAT. 34° 09' 25" LONG. 117° 50' 15"			8. TOP OF DAM ELEVATION 1200.2			9. SPILLWAY CREST ELEV. 1186.0								
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										Feb 60				
	f. CONSERVATION														
	g. INACTIVE														
WATERSHED	17. LENGTH OF RESERVOIR 0.33 MILES				AV. WIDTH OF RESERVOIR 0.09 MILES										
	18. TOTAL DRAINAGE AREA 3.3 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 26.43 INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA 3.3 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES										
	20. LENGTH 3.81 MILES		AV. WIDTH 1.28 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.										
	21. MAX. ELEV. 3575.0		MIN. ELEV. 1139.0		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. CH. RATIO, AC.-FT. PER AC.-FT.		
	Sep 62		2.6	2.6											
	Sep 69		7.0	9.6											
	Sep 74		5.0	14.6											
	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 62		15.50		No record of inflow										
	Sep 69		28.19												
	Sep 74		20.82												
	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 62		136.5		52.5		15.9		136.5		52.5		15.9			
Sep 69		76.92		40.8		12.4		423.0		44.1		13.4			
Sep 74		2.29		0.46		0.14		425.29		29.13		8.83			
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
1 / Item 25 - Temperature taken at Pasadena, California.
2 / Item 32 - Capacity of Debris basin varies. Debris excavated at various times.
3 / Item 37 - Sediment values computed by LACFCD based on complete water year.

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DATA SUMMARY

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NAME OF RESERVOIR

70-98a
DATA SHEET NO.

DAM	1. OWNER <u>LACFCD</u>			2. STREAM <u>Little Dalton</u>			3. STATE <u>California</u>					
	4. SEC. <u>20</u> TWP. <u>1N</u> RANGE <u>9W</u>			5. NEAREST P O <u>Glendora</u>			6. COUNTY <u>Los Angeles</u>					
	7. LAT. <u>34°09'25"</u> LONG <u>117°50'15"</u>			8. TOP OF DAM ELEVATION <u>1200.2</u>			9. SPILLWAY CREST ELEV. <u>1186.0</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										16. DATE NORMAL OPER. BEGAN Feb 60	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION											
	f. CONSERVATION											
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17. LENGTH OF RESERVOIR <u>0.33</u> MILES					AV. WIDTH OF RESERVOIR <u>0.09</u> MILES							
WATERSHED	18. TOTAL DRAINAGE AREA <u>3.3</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>26.43</u> INCHES							
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	20. LENGTH <u>3.81</u> MILES		AV. WIDTH <u>1.28</u> MILES		24. MEAN ANNUAL RUNOFF AC.-FT.							
21. MAX. ELEV. <u>3575.0</u>		MIN. ELEV. <u>1139.0</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 62		2.6	2.6								
	Sep 69		7.0	9.6								
	Sep 74		5.0	14.6								
	Sep 77		3.0	17.6								
	Sep 79		2.0	19.6								
	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 62		15.50		No record of inflow.							
	Sep 69		28.19									
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Sep 77		31.76										
Sep 79		39.40										
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 62		136.5	52.5	15.9	136.5	52.5	15.9					
Sep 69		76.92	40.8	12.4	423.0	44.1	13.4					
Sep 74		2.29	0.46	0.14	425.29	29.13	8.83					
Sep 77		8.0	2.67	0.81	433.29	24.62	7.46					
Sep 79		2.29	1.15	0.35	435.58	22.22	6.73					
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														
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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
 L/Item 25 - Temperature taken at Pasadena, California.
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 B/Item 37 - Sediment values computed by LACFCD based on complete water year.

48. AGENCY MAKING SURVEY LACFCD
 49. AGENCY SUPPLYING DATA C of E
 50. DATE 14 February 1980