

RESERVOIR SEDIMENTATION
DATA SUMMARY

Zachau Debris Basin

70-84

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. RIVER Zachau Canyon			3. STATE California					
	4. SEC. TWP. RANGE			5. NEAREST TOWN Tujunga			6. COUNTY Los Angeles					
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV. 1,823			9. SPILLWAY CREST ELEV. 1817.0					
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. SURFACE AREA ACRES		13. STORAGE ACRE-FEET		14. ACCUMULATED ACRE-FEET		15. DATE STORAGE BEGAN	
	a. FLOOD CONTROL											
	b. POWER											
	c. WATER SUPPLY											
	d. IRRIGATION										16. DATE NORMAL OPER. BEGAN	
	e. CONSERVATION										Aug. 1956	
	f. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR - MILES				AV. WIDTH OF RESERVOIR - MILES							
	18. TOTAL DRAINAGE AREA .35 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 22.6 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA .35 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH 1.38 MILES		AV. WIDTH .38 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.							
	21. MAX. ELEV. 3,925		MIN. ELEV. 1,817		25. CLIMATIC CLASSIFICATION Sub-Humid							
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/W RATIO AC.-FT. PER SQ. MI.	
	Sept. 1959		3.2	3.2								
	Sept. 1961		2.0	5.2								
	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		
	Sept. 1959		19.25		No record of inflow.							
	Sept. 1961		8.94									
	26. DATE OF SURVEY		37. * PERIOD SEDIMENT DEPOSITS ACRE-FEET				38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET					
			a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YR.	a. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. MI.-YR.		
	Sept. 1959		.9	.28	.80	.9		.28		.80		
Sept. 1961		.56	.28	.80	1.46		.28		.80			
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. ANNUAL	b. TO DATE	a. PERIOD	b. TO DATE			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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 * Item 17 - No dimensions available. * Item 32 - Debris basin capacity varies. Debris excavated at various times. * Item 37 - Sedimentation values computed by IACFCD are based on complete water year.															
48. AGENCY SUPPLYING DATA IACFCD & C of E												49. DATE 1-16-62			

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

ZACHAU DEBRIS BASIN (Revised)

NAME OF RESERVOIR

70-84b

DATA SHEET NO.

DAM	1. OWNER LACPCD			2. STREAM Zachau Canyon			3. STATE California					
	4. SEC. 7 TWP. 2N RANGE 13W			5. NEAREST P. O. Tujunga			6. COUNTY Los Angeles					
	7. LAT. 34°16'03" LONG. 118°17'24"			8. TOP OF DAM ELEVATION 1823			9. SPILLWAY CREST ELEV. 1817					
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										Aug 56	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR .046 MILES				AV. WIDTH OF RESERVOIR .039 MILES							
	18. TOTAL DRAINAGE AREA .35 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 22.6 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA .35 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH 1.38 MILES		AV. WIDTH .38 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.							
	21. MAX. ELEV. 3925		MIN. ELEV. 1817		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 61		5.16	5.16								
	Sep 69		8.00	13.16								
	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 61		16.39		No record of inflow.							
	Sep 69		27.36									
	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 61		.56	.11	.31	.56	.11	.31				
Sep 69		7.08	.89	2.54	7.64	.58	1.66					
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															
<p>1/ Item 25 - Temperature taken at Pasadena, California.</p> <p>2/ Item 32 - Debris basin capacity varies. Debris excavated at various times.</p> <p>3/ Item 37 - Sedimentation values computed by LACFCD based on complete water year.</p>															
48. AGENCY MAKING SURVEY				LACFCD			50. DATE			10 Feb 72					
49. AGENCY SUPPLYING DATA				C of E											

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

ZACHAU DEBRIS BASIN (Revised)

NAME OF RESERVOIR

70-840c
DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM Zachau Canyon			3. STATE California									
	4. SEC. 7 TWP. 2N RANGE 13W			5. NEAREST P.O. Tujunga			6. COUNTY Los Angeles									
	7. LAT 34° 16' 03" LONG. 118 17' 24"			8. TOP OF DAM ELEVATION 1823			9. SPILLWAY CREST ELEV. 1817									
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	a. FLOOD CONTROL															
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										Aug 56					
	f. CONSERVATION															
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR .046				MILES		AV. WIDTH OF RESERVOIR .039				MILES					
	18. TOTAL DRAINAGE AREA .35				SQ. MI.		22. MEAN ANNUAL PRECIPITATION 22.6				INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA .35				SQ. MI.		23. MEAN ANNUAL RUNOFF				INCHES					
	20. LENGTH 1.38		MILES		AV. WIDTH .38		MILES		24. MEAN ANNUAL RUNOFF				AC.-FT.			
	21. MAX. ELEV. 3925		MIN. ELEV. 1817		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 61		5.16		5.16											
	Sep 69		8.0		13.16											
	Sep 78		9.0		22.16											
	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 61		16.39		No record of inflow.											
	Sep 69		27.36													
	Sep 78		27.09													
	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 61		.56		.11		.31		.56		.11		.31				
Sep 69		7.08		.89		2.54		7.64		.58		1.66				
Sep 78		5.45		.61		1.74		13.09		.59		1.69				
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

1/ Item 25 - Temperature taken at Pasadena, California.

2/ Item 32 - Debris basin capacity varies. Debris excavated at various times.

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