

RESERVOIR SEDIMENTATION
DATA SUMMARY

PARADISE DEBRIS BASIN

70-51

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER LAGECD			2. RIVER Paradise			3. STATE Calif.				
	4. SEC. TWP.		RANGE		5. NEAREST TOWN La Canada			6. COUNTY Los Angeles			
	7. STREAM BED ELEV. 1228*				8. TOP OF DAM ELEV. 1241.0			9. SPILLWAY CREST ELEV. 1235.0			
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										16. DATE NORMAL OPER. BEGAN
	d. IRRIGATION										
	e. CONSERVATION										
	f. INACTIVE										June 1944
WATERSHED	17. LENGTH OF RESERVOIR .05 MILES				AV. WIDTH OF RESERVOIR .02 MILES						
	18. TOTAL DRAINAGE AREA .96 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 23.9 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA .96 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES						
	20. LENGTH 1.27 MILES		AV. WIDTH .76 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.						
	21. MAX. ELEV. 1980		MIN. ELEV. 1228*		25. CLIMATIC CLASSIFICATION Subhumid						
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. ML			
	Sept. 1945	1	1								
	" 1946	1	2								
	" 1947	1	3								
	" 1948	1	4								
	" 1949	1	5								
	" 1950	1	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			
	Sept. 1945	21.2									
" 1946	19.5										
" 1947	23.1										
" 1948	10.4		No record of inflow.								
" 1949	12.4										
" 1950	15.7										
26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE-FEET 2/			38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET							
	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. ML.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. ML.-YR.					
Sept. 1945	1.13	1.13	1.18	1.13	1.13	1.18					
" 1946	.88	.88	.92	2.01	1.00	1.04					
" 1947	.96	.96	1.00	2.97	.99	1.03					
" 1948	.13	.13	.14	3.10	.78	.81					
" 1949	.10	.10	.10	3.20	.64	.67					
" 1950	0	0	0	3.20	.53	.55					
26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PER SQ. ML.-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"

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

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

RESERVOIR SEDIMENTATION
DATA SUMMARY

PARADISE DEBRIS BASIN

70-51 b

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. RIVER Paradise Canyon			3. STATE California		
	4. SEC. TWP. RANGE		5. NEAREST TOWN La Canada			6. COUNTY Los Angeles			
	7. STREAM BED ELEV. 1,228 (est.)			8. TOP OF DAM ELEV. 1,241.0			9. SPILLWAY CREST ELEV. 1,235.0		
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								
	f. INACTIVE					June 1944			
17. LENGTH OF RESERVOIR .05 MILES				AV. WIDTH OF RESERVOIR .02 MILES					
WATERSHED	18. TOTAL DRAINAGE AREA .58 SQ.MI.			22. MEAN ANNUAL PRECIPITATION 23.9 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA .58 SQ.MI.			23. MEAN ANNUAL RUNOFF INCHES					
	20. LENGTH 1.27 MILES		AV. WIDTH .76 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.				
	21. MAX. ELEV. 1,980		MIN. ELEV. 1,235.0		25. CLIMATIC CLASSIFICATION Subhumid				
	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.	
Apr 1952 Mar 1956	1.4 3.9	7.4 11.3				1/			
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		
	Apr 1952 Mar 1956	32.5 16.8	No record of inflow						
SURVEY DATA	26. DATE OF SURVEY	37. <u>2/</u> 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.		
	Apr 1952 Mar 1956	4.37 2.22	3.12 .57	5.38 .98	7.57 9.79	1.02 .86	1.77 1.50		
SURVEY DATA	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
1/ Item 32 - Capacity of debris basin varies. Debris excavated at various times.
2/ Item 37 - Sedimentation values computed by LACFCD are based on complete water year.

48. AGENCY SUPPLYING DATA LACFCD & C of E

49. DATE Dec 1956