

RESERVOIR SEDIMENTATION
DATA SUMMARY

Altadena Debris Basin

70-37b

NAME OF RESERVOIR (sheet 1 of 2)

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. RIVER Rubio Wash			3. STATE Calif.			
	4. SEC. TWP. RANGE			5. NEAREST TOWN Altadena			6. COUNTY Los Angeles			
	7. STREAM BED ELEV. 1169.5			8. TOP OF DAM ELEV. 1185.6			9. SPILLWAY CREST ELEV. 1181.7			
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					1946				
WATERSHED	17. LENGTH OF RESERVOIR .04 MILES			AV. WIDTH OF RESERVOIR .04 MILES						
	18. TOTAL DRAINAGE AREA .65 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 22.5 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA .65 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES						
	20. LENGTH 1.81 MILES AV. WIDTH .36 MILES			24. MEAN ANNUAL RUNOFF AC.-FT.						
	21. MAX. ELEV. 3,650 MIN. ELEV. 1181.7			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. 1947	1	1							
	Sept. 1948	1	2							
	Sept. 1949	1	3							
	Sept. 1950	1	4							
	Mar. 1952	1.5	5.5							
	Feb. 1956	3.9	9.4							
	Sept. 1957	1.6	11.0							
	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. 1947	25.0	No record of inflow.								
Sept. 1948	11.5									
Sept. 1949	13.1									
Sept. 1950	17.0									
Mar. 1952	25.8									
Feb. 1956	19.1									
Sept. 1957	13.7									
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. 1947	.87	.87	1.34	.87	.87	1.34				
Sept. 1948	1.25	1.25	1.92	2.12	1.06	1.63				
Sept. 1949	.88	.88	1.35	3.00	1.00	1.54				
Sept. 1950	1.03	1.03	1.58	4.03	1.01	1.55				
Mar. 1952	1.71	1.14	1.75	5.74	1.04	1.60				
Feb. 1956	2.80	.72	1.11	8.54	.91	1.40				
Sept. 1957	1.28	.80	1.23	9.82	.89	1.37				
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 IACFCD are based on complete water year.

48. AGENCY SUPPLYING DATA
IACFCD & C of E

49. DATE 11-21-61

RESERVOIR SEDIMENTATION
DATA SUMMARY

Altadena Debris Basin

70-37b

NAME OF RESERVOIR (sheet 2 of 2)

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. RIVER Rubio Wash			3. STATE Calif.									
	4. SEC. TWP. RANGE			5. NEAREST TOWN Altadena			6. COUNTY Los Angeles									
	7. STREAM BED ELEV. 1169.5			8. TOP OF DAM ELEV. 1185.6			9. SPILLWAY CREST ELEV. 1181.7									
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															
WATERSHED	17. LENGTH OF RESERVOIR .04 MILES				AV. WIDTH OF RESERVOIR .04 MILES											
	18. TOTAL DRAINAGE AREA .65 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 22.5 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA .65 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH MILES		AV. WIDTH .36 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.											
	21. MAX. ELEV.		MIN. ELEV. 1181.7		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.	
	April 1958		.6		11.6											
	Sept. 1959		1.4		13.0											
	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			
	April 1958		33.94		No record of inflow.											
	Sept. 1959		7.80													
	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.			
	April 1958		3.50		5.83		8.97		13.32		1.15		1.77			
Sept. 1959		2.34		1.67		2.57		15.66		1.20		1.85				
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 as computed by LACFCD are sediment removed from basin and are based on complete water year.

48. AGENCY SUPPLYING DATA
LACFCD & C of E

49. DATE 6 Feb. 1961