

RESERVOIR SEDIMENTATION
DATA SUMMARY

Ruby - Lower Debris Basin

70-79

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. RIVER Ruby Canyon			3. STATE California																									
	4. SEC. TWP. RANGE			5. NEAREST TOWN Sierra Madre			6. COUNTY Los Angeles																									
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV. 833			9. SPILLWAY CREST ELEV. 828.0																									
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										Dec 1955																					
	e. CONSERVATION																															
	f. INACTIVE																															
WATERSHED	17. *LENGTH OF RESERVOIR				MILES				AV. WIDTH OF RESERVOIR				MILES																			
	18. TOTAL DRAINAGE AREA				.10				SQ. MI.				22. MEAN ANNUAL PRECIPITATION				22.00				INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA				.10				SQ. MI.				23. MEAN ANNUAL RUNOFF				INCHES															
	20. LENGTH				.48				MILES				AV. WIDTH				.24				MILES				24. MEAN ANNUAL RUNOFF				AC.-FT.			
	21. MAX. ELEV.				1200				MIN. ELEV.				828				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. MI.																	
	Sep 1959		3.8		3.8																											
	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 1959		21.85		No record of inflow																											
	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.																			
	Sep 1959		1.1		.29		2.9		1.1		.29		2.9																			
	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
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>* Item 17 - No dimensions available.</p> <p>** Item 32 - Debris basin capacity varies. Debris excavated at various times.</p>														
48. AGENCY SUPPLYING DATA										LACFCD & C of E				
										49. DATE 8 Feb 60				

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

RUBY DEBRIS BASIN (Lower) (Revised)

NAME OF RESERVOIR

70-79b

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM Ruby Canyon			3. STATE Calif									
	4. SEC. 23 TWP. 1N RANGE 11W			5. NEAREST P.O. Sierra Madre			6. COUNTY Los Angeles									
	7. LAT 34°09 50 " LONG 117°59 59 "			8. TOP OF DAM ELEVATION 833			9. SPILLWAY CREST ELEV. 828									
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										Dec 55					
	f. CONSERVATION															
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR .051 MILES				AV. WIDTH OF RESERVOIR .029 MILES											
	18. TOTAL DRAINAGE AREA .10 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 22.0 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA .10 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH .48 MILES		AV. WIDTH .24 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.											
	21. MAX. ELEV. 1200		MIN. ELEV. 828		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, <u>2</u> /ACRE-FEET		33. C/I. RATIO, AC.-FT. PER AC.-FT.	
	Sep 62		6.83		6.83											
	Sep 69		7.0		13.83											
	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		19.68		No record of inflow.											
	Sep 69		25.80													
	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		0.31		.05		.50		.31		.05		.50			
Sep 69		8.87		1.27		12.70		9.18		.66		6.60				
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															
<u>1/</u> Item 25 - Temperature taken at Pasadena, California. <u>2/</u> Item 32 - Debris basin capacity 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				50. DATE				8 Feb 72			
49. AGENCY SUPPLYING DATA				C of E											