

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

RUBIO DEBRIS DAM

NAME OF RESERVOIR

70.53 1/4

DATA SHEET NO.

DAM	1. OWNER LACFGD			2. STREAM Rubio Wash			3. STATE Calif									
	4. SEC. 3 TWP. 1N RANGE 12W			5. NEAREST P.O. Altadena			6. COUNTY Los Angeles									
	7. LAT. 34° 11'56" LONG. 118° 07'15"			8. TOP OF DAM ELEVATION 1625.5			9. SPILLWAY CREST ELEV. 1608.3									
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										Apr 44					
	f. CONSERVATION															
g. INACTIVE																
WATERSHED	17. LENGTH OF RESERVOIR 0.09 MILES				AV. WIDTH OF RESERVOIR 0.05 MILES											
	18. TOTAL DRAINAGE AREA 1.3 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 28.2 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 1.3 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH 1.73 MILES		AV. WIDTH 0.75 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.											
	21. MAX. ELEV. 4685		MIN. ELEV. 1608.3		25. 1/ 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 66		9.4		32.4											
	Sep 69		3.0		35.4											
	Sep 78		9.0		44.4											
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET				36. WATER INFL. TO DATE, AC.-FEET							
					a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		a. MEAN ANNUAL		b. TOTAL TO DATE			
	Sep 66		21.49		No record of inflow.											
	Sep 69		3/													
	Sep 78		19.28													
	26. DATE OF SURVEY		37. 4/ 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 66		25.3		2.69		2.07		31.89		1.42		1.09				
Sep 69		39.1		13.0		10.0		71.0		2.80		2.15				
Sep 78		4.34		.48		.37		75.34		1.70		1.31				
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																	
<u>1/</u> Item 25 - Temperature taken at Pasadena, California. <u>2/</u> Item 32 - Capacity of debris basin varies. Debris excavated at various times. <u>3/</u> Item 34 - Incomplete rainfall record. <u>4/</u> Item 37 - Sedimentation values computed by LACFCD based on complete water year.																	
48. AGENCY MAKING SURVEY				LACFCD													
49. AGENCY SUPPLYING DATA				C of E													
														50. DATE		Feb 79	

RESERVOIR SEDIMENTATION
DATA SUMMARY

RUBIO DEBRIS BASIN

70-53 b

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. RIVER Rubio Wash			3. STATE California									
	4. SEC. TWP. RANGE			5. NEAREST TOWN Altadena			6. COUNTY Los Angeles									
	7. STREAM BED ELEV. 1,582.1			8. TOP OF DAM ELEV. 1,625.5			9. SPILLWAY CREST ELEV. 1,608.3									
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										16. DATE NORMAL OPER. BEGAN Apr 1944					
	b. POWER															
	c. WATER SUPPLY															
	d. IRRIGATION															
	e. CONSERVATION															
f. INACTIVE																
WATERSHED	17. LENGTH OF RESERVOIR .09 MILES				AV. WIDTH OF RESERVOIR .05 MILES											
	18. TOTAL DRAINAGE AREA 1.3 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 28.2 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 1.3 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH 1.73 MILES		AV. WIDTH .75 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.											
	21. MAX. ELEV. 4,685		MIN. ELEV. 1,608.3		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.	
	Apr 1944															
	Sep 1946		3		3											
	Sep 1947		1		4											
	Sep 1948		1		5											
	Sep 1949		1		6											
	Sep 1950		1		7											
	Sep 1952		2		9											
	Apr 1957		4.7		13											
	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		d. MEAN ANNUAL		e. TOTAL TO DATE			
	Sep 1946		27.2		No record of inflow											
	Sep 1947		30.7													
Sep 1948		12.7														
Sep 1949		16.1														
Sep 1950		17.4														
Sep 1952		30.08														
Apr 1957		21.24														
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 1946		2.66		.89		.69		2.66		.89		.68				
Sep 1947		.42		.42		.32		3.08		.77		.59				
Sep 1948		0		0		0		3.08		.62		.48				
Sep 1949		0		0		0		3.08		.51		.39				
Sep 1950		0		0		0		3.08		.44		.34				
Sep 1952		3.20		1.60		1.23		6.28		.70		.54				
Apr 1957		.31		.07		.05		6.59		.51		.39				
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 based on complete water year.

48. AGENCY SUPPLYING DATA LACFCD & C of E

49. DATE 15 Jan 1958

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

RUBIO DEBRIS DAM
NAME OF RESERVOIR

70.53 c

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	4. SEC. 3 TWP. 1N RANGE 12W			5. NEAREST P O. Altadena			6. COUNTY Los Angeles									
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	a. FLOOD CONTROL															
	b. MULTIPLE USE															
	c. POWER										16. DATE NORMAL OPER. BEGAN					
	d. WATER SUPPLY										Apr 44					
	e. IRRIGATION															
	f. CONSERVATION															
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WATERSHED	17. LENGTH OF RESERVOIR 0.09 MILES				AV. WIDTH OF RESERVOIR 0.05 MILES											
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	20. LENGTH 1.73 MILES AV. WIDTH 0.75 MILES				24. MEAN ANNUAL RUNOFF AC.-FT.											
	21. MAX. ELEV. 4685 MIN. ELEV. 1608.3				25. ANNUAL TEMP. MEAN 62.2° RANGE 48.8°-75.6°											
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	Sep 66		9.4		22.4											
	Sep 69		3.0		25.4											
	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 66		21.49													
	Sep 69		3/													
	26. DATE OF SURVEY		37. 4/ PERIOD CAPACITY LOSS, ACRE-FEET				38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET									
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	Sep 66		25.3		2.69		2.07		31.89		1.42		1.09			
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				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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	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 34 - Incomplete rainfall record.
4/ Item 37 - Sedimentation values computed by LACFCD based on complete wateryear.

48. AGENCY MAKING SURVEY LACFCD
49. AGENCY SUPPLYING DATA C of E
50. DATE 26 Jan 70