

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

Maddock Debris Basin

NAME OF RESERVOIR

70-73b

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. STREAM <b>Maddock Canyon</b>			3. STATE <b>California</b>								
	4. SEC. <b>20</b> TWP. <b>IN</b> RANGE <b>OW</b>			5. NEAREST P.O. <b>Duarte</b>			6. COUNTY <b>Los Angeles</b>								
	7. LA. <b>34° 08' 50"</b> LONG. <b>117° 57' 05"</b>			8. TOP OF DAM ELEVATION <b>904</b>			9. SPILLWAY CREST ELEV. <b>896</b>								
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										16. DATE NORMAL OPER. BEGAN  <b>Jan 55</b>				
	b. MULTIPLE USE														
	c. POWER														
	d. WATER SUPPLY														
	e. IRRIGATION														
	f. CONSERVATION														
	g. INACTIVE														
17. LENGTH OF RESERVOIR <b>.04</b> MILES		AV. WIDTH OF RESERVOIR <b>.06</b> MILES													
WATERSHED	18. TOTAL DRAINAGE AREA <b>.25</b> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <b>25.0</b> INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA <b>.25</b> SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH <b>.78</b> MILES		AV. WIDTH <b>.32</b> MILES		24. MEAN ANNUAL RUNOFF AC.-FT.										
	21. MAX. ELEV. <b>2525</b>		MIN. ELEV. <b>890</b>		25. ANNUAL TEMP MEAN <b>62.2°</b> RANGE <b>48.8°-75.6°</b>										
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.		
	Mar 56		1.2	1.2											
	Sep 59		3.5	4.7											
	Sep 67		8.0	12.7											
	Sep 69		2.0	14.7											
	Sep 70		1.0	15.7											
	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		
	Mar 56		22.30		No record of inflow.										
	Sep 59		19.70												
Sep 67		20.45													
Sep 69		3/													
Sep 70		15.65													
26. DATE OF SURVEY		37. <b>4/</b> 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								
Mar 56		5.36	4.46	17.8	5.36	4.46	17.8								
Sep 59		3.39	.97	3.88	8.75	1.86	7.44								
Sep 67		3.60	.45	1.8	12.35	.97	3.88								
Sep 69		7.87	3.94	15.8	20.2	1.37	5.48								
Sep 70		0.74	0.74	2.96	20.9	1.33	5.34								
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, Calif.

2/ Item 32 - Capacity of debris varies. Debris excavated at various times.

3/ Item 34 - Incomplete rainfall record.

4/ 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 11 Feb 71