

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

Emerald-East Debris Basin

NAME OF RESERVOIR

70-121

DATA SHEET NO.

DAM	1. OWNER <u>LACFCD</u>			2. STREAM <u>No Name</u>			3. STATE <u>California</u>								
	4. SEC. <u>37</u> TWP. <u>1N</u> RANGE <u>8W</u>			5. NEAREST P.O. <u>La Verne</u>			6. COUNTY <u>Los Angeles</u>								
	7. LAT <u>34° 07' 39"</u> LONG. <u>117° 45' 55"</u>			8. TOP OF DAM ELEVATION <u>1204.0</u>			9. SPILLWAY CREST ELEV. <u>1192.0</u>								
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										1964				
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN				
	c. POWER										1964-65				
	d. WATER SUPPLY														
	e. IRRIGATION														
	f. CONSERVATION														
	g. INACTIVE														
WATERSHED	17. LENGTH OF RESERVOIR <u>1/</u> MILES				AV. WIDTH OF RESERVOIR <u>1/</u> MILES										
	18. TOTAL DRAINAGE AREA <u>0.32</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION _____ INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.32</u> SQ. MI.				23. MEAN ANNUAL RUNOFF _____ INCHES										
	20. LENGTH <u>1.44</u> MILES		AV. WIDTH <u>.22</u> MILES		24. MEAN ANNUAL RUNOFF _____ AC.-FT.										
	21. MAX. ELEV. <u>1685.0</u>		MIN. ELEV. <u>1184.0</u>		25. ANNUAL TEMP MEAN <u>62.2°</u> RANGE <u>48.8°-75.6°</u>										
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.		
	Sep 76		12	12							3/				
	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 76		17.26		No record of Inflow.										
	26. DATE OF SURVEY		37. <u>4/</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 76		2.98		.25		.78		2.98		.25		.78		
	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

1/ Item 17 - No dimensions available.
 2/ Item 25 - Temperature taken at Pasadena, California.
 3/ Item 32 - Capacity of debris basin varies. Debris excavated at various times
 4/ Item 37 - Sedimentation values computed by LACFCD are based on complete water year.