

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

WARD DEBRIS BASIN (Upper)

NAME OF RESERVOIR

70-85a

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM Ward Canyon			3. STATE Calif					
	4. SEC. Land TWP. Gran RANGE			5. NEAREST P.O. La Crescenta			6. COUNTY Los Angeles					
	7. LAT. 34°14'35" LONG. 118°14'55"			8. TOP OF DAM ELEVATION 2035			9. SPILLWAY CREST ELEV. 2030.3					
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										Nov 56	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR .07 MILES				AV. WIDTH OF RESERVOIR .03 MILES							
	18. TOTAL DRAINAGE AREA .10 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 26.1 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA .10 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH MILES		AV. WIDTH .17 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.							
	21. MAX. ELEV. MIN. ELEV. 2025.6				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, 2/ ACRE-FEET		33. C/I. RATIO, AC.-FT. PER AC.-FT.		
	Sep 57		.8	.8								
	Sep 58		1.0	1.8								
	Sep 59		1.0	2.8								
	Sep 67		8.0	10.8								
	Sep 68		1.0	11.8								
	Sep 69		1.0	12.8								
	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 57		18.63		No record of inflow							
	Sep 58		38.32									
	Sep 59		12.74									
	Sep 67		22.62									
Sep 68		18.89										
Sep 69		50.15										
26. DATE OF SURVEY		37. 3/ 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 57		2.41	3.01	30.1	2.41	3.01	30.1					
Sep 58		3.93	3.93	39.3	6.34	3.52	35.2					
Sep 59		1.75	1.75	17.5	8.09	2.89	28.9					
Sep 67		.31	.04	0.4	8.40	.78	7.8					
Sep 68		.31	.31	3.1	8.71	.74	7.4					
Sep 69		2.29	2.29	22.9	11.00	.859	8.59					
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
	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 basin varies. Debris excavated at various times. 3/ 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												26 Jan 70		

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

WARD DEBRIS BASIN (Upper)
NAME OF RESERVOIR

852
70-62
DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM Ward Canyon			3. STATE California							
	4. SEC. Land TWP. Grant RANGE			5. NEAREST P.O. La Crescenta			6. COUNTY Los Angeles							
	7. LAT. 34° 14' 35" LONG. 118° 14' 55"			8. TOP OF DAM ELEVATION 2035			9. SPILLWAY CREST ELEV. 2030.3							
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 NOR-MAL OPER. BEGAN			
	e. IRRIGATION													
	f. CONSERVATION													
	g. INACTIVE										Nov 56			
WATERSHED	17. LENGTH OF RESERVOIR .07 MILES				AV. WIDTH OF RESERVOIR .03 MILES									
	18. TOTAL DRAINAGE AREA .10 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 26.1 INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA .10 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES									
	20. LENGTH .58 MILES		AV. WIDTH .17 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.									
	21. MAX. ELEV. 3455		MIN. ELEV. 2025.6		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, 2/ACRE-FEET		33. C/I. RATIO, AC.-FT. PER AC.-FT.	
	Sep 73		4.0	16.8										
	Sep 76		3.0	19.8										
	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 73		18.05		No record of inflow.									
	Sep 76		23.25											
	26. DATE OF SURVEY		37. 3/ 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 73		.81	.20	2.0	11.81	.703	7.03						
Sep 76		.87	.29	2.9	12.68	.64	3.77							
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
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 basin varies. Debris excavated at various times.
 3/ 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 77