

RESERVOIR SEDIMENTATION  
DATA SUMMARY

WARD DEBRIS BASIN

70-62

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. RIVER <b>Ward</b>			3. STATE <b>Calif.</b>									
	4. SEC. <b>TWP. 2 N RANGE 13 W</b>			5. NEAREST TOWN <b>La Crescenta</b>			6. COUNTY <b>Los Angeles</b>									
	7. STREAM BED ELEV. <b>1618.0</b>			8. TOP OF DAM ELEV. <b>1631.0</b>			9. SPILLWAY CREST ELEV. <b>1623.0</b>									
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. 1944					
	e. CONSERVATION															
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR <b>.05</b> MILES				AV. WIDTH OF RESERVOIR <b>.03</b> MILES											
	18. TOTAL DRAINAGE AREA <b>.35 - .64 1/2</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>26.1</b> INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA <b>.35 - .64</b> SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH <b>1.65</b> MILES				AV. WIDTH <b>.39</b> MILES				24. MEAN ANNUAL RUNOFF AC.-FT.							
	21. MAX. ELEV. <b>3480</b>				MIN. ELEV. <b>1618.0</b>				25. CLIMATIC CLASSIFICATION <b>Subhumid</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 <sup>2</sup>		33. C/W RATIO AC.-FT. PER SQ. MI.	
	Sept. 1945		1		1											
	" 1946		1		2											
	" 1947		1		3											
	" 1948		1		4											
	" 1949		1		5											
	" 1950		1		6											
	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			
	Sept. 1945		25.7		No record of inflow											
	" 1946		21.0													
	" 1947		25.8													
" 1948		11.3														
" 1949		15.3														
" 1950		19.4														
26. DATE OF SURVEY		37. PERIOD SEDIMENT DEPOSITS ACRE-FEET <b>3/</b>				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.				
Sept. 1945		.18		.18		.51		.18		.18		.51				
" 1946		.57		.57		1.63		.75		.38		1.09				
" 1947		1.70		1.70		4.86		2.45		.82		2.34				
" 1948		.64		.64		1.00		3.09		.77		1.20				
" 1949		.23		.23		.36		3.32		.66		1.03				
" 1950		.71		.71		1.11		4.03		.67		1.05				
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

1/ Item 18. Drainage area .35 sq. miles thru 1947 - .64 sq. miles after 1947.

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

3/ Item 37. Sedimentation values computed by LACFCD are based on complete water year.

48. AGENCY SUPPLYING DATA LACFCD & C. of E. 49. DATE 12 March 1951

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Ward Debris Basin (Lower)

70-62b

NAME OF RESERVOIR

DATA SHEET NO.

DAM		1. OWNER <b>LACFCD</b>		2. RIVER <b>Ward Canyon</b>		3. STATE <b>California</b>		
		4. SEC. <b>TWP.</b> RANGE		5. NEAREST TOWN <b>La Crescenta</b>		6. COUNTY <b>Los Angeles</b>		
		7. STREAM BED ELEV. <b>1,618.0</b>		8. TOP OF DAM ELEV. <b>1,631.0</b>		9. SPILLWAY CREST ELEV. <b>1,623.0</b>		
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							
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	e. CONSERVATION					Dec 1944		
f. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR		<b>.05</b> MILES		AV. WIDTH OF RESERVOIR		<b>.03</b> MILES	
	18. TOTAL DRAINAGE AREA		<b>.64</b> SQ. MI.		22. MEAN ANNUAL PRECIPITATION		<b>26.1</b> INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA		<b>.64</b> SQ. MI.		23. MEAN ANNUAL RUNOFF		INCHES	
	20. LENGTH <b>1.65</b> MILES		AV. WIDTH <b>.39</b> MILES		24. MEAN ANNUAL RUNOFF		AC.-FT.	
	21. MAX. ELEV. <b>3,480</b>		MIN. ELEV. <b>1,618</b>		25. CLIMATIC CLASSIFICATION		<b>Subhumid</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 <b>1/</b> ACRE-FEET	33. C/W RATIO AC.-FT. PER SQ. ML
	Feb 1952	1.3	7.3					
	Apr 1952	.2	7.5					
	Sep 1956	4.4	11.9					
	Sep 1958	2.0	13.9					
	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	
	Feb 1952	33.08						
	Apr 1952	33.08						
	Sep 1956	19.47						
Sep 1958	20.85							
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. ML.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. ML.-YR.		
Feb 1952	5.33	4.10	6.41	9.36	1.28	2.00		
Apr 1952	2.11	-	-	11.5	-	-		
Sep 1956	1.44	.33	.52	12.9	1.08	1.69		
Sep 1958	.9	.45	.70	13.8	.99	1.55		
26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PER SQ. ML.-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, CHEST 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.

48. AGENCY SUPPLYING DATA LACFCD & C of E

49. DATE July 1962