

RESERVOIR SEDIMENTATION WEST RAVINE DEBRIS BASIN
DATA SUMMARY (in 2 sheets)

70-63

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. RIVER West Ravine			3. STATE Calif.									
	4. SEC. TWP. 1 N RANGE 12 W			5. NEAREST TOWN Altadena			6. COUNTY Los Angeles									
	7. STREAM BED ELEV. 1493.9			8. TOP OF DAM ELEV. 1505.5			9. SPILLWAY CREST ELEV. 1501.9									
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															
	e. CONSERVATION															
	f. INACTIVE										Dec. 1935					
WATERSHED	17. LENGTH OF RESERVOIR .08 MILES				AV. WIDTH OF RESERVOIR .02 MILES											
	18. TOTAL DRAINAGE AREA .25 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 25.9 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA .25 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH 1.15 MILES				AV. WIDTH .22 MILES											
	21. MAX. ELEV. 2980				MIN. ELEV. 1493.9											
				24. MEAN ANNUAL RUNOFF AC.-FT.												
				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.	
	Sept. 1936		1		1											
	" 1937		1		2											
	" 1938		1		3											
	" 1940		2		5											
	" 1941		1		6											
	" 1942		1		7											
	" 1943		1		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			
	Sept. 1936		20.5		No record of inflow.											
	" 1937		33.8													
	" 1938		38.1													
" 1940		22.1														
" 1941		53.7														
" 1942		16.0														
" 1943		41.3														
26. DATE OF SURVEY		37. PERIOD SEDIMENT DEPOSITS ACRE-FEET ^{2/}				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. 1936		11.96		11.96		47.85		11.96		12.0		47.85				
" 1937		11.36		11.36		45.42		23.3		11.7		46.6				
" 1938		18.46		18.5		73.85		41.8		13.9		55.6				
" 1940		1.80		.90		3.60		43.6		8.72		34.9				
" 1941		5.34		5.34		21.4		48.9		8.15		32.6				
" 1942		.11		.11		.44		49.0		7.00		28.0				
" 1943		5.06		5.06		20.2		54.1		6.76		27.0				
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		

RESERVOIR SEDIMENTATION
DATA SUMMARY

WEST RAVINE DEBRIS BASIN

70-63a

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER			2. RIVER			3. STATE							
	4. SEC.		TWP.	RANGE		5. NEAREST TOWN			6. COUNTY					
	7. STREAM BED ELEV.				8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.						
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													
	e. CONSERVATION													
	f. INACTIVE													
WATERSHED	17. LENGTH OF RESERVOIR				MILES		AV. WIDTH OF RESERVOIR				MILES			
	18. TOTAL DRAINAGE AREA				SQ. MI.		22. MEAN ANNUAL PRECIPITATION				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				SQ. MI.		23. MEAN ANNUAL RUNOFF				INCHES			
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF				AC.-FT.	
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION									
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.		
	Sept. 1944		1	9										
	" 1945		1	10										
	" 1946		1	11										
	" 1947		1	12										
	" 1948		1	13										
	" 1949		1	14										
	" 1950		1	15										
	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. 1944		28.8		No record of inflow.									
	" 1945		22.2											
	" 1946		20.7											
	" 1947		24.6											
	" 1948		11.3											
" 1949		13.3												
" 1950		16.3												
26. DATE OF SURVEY		37. PERIOD SEDIMENT DEPOSITS ACRE-FEET			2/		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. 1944		2.00	2.00	8.00	56.1	6.23	24.9							
" 1945		.20	.20	.80	56.3	5.63	22.5							
" 1946		.39	.39	1.56	56.7	5.15	20.6							
" 1947		.38	.38	1.52	57.1	4.76	19.0							
" 1948		.005	.005	.02	57.1	4.39	17.6							
" 1949		0	0	0	57.1	4.08	16.3							
" 1950		0	0	0	57.1	3.81	15.2							
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 32. Capacity of debris basin varies. Debris excavated at various times.
 2/ Item 37. Sedimentation values computed by LACFOD are based on complete water year.

48. AGENCY SUPPLYING DATA **LACFOD & Co. of E.** 49. DATE 12 March 1951

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

WEST RAVINE DEBRIS BASIN (Revised)

NAME OF RESERVOIR

70-63 c

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM West Ravine Canyon			3. STATE California									
	4. SEC. 33 TWP. 2N RANGE 12W			5. NEAREST P O Altadena			6. COUNTY Los Angeles									
	7. LAT 34° 12' 50" LONG 118° 08' 50"			8. TOP OF DAM ELEVATION 1505.5			9. SPILLWAY CREST ELEV. 1501.9									
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										15. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										Dec 35					
	f. CONSERVATION															
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.08 MILES				AV. WIDTH OF RESERVOIR 0.02 MILES											
	18. TOTAL DRAINAGE AREA .25 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 24.6 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA .25 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH 1.15 MILES		AV. WIDTH .22 MILES		24. MEAN ANNUAL RUNOFF AC. FT.											
	21. MAX. ELEV. 2,980		MIN. ELEV. 1501.9		25. ANNUAL TEMP MEAN 62.2° RANGE 43.8°-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, ACRE-FEET		33. C-I RATIO AC. FT. PER AC. FT.	
	Sep 36		.83		.83											
	Sep 37		1.0		1.83											
	Sep 38		1.0		2.83											
	Sep 41		3.0		5.83											
	Sep 43		2.0		7.83											
	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 36		22.28													
	Sep 37		33.80													
	Sep 38		38.10													
	Sep 41		32.63													
	Sep 43		28.65													
	26. DATE OF SURVEY		37. <u>3/</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 36		11.96		14.41		57.64		11.96		14.41		57.64				
Sep 37		11.36		11.36		45.44		23.32		12.74		50.97				
Sep 38		18.51		18.51		74.04		41.83		14.78		59.12				
Sep 41		7.14		2.38		9.52		48.97		8.40		33.60				
Sep 43		6.37		3.19		12.76		55.34		7.07		28.27				
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														
<p>1/ Item 25 - Temperature taken at Pasadena, California.</p> <p>2/ Item 32 - Capacity of debris basin varies. Debris excavated at various times.</p> <p>3/ Item 37 - Sedimentation values as computed by LACFCD are sediment removed from basin and are based on complete water year.</p>														
48. AGENCY MAKING SURVEY	LACFCD													
49. AGENCY SUPPLYING DATA	C of E			50. DATE 10 Feb 72										

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

WEST RAVINE DEBRIS BASIN (Revised)

NAME OF RESERVOIR

70-63 C

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM W. Ravine Canyon		3. STATE Calif		
	4. SEC. 33 TWP. 2N RANGE 12W		5. NEAREST P O Altadena		6. COUNTY Los Angeles			
	7. LAT. 34° 12' 50" LONG. 118° 08' 50"			8. TOP OF DAM ELEVATION 1505.5		9. SPILLWAY CREST ELEV. 1501.9		
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							
	f. CONSERVATION							
	g. INACTIVE					Dec 35		
WATERSHED	17. LENGTH OF RESERVOIR 0.08 MILES			AV. WIDTH OF RESERVOIR 0.02 MILES				
	18. TOTAL DRAINAGE AREA .25 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 24.6 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA .25 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES				
	20. LENGTH 1.15 MILES		AV. WIDTH .22 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.			
	21. MAX. ELEV. 2980		MIN. ELEV. 1501.9		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, ACRE-FEET	33. CAP. RATIO, AC.-FT PER AC.-FT.
	Sep 52	9	16.83					
	Sep 64	12	28.83					
	Sep 68	4	32.83					
	Sep 69	1	33.83					
	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 52	20.92	No record of inflow					
	Sep 64	17.29						
	Sep 68	26.26						
	Sep 69	47.28						
	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 52	6.04	.67	2.68	61.38	3.65	14.59	
	Sep 64	3.23	.27	1.08	64.61	2.24	8.96	
Sep 68	8.49	2.12	8.49	73.10	2.23	8.91		
Sep 69	9.84	9.84	39.36	82.94	2.45	9.81		
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, FPM		
		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 37 - Sediment values as computed by LACFCD are sediment removed from basin and are based on complete water year.															
48. AGENCY MAKING SURVEY				LACFCD											
49. AGENCY SUPPLYING DATA				C of E				50. DATE 9 Feb 72							