

RESERVOIR SEDIMENTATION  
DATA SUMMARY

EAGLE DEBRIS BASIN

70-41b

NAME OF RESERVOIR (Sheet 1 of 2)

DATA SHEET NO.

DAM	1. OWNER <b>LACFCO</b>			2. RIVER <b>Eagle Canyon</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>1870.2</b>			8. TOP OF DAM ELEV. <b>1895.2</b>			9. SPILLWAY CREST ELEV. <b>1880.2</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																
	f. INACTIVE										Oct. 1936						
WATERSHED	17. LENGTH OF RESERVOIR <b>.08</b> MILES				AV. WIDTH OF RESERVOIR <b>.03</b> MILES												
	18. TOTAL DRAINAGE AREA <b>.61</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>27.4</b> INCHES												
	19. NET SEDIMENT CONTRIBUTING AREA <b>.61</b> SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES												
	20. LENGTH <b>1.35</b> MILES				AV. WIDTH <b>.45</b> MILES												
	24. MEAN ANNUAL RUNOFF AC.-FT.				25. CLIMATIC CLASSIFICATION <b>Subhumid</b>												
SURVEY DATA	26. DATE OF SURVEY		27. PERIOD YEARS		28. ACCL. YEARS		26. DATE OF SURVEY		27. PERIOD YEARS		28. ACCL. YEARS		32. CAPACITY ACRE-FEET		33. C/W RATIO AC.-FT. PER SQ. MI.		
	Oct. 1936		2		2		Sept. 1946		1		10						
	Sept. 1938		1		3		" 1947		1		11						
	" 1939		2		5		" 1948		1		12						
	" 1941		1		6		" 1949		1		13						
	" 1942		1		7		" 1950		1		14						
	" 1943		1		8												
	" 1944		1		9												
	" 1945																
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE-FEET								
	Sept. 1938		42.1		Sept. 1946		22.1		No record of inflow.								
	" 1939		29.6		" 1947		27.1										
	" 1941		38.5		" 1948		11.9										
	" 1942		19.7		" 1949		16.1										
	" 1943		47.1		" 1950		20.3										
" 1944		33.0															
" 1945		27.0															
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. MI.-YR.		a. TOTAL TO DATE					b. AV. ANNUAL		c. PER SQ. MI.-YR.		
Sept. 1938		25.83		12.9		21.2		25.8					12.9		21.2		
" 1939		7.16		7.16		11.7		33.0		11.0		18.0					
" 1941		8.58		4.29		7.03		41.6		8.32		13.6					
" 1942		.21		.21		.34		41.8		6.97		11.4					
" 1943		9.57		9.57		15.7		51.4		7.34		12.0					
" 1944		2.80		2.80		4.59		54.2		6.78		11.1					
" 1945		.68		.68		1.11		54.8		6.09		9.98					
Sept. 1946		.36		.36		.59		55.2		5.52		9.05					
" 1947		.25		.25		.41		55.4		5.04		8.26					
" 1948		.04		.04		.07		55.5		4.63		7.59					
" 1949		0		0		0		55.5		4.27		7.00					
" 1950		0		0		0		55.5		3.96		6.49					
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	-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.

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

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE AR  
CORPS OF ENGINEERS

Eagle Debris Basin

NAME OF RESERVOIR

70-41c

DATA SHEET NO.

DAM	1. OWNER <b>LACFCO</b>			2. STREAM <b>Eagle Canyon</b>			3. STATE <b>California</b>								
	4. SEC. <b>Land TWP. Grant RANGE</b>			5. NEAREST P.O. <b>La Cracenta</b>			6. COUNTY <b>Los Angeles</b>								
	7. LAT <b>34° 14' 06" LONG 118° 12' 03"</b>			8. TOP OF DAM ELEVATION <b>1895</b>			9. SPILLWAY CREST ELEV. <b>1880</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 BEG				
	a. FLOOD CONTROL										16. DATE NORMAL OPER. BEG  <b>Oct '36</b>				
	b. MULTIPLE USE														
	c. POWER														
	d. WATER SUPPLY														
	e. IRRIGATION														
	f. CONSERVATION														
	g. INACTIVE														
17. LENGTH OF RESERVOIR <b>0.08</b> MILES					AV. WIDTH OF RESERVOIR										
WATERSHED	18. TOTAL DRAINAGE AREA <b>0.61</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION										
	19. NET SEDIMENT CONTRIBUTING AREA <b>0.61</b> SQ. MI.				23. MEAN ANNUAL RUNOFF										
	20. LENGTH <b>1.35</b> MILES		AV. WIDTH <b>0.45</b> MILES		24. MEAN ANNUAL RUNOFF										
	21. MAX. ELEV. <b>4150</b>		MIN. ELEV. <b>1850</b>		25. ANNUAL TEMP. MEAN <b>62.2°</b> RANGE <b>48.8°-75.6°</b>										
	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.-F			
Sep 52		2	16.0												
Aug 56		3.9	19.9												
Sep 60		4.1	24.0												
Sep 61		1.0	25.0												
Sep 66		5.0	30.0												
Sep 70		4.0	34.0												
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		30.20		No record of Inflow											
Aug 56		21.60													
Sep 60		20.70													
Sep 61		10.80													
Sep 66		26.09													
Sep 70		29.57													
26. DATE OF SURVEY		37. <b>3 /</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						
Sep 52		3.23	1.62	2.66	58.73		3.67		6.92						
Aug 56		0.04	0.01	0.02	58.77		2.95		4.84						
Sep 60		4.18	1.02	1.67	62.95		2.62		4.30						
Sep 61		1.25	1.25	2.05	64.20		2.57		4.21						
Sep 66		16.1	3.22	5.28	80.30		2.68		4.39						
Sep 70		14.3	3.58	5.87	94.60		2.78		4.56						
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 25 - Temperature taken at Pasadena, California.

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.