

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

Lannon ~~Debris~~ Basin

NAME OF RESERVOIR

70-72a

DATA SHEET NO.

DAM	1. OWNER LACFO		2. STREAM Lannon Wash		3. STATE California			
	4. SEC. 17 TWP. IN RANGE 11W		5. NEAREST P.O. Sierra Madre		6. COUNTY Los Angeles			
	7. LAT 34°10'30" LONG. 118°01'50"		8. TOP OF DAM ELEVATION 1,043		9. SPILLWAY CREST ELEV. 1,035.7			
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					Mar 54		
	f. CONSERVATION							
	g. INACTIVE							
17. LENGTH OF RESERVOIR 1/ MILES		AV. WIDTH OF RESERVOIR 1/ MILES						
18. TOTAL DRAINAGE AREA .25 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 25.17 INCHES						
19. NET SEDIMENT CONTRIBUTING AREA .25 SQ. MI.		23. MEAN ANNUAL RUNOFF		INCHES				
20. LENGTH .76 MILES		AV. WIDTH .33 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.				
21. MAX. ELEV. 3,300		MIN. ELEV. 1016.0		25. ANNUAL TEMP. MEAN 62.2° RANGE 48.8°-75.6°				
WATERSHED	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 1959	5.6	5.6				3/	
	Sep 1962	3.0	8.6					
	Sep 1967	5.0	13.6					
	Sep 1970	3.0	16.6					
SURVEY DATA	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 1959	20.66	No record of inflow					
	Sep 1962	11.87						
	Sep 1967	25.35						
Sep 1970	30.31							
26. DATE OF SURVEY	37. 4/ 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 1959	7.6	1.36	5.44	7.6	1.36	5.44		
Sep 1962	8.5	2.83	11.3	16.1	1.87	7.50		
Sep 1967	.6	0.12	0.48	16.7	1.23	4.92		
Sep 1970	15.3	5.10	20.4	32.0	1.93	7.71		
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 and are based on complete water year.

48. AGENCY MAKING SURVEY LACFCD
 49. AGENCY SUPPLYING DATA C of E

50. DATE 11 Feb 71

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

LANNON DEBRIS BASIN (Revised)
NAME OF RESERVOIR

70-72b

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM Lannon Wash			3. STATE Calif					
	4. SEC. 17 TWP. 1N RANGE 11W			5. NEAREST P.O. Sierra Madre			6. COUNTY Los Angeles					
	7. LAT 34°10'30" LONG 118°01'50"			8. TOP OF DAM ELEVATION 1043			9. SPILLWAY CREST ELEV. 1035.7					
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										MAR 54	
	f. CONSERVATION											
g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR .057 MILES				AV. WIDTH OF RESERVOIR .030 MILES							
	18. TOTAL DRAINAGE AREA .25 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 25.17 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA .25 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH .76 MILES		AV. WIDTH .33 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.							
	21. MAX. ELEV. 3,300		MIN. ELEV. 1016.0		25. 1 st 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. CH. RATIO, AC.-FT. PER AC.-FT.			
	Sep 62		8.6	8.6								
	Sep 67		5.0	13.6								
	Sep 70		3.0	16.6								
	Sep 71		1.0	17.6								
	Sep 74		3.0	20.6								
	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		
	Sep 62		20.60		No record of inflow							
	Sep 67		25.35									
Sep 70		30.31										
Sep 71		24.28										
Sep 74		23.13										
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 62		8.48	0.99	3.96	8.48	0.99	3.96					
Sep 67		.62	.12	.48	9.10	.67	2.68					
Sep 70		12.68	4.23	16.92	21.78	1.31	5.24					
Sep 71		12.94	12.94	51.77	34.72	1.97	7.88					
Sep 74		6.26	2.09	8.36	40.98	1.99	7.96					
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 <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 - Sedimentation values computed by LACFCD and are based on complete water year.															
48. AGENCY MAKING SURVEY				LACFCD											
49. AGENCY SUPPLYING DATA				C of E				50. DATE <u>14 Feb 75</u>							