

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

STURTEVANT DEBRIS BASIN

NAME OF RESERVOIR

70-117

DATA SHEET NO.

DAM	1. OWNER <u>LACFCD</u>			2. STREAM <u>NO NAME</u>			3. STATE <u>CALIFORNIA</u>		
	4. SEC. <u>16</u> TWP. <u>1N</u> RANGE <u>11W</u>			5. NEAREST P.O. <u>Sierra Madre</u>			6. COUNTY <u>Los Angeles</u>		
	7. LAT <u>34° 10' 18"</u> LONG <u>118° 2' 19"</u>			8. TOP OF DAM ELEVATION <u>990.0</u>			9. SPILLWAY CREST ELEV. <u>983.6</u>		
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					Oct 67			
WATERSHED	17. LENGTH OF RESERVOIR <u>.014</u> MILES			AV. WIDTH OF RESERVOIR <u>.010</u> MILES					
	18. TOTAL DRAINAGE AREA <u>0.03</u> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <u>24.6</u> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.03</u> SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH <u>.34</u> MILES		AV. WIDTH <u>.09</u> MILES		24. MEAN ANNUAL RUNOFF		AC-F.T.		
	21. MAX. ELEV. <u>1,640</u>		MIN. ELEV. <u>977.2</u>		25. ANNUAL TEMP MEAN <u>62.2°</u> RANGE <u>48.8°-75.6°</u>				
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 72	5	5				<u>2/</u>		
	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 72	23.18	No record of inflow.						
	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 72	0.19	0.04	1.33	0.19	0.04	1.33		
	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															
<p>1/ Item 25- Temperature taken at Pasadena, Calif.</p> <p>2/ Item 32 -Capacity of debris basin varies. Debris excavated at various times.</p> <p>3/ Item 37- Sedimentation values computed by LACFCD are based on complete water year.</p>															
48. AGENCY MAKING SURVEY LACFCD										50. DATE 12 Feb 73					
49. AGENCY SUPPLYING DATA C of E															

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

STURTEVANT DEBRIS BASIN

NAME OF RESERVOIR

70-117a

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM No Name			3. STATE California					
	4. SEC. 16 TWP. 1N RANGE 11W			5. NEAREST P.O. Sierra Madre			6. COUNTY Los Angeles					
	7. LAT 34° 10' 18" LONG 118° 2' 19"			8. TOP OF DAM ELEVATION 990.0			9. SPILLWAY CREST ELEV. 983.6					
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										Oct 67	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR - .014 MILES				AV. WIDTH OF RESERVOIR .010 MILES							
	18. TOTAL DRAINAGE AREA 0.03 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 24.6 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 0.03 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH 0.34 MILES		AV. WIDTH 0.09 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.							
	21. MAX. ELEV. 1,640		MIN. ELEV. 997.2		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. C/I. RATIO, AC.-FT. PER AC.-FT.			
	Sep 72		5	5								
	Sep 77		5	10								
	Sep 78		1	11								
	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 72		23.18		No record of inflow.							
	Sep 77		28.75									
	Sep 78		43.31									
	26. DATE OF SURVEY		37. 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 72		0.19	0.04	1.33		0.19		0.04		1.33		
Sep 77		0.50	0.10	3.33		0.69		0.07		2.33		
Sep 78		0.12	0.12	4.00		0.81		0.07		2.33		
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, CA.
 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.