

RESERVOIR SEDIMENT
DATA SUMMARY

WILSON DEBRIS BASIN

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

NAME OF RESERVOIR

70-104a

DATA SHEET NO.

DAM	1. OWNER <u>LACFGD</u>			2. STREAM <u>WILSON CANYON</u>			3. STATE <u>California</u>								
	4. SEC. <u>22</u> TWP. <u>3N</u> RANGE <u>15W</u>			5. NEAREST P.O. <u>Olive View</u>			6. COUNTY <u>Los Angeles</u>								
	7. LAT. <u>34° 20' 10"</u> LONG. <u>118° 26' 45"</u>			8. TOP OF DAM ELEVATION <u>1543.0</u>			9. SPILLWAY CREST ELEV. <u>1526.0</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										Jun 1963				
	f. CONSERVATION														
	g. INACTIVE														
WATERSHED	17. LENGTH OF RESERVOIR <u>.25</u> MILES				AV. WIDTH OF RESERVOIR <u>.09</u> MILES										
	18. TOTAL DRAINAGE AREA <u>2.58</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>22.9</u> INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA <u>2.58</u> SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES										
	20. LENGTH <u>1.99</u> MILES		AV. WIDTH <u>1.30</u> MILES		24. MEAN ANNUAL RUNOFF AC.-FT.										
	21. MAX. ELEV. <u>3,832</u>		MIN. ELEV. <u>1493.3</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, 2/ACRE-FEET		33. C/I. RATIO, AC.-FT. PER AC.-FT.		
	Sep 1967		4.2	4.2											
	Sep 1972		5	9.2											
	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 1967		24.65		No record of inflow.										
	Sep 1972		20.67												
	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 1967		56.8			13.5		5.23		56.8		13.5		5.23	
Sep 1972		6.3			1.3		.50		63.1		6.9		2.67		
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, California.</p> <p>2/ Item 32- Debris basin capacity varies. Debris excavated at various times.</p> <p>3/ Item 37- Sediment values computed by LACFCD and are based on complete water year.</p>															
48. AGENCY MAKING SURVEY LACFCD					50. DATE 12 Feb 1973										
49. AGENCY SUPPLYING DATA C of E															

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

Wilson Debris Basin
NAME OF RESERVOIR

70-104-a
DATA SHEET NO.

DAM	1. OWNER <u>LACFCO</u>			2. STREAM <u>Wilson Canyon</u>			3. STATE <u>California</u>					
	4. SEC. <u>22</u> TWP. <u>3N</u> RANGE <u>15W</u>			5. NEAREST P.O. <u>Olive View</u>			6. COUNTY <u>Los Angeles</u>					
	7. LAT. <u>34° 20' 10"</u> LONG. <u>118° 26' 45"</u>			8. TOP OF DAM ELEVATION <u>1543.0</u>			9. SPILLWAY CREST ELEV. <u>1526.0</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										Jun 1963	
WATERSHED	17. LENGTH OF RESERVOIR <u>.25</u> MILES				AV. WIDTH OF RESERVOIR <u>.09</u> MILES							
	18. TOTAL DRAINAGE AREA <u>2.58</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>22.9</u> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <u>2.58</u> SQ. MI.				23. MEAN ANNUAL RUNOFF _____ INCHES							
	20. LENGTH <u>1.99</u> MILES		AV. WIDTH <u>1.30</u> MILES		24. MEAN ANNUAL RUNOFF _____ AC.-FT.							
	21. MAX. ELEV. <u>3,832</u>		MIN. ELEV. <u>1493.3</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 1967		4.2	4.2				2/				
	Sep 1972		5	9.2								
	Sep 1976		4	13.2								
	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 1967		24.65		No record of Inflow.							
	Sep 1972		20.67									
	Sep 1976		23.29									
	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 1967		56.8	13.5	5.23	56.8	13.5	5.23					
Sep 1972		6.3	1.3	.50	63.1	6.9	2.67					
Sep 1976		.37	.09	.04	63.47	4.81	1.86					
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 - Debris basin capacity varies. Debris excavated at various times.
 3/ Item 37 - Sediment 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 Feb 77