

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

COOKS CANYON DEBRIS BASIN

NAME OF RESERVOIR

70-65c

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. STREAM <b>Cooks Canyon</b>			3. STATE <b>California</b>					
	4. SEC. <b>20</b> TWP. <b>2N</b> RANGE <b>13W</b>			5. NEAREST P.O. <b>La Crescenta</b>			6. COUNTY <b>Los Angeles</b>					
	7. LAT. <b>34°14'50"</b> LONG. <b>118°15'42"</b>			8. TOP OF DAM ELEVATION <b>2092</b>			9. SPILLWAY CREST ELEV. <b>2083</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 BEGAN	
	a. FLOOD CONTROL											
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION										Jan 52	
	f. CONSERVATION											
	g. INACTIVE											
17. LENGTH OF RESERVOIR <b>0.17</b> MILES					AV. WIDTH OF RESERVOIR <b>.04</b> MILES							
WATERSHED	18. TOTAL DRAINAGE AREA <b>.58</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>25.0</b> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <b>.58</b> SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH <b>2.27</b> MILES		AV. WIDTH <b>.44</b> MILES		24. MEAN ANNUAL RUNOFF AC-F.T.							
	21. MAX. ELEV. <b>4552</b>		MIN. ELEV. <b>2059.4</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. CH. RATIO, AC.-FT. PER AC.-FT.		
Mar 52		.17	.17									
Sep 61		9.67	9.84									
Sep 69		8.0	17.84									
Sep 74		5.0	22.84									
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						
	Mar 52	31.1		No record of inflow								
	Sep 61	16.23										
	Sep 69	21.60										
Sep 74	13.93											
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						
Mar 52	12.8	-	-	12.8	-	-						
Sep 61	1.6	.168	.280	14.4	1.48	2.56						
Sep 69	.124	.016	.028	14.5	.819	1.41						
Sep 74	.99	.20	.34	15.49	.68	1.17						
26. DATE OF SURVEY	39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PER SQ. MI. YEAR		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, GREST 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 - Temperatures taken at Pasadena, California.

2/ Item 32 - Capacity of debris basin varies. Debris excavated at various times.

3/ Item 37 - Sediment values as computed by LACFCD are sediment removals from basin and are based on complete water year.

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DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

COOKS CANYON DEBRIS BASIN  
NAME OF RESERVOIR

70-65c  
DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. STREAM <b>Cooks Canyon</b>			3. STATE <b>California</b>					
	4. SEC. <b>20</b> TWP. <b>2N</b> RANGE <b>13W</b>			5. NEAREST P.O. <b>La Crescenta</b>			6. COUNTY <b>Los Angeles</b>					
	7. LAT <b>34° 14' 50"</b> LONG <b>118° 15' 42"</b>			8. TOP OF DAM ELEVATION <b>2092</b>			9. SPILLWAY CREST ELEV. <b>2083</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 BEGAN	
	a. FLOOD CONTROL											
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION										Jan 52	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR <b>0.17</b> MILES				AV. WIDTH OF RESERVOIR <b>.04</b> MILES							
	18. TOTAL DRAINAGE AREA <b>.58</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>25.0</b> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <b>.58</b> SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH <b>2.27</b> MILES		AV. WIDTH <b>.44</b> MILES		24. MEAN ANNUAL RUNOFF AC.-FT.							
	21. MAX. ELEV. <b>4552</b>		MIN. ELEV. <b>2059.4</b>		25. ANNUAL TEMP MEAN <b>62.2°</b> RANGE <b>48.8°-75.6°</b>							
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.	
	Mar 52		.17	.17								
	Sep 61		9.67	9.84								
	Sep 69		8.0	17.84								
	Sep 74		5.0	22.84								
	Sep 76		2.0	24.84								
	Sep 77		1.0	25.84								
	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	
	Mar 52		31.1		No record of inflow,							
Sep 61		16.23										
Sep 69		21.60										
Sep 74		13.93										
Sep 76		23.96										
Sep 77		31.23										
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			
Mar 52		12.8	-	-	12.8		-		-			
Sep 61		1.6	.168	.280	14.4		1.48		2.56			
Sep 69		.124	.016	.028	14.5		.819		1.41			
Sep 74		.99	.20	.34	15.49		.68		1.17			
Sep 76		1.12	.56	.97	16.61		.67		1.15			
Sep 77		.56	.56	.97	17.71		.66		1.15			
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PERSQ. 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 - Temperatures taken at Pasadena, California.

2/ Item 32 - Capacity of debris basin varies. Debris excavated at various times.

3/ Item 37 - Sediment values as computed by LACFCD are sediment removals from basin and are based on complete water year.

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DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

COOKS CANYON DEBRIS BASIN

NAME OF RESERVOIR

70-650

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. STREAM <b>Cooks Canyon</b>			3. STATE <b>California</b>									
	4. SEC. <b>20</b> TWP. <b>2N</b> RANGE <b>13W</b>			5. NEAREST P. O. <b>La Crescenta</b>			6. COUNTY <b>Los Angeles</b>									
	7. LAT. <b>34°14'50"</b> LONG. <b>118°15'42"</b>			8. TOP OF DAM ELEVATION <b>2092</b>			9. SPILLWAY CREST ELEV. <b>2083</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 BEGAN					
	a. FLOOD CONTROL															
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										Jan 52					
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17. LENGTH OF RESERVOIR <b>0.17</b> MILES				AV. WIDTH OF RESERVOIR <b>.84</b> MILES												
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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 78		1.0		26.84											
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET				36. WATER INF. TO DATE, AC.-FT.							
	Sep 78		37.86		No record of inflow.											
SURVEY DATA	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 78		3.84			3.84		6.62		21.55		0.80		1.38		
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														
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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

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