

RESERVOIR SEDIMENTATION
DATA SUMMARY

SUNSET CANYON DEBRIS BASIN

70-59b

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. RIVER Sunset Canyon Chan.			3. STATE California				
	4. SEC. TWP. RANGE			5. NEAREST TOWN Burbank			6. COUNTY Los Angeles				
	7. STREAM BED ELEV. 1,577			8. TOP OF DAM ELEV. 1,605			9. SPILLWAY CREST ELEV. 1,603.7				
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	1,603.7	0.46		3.3						
	b. POWER										
	c. WATER SUPPLY										
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN					
	e. CONSERVATION										
	f. INACTIVE					Nov 1929					
17. LENGTH OF RESERVOIR		0.05	MILES		AV. WIDTH OF RESERVOIR		0.02	MILES			
WATERSHED	18. TOTAL DRAINAGE AREA		.44	SQ. MI.		22. MEAN ANNUAL PRECIPITATION		21.6	INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		.44	SQ. MI.		23. MEAN ANNUAL RUNOFF		INCHES			
	20. LENGTH	.85	MILES		AV. WIDTH	.52	MILES		24. MEAN ANNUAL RUNOFF		
	21. MAX. ELEV.		3,126	MIN. ELEV.		1,603.7	25. CLIMATIC CLASSIFICATION		Subhumid		
	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/W RATIO AC.-FT. PER SQ. MI.		
Sep 1942	13	13									
Sep 1944	2	15									
Sep 1945	1	16									
Sep 1946	1	17									
Sep 1950	4	21									
Sep 1952	2	23									
Sep 1959	7	30									
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 1942	23.4	No record of inflow								
	Sep 1944	28.6	No record of inflow								
	Sep 1945	18.3	No record of inflow								
	Sep 1946	17.1	No record of inflow								
	Sep 1950	13.1	No record of inflow								
	Sep 1952	24.96	No record of inflow								
	Sep 1959	17.04	No record of inflow								
	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.					
Sep 1942	7.66	.59	1.34	7.66	.59	1.34					
Sep 1944	.73	.37	.84	8.39	.56	1.27					
Sep 1945	.08	.08	.18	8.47	.53	1.20					
Sep 1946	.09	.09	.20	8.56	.50	1.14					
Sep 1950	0	0	0	8.56	.41	.93					
Sep 1952	2.11	1.06	2.41	10.67	.46	1.05					
Sep 1959	5.16	0.74	1.68	15.83	0.53	1.20					
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
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 - Sediment values as computed by LACFCD are sediment removals from basin and are based on complete water year.

48. AGENCY SUPPLYING DATA LACFCD & C of E

49. DATE 6 Feb 1961

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

SUNSET CANYON DEBRIS BASIN (Upper) (Revised)

NAME OF RESERVOIR

70-59 d

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM Sunset Cyn Channel			3. STATE Calif									
	4. Stand Gravel 2N RANGE 13W			5. NEAREST P.O. Burbank			6. COUNTY Los Angeles									
	7. LAT. 34°12'17" LONG 118°17'02"			8. TOP OF DAM ELEVATION 1605			9. SPILLWAY CREST ELEV. 1603.7									
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		1603.7		0.46				3.3							
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										Nov 29					
	f. CONSERVATION															
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.05 MILES				AV. WIDTH OF RESERVOIR 0.02 MILES											
	18. TOTAL DRAINAGE AREA .44 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 21.6 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA .44 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH .85 MILES		AV. WIDTH .52 MILES		24. MEAN ANNUAL RUNOFF AC-F.T.											
	21. MAX. ELEV. 3126		MIN. ELEV. 1603.7		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 42		12.9		12.9											
	Sep 52		10.0		22.9											
	Sep 59		7.0		29.9											
	Sep 66		7		36.9											
	Sep 69		3		39.9											
	Sep 71		2		41.9											
	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 42		23.4		No record of inflow											
Sep 52		19.49														
Sep 59		17.04														
Sep 66		17.74														
Sep 69		25.42														
Sep 71		15.38														
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.-YR.		a. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. MI.-YEAR				
Sep 42		5.64		.44		1.00		5.64		.44		1.00				
Sep 52		2.00		.20		.45		7.64		.33		.76				
Sep 59		5.16		.74		1.68		12.80		.43		.97				
Sep 66		25.05		3.58		8.13		37.85		1.03		2.33				
Sep 69		8.23		2.74		6.23		46.08		1.15		2.62				
Sep 71		1.53		.77		1.74		47.61		1.14		2.59				
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, Calif. 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.															
48. AGENCY MAKING SURVEY LACFCD															
49. AGENCY SUPPLYING DATA C of E															
50. DATE 9 Feb 72															

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

SUNSET CANYON DEBRIS BASIN (Upper) (Revised)

NAME OF RESERVOIR

70-59 d

DATA SHEET NO.

DAM	1. OWNER LACFCO			2. STREAM Sunset Cyn Channel		3. STATE California										
	4. Land Grant 2N RANGE 13W			5. NEAREST P O Burbank		6. COUNTY Los Angeles										
	7. LAT 34° 12' 17" LONG 118° 17' 02"			8. TOP OF DAM ELEVATION 1605		9. SPILLWAY CREST ELEV. 1603.7										
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		1603.7		0.46				3.3							
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION										Nov 29					
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.05			MILES		AV. WIDTH OF RESERVOIR 0.02			MILES							
	18. TOTAL DRAINAGE AREA .44			SQ. MI.		22. MEAN ANNUAL PRECIPITATION 21.6			INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA .44			SQ. MI.		23. MEAN ANNUAL RUNOFF			INCHES							
	20. LENGTH 0.85		MILES		AV. WIDTH .52		MILES		24. MEAN ANNUAL RUNOFF AC.-F.T.							
	21. MAX. ELEV. 3126		MIN. ELEV. 1603.7		25. ANNUAL TEMP. MEAN 62.2°			RANGE 48.4°-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, 2/ACRE-FEET		33. C/I. RATIO, AC.-FT. PER AC.-FT.	
	Sep 73		2		43.9											
	Sep 74		1		44.9											
	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 73		14.76		No record of inflow											
	Sep 74		16.30													
	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 73		0.19		.10		.22		47.80		1.09		2.47			
Sep 74		1.98		1.98		4.50		49.78		1.11		2.52				
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														
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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
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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							
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 - Sediment values as computed by LACFCD are sediment removals from basin and are based on complete water year.															
48. AGENCY MAKING SURVEY				LACFCD											
49. AGENCY SUPPLYING DATA				C of E											
50. DATE						14 Feb 75									

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DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

SUNSET CANYON DEBRIS BASIN (Upper) (Revised)

NAME OF RESERVOIR

70-59 d

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	4. Land Grant 2N RANGE 13W			5. NEAREST P.O. Burbank			6. COUNTY Los Angeles					
	7. LAT. 34° 12' 17" LONG. 118° 17' 02"			8. TOP OF DAM ELEVATION 1605			9. SPILLWAY CREST ELEV. 1603.7					
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	a. FLOOD CONTROL											
	b. MULTIPLE USE		1603.7		0.46				3.3			
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION										Nov 29	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 0.05 MILES				AV. WIDTH OF RESERVOIR 0.02 MILES							
	18. TOTAL DRAINAGE AREA .44 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 21.6 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA .44 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH 0.85 MILES		AV. WIDTH .52 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.							
	21. MAX. ELEV. 3126		MIN. ELEV. 1603.7		25. ANNUAL TEMP. MEAN 62.2° RANGE 48.8°-75.6°							
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	Sep 73		2	43.9				2/				
	Sep 74		1	44.9								
	Sep 78		4	48.9								
	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 73		14.76		No record of inflow.							
	Sep 74		16.30									
	Sep 78		20.82									
	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 73		0.19	.10	.22	47.80	1.09	2.47					
Sep 74		1.98	1.98	4.50	49.78	1.11	2.52					
Sep 78		0.87	.22	.50	50.65	1.04	2.36					
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.
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