

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

VERDUGO DEBRIS BASIN (Revised)

NAME OF RESERVOIR

70-61c

DATA SHEET NO.

DAM	1. OWNER LACFCD		2. STREAM Verdugo Creek		3. STATE California			
	4. SEC. Land TWP Grant RANGE		5. NEAREST P.O. Montrose		6. COUNTY Los Angeles			
	7. LAT 34° 12' 05" LONG 118° 14' 09"		8. TOP OF DAM ELEVATION 1131.0		9. SPILLWAY CREST ELEV. 1120			
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						Mar 35		
WATERSHED	17. LENGTH OF RESERVOIR 0.28 MILES		AV. WIDTH OF RESERVOIR 0.06 MILES					
	18. TOTAL DRAINAGE AREA 15.5 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 25.3 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 10.0 SQ. MI.		23. MEAN ANNUAL RUNOFF INCHES					
	20. LENGTH 5.04 MILES	AV. WIDTH 3.08 MILES	24. MEAN ANNUAL RUNOFF AC. FT.					
	21. MAX. ELEV. 4552	MIN. ELEV. 1110	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/L RATIO, AC. FT. PER AC. FT.
	Sep 38	3.58	3.58				2	
	Sep 41	3.0	6.58					
	Sep 43	2.0	8.58					
	Sep 44	1.0	9.58					
	Sep 50	6.0	15.58					
	Sep 52	2.0	17.58					
	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 38	28.77	No record of inflow.					
Sep 41	33.3							
Sep 43	29.5							
Sep 44	31.6							
Sep 50	19.4							
Sep 52	27.54							
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 38	65.32	18.25	1.83	65.32	18.25	1.83		
Sep 41	24.42	8.14	.81	89.74	13.64	1.36		
Sep 43	40.91	20.5	2.05	130.65	15.23	1.52		
Sep 44	42.71	42.7	4.27	173.36	18.10	1.81		
Sep 50	3.36	.6	.06	176.72	11.34	1.13		
Sep 52	16.46	8.2	.82	193.18	10.99	1.10		
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	c. PERIOD	d. 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														
<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 are based on complete water year.														
48. AGENCY MAKING SURVEY				LACFCD										
49. AGENCY SUPPLYING DATA				C of E										
50. DATE 12 Mar 51														

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

VERDUGO DEBRIS BASIN (Revised)

NAME OF RESERVOIR

70-61c

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>				2. STREAM <b>Verdugo Wash</b>				3. STATE <b>California</b>			
	4. SEC. <b>Land TWP. Grant</b> RANGE				5. NEAREST P O <b>Montrose</b>				6. COUNTY <b>Los Angeles</b>			
	7. LAT <b>34° 12' 05"</b> LONG <b>118° 14' 09"</b>				8. TOP OF DAM ELEVATION <b>1131.0</b>				9. SPILLWAY CREST ELEV. <b>1120</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										Mar 35	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR <b>0.28</b> MILES				AV. WIDTH OF RESERVOIR <b>0.06</b> MILES							
	18. TOTAL DRAINAGE AREA <b>15.5</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>25.3</b> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <b>10.0</b> SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH <b>5.04</b> MILES		AV. WIDTH <b>3.08</b> MILES		24. MEAN ANNUAL RUNOFF AC.-FT.							
	21. MAX. ELEV. <b>4552</b>		MIN. ELEV. <b>1110</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, <u>2</u> / ACRE-FEET		33. C/I RATIO, AC.-FT. PER AC.-FT.	
	Sep 53		1.0	18.58								
	May 56		2.67	21.25								
	Jan 59		2.67	23.92								
	Sep 60		1.66	25.58								
	Sep 64		4.0	29.58								
	Sep 66		2.0	31.58								
	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 53		13.93		No record of inflow.							
	May 56		22.53									
	Jan 59		22.62									
	Sep 60		10.98									
	Sep 64		16.94									
	Sep 66		27.67									
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 53		37.28	37.3	3.73	230.46	12.40	1.24					
May 56		0.06	.02	.002	230.52	10.85	1.09					
Jan 59		23.87	8.94	.89	254.39	10.64	1.06					
Sep 60		.89	.54	.05	255.28	9.98	1.00					
Sep 64		22.02	5.50	.55	277.30	9.37	.94					
Sep 66		34.29	17.1	1.71	311.59	9.87	.99					
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														
<p>1/ Item 25 - Temperature taken at Pasadena, California.</p> <p>2/ Item 32 - Capacity of debris basin varies. Debris excavated at various times.</p> <p>3/ Item 37 - Sedimentation values as computed by LACFCD are sediment removed from basin and are based on complete water year.</p>														
48. AGENCY MAKING SURVEY LACFCD					50. DATE 7 Jan 65									
49. AGENCY SUPPLYING DATA C of E														

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

VERDUGO DEBRIS BASIN (Revised)

NAME OF RESERVOIR

70-216

DATA SHEET NO.

DAM	1. OWNER <b>LACFO</b>			2. STREAM <b>Verdugo Wash</b>			3. STATE <b>Calif</b>									
	4. SEC Land TWP. <b>Grantrange</b>			5. NEAREST P O <b>Montrose</b>			6. COUNTY <b>Los Angeles</b>									
	7. LAT <b>34°12'05"</b> LONG <b>118°14'09"</b>			8. TOP OF DAM ELEVATION <b>1131.0</b>			9. SPILLWAY CREST ELEV. <b>1120</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															
	f. CONSERVATION															
	g. INACTIVE										<b>Mar 35</b>					
WATERSHED	17. LENGTH OF RESERVOIR <b>0.28</b> MILES			AV. WIDTH OF RESERVOIR <b>0.06</b> MILES												
	18. TOTAL DRAINAGE AREA <b>15.5</b> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <b>25.3</b> INCHES												
	19. NET SEDIMENT CONTRIBUTING AREA <b>10.0</b> SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES												
	20. LENGTH <b>5.04</b> MILES		AV. WIDTH <b>3.08</b> MILES		24. MEAN ANNUAL RUNOFF AC-FT.											
	21. MAX. ELEV. <b>4552</b>		MIN. ELEV. <b>1110</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. CH. RATIO, AC-FT. PER AC-FT.	
	Sep 68		2.0		33.58											
	Sep 70		2.0		35.58											
	Sep 74		4.0		39.58											
	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 68		27.67		No record of inflow											
	Sep 70		31.31													
	Sep 74		24.88													
	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		d. TOTAL TO DATE		e. AV. ANNUAL		f. PER SQ. MI.-YEAR				
Sep 68		1.01		0.50		0.05		312.60		9.31		0.93				
Sep 70		62.80		31.4		3.14		375.4		10.55		1.06				
Sep 74		17.79		4.45		0.45		393.19		9.93		0.99				
26. DATE OF SURVEY		39. AV DRY WGT., LBS. PER CU. FT.		40. SED. DEP. TO INFL. PER SQ. MI.-YEAR		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 as computed by LACFCD are based on complete water year.															
48. AGENCY MAKING SURVEY				LACFCD											
49. AGENCY SUPPLYING DATA				C of E											
50. DATE						14 Feb 75									

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

VERDUGO DEBRIS BASIN (Revised)  
NAME OF RESERVOIR

70-61d  
DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. STREAM <b>Verdugo Wash</b>			3. STATE <b>Calif</b>							
	4. SEC. Land TWP. <b>Gran</b> RANGE			5. NEAREST P.O. <b>Montrose</b>			6. COUNTY <b>Los Angeles</b>							
	7. LAT. <b>34°12'05"</b> LONG. <b>118°14'09"</b>			8. TOP OF DAM ELEVATION <b>1131.0</b>			9. SPILLWAY CREST ELEV. <b>1120</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													
	f. CONSERVATION													
	g. INACTIVE										<b>Mar 35</b>			
WATERSHED	17. LENGTH OF RESERVOIR - <b>0.28</b> MILES			AV. WIDTH OF RESERVOIR <b>0.06</b> MILES										
	18. TOTAL DRAINAGE AREA <b>15.5</b> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <b>25.3</b> INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA <b>10.0</b> SQ. MI.			23. MEAN ANNUAL RUNOFF										
	20. LENGTH <b>5.04</b> MILES			AV. WIDTH <b>3.08</b> MILES			24. MEAN ANNUAL RUNOFF							
	21. MAX. ELEV. <b>4552</b>			MIN. ELEV. <b>1110</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.	
	Sep 68		2.0	33.58							2/			
	Sep 70		2.0	35.58										
	Sep 74		4.0	39.58										
	Sep 78		4.0	43.58										
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET				36. WATER INFL. TO DATE, AC.-FT.					
	Sep 68		27.67		No record of inflow.									
	Sep 70		31.31											
	Sep 74		24.88											
	Sep 78		22.05											
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 68		1.01	0.50	0.05	312.60	9.31	0.93							
Sep 70		62.80	31.4	3.14	375.4	10.55	1.06							
Sep 74		17.79	4.45	0.45	393.19	9.93	0.99							
Sep 78		3.97	.99	.10	397.16	9.11	0.91							
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, California														
2/ Item 32 - Capacity of debris basin varies. Debris excavated at various times.														
3/ Item 37 - Sedimentation values as computed by LACFCD are based on complete water year.														
48. AGENCY MAKING SURVEY LACFCD														
49. AGENCY SUPPLYING DATA C of E														
50. DATE Feb 79														