

RESERVOIR SEDIMENT  
DATA SUMMARY

HALL'S DEBRIS BASIN (Revised)

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

NAME OF RESERVOIR

70-46d

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. STREAM <b>Hall-Beckley Cyn</b>			3. STATE <b>California</b>					
	4. SEC. Land TWP. <b>Grant</b> RANGE			5. NEAREST P O <b>La Canada</b>			6. COUNTY <b>Los Angeles</b>					
	7. LAT <b>34° 13' 30" N</b> LONG <b>118° 13' 40" W</b>			8. TOP OF DAM ELEVATION <b>1664.0</b>			9. SPILLWAY CREST ELEV. <b>1653.9</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										Nov 35	
	f. CONSERVATION											
g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR <b>0.13</b> MILES				AV. WIDTH OF RESERVOIR <b>0.05</b> MILES							
	18. TOTAL DRAINAGE AREA After 1945 <b>1.06</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>26.8</b> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <b>1.06</b> SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH <b>2.00</b> MILES		AV. WIDTH <b>0.53</b> MILES		24. MEAN ANNUAL RUNOFF AC.-FT.							
	21. MAX. ELEV. <b>4,005</b>		MIN. ELEV. <b>1653.9</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 37		1.9	1.9								
	Sep 38		1.0	2.9								
	Sep 40		2.0	4.9								
	Sep 43		3.0	7.9								
	Sep 48		5.0	12.9								
	Feb 57		8.4	21.3								
	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 37		27.9		No record of inflow.							
	Sep 38		38.4									
	Sep 40		22.08									
	Sep 43		36.20									
	Sep 48		23.56									
	Feb 57		20.31									
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 37		20.46	10.77	12.82	20.46		10.77		12.82			
Sep 38		64.86	64.86	77.21	85.32		29.42		35.02			
Sep 40		15.88	7.94	9.45	101.20		20.65		24.58			
Sep 43		51.95	17.32	20.61	153.15		19.39		23.08			
Sep 48		10.88	2.58	2.43	164.03		12.72		12.00			
Feb 57		2.05	.24	.23	166.08		7.80		7.36			
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															
<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 sediment removed from basin and are based on complete water year.															
48. AGENCY MAKING SURVEY				LACFCD				50. DATE				10 Feb 72			
49. AGENCY SUPPLYING DATA				C of E											

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HALL'S DEBRIS BASIN (Revised)

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DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>		2. STREAM <b>Hall-Beckley Cyn</b>		3. STATE <b>California</b>		
	4. SEC. <b>LandTWP. Gran</b> RANGE		5. NEAREST P O <b>La Canada</b>		6. COUNTY <b>Los Angeles</b>		
	7. LAT. <b>34° 13' 30"</b> LONG <b>118° 13' 40"</b>		8. TOP OF DAM ELEVATION <b>1664.0</b>		9. SPILLWAY CREST ELEV. <b>1653.9</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					Nov 35	
	f. CONSERVATION						
	g. INACTIVE						
17. LENGTH OF RESERVOIR <b>0.13</b> MILES			AV. WIDTH OF RESERVOIR <b>0.05</b> MILES				
WATERSHED	18. TOTAL DRAINAGE AREA After 1945 <b>1.06</b> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <b>26.8</b> INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA <b>1.06</b> SQ. MI.		23. MEAN ANNUAL RUNOFF INCHES				
	20. LENGTH <b>2.00</b> MILES		AV. WIDTH <b>0.53</b> MILES		24. MEAN ANNUAL RUNOFF AC. FT.		
	21. MAX. ELEV. <b>4,005</b>		MIN. ELEV. <b>1653.9</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 <b>2/</b>
Sep 59	2.6	23.9					
Sep 62	3	26.9					
Sep 64	2	28.9					
Sep 68	4	32.9					
Sep 69	1	33.9					
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 59	19.18	No record of inflow				
	Sep 62	13.49					
	Sep 64	13.69					
	Sep 68	24.26					
	Sep 69	40.02					
	26. DATE OF SURVEY	37. <b>3/</b> 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 59	31.81	12.23	11.54	197.89	8.28	7.81
Sep 62	.19	.06	.06	198.08	7.36	6.94	
Sep 64	9.53	4.77	4.50	207.61	7.18	6.77	
Sep 68	14.76	3.69	3.48	222.37	6.76	6.38	
Sep 69	36.52	36.52	34.46	258.89	7.64	7.21	
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	40-5	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														
49. AGENCY SUPPLYING DATA      C of E														
50. DATE      10 Feb 72														

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	4. SEC. <b>Land</b> TWP. <b>Grant</b> RANGE			5. NEAREST P.O. <b>La Canada</b>			6. COUNTY <b>Los Angeles</b>								
	7. LAT. <b>34° 13' 30"</b> LONG. <b>118° 13' 40"</b>			8. TOP OF DAM ELEVATION <b>1664.0</b>			9. SPILLWAY CREST ELEV. <b>1653.9</b>								
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WATERSHED	17. LENGTH OF RESERVOIR <b>0.13</b> MILES				AV. WIDTH OF RESERVOIR <b>0.05</b> MILES										
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	21. MAX. ELEV. <b>4005</b>		MIN. ELEV. <b>1653.9</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 78		5.0	42.9				2/							
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET			36. WATER INFL. TO DATE, AC.-FT.							
	Sep 78		19.41		No record of inflow.										
	26. DATE OF SURVEY		37. 3/ PERIOD CAPACITY LOSS, ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET									
	Sep 78		12.03			2.41		2.27		286.23		6.67		6.29	
	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.  
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