

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

PACOIMA FLOOD CONTROL BASIN

NAME OF RESERVOIR

70-31b

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. STREAM <b>Pacoima Canyon</b>			3. STATE <b>California</b>									
	4. SEC. <b>TWP.</b>		RANGE		5. NEAREST P.O. <b>San Fernando</b>			6. COUNTY <b>Los Angeles</b>								
	7. Stream Bed Elev. <b>1,650.0</b>			8. TOP OF DAM ELEVATION <b>2,015.13</b>			9. SPILLWAY CREST ELEV. <b>1,950</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>1,950.0</b>		<b>75</b>		<b>6,060</b>		<b>1/6,060</b>		<b>Feb. 1927</b>					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										<b>Feb. 1929</b>					
	f. CONSERVATION															
g. INACTIVE																
WATERSHED	17. LENGTH OF RESERVOIR <b>1.46</b>				MILES				AV. WIDTH OF RESERVOIR				MILES			
	18. TOTAL DRAINAGE AREA <b>28.2</b>				SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>26.35</b>				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA <b>28.2</b>				SQ. MI.				23. MEAN ANNUAL RUNOFF <b>4.39</b>				INCHES			
	20. LENGTH <b>13.4</b>		MILES		AV. WIDTH <b>2.1</b>		MILES		24. MEAN ANNUAL RUNOFF <b>6,370 (32)</b>				AC.-FT.			
	21. MAX. ELEV. <b>6,503</b>				MIN. ELEV. <b>1,950</b>				25. Climatic Classification - <b>Subhumid</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.	
	Oct 1929		Orig.		0		Contour		-		75		6,060		215	
	Jan 1936		6.3		6.3		"		5 ft.		68		5,592		198	
	Mar 1938		2.2		8.5		"		5 ft.		64		5,004		178	
	Oct 1942		4.6		13.1		"		5 ft.		64		4,837		172	
	Dec 1944		2.1		15.2		"		5 ft.		64		4,714		167	
	Oct 1954		9.8		25.0		"		5 ft.		66		4,787		170	
	Jun 1958		3.8		28.8		"		5 ft.		63.5		4,651		165	
	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			
	Oct 1929		-		-		-		-		-		-			
	Jan 1936		25.4		3,530		8,740		22,240		3,530		22,240			
	Mar 1938		45.8		18,400		25,880		40,400		7,370		62,640			
	Oct 1942		28.0		8,390		24,660		38,600		7,730		101,240			
	Dec 1944		43.3		17,400		20,280		26,470		9,060		137,710			
Oct 1954		21.6		3,650		16,790		35,730		6,940		173,440				
Jun 1958		26.46		4,850		1,470		18,440		6,660		191,880				
26. DATE OF SURVEY		37. 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				
Oct 1929		0		0		0		0		0		0				
Jan 1936		468		74.3		2.63		468		74.3		2.63				
Mar 1938		588		267.0		9.47		1,056		124.3		4.40				
Oct 1942		167		36.2		1.29		1,223		93.3		3.31				
Dec 1944		2/ 168		80.0		2.84		1,391		91.5		3.24				
Oct 1954		3/ 41		4.18		0.15		1,432		57.3		2.03				
Jun 1958		4/ 318		83.7		2.97		1,750		60.8		2.16				
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				
Oct 1929						0.5		6/ 0								
Jan 1936						1.23		7.72								
Mar 1938						2.05		17.43								
Oct 1942						1.54		20.18								
Dec 1944						1.51		22.21								
Oct 1954						0.95		21.01								
Jun 1958						1.00		23.25								

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION										
	300-270	270-240	240-210	210-180	180-150	150-120	120-90	90-60	60-30	30-0	0-65
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
Jan 1936	3	6	16	13	6	8	12	11	1	24	
Mar 1938			5	22	8	5	5	15	24	16	
Oct 1942				7	45	26	15	7			
Dec 1944		Sluicing									
Oct 1954		Sluicing									
Jun 1958		Sluicing									

  

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.
1929-32	NR	NR	ND	1944-45	1,873.6	1,770.0	3,758
1932-33	1,845.5	1,711.0	2,160	1945-46	1,929.8	1,770.0	4,600
1933-34	1,863.5	1,712.5	3,454	1946-47	1,888.0	Dry	4,356
1934-35	1,894.1	1,716.8	5,569	1947-48	1,819.9	1,695.0	369
1935-36	1,888.6	Dry	3,098	1948-49	1,841.1	1,732.5	723
1936-37	1,942.4	1,722.0	15,740	1949-50	1,851.0	1,734.5	1,063
1937-38	1,961.7	1,761.7	25,878	1950-51	1,811.1	1,794.8	142
1938-39	1,845.2	Dry	3,525	1951-52	1,927.0	1,789.0	16,794
1939-40	1,873.9	1,789.8	3,209	1952-53	1,910.8	1,796.9	967
1940-41	1,938.9	1,796.9	25,780	1953-54	1,899.7	1,797.2	2,952
1941-42	1,865.1	1,760.3	1,920	1954-55	1,835.7	1,798.8	747
1942-43	1,907.9	1,759.0	10,700	1955-56	1,878.2	1,801.3	1,466
1943-44	1,951.6	1,775.6	15,000	1956-57	1,839.0	1,797.0	573
				1957-58	1,939.0	1,754.3	15,818

  

46. ELEVATION-AREA-CAPACITY DATA (June 1958 survey)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1,754	0	0	1,840	16.5	518.8	1,930	53.2	3,486.5
1,760	.32	1.05	1,850	19.3	695.8	1,940	58.4	4,042.1
1,770	.9	6.42	1,860	22.5	906.2	1,950	64.1	4,651.0
1,780	2.0	20.6	1,870	26.2	1,147.2	1,960	70.4	5,321.6
1,790	4.0	47.6	1,880	30.2	1,425.2	1,970	76.5	6,052.7
1,800	5.9	96.6	1,890	34.2	1,745.1	1,980	83.0	6,846.7
1,810	8.2	165.3	1,900	39.0	2,108.2	1,990	90.0	7,707.4
1,820	10.1	255.6	1,910	43.3	2,517.4	2,000	96.9	8,637.8
1,830	13.3	371.1	1,921	49.0	2,977.5	2,010	104.2	9,639.5

  

47. REMARKS AND REFERENCES

- 1/ After flood season, reservoir is used for conservation.
- 2/ Dec. 1944 - 45.1 ac.-ft. sluiced.
- 3/ Dec. 1944 thru Oct. 1954 - 114.2 ac.-ft. sluiced.
- 4/ Oct. 1954 thru Jun. 1958 - 182 ac.-ft. sluiced.
- 5/ Based on summation of deposits in Item 37a.
- 6/ Based on data in Item 32.

  

48. AGENCY MAKING SURVEY LACFCD & C of E

49. AGENCY SUPPLYING DATA

50. DATE 7 Nov 1958

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

PACOIMA FLOOD CONTROL BASIN

NAME OF RESERVOIR

70-31c

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. STREAM <b>Pacoima Canyon</b>			3. STATE <b>Calif</b>					
	4. SEC. <b>24</b> TWP. <b>3N</b> RANGE <b>14W</b>			5. NEAREST P.O. <b>San Fernando</b>			6. COUNTY <b>Los Angeles</b>					
	7. LAT <b>34° 20' 05"</b> LONG <b>118° 23' 43"</b>			8. TOP OF DAM ELEVATION <b>2015.13</b>			9. SPILLWAY CREST ELEV. <b>1950.0</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>1950.0</b>		<b>75</b>		<b>6,060</b>		<b>6,060</b>		<b>Feb 27</b>	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										<b>Feb 29</b>	
	e. IRRIGATION											
	f. CONSERVATION											
g. INACTIVE												
17. LENGTH OF RESERVOIR <b>1.46</b> MILES					AV. WIDTH OF RESERVOIR _____ MILES							
WATERSHED	18. TOTAL DRAINAGE AREA <b>28.2</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>26.35</b> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <b>28.2</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>3.67</b> INCHES							
	20. LENGTH <b>13.4</b> MILES		AV. WIDTH <b>2.1</b> MILES		24. MEAN ANNUAL RUNOFF <b>5,516 (41)</b> AC.-FT.							
	21. MAX. ELEV. <b>6,503</b>		MIN. ELEV. <b>1,950</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.			
	May 62		3.9	33.25	Contour	5'	63.5	4,581	.83			
	Aug 66		4.25	37.50	Contour	5'	63.4	4,453	.81			
	Mar 69		2.58	40.08	Contour	5'	62.0	3,841	.70			
	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		
	May 62		17.30		1978	6,299	7,716	6,104		199,600		
	Aug 66		22.26		3544	12,285	14,884	5,812		214,484		
	Mar 69		41.56		25,452	23,705	65,667	6,990		280,151		
	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				
May 62		70	18.0	.64	1,820		55.7	1.97				
Aug 66		128	30.4	1.08	1,948		52.8	1.87				
Mar 69		612	237.0	8.40	2,560		63.9	2.27				
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				
May 62					.91	24.4						
Aug 66					.87	26.5						
Mar 69					1.05	36.6						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION										
	300-270	270-240	240-210	210-180	180-150	150-120	120-90	90-60	60-30	Crest	-30
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
May 62					3	7	14	23	27	26	
Aug 66				3	11	14	54	16	5	-3	
Mar 69					11	8	9	20	26	26	

  

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.
1956-57	1,839.0	1,797.0	573				
1957-58	1,939.7	1,754.3	15,818				
1958-59	1,853.7	1,794.0	783				
1959-60	1,806.7	1,754.0	131				
1960-61	1,791.2	1,754.0	59				
1961-62	1,894.6	1,789.6	6,326				
1962-63	1,837.0	1,801.8	432				
1963-64	1,841.0	1,756.4	529				
1964-65	1,865.7	1,778.0	1,313				
1965-66	1,916.4	1,818.4	12,285				
1966-67	1,949.8	1,805.1	23,705				
1967-68	1,882.3	1,820.1	3,843				

  

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1797	0	0	1870	20.8	768	1950	62.0	3,841
1800	.2	.35	1880	23.7	994	1960	68.6	4,499
1810	5.9	30.5	1890	27.7	1,250	1970	75.3	5,222
1820	8.1	102	1900	33.1	1,551	1980	82.2	6,012
1830	9.5	191	1910	38.0	1,910	1990	89.2	6,873
1840	10.8	292	1920	41.8	2,312	2000	96.2	7,803
1850	13.8	415	1930	45.9	2,750	2010	104	8,805
1860	17.5	574	1940	54.2	3,258	2020	107	9,334

  

47. REMARKS AND REFERENCES

1/ Item 14 - After flood season reservoir is used for conservation.

2/ Item 25 - Temperature taken at Pasadena, Calif.

3/ Item 37 - Sediment removed by sluicing at various times.

  

48. AGENCY MAKING SURVEY	LACFCD	50. DATE	4 Feb 70
49. AGENCY SUPPLYING DATA	C of E		

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

PACOIMA FLOOD CONTROL BASIN

NAME OF RESERVOIR

70-31d

DATA SHEET NO.

DAM	1. OWNER <b>LACFGD</b>			2. STREAM <b>Pacoima Canyon</b>			3. STATE <b>Calif</b>														
	4. SEC. <b>24</b> TWP. <b>3N</b> RANGE <b>14W</b>			5. NEAREST P O <b>San Fernando</b>			6. COUNTY <b>Los Angeles</b>														
	7. LAT <b>34° 20' 05"</b> LONG <b>118° 23' 43"</b>			8. TOP OF DAM ELEVATION <b>2015.13</b>			9. SPILLWAY CREST ELEV. <b>1950.0</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		1950.0		75		6,060		6,060		Feb 27										
	b. MULTIPLE USE																				
	c. POWER																				
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN										
	e. IRRIGATION																				
	f. CONSERVATION																				
	g. INACTIVE										Feb 29										
17. LENGTH OF RESERVOIR			1.46			MILES			AV. WIDTH OF RESERVOIR			.08			MILES						
WATERSHED	18. TOTAL DRAINAGE AREA			28.2			SQ. MI.			22. MEAN ANNUAL PRECIPITATION			26.35			INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA			28.2			SQ. MI.			23. MEAN ANNUAL RUNOFF			4.19			INCHES					
	20. LENGTH		13.4		MILES		AV. WIDTH		2.1		MILES		24. MEAN ANNUAL RUNOFF			6297 (44)			AC. FT.		
	21. MAX. ELEV.			6503			MIN. ELEV.			1950			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.						
	May 62		3.9		33.25		Contour		5'		63.5		4,581		.73						
	Aug 66		4.25		37.50		"		5'		63.4		4,453		.71						
	Mar 69		2.58		40.08		"		5'		62.0		3,841		.61						
	Oct 71		2.58		42.66		"		5'		60.6		3,929		.62						
	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								
	May 62		17.30		1,978		6,299		7,716		6,104		199,600								
	Aug 66		22.26		3,544		12,285		14,884		5,812		214,484								
	Mar 69		41.56		25,414		23,605		65,568		6,987		280,052								
	Oct 71		19.40		4,986		43,398		12,864		6,866		292,916								
	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								
	May 62		70		18.0		.64		1,820		55.7		1.97								
	Aug 66		128		30.4		1.08		1,948		52.8		1.87								
	Mar 69		612		237.0		8.40		2,560		63.9		2.27								
Oct 71		Sluicing increased capacity.																			
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							
May 62								.75		24.4											
Aug 66								.72		26.5											
Mar 69								.91		36.6											
Oct 71								.82		35.2											

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION										
	300-270	270-240	240-210	210-180	180-150	150-120	120-90	90-60	60-30	Crest	-30
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
May 62					3	7	14	23	27	26	
Aug 66				3	11	14	54	16	5	-3	
Mar 69					11	8	9	20	26	26	
Oct 71	Sluicing increased storage										

  

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.
1956-57	1,839.0	1,797.0	573	1968-69	1961.8	1796.0	43,398
1957-58	1,939.7	1,754.3	15,818	1969-70	1896.7	1758.0	2,717
1958-59	1,853.7	1,794.0	783	1970-71	1888.3	1784.0	4,806
1959-60	1,806.7	1,754.0	131				
1960-61	1,791.2	1,754.0	59				
1961-62	1,894.6	1,789.6	6,326				
1962-63	1,837.0	1,801.8	432				
1963-64	1,841.0	1,756.4	529				
1964-65	1,865.7	1,778.0	1,313				
1965-66	1,916.4	1,818.4	12,285				
1966-67	1,949.8	1,805.1	23,605				
1967-68	1,882.3	1,820.1	3,843				

  

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1760	0	0	1850	13.2	422	1940	55.3	3,349
1770	.3	1.58	1860	16.7	571	1950	60.4	3,929
1780	.6	5.85	1870	20.6	757	1960	68.8	4,569
1790	1.7	18.1	1880	25.1	987	1970	75.6	5,291
1800	2.9	41.0	1890	29.5	1258	1980	82.5	6,082
1810	4.7	78.9	1900	35.0	1579	1990	89.6	6,942
1820	6.5	136.0	1910	38.5	1941	2000	96.5	7,872
1830	8.4	210.0	1920	43.7	2354	2010	104.0	8,874
1840	10.7	304.0	1930	49.3	2820	2015	107.2	9,403

  

47. REMARKS AND REFERENCES

- 1/ Item 14 - After flood season reservoir is used for conservation.
- 2/ Item 25 - Temperature taken at Pasadena, Calif.
- 3/ Item 37 - Sediment removed by sluicing at various times.

  

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

PACOIMA FLOOD CONTROL BASIN

NAME OF RESERVOIR

70-31d

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM Pacoima Canyon			3. STATE Calif					
	4. SEC. 24 TWP. 3N RANGE 14W			5. NEAREST P.O. San Fernando			6. COUNTY Los Angeles					
	7. LAT. 34° 20' 05" LONG. 118° 23' 43"			8. TOP OF DAM ELEVATION 2015.13			9. SPILLWAY CREST ELEV. 1950.0					
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		1950.0		75		6,360		6,060		Feb 27	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION										Feb 29	
	f. CONSERVATION											
g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR 1.46 MILES				AV. WIDTH OF RESERVOIR .08 MILES							
	18. TOTAL DRAINAGE AREA 28.2 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 26.35 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 28.2 SQ. MI.				23. MEAN ANNUAL RUNOFF 4.19 INCHES							
	20. LENGTH 13.4 MILES		AV. WIDTH 2.1 MILES		24. MEAN ANNUAL RUNOFF 6297 (44) AC.-FT.							
21. MAX. ELEV. 6503		MIN. ELEV. 1650		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.			
	May 62		3.9	33.25	Contour	5'	63.5	4,581	.73			
	Aug 66		4.25	37.50	"	5'	63.4	4,453	.71			
	Mar 69		2.58	40.08	"	5'	62.0	3,841	.61			
	Oct 71		2.58	42.66	"	5'	60.6	3,929	.62			
	Apr 73		1.50	44.16	"	5'	60.0	3,783	.60			
	Nov 76		3.58	47.74	"	5'	60.0	3,782	.60			
	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		
	May 62		17.30		1,978	6,299		7,716		6,104		199,600
	Aug 66		22.26		3,544	12,285		14,884		5,812		214,484
	Mar 69		41.56		25,414	23,605		65,568		6,987		280,052
	Oct 71		19.40		4,986	43,398		12,864		6,866		292,916
Apr 73		24.40		6,027	8,302		9,041		6,838		301,957	
Nov 76		15.18		3,295	7,726		11,797		6,572		313,754	
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		
May 62		70	18.0	.64		1,820		55.7		1.97		
Aug 66		128	30.4	1.08		1,948		52.8		1.87		
Mar 69		612	237.0	8.40		2,560		63.9		2.27		
Oct 71				Sluicing increased capacity.								
Apr 73		146	97.3	3.45		2,706		61.2		2.17		
Nov 76		1	.28	.01		2,707		56.7		2.01		
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					
May 62						.75	24.4					
Aug 66						.72	26.5					
Mar 69						.91	36.6					
Oct 71						.82	35.2					
Apr 73						.85	37.6					
Nov 76						.79	37.6					

26. DATE OF SURVEY	43. 300-270 FEET DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION												
	270	240	210	180	150	120	90	60	30	-30			
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
May 62					3	7	14	23	27	26			
Aug 66				3	11	14	54	16	5	-3			
Mar 69					11	8	9	20	26	26			
Oct 71					Sluicing increased storage.								
Apr 73				1	11	16	35	18	11	8			
Nov 76				Sluicing changed distribution of storage.									

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.
1956-57	1,839.0	1,797.0	573	1968-69	1961.8	1796.0	43,398
1957-58	1,939.7	1,754.3	15,818	1969-70	1896.7	1758.0	2,717
1958-59	1,853.7	1,794.0	783	1970-71	1888.3	1784.0	4,806
1959-60	1,806.7	1,754.0	131	1971-72	1856.0	1759.3	1,062
1960-61	1,791.2	1,754.0	59	1972-73	1859.4	1821.6	8,302
1961-62	1,894.6	1,789.6	6,326	1973-74	1869.4	1820.0	7,726
1962-63	1,837.0	1,801.8	432	1974-75	1863.7	1808.0	2,279
1963-64	1,841.0	1,756.4	529	1975-76	1861.7	1783.0	1,622
1964-65	1,865.7	1,778.0	1,313				
1965-66	1,916.4	1,818.4	12,285				
1966-67	1,949.8	1,805.1	23,605				
1967-68	1,882.3	1,820.1	3,843				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1794	0	0	1870	19.5	640	1950	60	3782
1800	1.4	3.8	1880	24.3	858	1960	66	4414
1810	3.6	28.1	1890	29.0	1125	1970	71	5097
1820	5.6	75.1	1900	34.0	1440	1980	80	5858
1830	7.7	142.4	1910	39.0	1805	1990	87	6694
1840	9.5	226.9	1920	43.0	2220	2000	94	7590
1850	12.1	331.5	1930	49.0	2685	2010	102	8576
1860	15.3	465.7	1940	55.0	3209	2015	106	9096

47. REMARKS AND REFERENCES

1/ Item 14 - After flood season reservoir is used for conservation.  
 2/ Item 25 - Temperature taken at Pasadena, Calif.  
 3/ Item 37 - Sediment removed by sluicing at various times.



RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

PACOIMA FLOOD CONTROL BASIN

NAME OF RESERVOIR

70-31e

DATA SHEET NO.

DAM	1. OWNER <b>LACFCO</b>			2. STREAM <b>Pacoima Canyon</b>			3. STATE <b>Calif</b>							
	4. SEC. <b>24</b> TWP. <b>3N</b> RANGE <b>14W</b>			5. NEAREST P.O. <b>San Fernando</b>			6. COUNTY <b>Los Angeles</b>							
	7. LAT <b>34° 20' 05"</b> LONG <b>118° 23' 43"</b>			8. TOP OF DAM ELEVATION <b>2015.13</b>			9. SPILLWAY CREST ELEV. <b>1950.0</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>1950.0</b>		<b>75</b>		<b>6,060</b>		<b>6,060</b>		<b>Feb 27</b>			
	b. MULTIPLE USE													
	c. POWER													
	d. WATER SUPPLY										<b>Feb 29</b>			
	e. IRRIGATION													
	f. CONSERVATION													
g. INACTIVE														
17. LENGTH OF RESERVOIR <b>1.46</b> MILES				AV. WIDTH OF RESERVOIR <b>.08</b> MILES										
WATERSHED	18. TOTAL DRAINAGE AREA <b>28.2</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>26.35</b> INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA <b>28.2</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>4.19</b> INCHES									
	20. LENGTH <b>13.4</b> MILES		AV. WIDTH <b>2.1</b> MILES		24. MEAN ANNUAL RUNOFF <b>6297 (44)</b> AC.-FT.									
	21. MAX. ELEV. <b>6503</b>		MIN. ELEV. <b>1605</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.	
	<b>May 78</b>		<b>1.58</b>	<b>49.32</b>	<b>Contour</b>		<b>5'</b>		<b>58</b>		<b>3386</b>		<b>0.54</b>	
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-Feet			36. WATER INFL. TO DATE, AC.-FT.						
	<b>May 78</b>		<b>33.12</b>		a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL		a. MEAN ANNUAL	b. TOTAL TO DATE				
					<b>22,542</b>	<b>41,239</b>	<b>35,639</b>		<b>7,084</b>	<b>349,371</b>				
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, ACRE-Feet				38. TOTAL SED. DEPOSITS TO DATE, ACRE-Feet							
	<b>May 78</b>		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR		a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR					
		<b>396</b>	<b>250.6</b>	<b>8.89</b>		<b>3,103</b>	<b>62.9</b>	<b>2.23</b>						
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						
<b>May 78</b>				a. PERIOD	b. TOTAL TO DATE	a. AV. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE					
						<b>.89</b>	<b>44.13</b>							

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION													
	300-270	270-240	240-210	210-180	180-150	150-120	120-90	90-60	60-30	30-Crest				
May 78	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													
					1	17	4	12	21	45				
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.							
1975-76	1861.7	1783.0	1,622											
1976-77	1878.6	1787.2	1,439											
1977-78	1960.2	1870.3	41,239											
46. ELEVATION-AREA-CAPACITY DATA														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY						
1814	0	0	1890	27.3	990.2	1970	71	4696						
1820	4.0	13.0	1900	32.0	1286	1980	81	5457						
1830	6.9	70.9	1910	35.0	1627	1990	87	6294						
1840	9.2	152.2	1920	40.0	2003	2000	93	7189						
1850	11.2	253.8	1930	43.0	2418	2010	102	8175						
1860	14.1	379.9	1940	48.0	2867	2020	106	8695						
1870	17.7	536.1	1950	58.0	3386									
1880	22.6	739.7	1960	66.0	4012									
47. REMARKS AND REFERENCES														
1/ Item 14 - After flood season reservoir is used for conservation.														
2/ Item 25 - Temperature taken at Pasadena, Calif.														
3/ Item 37 - Sediment removed by sluicing at various times.														
48. AGENCY MAKING SURVEY LACFCD				50. DATE 14 February 1980										
49. AGENCY SUPPLYING DATA C of E														