

RESERVOIR SEDIMENTATION **BIG SANTA ANITA**
 DATA SUMMARY (Continued)

70-27
 DATA SHEET NO.

NAME OF RESERVOIR

DAM	1. OWNER			2. RIVER			3. STATE									
	4. SEC.		TWP.		RANGE		5. NEAREST TOWN									
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.									
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															
	b. POWER															
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR				MILES				AV. WIDTH OF RESERVOIR				MILES			
	18. TOTAL DRAINAGE AREA				SQ. MI.				22. MEAN ANNUAL PRECIPITATION				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				SQ. MI.				23. MEAN ANNUAL RUNOFF				INCHES			
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF		AC.-FT.					
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION											
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/W RATIO AC.-FT. PER SQ. MI.	
	Sept. 1943		.5		16.5		Contour		5'		13.6		604		56	
	May 1944		.7		17.2		"		5'		13.7		697		65	
	Jan. 1947		2.7		19.9		"		5'		13.8		728		67	
	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			
	Sept. 1943		5.2		19,370		19,370		3630		5225		86,220			
	May 1944		53.3		7,460		7,460		6740		5405		92,960			
	Jan. 1947		31.2		4,880		7,460		9660		5157		102,620			
	26. DATE OF SURVEY		37. PERIOD SEDIMENT DEPOSITS ACRE-FEET				38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET 3/									
		a. PERIOD TOTAL		b. AV. ANNUAL		c. PER SQ. MI.-YR.		a. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. MI.-YR.				
Sept. 1943		Sluicing increased storage capacity				830		50.3		4.66						
May 1944		"				830		48.3		4.47						
Jan. 1947		"				830		41.7		3.86						
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		
Sept. 1943								3/		4/						
May 1944								3.65		56.1						
Jan. 1947								3.51		49.3						
								3.03		47.0						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											Crest -20
	216-	200-	180-	160-	140-	120-	100-	80-	60-	40-	20-	
	200	180	160	140	120	100	80	60	40	20		
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
Feb. 1935	3	6	7	7	8	9	10	8	10	16	16	
Feb. 1936			11	7	9	2	2	9	11	20	29	
July 1938			1	8	13	20	8	8	10	14	18	
Feb. 1942						30	40	6	24			
March 1943						1	14	21	29	25	10	

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.
1927-1932	N.R.	N.R.	8,500	1939-40	1304.7	1200.0	2743
1932-33	1277.7	1156.2	2,190	1940-41	1299.2	1200.0	15,225
1933-34	1287.6	1184.4	2,603	1941-42	1304.5	1264.0	2,070
1934-35	1293.5	1164.8	3,693	1942-43	1326.3	1177.0	19,371
1935-36	1289.9	1179.6	2,480	1943-44	1311.1	1177.0	7,463
1936-37	1316.5	1207.3	8,799	1944-45	1312.5	1200.9	4,117
1937-38	1328.7	Dry	16,594	1945-46	1314.2	1214.6	3,426
1938-39	1289.5	1198.0	2,726	1946-47	1293.7	1181.0	4,489

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1180	0	0	1270	6.7	270.7			
1190	0.4	1.4	1280	8.1	344.4			
1200	1.1	8.3	1290	9.3	430.1			
1210	1.8	22.1	1300	11.0	530.2			
1220	2.6	44.0	1310	12.8	648.1			
1230	3.5	74.6	1320	14.4	783.8			
1240	4.1	112.4						
1250	4.8	156.6						
1260	5.8	209.1						

47. REMARKS AND REFERENCES

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

2/ In January 1947.

3/ Based on summation of deposits listed in Item 37a. Deposition, if any, in years of sluicing is not included in the summation.

4/ Based on data in Item 32. Storage 11 regained by sluicing.

N.R. - No record

48. AGENCY SUPPLYING DATA LACFCD & C. of E.

49. DATE 12 March 1951

RESERVOIR SEDIMENTATION
DATA SUMMARY

Big Santa Anita Flood-Control Basin

70-27b

NAME OF RESERVOIR (sheet 1 of 2)

DATA SHEET NO.

DAM	1. OWNER LACFCO			2. RIVER Santa Anita Creek			3. STATE California				
	4. SEC. TWP.		RANGE		5. NEAREST TOWN Arcadia			6. COUNTY Los Angeles			
	7. STREAM BED ELEV. 1,100			8. TOP OF DAM ELEV. 1,325			9. SPILLWAY CREST ELEV. 1,316.0				
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	1,316	17.1	1,376	1,376	1926-27					
	b. POWER										
	c. WATER SUPPLY										
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN					
	e. CONSERVATION					Mar 1927					
f. INACTIVE											
17. LENGTH OF RESERVOIR 0.453 MILES			AV. WIDTH OF RESERVOIR 0.048 MILES								
WATERSHED	18. TOTAL DRAINAGE AREA 10.8 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 34.4 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 10.8 SQ. MI.			23. MEAN ANNUAL RUNOFF 7.47 INCHES							
	20. LENGTH 5.4 MILES		AV. WIDTH 2.0 MILES		24. MEAN ANNUAL RUNOFF 4,310 (29) AC.-FT.						
	21. MAX. ELEV. 5,886		MIN. ELEV. 1,316		25. CLIMATIC CLASSIFICATION Humid						
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/W RATIO AC.-FT. PER SQ. MI.			
	Orig 1923					17.1	1,376	127			
	Feb 1935	7.9	7.9	Contour	5' - 10'	15.2	1,068	99			
	Feb 1936	1.0	8.9	"	5'	14.6	1,014	94			
	Jul 1938	2.4	11.3	"	5'	10.9	688	64			
	Feb 1940	1.6	12.9	"	5'	13.0	710	66			
	Feb 1942	2.0	14.9	"	5'	13.7	701	65			
	Mar 1943	1.1	16.0	"	5'	13.6	568	53			
	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				
1923											
Feb 1935	30.7	1,960	3,690	15,470	1,960	15,470					
Feb 1936	38.7	2,480	2,480	2,480	2,020	17,950					
Jul 1938	47.2	10,880	16,590	26,110	3,900	44,060					
Feb 1940	38.1	2,930	2,740	4,680	3,780	48,740					
Feb 1942	42.1	8,790	15,220	17,580	4,450	66,320					
Mar 1943	67.4	9,120		10,030	4,770	76,350					
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.					
1923											
Feb 1935	308	39.0	3.61	308	39.0	3.61					
Feb 1936	54	54.0	5.00	362	40.7	3.77					
Jul 1938	326	135.8	12.6	688	60.9	5.64					
Feb 1940	124	77.5	7.18	812	62.9	5.82					
Feb 1942	31	15.5	1.43	843	56.6	5.24					
Mar 1943	133	120.9	11.2	976	61.0	5.65					
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				
1923				0	0						
Feb 1935				2.84	22.4						
Feb 1936				2.99	26.3						
Jul 1938				4.43	50.0						
Feb 1940				4.57	48.4						
Feb 1942				4.11	49.1						
Mar 1943				4.43	58.7						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION										
	216-200	200-180	180-160	160-140	140-120	120-100	100-80	80-60	60-40	40-20	200
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
Feb 1935	3	6	7	7	8	9	10	8	10	16	16
Feb 1936			11	7	9	2	2	9	11	20	29
Jul 1938			1	8	13	20	8	8	10	14	18
Feb 1940	Sluicing										
Feb 1942						30	40	6	24		
Mar 1943						1	14	21	29	25	10

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.
1927-32	No record	No record	8,500 Tot.	1939-40	1,304.7	1,200.0	2,743
1932-33	1,277.7	1,156.2	2,190	1940-41	1,299.2	1,200.0	15,225
1933-34	1,287.6	1,184.4	2,603	1941-42	1,304.5	1,264.0	2,070
1934-35	1,293.5	1,164.8	3,693	1942-43	1,326.3	1,177.0	19,371
1935-36	1,289.9	1,179.6	2,480				
1936-37	1,316.5	1,207.3	8,799				
1937-38	1,328.7	Dry	16,594				
1938-39	1,289.5	1,198.0	2,776				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES

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

2/ Item 43 - Does not include sediment removed by sluicing.

RESERVOIR SEDIMENTATION
DATA SUMMARY

Big Santa Anita Flood-Control Basin

70-27b

NAME OF RESERVOIR (sheet 2 of 2)

DATA SHEET NO.

DAM	1. OWNER LACPCD		2. RIVER Santa Anita Creek		3. STATE California			
	4. SEC. TWP. RANGE		5. NEAREST TOWN Arcadia		6. COUNTY Los Angeles			
	7. STREAM BED ELEV. 1,100		8. TOP OF DAM ELEV. 1,325		9. SPILLWAY CREST ELEV. 1,316.0			
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	1,316	17.1	1,376	1,376	1926-27		
	b. POWER							
	c. WATER SUPPLY							
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	e. CONSERVATION							
f. INACTIVE					Mar 1927			
WATERSHED	17. LENGTH OF RESERVOIR 0.453 MILES		AV. WIDTH OF RESERVOIR 0.048 MILES					
	18. TOTAL DRAINAGE AREA 10.8 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 34.4 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 10.8 SQ. MI.		23. MEAN ANNUAL RUNOFF 7.47 INCHES					
	20. LENGTH 5.4 MILES AV. WIDTH 2.0 MILES		24. MEAN ANNUAL RUNOFF 4,310 (29) AC.-FT.					
	21. MAX. ELEV. 5,886 MIN. ELEV. 1,316		25. CLIMATIC CLASSIFICATION Humid					
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/W RATIO AC.-FT. PER SQ. ML.
	Sep 1943 ¹⁶	.5	16.5	Contour	5'	13.6	604	14056
	May 1944 ¹⁸	.7	17.2	"	5'	13.7	697	17265
	Jan 1947 ²⁰	2.7	19.9	"	5'	13.8	728	18967
	Dec 1952 ²²	5.9	25.8	"	5'	13.8	728	18967
	Jul 1954 ²⁴	1.6	27.4	"	5'	12.5	584	13554
	Feb 1956 ²⁶	1.5	28.9	"	5'	12.9	613	15057
	Sep 1958 ²⁸	2.6	31.5	"	5'	13.3	587	14554
	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 1943	5.2			9,980	5,220	86,330		
May 1944	53.3			6,740	5,400	93,070		
Jan 1947	31.2	3,580	4,490	9,660	5,160	102,730		
Dec 1952	25.3	2,550	8,410	15,020	4,580	117,750		
Jul 1954	21.7	2,650	3,300	4,240	4,450	121,990		
Feb 1956	28.1	1,600	1,920	2,390	4,300	124,380		
Sep 1958	30.7	5,270	11,880	13,700	4,370	138,080		
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. ML.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. ML.-YR.		
Sep 1943	36			1,012	61.3	5.68		
May 1944				1,012	58.8	5.45		
Jan 1947	13	4.7	0.44	1,025	51.5	4.77		
Dec 1952	14	2.4	0.22	1,039	40.3	3.73		
Jul 1954	158	98.8	9.15	1,197	43.7	4.05		
Feb 1956	21	14.0	1.30	1,218	42.1	3.90		
Sep 1958	27	10.2	.94	1,245	39.5	3.66		
26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PER SQ. ML.-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	
Sep 1943					56.1			
May 1944					49.3			
Jan 1947				3.74	47.1			
Dec 1952				2.93	47.1			
Jul 1954				3.18	57.6			
Feb 1956				3.06	55.4			
Sep 1958				2.87	57.3			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
Sep 1943	Sluicing											
May 1944	"											
Jan 1947	"											
Dec 1952	"											
Jul 1954	Excavation											
Feb 1956	Sluicing											
Sep 1958	"											

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.
1942-43	1,326.3	1,177.0	19,371	1950-51	1,267.8	1,234.0	460
1943-44	1,311.1	1,177.0	7,463	1951-52	1,295.5	1,181.0	8,408
1944-45	1,312.5	1,200.9	4,147	1952-53	1,279.9	1,241.0	1,562
1945-46	1,314.2	1,244.6	3,426	1953-54	1,318.2	1,183.0	3,302
1946-47	1,294.7	1,181.0	4,489	1954-55	1,270.0	Dry	1,432
1947-48	1,288.2	1,239.2	1,075	1955-56	1,303.5	Dry	2,218
1948-49	1,280.4	1,227.2	1,031	1956-57	1,278.5	1,216.2	1,535
1949-50	1,284.7	1,242.6	1,357	1957-58	1,315.5	1,219.6	11,880

46. ELEVATION-AREA-CAPACITY DATA (Sep 1958)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1,180	0	0	1,250	3.5	102	1,316	13.3	587
1,190	0	0	1,260	4.0	138			
1,200	.6	2.0	1,270	4.7	233			
1,210	1.2	9.8	1,280	5.9	233			
1,220	1.7	23.7	1,290	8.6	302			
1,230	2.3	43.4	1,300	10.5	396			
1,240	2.9	69.8	1,310	12.4	510			

47. REMARKS AND REFERENCES

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

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

Big Santa Anita Flood Control Basin

NAME OF RESERVOIR

70-27c

DATA SHEET NO.

DAM	1. OWNER LACFC			2. STREAM Santa Anita Creek			3. STATE California					
	4. SEC. 14 TWP. 1N RANGE 11W			5. NEAREST P.O. Arcadia			6. COUNTY Los Angeles					
	7. LAT 34°10'50" LONG 118°01'12"			8. TOP OF DAM ELEVATION 1,325			9. SPILLWAY CREST ELEV. 1,316					
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		1,316		17.1		1,376		1,376		1926-27	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION										Mar 27	
	f. CONSERVATION											
g. INACTIVE												
17. LENGTH OF RESERVOIR 0.453 MILES					AV. WIDTH OF RESERVOIR 0.048 MILES							
WATERSHED	18. TOTAL DRAINAGE AREA 10.8 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 37.3 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 10.8 SQ. MI.				23. MEAN ANNUAL RUNOFF 9.01 INCHES							
	20. LENGTH 5.4 MILES		AV. WIDTH 2.0 MILES		24. MEAN ANNUAL RUNOFF 5190 (40) AC.-FT.							
	21. MAX. ELEV. 5,886		MIN. ELEV. 1,316		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.			
	Apr 62		3.6	35.1	Contour	5'	11.6	630	0.16			
	Sep 66		4.4	39.5	"	5'	12.5	552	.14			
	Oct 68		2.1	41.6	"	5'	13.1	600	.14			
	Mar 69		.42	42.0	"	5'	5.8	258	.06			
	Nov 70		1.67	43.7	"	5'	13.3	836	.16			
	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		
	Apr 62		22.51		2,530	5,442	9,106	4,193		147,186		
	Sep 66		26.30		4,320	13,101	19,007	4,207		166,193		
Oct 68		34.25		9,380	16,245	19,700	4,468		185,893			
Mar 69		--		--	--	35,286	5,266		221,179			
Nov 70		20.13		4,082	38,736	6,817	5,217		227,996			
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			
Apr 62		129	35.8	3.31	1,374		39.1		3.62			
Sep 66		90	20.5	1.90	1,464		37.1		3.44			
Oct 68		70	33.4	3.09	1,534		36.9		3.48			
Mar 69		342	--	--	1,876		44.6		4.12			
Nov 70		17	10.2	.94	1,893		43.3		4.01			
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			
Apr 62					1.54	54.2						
Sep 66					1.52	60.0						
Oct 68					1.36	56.4						
Mar 69					1.93	81.2						
Nov 70					.90	39.2						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION												
	216-200	200-180	180-160	160-140	140-120	120-100	100-80	80-60	60-40	40-20	20-Crest		
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
Apr 62	Sluicing and increased storage due to excavation.												
Sep 66	Sluicing. Increased storage.												
Oct 68	Sluicing. Increased storage												
Mar 69				1	6	14	18	10	17	34			
Nov 70	Excavation of 595 ac-ft increased storage capacity.												

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.
1958-59	1284.2	1238.7	2,183				
1959-60	1294.9	1192.0	955				
1960-61	1271.1	1213.8	527				
1961-62	1460.4	1399.4	5,442				
1962-63	1288.4	1182.3	1,628				
1963-64	1283.3	1182.3	1,219				
1964-65	1287.3	1182.3	2,039				
1965-66	1319.8	1229.0	13,102				
1966-67	1319.5	1180.0	16,245				
1967-68	1291.8	1180.0	3,387				
1968-69	1328.0	1186.0	38,736				
1969-70	1289.4	1183.0	2,859				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1180	0	0	1250	6.0	188	1320	13.6	890
1190	0.4	2.65	1260	7.3	255			
1200	1.5	10.8	1270	8.5	335			
1210	2.2	30.2	1280	9.6	426			
1220	2.8	55.7	1290	10.6	527			
1230	3.8	88.4	1300	11.5	638			
1240	5.0	134.0	1310	12.6	758			

47. REMARKS AND REFERENCES

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

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

3/ Item 37 - Includes sediment removed.

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

SANTA ANITA FLOOD CONTROL BASIN 1/

NAME OF RESERVOIR

70-27c

DATA SHEET NO.

DAM	1. OWNER LACFCO		2. STREAM Santa Anita Creek		3. STATE CALIF					
	4. SEC. 14 TWP. 1N RANGE 11W		5. NEAREST P.O. Arcadia		6. COUNTY Los Angeles					
	7. LAT 34° 10' 50" LONG 118° 01' 12"		8. TOP OF DAM ELEVATION 1325		9. SPILLWAY CREST ELEV. 1316					
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA, ACRES	13. ORIGINAL CAPACITY, ACRE-FEET	14. GROSS STORAGE, ACRE-FEET 2/	15. DATE STORAGE BEGAN				
	a. FLOOD CONTROL	1316	17.1	1376	1376	1926-27				
	b. MULTIPLE USE									
	c. POWER									
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN Mar 27				
	e. IRRIGATION									
	f. CONSERVATION									
	g. INACTIVE									
17. LENGTH OF RESERVOIR	0.453	MILES	AV. WIDTH OF RESERVOIR	0.048	MILES					
WATERSHED	18. TOTAL DRAINAGE AREA		10.8		SQ. MI.	22. MEAN ANNUAL PRECIPITATION	37.3	INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		10.8		SQ. MI.	23. MEAN ANNUAL RUNOFF		9.01	INCHES	
	20. LENGTH	5.4	MILES	AV. WIDTH	2.0	MILES	24. MEAN ANNUAL RUNOFF		5,190 (40)	AC.-FT.
	21. MAX. ELEV.	5,886	MIN. ELEV.	1,100	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 73	2.83	46.50	Contour	5'	13.7	787	.15		
	Apr 78	4.58	51.08	"	5'	13.5	715	.14		
	May 78	.08	51.16	"	5'	13.7	809	.16		
	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	20.46	3,700	6,465	10,471	5,128	238,467			
	Apr 78	30.91	5,879	21,769	26,927	5,196	265,394			
	May 78	4/ 1.94	37,763 4/	21,769	3,021	5,247	268,415			
	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				
Sep 73	49	17.3	1.60	1,942	41.8	3.87				
Apr 78	72	15.7	1.45	2,014	39.4	3.65				
May 78	Capacity increased by excavation.									
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			
Sep 73				.92	42.8					
Apr 78				.94	48.0					
May 78				.81	41.0					

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION													
	215	208	180	160	140	120	100	80	60	40	20	Crest		
Sep 73 Apr 78 May 78	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													
					12	27	16	7	21	15	2			
					1	7	6	14	36	32	4			
Excavation of 94 acre-feet increased storage capacity.														
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.							
1970-71	1272.9	1180.0	3,213											
1971-72	1279.2	1240.5	1,317											
1972-73	1313.4	1247.1	6,465											
1973-74	1310.2	1251.4	4,760											
1974-75	1293.7	1193.6	2,346											
1975-76	1285.95	1207.6	1,580											
1976-77	1291.1	1234.17	1,320											
1977-78	1319.95	1193.00	21,769											
46. ELEVATION-AREA-CAPACITY DATA														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY						
1184	0	0	1270	322.3	7.9									
1190	2.15	0.55	1280	406.4	8.9									
1200	10.6	1.3	1290	501.7	10.1									
1210	28.2	2.2	1300	609.4	11.4									
1220	53.2	2.8	1310	729.5	12.8									
1230	86.5	3.9	1320	864.6	14.4									
1240	130.3	4.9												
1250	184.3	5.9												
1260	247.9	6.9												
47. REMARKS AND REFERENCES														
1/ Title - Name changed from Big Santa Anita to Santa Anita Flood Control Basin.														
2/ Item 14 - After flood season, reservoir is used for conservation.														
3/ Item 25 - Temperature taken at Pasadena, California.														
4/ Item 35 - This amount seems out of line due to short time period.														
48. AGENCY MAKING SURVEY LACFCD														
49. AGENCY SUPPLYING DATA C of E														
50. DATE 14 February 1980														