

RESERVOIR SEDIMENTATION SAN GABRIEL DAM #1.
 DATA SUMMARY (in 2 sheets)

70-21

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER LACFO			2. RIVER San Gabriel			3. STATE California			
	4. SEC. TWP. 2 N RANGE 9 W			5. NEAREST TOWN Azusa			6. COUNTY Los Angeles			
	7. STREAM BED ELEV. 1190			8. TOP OF DAM ELEV. 1161			9. SPILLWAY CREST ELEV. 1153			
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	1,453	538	53,344	53,344	11/17/37				
	b. POWER									
	c. WATER SUPPLY									
	d. IRRIGATION				10,000 1/	10,357	16. DATE NORMAL OPER. BEGAN			
	e. CONSERVATION									
	f. INACTIVE	1,285		25.8	357	357	July 1939			
WATERSHED	17. LENGTH OF RESERVOIR 4.99 MILES			AV. WIDTH OF RESERVOIR 0.169 MILES						
	18. TOTAL DRAINAGE AREA 203 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 31.37 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA *212 2/ SQ. MI.			23. MEAN ANNUAL RUNOFF 10.22 INCHES						
	20. LENGTH * 21.03 MILES AV. WIDTH 7.8 MILES			24. MEAN ANNUAL RUNOFF 110,700 (15) AC.-FT.						
	21. MAX. ELEV. 10,059 MIN. ELEV. 1190			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.		
	Original	---	---	Contour	5 ft.	538	53,344			
	Oct. 1938	.9	.9	"	20 ft.	526	47,191			
	Nov. 1940	2.1	3.0	"	10 ft.	528	46,335			
	Sept. 1941	.8	3.8	"	10 ft.	534	45,862			
	Oct. 1942	1	4.8	"	10 ft.	534	45,759			
	Sept. 1943	1	5.8	"	10 ft.	535	44,032			
	Oct. 1944	1.1	6.9	"	10 ft.	540	44,388			
	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			
	Original									
	Oct. 1938	66.4	N.D. #	341,500	341,500	341,500	341,500			
	Nov. 1940	30.1	66,500	75,000	125,800	155,800	467,300			
	Sept. 1941	72.8	311,800	311,800	303,400	202,800	770,700			
	Oct. 1942	25.1	39,300	39,300	51,700	171,300	822,400			
Sept. 1943	50.0	273,700	273,700	269,900	188,300	1,092,300				
Oct. 1944	42.5	190,200	190,200	178,800	184,200	1,271,100				
26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET 4/						
	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YR.				
Original										
Oct. 1938	6,153	6,850	28.3	6,153	6,850	28.3				
Nov. 1940	856	407	1.68	7,009	2,340	9.65				
Sept. 1941	473	592	2.44	7,482	1,970	8.13				
Oct. 1942	103	103	.43	7,585	1,580	6.53				
Sept. 1943	1,727	1,727	7.13	9,312	1,605	6.63				
Oct. 1944	Sluicing increased storage 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. ANNUAL	b. TO DATE	a. PERIOD	b. TO DATE			
Original										
Oct. 1938				1/	5/					
Nov. 1940				12.8	11.5					
Sept. 1941				4.4	13.1					
Oct. 1942				3.7	14.0					
Sept. 1943				3.0	14.2					
Oct. 1944				3.0	17.5					
				---	16.8					

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION												Crest
	253-210	210-190	190-170	170-150	150-138	138-118	118-90	90-70	70-50	50-30	30-10	-10	
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													
Original	13	12	2	7	11	9	10	14	11	10	1		
Oct. 1938	1	14	47	38									
Nov. 1940	-	6	30	28	0	4	32						
Sept. 1941	-	1	36	63									
Oct. 1942	-	1	6	21	13	13	13	15	18				
Sept. 1943													
Oct. 1944	Sluicing 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.

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

47. REMARKS AND REFERENCES
 1/ Item 13d. 10,000 A.F. may be allowed in storage for irrigation and spreading purposes during the flood season. After the flood season is over water may be stored to spillway crest elevation.
 2/ Item 19. Includes San Gabriel Dam #2 drainage area as sediment is sluiced into San Gabriel Dam #1 drainage area.
 3/ Item 20. Uncontrolled.

48. AGENCY SUPPLYING DATA _____ 49. DATE 10 Jan 1952.

RESERVOIR SEDIMENTATION - SAN GABRIEL DAM #1
DATA SUMMARY (Continued)

70-21
DATA SHEET NO.

DAM		1. OWNER		2. RIVER		3. STATE		
DAM		4. SEC. TWP. RANGE		5. NEAREST TOWN		6. COUNTY		
DAM		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							
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	e. CONSERVATION							
	f. INACTIVE							
WATERSHED		17. LENGTH OF RESERVOIR		MILES	AV. WIDTH OF RESERVOIR		MILES	
WATERSHED		18. TOTAL DRAINAGE AREA		SQ. MI.	22. MEAN ANNUAL PRECIPITATION		INCHES	
WATERSHED		19. NET SEDIMENT CONTRIBUTING AREA		SQ. MI.	23. MEAN ANNUAL RUNOFF		INCHES	
WATERSHED		20. LENGTH		MILES	24. MEAN ANNUAL RUNOFF		AC.-FT.	
WATERSHED		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.
	Nov. 1945	1	7.9	Contour	10 ft.	540	44,342	
	Nov. 1948	3	10.9	"	10 ft.	540	43,825	
	Nov. 1951	3	13.9	"	10 ft.	540	43,928	
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	
	Nov. 1945	36.8	93,100	93,100	94,800	172,900	1,365,900	
	Nov. 1948	26.9	70,700	128,000	232,000	116,600	1,597,900	
Nov. 1951	19.5	21,000	28,800	62,900	11,900	1,661,000		
SURVEY DATA	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET 4/			
		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YR.	
	Nov. 1945	46	46	.19	9,358	1,185	4.90	
	Nov. 1948	517	172	.71	9,875	907	3.74	
Nov. 1951	Sluicing increased storage capacity			9,875	710	2.93		
SURVEY DATA	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
	Nov. 1945				4/	5/		
	Nov. 1948				2.2	16.9		
Nov. 1951				1.7	17.8			
					1.3	17.7		

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE AND BELOW, CREST ELEVATION											Crest -10
	253-	210-	190-	170-	150-	130-	110-	90-70	70-50	50-30	30-10	
	210	190	170	150	130	110	90	70	50	30	10	
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
Nov. 1945	-	4	96									
Nov. 1948	-	-	-	38	62							
Nov. 1951	Sluicing 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.
1937-38	1462.5	Dry	339,200	1945-46	1423.8	1278.0	99,530
1938-39	1330.6	1263.6	67,230	1946-47	1394.2	1309.8	107,700
1939-40	1359.4	1273.0	58,550	1947-48	1370.8	1311.2	29,260
1940-41	1447.2	1273.0	306,500	1948-49	1359.9	1280.5	24,700
1941-42	1339.4	1273.6	50,280	1949-50	1349.6	1302.2	28,800
1942-43	1422.4	1275.8	271,300	1950-51	1326.8	Dry	9,500
1943-44	1430.3	1272.2	184,900				
1944-45	1405.1	1277.2	91,960				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1250	0	0	1335	152	4415	1425	430	30,472
1255	0	0.2	1345	191	6108	1435	463	34,936
1265	0.7	1.5	1355	222	8174	1445	509	39,752
1275	21.4	146	1365	242	10,481	1453	540	43,928
1285	31.3	407	1375	271	13,023			
1295	40.6	759	1385	303	15,879			
1305	62.3	1241	1395	335	19,063			
1315	95.0	2004	1405	367	22,556			
1325	122	3068	1415	397	26,357			

47. REMARKS AND REFERENCES

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

5/ Based on data in Item 32. Storage is gained by sluicing operations.

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

49. DATE 10 Jan 1952

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SAN GABRIEL FLOOD CONTROL BASIN

NAME OF RESERVOIR

70-21b

DATA SHEET NO.

SCS-34 Rev. 6-66

DAM	1. OWNER LACFCD			2. STREAM San Gabriel			3. STATE California									
	4. SEC. TWP. 2 N RANGE 9 W			5. NEAREST P.O. Azusa			6. COUNTY Los Angeles									
	7. Stream Bed Elev. 1190			8. TOP OF DAM ELEVATION 1481			9. SPILLWAY CREST ELEV. 1453									
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		1,453		538		53,344		53,344		11-17-37					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION						10,000 1/		10,357							
	f. CONSERVATION															
WATERSHED	g. INACTIVE		1,285+		25.8		357		357		July 1939					
	17. LENGTH OF RESERVOIR 4.99 MILES				AV. WIDTH OF RESERVOIR 0.169 MILES											
	18. TOTAL DRAINAGE AREA 203 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 34.37 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 242 2/ SQ. MI.				23. MEAN ANNUAL RUNOFF 10.22 INCHES											
20. LENGTH 21.03/ MILES		AV. WIDTH 7.8 MILES		24. MEAN ANNUAL RUNOFF 110,700 (15) AC.-FT.												
21. MAX. ELEV. 10,059			MIN. ELEV. 1190			25. Climatic Classification Humid c/t										
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. CA -RATIO, Ratio AC.-FT. PER AC.-FT.	
	Original		--		--		Contour		5 ft.		538		53,344		.612	
	Oct. 1938		.9		.9		"		20 ft.		526		47,191		.543	
	Nov. 1940		2.1		3.0		"		10 ft.		528		46,335		.533	
	Sept. 1941		.8		3.8		"		10 ft.		534		45,862		.527	
	Oct. 1942		1		4.8		"		10 ft.		534		45,759		.526	
	Sept. 1943		1		5.8		"		10 ft.		535		44,032		.506	
	Oct. 1944		1.1		6.9		"		10 ft.		540		44,388		.510	
	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			
Original				N.D. #												
Oct. 1938		66.4		59,800		75,000		341,500		155,800		467,300				
Nov. 1940		30.1		51,700		51,700		125,800		202,800		770,700				
Sept. 1941		72.8		69,900		269,900		303,400		171,300		822,400				
Oct. 1942		25.1		190,200		190,200		51,700		188,300		1,092,300				
Sept. 1943		50.0						269,900		184,800		1,271,100				
Oct. 1944		42.5						178,800								
26. DATE OF SURVEY		37. 4/ 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				
Original																
Oct. 1938		6,153		6,850		28.3		6,153		6,850		28.3				
Nov. 1940		856		407		1.68		7,009		2,340		9.65				
Sept. 1941		473		103		.43		7,482		1,970		8.13				
Oct. 1942		103		1,727		7.13		7,585		1,580		6.53				
Sept. 1943		1,727						9,312		1,605		6.63				
Oct. 1944		Sluicing increased storage 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		
Original								1/								
Oct. 1938								12.8		11.5						
Nov. 1940								4.4		13.1						
Sept. 1941								3.7		14.0						
Oct. 1942								3.0		14.2						
Sept. 1943								3.0		17.5						
Oct. 1944								--		16.8						

- Not Determined

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION												Crest	
	210	198	178	158	138	118	98	78	58	38	18	0	-10	
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
Original														
Oct. 1938	13	12	2	7	11	9	10	14	11	10	1			
Nov. 1940	1	14	47	38										
Sept. 1941	--	6	30	28	0	4	32							
Oct. 1942	--	1	36	63										
Sept. 1943	--	1	6	21	13	13	13	15	18					
Oct. 1944		Sluicing 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.							
46. ELEVATION-AREA-CAPACITY DATA														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY						
47. REMARKS AND REFERENCES														
<p>1/ Item 13d. 10,000 A.F. may be allowed in storage for irrigation and spreading purposes during the flood season. After the flood season is over water may be stored to spillway crest elevation.</p> <p>2/ Item 19. Includes San Gabriel Dam #2 drainage area as sediment is sluiced into San Gabriel Dam #1 drainage area.</p> <p>3/ Item 20. Uncontrolled.</p> <p>4/ Item 37a - Various amounts removed by sluicing.</p>														
48. AGENCY MAKING SURVEY LACFCD & C of E														
49. AGENCY SUPPLYING DATA														
50. DATE Revised July 1962														

RESERVOIR SEDIMENTATION
DATA SUMMARY

SAN GABRIEL FLOOD CONTROL BASIN

70-21b

NAME OF RESERVOIR (sheet 2 of 2)

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. RIVER San Gabriel River			3. STATE California				
	4. SEC. TWP. RANGE			5. NEAREST TOWN Azusa			6. COUNTY Los Angeles				
	7. STREAM BED ELEV. 1,100			8. TOP OF DAM ELEV. 1,481			9. SPILLWAY CREST ELEV. 1,453				
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	1,453	538	52,987	53,344	17 Nov 37					
	b. POWER										
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION			10,000 1/	10,357						
	e. CONSERVATION					July 1939					
	f. INACTIVE	1,285	25.8	357	357						
17. LENGTH OF RESERVOIR 4.99 MILES			AV. WIDTH OF RESERVOIR .169 MILES								
WATERSHED	18. TOTAL DRAINAGE AREA 203 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 35.6 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 242 2/ SQ. MI.			23. MEAN ANNUAL RUNOFF 8.08 INCHES							
	20. LENGTH 21.0 3/ MILES AV. WIDTH 7.8 MILES			24. MEAN ANNUAL RUNOFF 87,400 (25) AC.-FT.							
	21. MAX. ELEV. 10,059 MIN. ELEV. 1,453			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.			
	Nov 1945	1	7.9	Contour	10 ft.	540	44,342	183			
	Nov 1948	3	10.9	"	10 ft.	540	43,825	180			
	Nov 1951	3	13.9	"	10 ft.	540	43,928	181			
	Jan 1953	1.2	15.1	"	10 ft.	540	43,853	180			
	May 1954	1.3	16.4	"	10 ft.	535	44,013	181			
	Aug 1958	4.3	20.7	"	10 ft.	543	44,614	184			
	Sep 1961	3.1	23.8	"	10 ft.	542	44,366	183			
	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				
	Nov 1945	36.8	94,800	94,800	94,800	172,900	1,365,900				
	Nov 1948	26.9	77,300	128,000	232,000	146,600	1,597,900				
	Nov 1951	19.5	21,000	28,800	62,900	119,500	1,660,800				
	Jan 1953	48.5	122,700	120,800	147,200	119,700	1,808,000				
	May 1954	26.63	53,800	60,500	70,000	110,200	1,878,000				
Aug 1958	29.99	77,500	77,900	344,588	106,875	2,223,000					
Sep 1961	16.75	25,090	43,762	75,276	96,200	2,298,000					
26. DATE OF SURVEY	37. 4/ 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.					
Nov 1945	46	46	0.19	9,972	1,260	5.18					
Nov 1948	622	235	0.97	10,594	972	4.00					
Nov 1951	166	55	0.23	10,760	775	3.19					
Jan 1953	275	229	0.94	11,035	731	3.01					
May 1954	40	30.8	.127	11,075	675	2.78					
Aug 1958	202	47.0	.193	11,277	545	2.24					
Sep 1961	248	80.0	.329	11,525	484	1.99					
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. ANNUAL	b. TO DATE	a. PERIOD	b. TO DATE				
Nov 1945				2.36	16.9						
Nov 1948				1.62	17.8						
Nov 1951				1.45	17.7						
Jan 1953				1.37	17.8						
May 1954				1.26	17.5						
Aug 1958				1.02	16.4						
Sep 1961				.90	16.8						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	210	210-190	170	170-150	130	130-110	90	90-70	70-50	50-30	30-10	10-crest
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
Oct 1944		Sluicing										
Nov 1945		4	96									
Nov 1946				38	62							
Nov 1941		Sluicing										
Jan 1953	1	57	2			40						
May 1954		Sluicing										
Aug 1958		Sluicing										
Sep 1961		6	19	52	23							

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.
1937-38	1,462.6	Dry	339,200	1949-50	1,349.6	1,302.2	28,800
1938-39	1,330.6	1,263.6	67,230	1950-51	1,326.8	Dry	9,500
1939-40	1,359.4	1,273.0	53,560	1951-52	1,447.8	Dry	120,640
1940-41	1,447.2	1,273.0	306,500	1952-53	1,441.9	1,250	41,270
1941-42	1,339.4	1,273.6	50,280	1953-54	1,389.9	1,260.0	60,510
1942-43	1,422.4	1,276.6	271,300	1954-55	1,355.4	1,303.1	39,159
1943-44	1,430.3	1,272.2	194,900	1955-56	1,363.3	1,290.9	35,215
1944-45	1,405.1	1,377.2	91,960	1956-57	1,350.1	Dry	37,210
1945-46	1,425.8	1,278.0	99,530	1957-58	1,449.57	Dry	227,100
1946-47	1,394.8	1,309.8	107,700	1958-59	1,353.00	1,295.10	43,762
1947-48	1,370.8	1,311.2	29,260	1959-60	1,331.27	1,296.70	19,474
1948-49	1,359.9	1,286.5	28,788	1960-61	1,329.22	1,268.50	12,040

46. ELEVATION-AREA-CAPACITY DATA (Sep 1961)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1,250	0	0	1,430	451	32,966			
1,270	7.4	24.7	1,450	531	42,755			
1,290	41.4	512.6	1,453	542	44,366			
1,310	79	1,643						
1,330	132	3,752						
1,350	208	7,126						
1,370	260	11,846						
1,390	319	17,670						
1,410	380	24,651						

47. REMARKS AND REFERENCES

- 1/ Item 13d - 10,000 ac.-ft. may be allowed in storage for irrigation and spreading purposes during the flood season. After the flood season is over water may be stored to spillway crest elevation.
- 2/ Item 19 - Includes San Gabriel Dam #2 drainage area as sediment is sluiced into San Gabriel Dam #1 drainage area.
- 3/ Item 20 - Uncontrolled.
- 4/ Item 37a - Various amounts removed by sluicing.

48. AGENCY SUPPLYING DATA LACFCD & C OF E

49. DATE 15 Jan 1962

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

San Gabriel (San Gabriel Dam No. 1)
NAME OF RESERVOIR

70-214
DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM San Gabriel River			3. STATE California			
	4. SEC. TWP. RANGE			5. NEAREST TOWN Azusa			6. COUNTY Los Angeles			
	7. STREAM BED ELEVATION 1,100			8. TOP OF DAM ELEVATION 1,481			9. SPILLWAY CREST ELEV. 1,453			
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. MULTIPLE USE	1453	538	52,987	53,344	17 Nov 37				
	b. FLOOD CONTROL				52,987					
	c. POWER					16. DATE NORMAL OPER. BEGAN				
	d. WATER SUPPLY									
	e. IRRIGATION					July 1939				
	f. CONSERVATION			2/ 10,000	10,357					
	g. SEDIMENT					July 1939				
h. INACTIVE	1285	25.8	357	357						
17. LENGTH OF RESERVOIR		4.99	MILES	AV. WIDTH OF RESERVOIR		.169	MILES			
WATERSHED	18. TOTAL DRAINAGE AREA		203	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		35.6	INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		3/ 203	SQ. MI.	23. MEAN ANNUAL RUNOFF		8.18	INCHES		
	20. LENGTH		21.0	MILES	AV. WIDTH		7.8	MILES		
	21. MAX. ELEV.		10,059	MIN. ELEV.		1,100	25. CLIMATIC CLASSIFICATION Humid			
	24. MEAN ANNUAL RUNOFF						88,534(26) AC.-F.T.			
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.		
	Nov 1962	1.2	25.0	Contour	10 feet	540	43,642	215		
	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			
	Nov 1962	33.52	101,327	116,890	121,592	96,784	2,419,600			
	26. DATE OF SURVEY	37. 4/ PERIOD SEDIMENT DEPOSITS 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			
	Nov 1962	724	603	2.49	12.249	490	2.02			
	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. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE		
Nov 1962				0.72	18.1					

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION										
	203/190	190/170	170/150	150/130	130/110	110/90	90/70	70/50	50/30	30/10	10 Crest
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
Nov 1962		2	9	8	12	24	22	10	13		

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.
1944-45	1405.1	1377.2	91,960	1953-54	1389.9	1260.0	60,510
1945-46	1425.8	1278.0	99,530	1954-55	1355.4	1303.1	39,159
1946-47	1394.2	1309.8	107,700	1955-56	1363.3	1290.9	35,215
1947-48	1370.8	1311.2	29,260	1956-57	1350.1	Dry	37,210
1948-49	1359.9	1280.5	29,700	1957-58	1449.57	Dry	227,100
1949-50	1349.6	1302.2	28,800	1958-59	1353.0	1295.1	43,762
1950-51	1326.8	Dry	9,500	1959-60	1331.27	1296.7	19,474
1951-52	1447.8	Dry	120,640	1960-61	1329.22	1268.46	12,040
1952-53	1441.9	1250.0	41,270	1961-62	1422.9	1269.5	116,890

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1250	0	0	1410	372	23,965			
1270	4.5	18.4	1430	451	32,230			
1290	35.0	454.5	1450	530	42,032			
1310	75.0	1544.0	1453	540	43,642			
1330	126.0	3589.0						
1350	201.0	6857.0						
1370	253.0	11396.0						
1390	316.0	17072.0						

47. REMARKS AND REFERENCES

- 1/ Item 14. After flood season, reservoir is used for conservation.
- 2/ Item 13g. 10,000 ac. ft. may be allowed in storage for irrigation and spreading during flood season. After flood season water may be stored to spillway crest.
- 3/ Item 19. Includes Cogswell drainage area (39.2 sq. mi..). Sediment is sluiced into this area.
- 4/ Various amounts removed by sluicing.

48. AGENCY MAKING SURVEY Los Angeles County Flood-Control District (IACFCD)
49. AGENCY SUPPLYING DATA Corps of Engineers, Los Angeles
50. DATE 11 Feb 64

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

SAN GABRIEL (San Gabriel Dam No. 1)

NAME OF RESERVOIR

70-21d

DATA SHEET NO.

DAM	1. OWNER LACFCD		2. STREAM San Gabriel River		3. STATE California						
	4. SEC. 6 TWP. 1N RANGE 9W		5. NEAREST P.O. Azusa		6. COUNTY Los Angeles						
	7. LAT 34° 12' 25" LONG 118° 51' 30"		8. TOP OF DAM ELEVATION 1,481		9. SPILLWAY CREST ELEV. 1,453						
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA, ACRES	13. ORIGINAL CAPACITY, ACRE-Feet	14. GROSS STORAGE, 1/ ACRE-Feet	15. DATE STORAGE BEGAN					
	a. FLOOD CONTROL	1453	538	52,987	53,344	17 Nov 37					
	b. MULTIPLE USE				52,987						
	c. POWER					16. DATE NORMAL OPER. BEGAN					
	d. WATER SUPPLY										
	e. IRRIGATION					Jul 39					
	f. CONSERVATION			2/ 10,000	10,357						
	g. INACTIVE	1285	25.8	357	357						
17. LENGTH OF RESERVOIR	4.99	MILES	AV. WIDTH OF RESERVOIR	.169	MILES						
WATERSHED	18. TOTAL DRAINAGE AREA		203		22. MEAN ANNUAL PRECIPITATION		35.6		INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		3/ 203		23. MEAN ANNUAL RUNOFF		8.03		INCHES		
	20. LENGTH		21.0		MILES		AV. WIDTH		9.7		
21. MAX. ELEV.	10,059	MIN. ELEV.	1,100	25.4	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.			
	Nov 62	1.2	25.0	Contour	10'	540	43,642	0.51			
	Dec 65	3.1	28.1	Contour	10'	540	42,371	.49			
	Apr 66	.3	28.4	Contour	10'	541	42,075	.51			
	Aug 67	1.3	29.75	Contour	10'	540	40,697	.46			
	Feb 69	1.5	31.25	Contour	10'	519	38,778	.45			
	May 69	.25	31.50	Contour	10'	518	36,748	.42			
	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				
	Nov 62	33.52	101,327	116,890	121,592	96,784	2,419,600				
	Dec 65	30.18	48,513	36,282	150,400	91,459	2,570,000				
	Apr 66	---	---	---	122,200	94,796	2,692,200				
	Aug 67	38.93	44,077	---	57,300	92,575	2,749,500				
Feb 69	63.15	274,146	66,856	411,219	101,143	3,160,719					
May 69	---	---	---	149,887	105,099	3,310,606					
26. DATE OF SURVEY	37. 5/ 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					
Nov 62	724	603	2.49	12,249	490	2.02					
Dec 65	1,271	410	2.02	13,520	481	2.37					
Apr 66	1,137	--	--	14,657	516	2.54					
Aug 67	1,378	1,060	5.22	16,035	540	2.66					
Feb 69	2,698	1,799	8.86	18,733	599	2.95					
May 69	2,030	--	--	20,763	659	3.24					
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				
Nov 62				0.72	18.1						
Dec 65				.73	20.6						
Apr 66				.74	20.9						
Aug 67				.80	23.7						
Feb 69				.87	27.3						
May 69				.99	31.1						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION													
	203-190	190-170	170-150	150-130	130-110	110-90	90-70	70-50	50-30	30-10	10-Crest			
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
Nov 62	2	9	8	12	24	22	10	13						
Dec 65		5	42	16	27	2	1	7						
Apr 66			Sluicing											
Aug 67		9	20	34	36									
Feb 69			Sluicing (779 Ac-ft)											
May 69		5	6	8	38	35	5	1	2					
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.							
1947-48	1370.8	1311.2	29,260	1959-60	1131.27	1296.7	19,474							
1948-49	1359.9	1280.5	29,700	1960-61	1329.22	1268.46	12,040							
1949-50	1349.6	1302.2	28,800	1961-62	1422.9	1269.5	116,890							
1950-51	1326.8	Dry	9,500	1962-63	1348.29	1303.94	25,928							
1951-52	1447.8	Dry	120,640	1963-64	1360.09	1306.6	24,009							
1952-53	1441.9	1250.0	41,270	1964-65	1392.13	1301.43	36,281							
1953-54	1389.9	1260.0	60,510	1965-66	1407.3	1250.0	220,689							
1954-55	1355.4	1303.1	39,159	1966-67	1428.68	1320.4	224,903							
1955-56	1363.3	1290.9	35,215	1967-68	1383.9	1305.2	66,856							
1956-57	1350.1	Dry	37,210											
1957-58	1449.57	Dry	227,100											
1958-59	1353.0	1259.1	43,762											
46. ELEVATION-AREA-CAPACITY DATA														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY						
1293	0	0	1370	179	7189	1450	505	35,209						
1300	28.2	139	1380	228	9223	1460	551	40,521						
1310	48.3	546	1390	272	11,739	1470	605	46,347						
1320	58.0	1,076	1400	312	14,686	1480	657	52,688						
1330	89.2	1,796	1410	348	18,006									
1340	109	2,818	1420	388	21,697									
1350	134	4,045	1430	431	25,818									
1360	156	5,506	1440	468	30,330									
47. REMARKS AND REFERENCES														
1/ Item 14 - After flood season, reservoir is used for conservation.														
2/ Item 13f - 10,000 acre-feet may be allowed in storage for irrigation and spreading during flood season. After flood season water may be stored to spillway crest.														
3/ Item 19 - Includes Cogswell drainage area (39.2 sq.mi.). Sediment is sluiced into this area.														
4/ Item 25 - Temperature taken at Pasadena, California.														
5/ Item 37 - Various amounts removed by sluicing.														
48. AGENCY MAKING SURVEY			LACFCD											
49. AGENCY SUPPLYING DATA			C of E			50. DATE 4 Feb 70								

RESERVOIR SEDIMENT
DATA SUMMARY

SAN GABRIEL (San Gabriel Dam No. 1)
NAME OF RESERVOIR

70-21d
DATA SHEET NO.

DAM	1. OWNER LACFCD		2. STREAM San Gabriel River		3. STATE Calif		
	4. SEC. 6 TWP. 1N RANGE 9W		5. NEAREST P.O. Azusa		6. COUNTY Los Angeles		
	7. LAT 34° 12' 25" LONG 118° 51' 30"		8. TOP OF DAM ELEVATION 1,481		9. SPILLWAY CREST ELEV. 1,453		
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA, ACRES	13. ORIGINAL CAPACITY, ACRE-Feet	14. GROSS STORAGE, 1/ACRE-Feet	15. DATE STORAGE BEGAN	
	a. FLOOD CONTROL	1,453	538	52,987	53,344	17 Nov 37	
	b. MULTIPLE USE				52,987		
	c. POWER						
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION						
	f. CONSERVATION			2/ 10,000	10,357	Jul 39	
	g. INACTIVE	1,285	25.8	357	357		
17. LENGTH OF RESERVOIR 4.99 MILES		AV. WIDTH OF RESERVOIR .169 MILES					
WATERSHED	18. TOTAL DRAINAGE AREA 203 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 35.6 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 3/ 203 SQ. MI.		23. MEAN ANNUAL RUNOFF 8.03 INCHES				
	20. LENGTH 21.0 MILES		AV. WIDTH 9.7 MILES		24. MEAN ANNUAL RUNOFF 86,956 (30) AC.-FT.		
	21. MAX. ELEV. 10,059		MIN. ELEV. 1,100		25. ANNUAL TEMP. MEAN 62.2° RANGE 48.8°-75.6°		
	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
Oct 69	.42	31.92	Contour	10'	518	37,822	.43
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 69				45,848	105,152	3,356,454	
26. DATE OF SURVEY	37. 5/ 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 69	0	--	--	20,763	650	3.20	
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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE
Oct 69				0.91	29.1		

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION														
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
Oct 69			Sluicing	1,074	Acre-feet										
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.								
1968-69	1459.4	1300.1	528,949												
46. ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
1259	0	0	1330	94.6	2525	1410	348	19,079							
1260	0.7	0.4	1340	125	3639	1420	388	22,770							
1270	4.4	29.2	1350	141	4978	1430	431	26,891							
1280	7.9	89.3	1360	160	6486	1440	468	31,403							
1290	17.4	216	1370	178	8173	1450	505	36,283							
1300	38.0	508	1380	229	10,236	1460	551	41,596							
1310	61.5	1,016	1390	274	12,769	1470	605	47,421							
1320	72.0	1,694	1400	316	15,751	1480	657	53,742							
47. REMARKS AND REFERENCES															
<p>1/ Item 14 - After flood season, reservoir is used for conservation.</p> <p>2/ Item 13f - 10,000 acre-feet may be allowed in storage for irrigation and spreading during flood season. After flood season water may be stored to spillway crest.</p> <p>3/ Item 19 - Includes Cogswell drainage area (39.2 sq.mi.). Sediment is sluiced into this area.</p> <p>4/ Item 25 - Temperature taken at Pasadena, California.</p> <p>5/ Item 37 - Various amounts removed by sluicing.</p>															
48. AGENCY MAKING SURVEY LACFCD				49. AGENCY SUPPLYING DATA C of E				50. DATE 4 Feb 70							

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

San Gabriel (San Gabriel Dam No. 1)

NAME OF RESERVOIR

70-21 d
DATA SHEET NO.

DAM	1. OWNER LACFCD		2. STREAM San Gabriel River		3. STATE Calif			
	4. SEC. 6 TWP. 1N RANGE 9W		5. NEAREST P O Azusa		6. COUNTY Los Angeles			
	7. LAT. 34°12'25" LONG. 118°51'30"		8. TOP OF DAM ELEVATION 1,481		9. SPILLWAY CREST ELEV. 1,453			
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	1,453	538	52,987	53,344	17 Nov 37		
	b. MULTIPLE USE				52,987			
	c. POWER							
	d. WATER SUPPLY							
	e. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	f. CONSERVATION			2/ 10,000	10,357			
	g. INACTIVE	1,285	25.8	357	357			
17. LENGTH OF RESERVOIR	4.99	MILES	AV. WIDTH OF RESERVOIR	.169	MILES			
WATERSHED	18. TOTAL DRAINAGE AREA		203		SQ. MI.			
	19. NET SEDIMENT CONTRIBUTING AREA		3/ 203		SQ. MI.			
	20. LENGTH		21.0		MILES			
	21. MAX. ELEV.		10,059		MIN. ELEV. 1,100			
	22. MEAN ANNUAL PRECIPITATION		35.6		INCHES			
23. MEAN ANNUAL RUNOFF		7.97		INCHES				
24. MEAN ANNUAL RUNOFF		86,307 (31)		AC.-FT.				
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.
	Oct 69	.42	31.92	Contour	10'	518	37,822	.43
	Oct 70	1.00	32.92	"	10'	536	41,549	.48
	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 69	--	--	--	45,848	105,152	3,356,454	
	Oct 70	22.39	63,976	66,842	63,976	103,901	3,420,430	
	26. DATE OF SURVEY	37. 5/ 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 69	0	--	--	20,763	650	3.20	
	Oct 70	0	--	--	20,763	631	3.11	
	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 69				0.91	29.1			
Oct 70				0.66	21.6			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION													
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													
Oct 69 Oct 70	Sluicing 1,074 acre-feet Excavation and sluicing of 3,727 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.							
1968-69 1969-70	1459.4 1354.76	1300.1 Dry	528,949 66,842											
46. ELEVATION-AREA-CAPACITY DATA														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY						
1254	0	0	1340	147.0	4623.0	1420	403.8	26,130						
1260	1.95	7.05	1350	164.3	6182.0	1430	440.9	30,376						
1270	4.4	39.4	1360	194.0	7970	1440	475.1	34,963						
1280	9.9	112.0	1370	221.5	10040.0	1450	520.6	39,959						
1290	20.4	255.8	1380	263.8	12509.0	1460	563.7	45406						
1300	42.1	592.8	1390	307.0	15390	1470	613.0	51316						
1310	71.7	1188.	1400	339.0	18632	1480	658.6	57684						
1320	103.0	2090.	1410	374.2	22223									
1330	123.7	3232.												
47. REMARKS AND REFERENCES														
<p>1/ Item 14 - After flood season reservoir is used for conservation.</p> <p>2/ Item 13f - 10,000 acre-feet may be allowed in storage for irrigation and spreading during flood season. After flood season water may be stored to spillway crest.</p> <p>3/ Item 19 - Includes Cogswell drainage area (39.2 sq.miles). Sediment is sluiced into this area.</p> <p>4/ Item 25 - Temperature taken at Pasadena, California.</p> <p>5/ Item 37 - Various amounts removed by sluicing.</p>														
48. AGENCY MAKING SURVEY LACFCD														
49. AGENCY SUPPLYING DATA C of E														
50. DATE 11 Feb 71														

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

SAN GABRIEL (SAN GABRIEL DAM NO. 1)
NAME OF RESERVOIR

70-21e
DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM San Gabriel River			3. STATE California						
	4. SEC. 6 TWP. 1N RANGE 9W			5. NEAREST P. O. Azusa			6. COUNTY Los Angeles						
	7. LAT. 34° 12' 25" LONG. 118° 51' 30"			8. TOP OF DAM ELEVATION 1481			9. SPILLWAY CREST ELEV. 1453						
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		1453		538		52,987		53,344		17 Nov 37		
	b. MULTIPLE USE								52,987				
	c. POWER										16. DATE NORMAL OPER. BEGAN		
	d. WATER SUPPLY												
	e. IRRIGATION										Jul 39		
	f. CONSERVATION						2/ 10,000		10,357				
	g. INACTIVE		1285		25.8		357		357				
17. LENGTH OF RESERVOIR 4.99 MILES				AV. WIDTH OF RESERVOIR .169 MILES									
WATERSHED	18. TOTAL DRAINAGE AREA 203 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 35.6 INCHES								
	19. NET SEDIMENT CONTRIBUTING AREA 3/ 203 SQ. MI.				23. MEAN ANNUAL RUNOFF 7.97 INCHES								
	20. LENGTH 21.0 MILES		AV. WIDTH 9.7 MILES		24. MEAN ANNUAL RUNOFF 86,307(31) AC.-FT.								
	21. MAX. ELEV. 10,059		MIN. ELEV. 1190		25. ANNUAL TEMP MEAN 62.2° RANGE 48.8°-75.6°								
	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 69		.42	31.92	Contour		10'		518		37,822		.44	
Oct 70		1.00	32.92	"		10'		536		41,549		.48	
Sep 72		1.92	34.84	"		5'		536		41,526		.48	
Oct 73		1.08	35.92	"		5'		534		46,554		.54	
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 69		-		-	-		45,848		105,152		3,356,454		
Oct 70		22.39		63,976	66,842		63,976		103,901		3,420,430		
Sep 72		23.04		48,613	60,375		93,336		100,854		3,513,766		
Oct 73		24.70		117,767	124,722		127,188		101,363		3,640,954		
26. DATE OF SURVEY		37. <u>5/</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						
Oct 69		0	-	-	20,763	650	3.20						
Oct 70		0	-	-	20,763	631	3.11						
Sep 72		23	11.98	.06	20,786	597	2.94						
Oct 73		Capacity increased by excavation and sluicing.											
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 69						0.91	29.1						
Oct 70						.66	21.6						
Sep 72						.62	21.6						
Oct 73						.34	12.1						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION														
	188-199	178-188	168-178	158-168	148-158	138-148	128-138	Crest-128							
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
Oct 69	Sluicing 1,074 acre-feet														
Oct 70	Excavation and sluicing of 3,727 acre-feet increased storage capacity.														
Sep 72	No change in storage of 23 acre-feet due to sluicing.														
Oct 73	Excavation and sluicing of 1,255 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	-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.								
1968-69	1459.4	1300.1	528,949												
1969-70	1354.76	Dry	66,842												
1970-71	1368.6	Dry	60,375												
1971-72	1373.46	Dry	34,908												
1972-73	1379.65	Dry	124,722												
46.	ELEVATION-AREA-CAPACITY DATA														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
1246	0	0	1330	177	5025	1410	378	27,279							
1250	0.2	0.3	1340	207	6942	1420	409	31,177							
1260	2.4	11.7	1350	231	9137	1430	448	35,444							
1270	5.9	52.2	1360	254	11557	1440	474	40,039							
1280	11.5	134	1370	279	14226	1450	516	44,977							
1290	31.2	328	1380	302	17129	1460	562	50,396							
1300	79.6	884	1390	325	20263	1470	602	56,206							
1310	125	1918	1400	350	23642	1480	653	62,509							
1320	161	3317													
47. REMARKS AND REFERENCES															
1/ Item 14 - After flood season reservoir is used for conservation.															
2/ Item 13f - 10,000 acre-feet may be allowed in storage for irrigation and spreading during flood season. After flood season water may be stored to spillway crest.															
3/ Item 19 - Includes Cogswell drainage area (39.2 sq. mi.). Sediment is sluiced into this area.															
4/ Item 25 - Temperatures taken at Pasadena, California.															
4/ Item 37 - Various amounts removed by sluicing.															
48. AGENCY MAKING SURVEY LACFCD							50. DATE 14 Feb 75								
49. AGENCY SUPPLYING DATA C of E															