

RESERVOIR SEDIMENT  
DATA SUMMARY

Cogswell F. C. Basin  
(Formerly San Gabriel Dam #2)

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

70-20a

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>		2. STREAM <b>San Gabriel</b>		3. STATE <b>California</b>			
	4. SEC. <b>TWP. 2 N RANGE 10 W</b>		5. NEAREST P.O. <b>Azusa</b>		6. COUNTY <b>Los Angeles</b>			
	7. Stream Bed Elev. <b>2140</b>		8. TOP OF DAM ELEVATION <b>2405</b>		9. SPILLWAY CREST ELEV. <b>2385</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</b>	<b>2385</b>	<b>155</b>	<b>12,881</b>	<b>12,881</b>	<b>Apr. 1935</b>		
	b. MULTIPLE USE							
	c. POWER					16. DATE NORMAL OPER. BEGAN		
	d. WATER SUPPLY							
	e. IRRIGATION					<b>Apr. 1934</b>		
	f. CONSERVATION							
	g. INACTIVE							
17. LENGTH OF RESERVOIR <b>3.13</b>		MILES		AV. WIDTH OF RESERVOIR <b>.07</b>		MILES		
WATERSHED	18. TOTAL DRAINAGE AREA <b>39.2</b>		SQ. MI.		22. MEAN ANNUAL PRECIPITATION <b>36.9</b>		INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA <b>39.0</b>		SQ. MI.		23. MEAN ANNUAL RUNOFF <b>10.8</b>		INCHES	
	20. LENGTH <b>9.1</b>		MILES		AV. WIDTH <b>4.3</b>		MILES	
	21. MAX. ELEV. <b>8038</b>		MIN. ELEV. <b>2140</b>		25. Climatic Classification <b>Humid <i>CH</i></b>			
	26. DATE OF SURVEY		27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA, ACRES	32. CAPACITY, ACRE-Feet
April 1935				Topo. Contour		155	12,881	329 .706
Jan. 1936		.8	.8	"	10'	151	12,298	314 .674
April 1938		2.2	3.0	"	10'	147	10,786	275 .571
Nov. 1939		1.6	4.6	"	10'	144	11,029	281 .604
Nov. 1940		1	5.6	"	10'	144	11,102	283 .608
Nov. 1941		1	6.6	"	10'	147	10,915	278 .591
Oct. 1943		1.9	8.5	"	10'	147	10,501	268 .575
SURVEY DATA	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW, ACRE-Feet			36. WATER INFL. TO DATE, AC.-FT.	
	Jan. 1936		13.5	a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE
	Apr. 1938		58.7	43,300	60,340	95,360	32,690	98,080
	Nov. 1939		21.5	10,700	60,340	17,050	25,030	115,130
	Nov. 1940		25.2	9,010	9,630	9,010	22,170	124,140
	Nov. 1941		68.4	62,010	60,270	62,010	28,200	186,150
	Oct. 1943		40.5	31,600	54,700	59,970	29,000	246,120
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, ACRE-Feet			38. TOTAL SED. DEPOSITS TO DATE, ACRE-Feet		
Jan. 1936		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	
Apr. 1938		583	687.3	17.6	583	698.3	17.9	
Nov. 1939		1512	Sluicing increased storage capacity	"	2095	455.4	11.7	
Nov. 1940		"	"	"	2095	374.1	9.60	
Nov. 1941		187	187.0	4.79	2282	345.8	8.87	
Oct. 1943		414	217.9	5.59	2696	317.2	8.13	
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	
Jan. 1936			a. PERIOD	b. TOTAL TO DATE	a. AV. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE
Apr. 1938					2/	3/		
Nov. 1939					5.4	16.3		
Nov. 1940					3.5	14.4		
Nov. 1941					2.9	13.8		
Oct. 1943					2.7	15.3		
					2.5	18.5		

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION											
	235-	220-	200-	180-	160-	140-	120-	100-	80-60	60-40	40-20	-20 cr.
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
Jan. 1936	4	11	8	3	4	14		20	8	2	24	2
Apr. 1938				31	6	6	6	8	14	13	9	7
Nov. 1941			1	6	2	12	13	17	36	13		
Oct. 1943			2	7	13	11	14	21	3	10	16	3

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.
1931-34	4/	5/	5/	1941-42	2271.8	2194.0	6080
1934-35	2235.7	2174.0	3517	1942-43	2366.3	2194.0	54,700
1935-36	2289.0	Dry	7154	1943-44	2374.2	2203.0	38,150
1936-37	2373.2	Dry	32,990	1944-45	2218.1	2212.0	11,890
1937-38	2396.3	2164.0	60,340	1945-46	2294.2	2202.6	14,710
1938-39	2287.5	Dry	11,560	1946-47	2309.7	2202.0	20,140
1939-40	2274.9	Dry	9,634				
1940-41	2375.9	2194.0	61,270				

46. ELEVATION-AREA-CAPACITY DATA (For Sept. 1947)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
2146	0	0	2230	10.4	185	2320	73.4	3585
2150	.01	.1	2240	16.3	315	2330	84.9	4366
2160	.3	1.5	2250	21.0	498	2340	94.9	5252
2170	.5	5.3	2260	26.4	730	2350	104	6260
2180	.7	11.3	2270	32.8	1026	2360	116	7354
2190	1.0	20.1	2280	39.5	1382	2370	129	8579
2200	1.4	32.2	2290	46.8	1811	2380	140	9921
2210	3.5	53.4	2300	55.6	2319	2390	155	11,384
2220	6.8	102	2310	62.8	2909	2400	170	13,005

47. REMARKS AND REFERENCES

- 1/ After flood season, reservoir is used for conservation.
- 2/ Based on summation of deposits in Item 37a. Deposition, if any, in years of sluicing is not included in the summation.
- 3/ Based on data in Item 32. Storage is regained by sluicing operations.
- 4/ No record.
- 5/ Not determined.

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Cogswell Flood Control Basin <sup>1/</sup>

70-20a

NAME OF RESERVOIR (Sheet 2 of 2)

DATA SHEET NO.

DAM	1. OWNER			2. RIVER			3. STATE									
	4. SEC.		TWP.	RANGE		5. NEAREST TOWN			6. COUNTY							
	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					
	18. TOTAL DRAINAGE AREA				SQ. MI.		22. MEAN ANNUAL PRECIPITATION				36.9 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA				SQ. MI.		23. MEAN ANNUAL RUNOFF				8.2 INCHES					
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF				17,100 (26) AC.-FT.			
	21. MAX. ELEV.		MIN. ELEV.		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.	
	Jan. 1945		1.2		9.7		Contour		5'		147		10,536		269	
	Sept. 1946		1.7		11.4		"		10'		147		10,597		270	
	Sept. 1947		1.0		12.4		"		10'		147		10,634		271	
	Dec. 1957		10.2		22.6		"		10'		147		10,585		270	
	Oct. 1958		.7		23.3		"		10'		147		10,446		268	
	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			
	Jan. 1945		51.2		35,000		38,150		41,970		29,700		288,090			
	Sept. 1946		29.6		13,400		14,710		22,770		27,270		310,860			
Sept. 1947		35.6		20,140		20,140		20,140		26,690		331,000				
Dec. 1957		25.6		6,860		33,780		69,930		17,740		400,930				
Oct. 1958		56.8		52,110		36,480		36,480		18,770		437,410				
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.				
Jan. 1945		No record of quantities sluiced						2,696		277.9		7.13				
Sept. 1946		"						2,696		236.5		6.06				
Sept. 1947		"						2,696		217.4		5.57				
Dec. 1957		49		4.80		.12		2,745		121.0		3.10				
Oct. 1958		139						2,884		124.0		3.18				
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		
Jan. 1945								2.2		18.2						
Sept. 1946								3/ 1.8		2/ 17.8						
Sept. 1947								1.7		17.5						
Dec. 1957								0.94		17.8						
Oct. 1958								0.96		18.9						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION										
	230-200	200-180	180-160	160-140	140-120	120-100	100-80	80-60	60-40	40-20	Crest-20
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
Dec. 1957	1	1	33	56	9						
Oct. 1958			5	9	12	19	13		15	27	

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.
1945-46	2,294.2	2,202.6	14,710	1953-54	2,338.5	2,198.9	8,004
1946-47	2,309.7	2,202.0	20,140	1954-55	2,309.8	2,206.6	3,941
1947-48	2,247.0	2,202.0	3,103	1955-56	2,306.0	2,226.6	4,070
1948-49	2,298.1	2,209.9	2,911	1956-57	2,294.2	2,206.9	3,421
1949-50	2,308.0	2,210.3	3,778	1957-58	2,383.9	2,219.6	36,480
1950-51	2,255.8	2,202.0	887				
1951-52	2,385.2	2,212.6	33,780				
1952-53	2,366.3	2,192.7	4,410				

46. ELEVATION-AREA-CAPACITY DATA (For Oct 1958)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
2,154	0	0	2,240	15.3	242	2,330	83.4	4,230
2,160	.2	1.0	2,250	19.4	413	2,340	93.6	5,109
2,170	.5	4.6	2,260	25.4	634	2,350	104	6,093
2,180	.7	10.4	2,270	31.8	915	2,360	113	7,171
2,190	1.0	19.2	2,280	38.4	1,263	2,370	129	8,369
2,200	1.3	31.0	2,290	45.9	1,680	2,380	142	9,721
2,210	2.1	47.3	2,300	55.1	2,177	2,390	155	11,200
2,220	4.7	80	2,310	63.4	2,768	2,400	169	12,820
2,230	7.5	140	2,320	73.8	3,448			

47. REMARKS AND REFERENCES

- 1/ Formerly named San Gabriel No. 2
- 2/ Based upon values shown under Item No. 32
- 3/ Based on summation of deposits in Item 37a. Deposition removed by sluicing not included.

48. AGENCY SUPPLYING DATA  
LACFCD & Corps of Engineers

49. DATE Revised June 1962

**RESERVOIR SEDIMENT  
DATA SUMMARY**

Cogswell Flood Control Basin

1/

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

NAME OF RESERVOIR

70-20b

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM San Gabriel			3. STATE California			
	4. SEC. TWP. 2 N RANGE 10W			5. NEAREST TOWN Azusa			6. COUNTY Los Angeles			
	7. STREAM BED ELEVATION 2140			8. TOP OF DAM ELEVATION 2405			9. SPILLWAY CREST ELEV. 2385			
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					April 35				
	b. FLOOD CONTROL	2385	155	12,881	12,881					
	c. POWER									
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN				
	e. IRRIGATION									
	f. CONSERVATION									
	g. SEDIMENT						April 34			
	h. INACTIVE									
17. LENGTH OF RESERVOIR		3.13	MILES	AV. WIDTH OF RESERVOIR		.07	MILES			
18. TOTAL DRAINAGE AREA			39.2	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		36.9	INCHES		
19. NET SEDIMENT CONTRIBUTING AREA			39.0	SQ. MI.	23. MEAN ANNUAL RUNOFF		3.2	INCHES		
20. LENGTH		9.1	MILES	AV. WIDTH		4.3	MILES	24. MEAN ANNUAL RUNOFF		
								17,100(26) AC.-FT.		
21. MAX. ELEV.		8038	MIN. ELEV.		2140	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. PERSQ. MI.		
	Jan 1945	1.2	9.7	Contour	5'	147	10,536	269		
	Sept 1946	1.7	11.4	"	10'	147	10,597	270		
	Sept 1947	1.0	12.4	"	10'	147	10,634	271		
	Dec 1957	10.2	22.6	"	10'	147	10,585	270		
	Oct 1958	.7	23.3	"	10'	147	10,446	268		
	Nov 1962	4.1	27.4	"	10'	148	10,228	261		
	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			
	Jan 1945	51.2	35,000	38,150	41,970	29,700	288,090			
Sept 1946	29.6	13,400	14,710	22,770	27,270	310,860				
Sept 1947	35.6	20,140	20,140	20,140	26,690	331,000				
Dec 1957	25.6	6,860	33,780	69,930	17,740	400,930				
Oct 1958	56.8	52,110	36,480	36,480	18,770	437,410				
Nov 1962	21.9	8,198	25,494	33,613	17,188	470,963				
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.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR				
Jan 1945	No record	of quantities sluiced		2,696	277.9	7.13				
Sept 1946	" "	" "	" "	2,696	236.5	6.06				
Sept 1947	" "	" "	" "	2,696	217.4	5.57				
Dec 1957	49	4.80	.12	2,745	121.0	3.10				
Oct 1958	139	-	-	2,884	124.0	3.18				
Nov 1962	218	532	1.4	3,102	113.2	2.90				
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. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
Jan 1945				2.2	18.2					
Sept 1946				2/1.8	3/ 17.8					
Sept 1947				1.7	17.5					
Dec 1957				0.94	17.8					
Oct 1958				0.96	18.9					
Nov 1962				0.89	20.1					

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION												
	230-	200-	180-	160-	140-	120-	100-	80-	60-	40-	Crest	20	
	200	180	160	140	120	100	80	60-60	60-40	40-20			
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													
Dec 1957	1	1	33	56	9								
Oct 1958			5	9	12	19	13			15	27		

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.
1945-46	2,294.2	2,202.6	14,710	1953-54	2,338.5	2,198.9	8,004
1946-47	2,309.7	2,202.0	20,140	1954-55	2,309.8	2,206.6	3,941
1947-48	2,247.0	2,202.0	3,103	1955-56	2,306.0	2,226.6	4,070
1948-49	2,298.1	2,209.9	2,911	1956-57	2,294.2	2,206.9	3,421
1949-50	2,308.0	2,210.3	3,778	1957-58	2,383.9	2,219.6	36,480
1950-51	2,255.8	2,202.0	887	1958-59	2,292.4	2,229.3	4,904
1951-52	2,385.2	2,212.6	33,780	1959-60	2,283.4	2,217.6	1,935
1952-53	2,366.3	2,192.7	4,410	1960-61	2,258.3	2,214.5	1,106
				1961-62	2,365.9	2,202.2	25,497

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
2198.8	0	0	2280	38.1	1160.4	2370	126.3	8153.5
2200	0.58	0.58	2290	45.2	1581.2	2380	141.3	9503.2
2210	1.5	13.7	2300	53.7	2076.6	2390	154.0	10,984.0
2220	3.1	37.4	2310	61.7	2657.8	2400	166.0	12,593.0
2230	6.6	88.4	2320	70.9	3327.2			
2240	12.6	179.1	2330	79.1	4081.9			
2250	18.3	338.1	2340	88.7	4924.6			
2260	23.4	546.8	2350	102.1	5882.4			
2270	30.2	817.4	2360	112.6	6962.1			

47. REMARKS AND REFERENCES

1/ Formerly named San Gabriel No. 2

2/ Based on summation of deposits in Item 37a. Deposition removed by sluicing not included.

3/ Based upon values shown under Item No. 32.

48. AGENCY MAKING SURVEY Los Angeles County Flood Control

49. AGENCY SUPPLYING DATA District, and Los Angeles District

Corps of Engineers, Dept. of the Army. 50. DATE 11 Feb 1964

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

Cogswell (San Gabriel Dam #2)

NAME OF RESERVOIR

70-20,c

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. STREAM <b>San Gabriel River</b>			3. STATE <b>California</b>					
	4. SEC. <b>TWP. RANGE</b>			5. NEAREST P O <b>Azusa</b>			6. COUNTY <b>Los Angeles</b>					
	7. LAT. ° ' " LONG. ° ' "			8. TOP OF DAM ELEVATION <b>2,405</b>			9. SPILLWAY CREST ELEV <b>2,385</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		2,385		147		10,634 1/		10,363		Apr 35	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION										Apr 34	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR <b>3.13</b> MILES				AV. WIDTH OF RESERVOIR <b>.07</b> MILES							
	18. TOTAL DRAINAGE AREA <b>39.2</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>36.9</b> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <b>39.0</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>8.72</b> INCHES							
	20. LENGTH <b>9.1</b> MILES		AV. WIDTH <b>4.3</b> MILES		24. MEAN ANNUAL RUNOFF <b>18,251 (37)</b> AC.-FT.							
	21. MAX. ELEV. <b>8,030</b>		MIN. ELEV. <b>2140</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.	
	Oct 58		0.7	23.3	Contour		10'	147	10,446		.612	
	Nov 62		4.1	27.4	"		10'	148	10,228		.643	
	Jun 66		3.7	31.1	"		10'	146	9,999		.642	
	Mar 69		2.75	33.85	"		10'	147	9,339		.512	
	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 58		56.82		---	---	36,480	18,770	437,410			
	Nov 62		21.94		8,198	25,497	33,613	17,188	471,023			
	Jun 66		30.59		13,916	41,605	51,489	15,801	522,512			
	Mar 69		52.63		49,352	40,505	135,719	19,446	658,231			
	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 58		139	97.3	2.48	2,884	124	3.18				
	Nov 62		218	53.2	1.4	3,102	113	2.90				
Jun 66		233	63.0	1.62	3,335	107	2.74					
Mar 69		660	240.0	6.15	3,995	118	3.03					
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 58				0.08	1.8							
Nov 62				0.14	3.8							
Jun 66				0.20	6.0							
Mar 69				0.36	12.2							

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION											
	230-200	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												
Oct 58			5	9	12	19	13		15	27		
Nov 62	7	8	7	11	11	3	2	12	32	3	4	
Jun 66	Sluicing.											
Mar 69	0	1	3	2	1	5	16	33	23	12	4	

  

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.
1948-49	2298.1	2209.9	2,911	1960-61	2258.3	2214.3	1,106
1949-50	2308.0	2210.3	3,778	1961-62	2385.9	2202.2	25,497
1950-51	2255.8	2202.0	887	1962-63	2305.3	2330.0	3,220
1951-52	2385.2	2212.6	33,700	1963-64	2283.8	2207.0	2,569
1952-53	2366.3	2192.7	4,410	1964-65	2323.8	2207.0	5,043
1953-54	2338.5	2198.9	8,004	1965-66	2367.2	2199.9	41,606
1954-55	2309.8	2206.6	3,941	1966-67	2385.1	2170.0	40,505
1955-56	2306.0	2226.6	4,070	1967-68	2362.4	2298.5	9,568
1956-57	2294.2	2206.9	3,421	1968-69	2389.3	2313.2	95,678
1957-58	2383.9	2219.6	36,480				
1958-59	2292.4	2229.3	4,904				
1959-60	2283.4	2237.6	1,935				

  

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
2206	0	0	2270	24.4	720.7	2340	83.1	4185.
2210	1.0	2.4	2280	32.7	1007.	2350	95.9	5080.
2220	4.0	31.5	2290	38.5	1362.	2360	110.0	6121.
2230	7.0	87.8	2300	44.2	1778.	2370	123.9	7299.
2240	10.5	176.3	2310	48.4	2244.	2380	139.8	8620.
2250	15.8	310.8	2320	58.3	2767.	2390	152.1	10087.
2260	20.6	497.0	2330	69.2	3416.	2400	163.8	11673.

  

47. REMARKS AND REFERENCES

1/ Item 14 - After flood season reservoir is used for conservation.  
2/ Item 25 - Temperature taken at Pasadena, California.

48. AGENCY MAKING SURVEY LACFCU  
49. AGENCY SUPPLYING DATA CE  
50. DATE \_\_\_\_\_