

RESERVOIR SEDIMENTATION
DATA SUMMARY

Salinas Reservoir
NAME OF RESERVOIR

71 - 4

DATA SHEET NO.

DAM	1. OWNER U. S. Corps of Engineers			2. RIVER Salinas		3. STATE California					
	4. SEC. 8 TWP. 30S RANGE 14E			5. NEAREST TOWN Santa Margarita		6. COUNTY San Luis Obispo					
	7. STREAM BED ELEV. 1,228			8. TOP OF DAM ELEV. 1,320		9. SPILLWAY CREST ELEV. 1,296					
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					1942					
	b. POWER										
	c. WATER SUPPLY	1,296	790	26,000	26,000	16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION										
	e. CONSERVATION										
	f. INACTIVE										
17. LENGTH OF RESERVOIR				MILES	AV. WIDTH OF RESERVOIR			MILES			
WATERSHED	18. TOTAL DRAINAGE AREA			113	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA			112	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					
	26. DATE OF SURVEY		27. PERIOD YEARS	28. ACGL. 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.		
1942		-	-	-	-	790	26,000	230			
Nov. 1947		5	5	Range recon.	16	790	25,870	229			
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		
	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			
	Nov. 1947		130	26.0	0.232	130	26.0	0.232			
	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. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
	Nov. 1947		40 *	202	202	0.10	0.50				

* Assumed

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION													
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR													
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120
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

Reservoir data from "Dams within Jurisdiction of the State of California", State of California Department of Public Works, Division of Water Resources, February 1, 1950.

Region 7, Soil Conservation Service
U. S. Dept. of Agriculture
Portland, Oregon

48. AGENCY SUPPLYING DATA

49. DATE August 23, 1950

RESERVOIR SEDIMENTATION
DATA SUMMARY

Salinas Reservoir

71-4a

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Dept. of Army, C. of E.			2. RIVER Salinas			3. STATE California																	
	4. SEC. 8 TWP. 30S RANGE 14E			5. NEAREST TOWN Santa Margarita			6. COUNTY San Luis Obispo																	
	7. STREAM BED ELEV. 1205			8. TOP OF DAM ELEV. 1325			9. SPILLWAY CREST ELEV. 1301																	
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										1942													
	b. POWER																							
	c. WATER SUPPLY		1296		790		26,000		26,000		16. DATE NORMAL OPER. BEGAN													
	d. IRRIGATION																							
	e. CONSERVATION																							
	f. INACTIVE										1942													
17. LENGTH OF RESERVOIR 4.5						MILES						AV. WIDTH OF RESERVOIR 0.28						MILES						
WATERSHED	18. TOTAL DRAINAGE AREA 111				SQ. MI.				22. MEAN ANNUAL PRECIPITATION 25				INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 110				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 Sub-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.									
	1942		-		-		-		-		790		26,000		234.									
	11/6/47		6		6		Range		10 ft.		790		25,860		233									
	8/4/53		6		12		Recon		26		790		25,590		230									
	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											
	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		d. TOTAL TO DATE		e. AV. ANNUAL		f. PER SQ. MI.-YEAR											
11/6/47		140		23.3		0.21		140		23.3		0.21												
8/4/53		270		45.0		0.41		410		34.2		0.31												
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. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE												
8/4/53		40		357		357		0.13		1.58		-												

25. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION													
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.

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

47. REMARKS AND REFERENCES

Ref: Reconnaissance Sedimentation Surveys of Salinas Reservoir, San Luis Obispo County, Calif., Sept. 1953, 8 typed pp., illus. Unpublished.

48. AGENCY SUPPLYING DATA SCS, Portland, Oregon

49. DATE Nov. 15, 1954

RESERVOIR SEDIMENT (Formerly Salinas Reservoir)
 DATA SUMMARY Santa Margarita Lake

U. S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

71-4b

DATA SHEET NO.

DAM	1. OWNER U.S. Army Corps of Engrs		2. STREAM Salinas River		3. STATE California				
	4. SEC. 8 TWP. 30S RANGE 14E		5. NEAREST P.O. Pozo, CA		6. COUNTY San Luis Obispo				
	7. LAT. " " LONG. " " "		8. TOP OF DAM ELEVATION 1325.0		9. SPILLWAY CREST ELEV 1300.70				
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					12/6/41			
	b. MULTIPLE USE								
	c. POWER								
	d. WATER SUPPLY	1300.70	790	25800	25800	16. DATE NORMAL OPER. BEGAN			
	e. IRRIGATION					12/6/41			
	f. CONSERVATION								
g. INACTIVE									
WATERSHED	17. LENGTH OF RESERVOIR 4.5 MILES		AV. WIDTH OF RESERVOIR 0.28 MILES						
	18. TOTAL DRAINAGE AREA 112 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 21.3 (34y) INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 110 SQ. MI.		23. MEAN ANNUAL RUNOFF 3.34 (32y) INCHES						
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF 19.95 (32y) AC. F.T.				
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP: MEAN RANGE				
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.	
	9/75	Spillway found		to be 1300.70	not 1301.0	as originally used.			
	1941	-	-	-	-	790	25,800	1.29	
	7/75-9/75	22	34	Range (D) Contour (D)	32 (R) 10 (CI)	735	23,000	1.15	
	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		
	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		
	7/75-9/75	2390	108.6	.98	2800 3400 ^{5/}	82.4 100	.75 .91		
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		
7/75-9/75	58	1627	1150 ^{5/}	.39	13.2	-	-		

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION														
			80-60	60-50	50-40	40-30	30-20	20-10	10-0	0-+10	+10-+20				
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
7/75-9/75			2	4	9	13	10	18	24	9	11				
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.								
See attached Sheet #1.															
46. ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
1941, Original usable capacity		1310			33700	1260		4900							
1220.3		0	1320		44400	1265		6200							
1225		210	1975 (Usable capacity)			1270		7700							
1230		510	1220.3		0	1275		9500							
1240		1400	1225		200	1280		11500							
1250		3000	1230		470	1285		13800							
1260		5400	1235		840	1290		16400							
1270		8650	1240		1350	1300		22500							
1280		12800	1245		2000	1310		30700							
1290		18300	1250		2800	1320		41000							
1300		25200	1255		3800										
47. REMARKS AND REFERENCES See attached Sheet #2.															
<p style="text-align: center;">U.S. Geological Survey Water Resources Division Menlo Park, California</p> <p>48. AGENCY MAKING SURVEY</p> <p>49. AGENCY SUPPLYING DATA</p> <p style="text-align: right;">50. DATE <u>12-10-76</u></p>															

<u>WATER YEAR</u>	<u>MAX. ELEV.</u>	<u>MIN. ELEV.</u>
	m. s. l.	m. s. l.
42	1288.82	-
43	1293.26	1243.04
44	1288.11	1242.54
45	1298.45	1283.41
46	1291.56	1277.59
47	1282.19	1268.87
48	1269.77	1260.95
49	1269.46	1258.87
50	1278.03	1260.75
51	1272.30	1264.85
52	1304.26	1263.27
53	1296.48	1288.30
54	1300.24	1286.85
55	1294.01	1285.49
56	1302.48	1283.80
57	1292.00	1283.45
58	1306.92	1282.27
59	1295.67	1286.20
60	1288.70	1280.09
61	1280.04	1268.89
62	1302.30	1266.40
63	1301.04	1289.50
64	1296.33	1288.17
65	1300.35	1287.74
66	1301.24	1292.74
67	1308.18	1291.65
68	1296.62	1288.07
69	1310.66	1286.39
70	1299.39	1291.79
71	1298.51	1290.23
72	1290.96	1277.90
73	1303.42	1275.71
74	1302.38	1292.31
75	1300.75	1291.20

1. Name changed Oct. 1967. Ref. "Decisions on Geographic Names, List No. 6802, April through June 1968." Formerly listed as Salinas Reservoir.
2. Resurveyed, 1975 by USGS personnel. Spillway elevation was previously reported to be 1301.0 ft.
3. Ref. San Luis Obispo County Engineering Department, 1974 report entitled "Hydrologic and Climatological Data Seasons for 1970-71 and 1971-72, County of San Luis Obispo", p. 10.
4. Value estimated from USGS gaging station record for Salinas River near Pozo, California.
5. Total deposition below 1320 ft. elevation.

New Report: "Sedimentation of Santa Margarita Lake, San Luis Obispo County, California", by G. Douglas Glysson. USGS miscellaneous field studies map (in progress).