

RESERVOIR SEDIMENTATION
DATA SUMMARY

La Grange

NAME OF RESERVOIR

71 - 12

DATA SHEET NO.

DAM	1. OWNER Turlock & Modesto Irr. Dist.			2. RIVER Tuolumne River			3. STATE California											
	4. SEC. 16 TWP. 3S RANGE 14E			5. NEAREST TOWN			6. COUNTY Stanislaus											
	7. STREAM BED ELEV. -			8. TOP OF DAM ELEV. -			9. SPILLWAY CREST ELEV. 299											
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										Sept. 1895							
	b. POWER																	
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN							
	d. IRRIGATION		300		56.1		2,332		2,332									
	e. CONSERVATION																	
	f. INACTIVE																	
WATERSHED	17. LENGTH OF RESERVOIR					MILES		18. AV. WIDTH OF RESERVOIR					MILES					
	18. TOTAL DRAINAGE AREA					1,501		SQ. MI.		22. MEAN ANNUAL PRECIPITATION					18 - 50		INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA					1,501 1/2		SQ. MI.		23. MEAN ANNUAL RUNOFF					INCHES			
	20. LENGTH					MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF					AG.- FT.	
	21. MAX. ELEV.					10,500		MIN. ELEV.		25. CLIMATIC CLASSIFICATION					Semi-arid to 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 AG.- FT. PER SQ. MI.			
	Sept. 1895		-		-		-		-		56.1		2,332		1.6			
	Oct. 1905		10.1		10.1		Contour detailed 2/		10 ft.		54.1		1,068		0.7			
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET				36. WATER INFL. TO DATE AG.- 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					
	Oct. 1905		1,264		125		0.083		1,264		125		0.083					
	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						
Oct. 1905		70 *		127		127		5.36		54.20								

* 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	-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/ Before construction of Don Pedro Reservoir in 1923. 2/ Survey by U.S.G.S.
 Brown, C. B. and Thorp, E. M. Reservoir sedimentation in the Sacramento-San Joaquin Drainage Basins, California. U. S. Soil Conserv. Serv. Special Report No. 10, 69 pp., illus., processed, Washington, D. C. July 1947.

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

48. AGENCY SUPPLYING DATA

49. DATE January 26, 1951