

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Don Pedro  
NAME OF RESERVOIR

71-8  
DATA SHEET NO.

DAM	1. OWNER Turlock & Modesto Irr. Dist.				2. RIVER Tuolumne River		3. STATE California									
	4. SEC. 35 TWP. 2 S RANGE 14 E			5. NEAREST TOWN Modesto		6. COUNTY Tuolumne River										
	7. STREAM BED ELEV. 340.5			8. TOP OF DAM ELEV. 618.5		9. SPILLWAY CREST ELEV. 605.5										
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										March 1923					
	b. POWER															
	c. WATER SUPPLY															
	d. IRRIGATION		605.5		2,900		289,000 1/		289,000		16. DATE NORMAL OPER. BEGAN					
	e. CONSERVATION															
f. INACTIVE																
WATERSHED	17. LENGTH OF RESERVOIR				MILES		17. AV. WIDTH OF RESERVOIR				MILES					
	18. TOTAL DRAINAGE AREA 1001				SQ. MI.		22. MEAN ANNUAL PRECIPITATION 18-50				INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 996.5				SQ. MI.		23. MEAN ANNUAL RUNOFF				INCHES					
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF				AC.-FT.			
	21. MAX. ELEV. 10,500		MIN. ELEV. 340		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 AC.-FT. PER SQ. MI.	
	March 1923		-		-		-		-		2,900		289,000		289	
	Nov. 1945		22.7		22.7		Range Recon.		11		2,900		284,266		284	
	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		d. 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		b. AV. ANNUAL		c. PER SQ. MI.-YEAR			
	Nov. 1945		4,734		209		0.210		4,734		209		0.210			
	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. 1945		62 *		284		284		0.07		1.64						

\* 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/ Reservoir is used both for irrigation and power.

Brown, C. B., and Thorp, E. M. Reservoir sedimentation in the Sacramento-San Joaquin Drainage Basins, California. U. S. Soil Conserv. Serv., Special Rpt. 10, 69 pp., illus., processed. Washington, D. C. July 1947.

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

48. AGENCY SUPPLYING DATA  
 49. DATE February 19, 1951