

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Exchequer

71-9

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER <b>Merced Irrigation Dist.</b>			2. RIVER <b>Merced River</b>		3. STATE <b>California</b>		
	4. SEC. <b>13</b> TWP. <b>4 S</b> RANGE <b>15 E</b>			5. NEAREST TOWN		6. COUNTY <b>Mariposa</b>		
	7. STREAM BED ELEV. <b>405</b>			8. TOP OF DAM ELEV. <b>710</b>		9. SPILLWAY CREST ELEV. <b>707</b>		
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. 1926		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION	<b>707</b>	<b>2,939</b>	<b>289,000 1/</b>	<b>289,000</b>			
	e. CONSERVATION							
	f. INACTIVE							
17. LENGTH OF RESERVOIR				MILES	AV. WIDTH OF RESERVOIR		MILES	
WATERSHED	18. TOTAL DRAINAGE AREA <b>1,027</b>			SQ. MI.	22. MEAN ANNUAL PRECIPITATION <b>16-60</b>		INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA <b>1,022.4</b>			SQ. MI.	23. MEAN ANNUAL RUNOFF		INCHES	
	20. LENGTH		MILES	AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF	
	21. MAX. ELEV. <b>11,500</b>		MIN. ELEV. <b>405</b>		25. CLIMATIC CLASSIFICATION <b>Semi-arid to per-humid</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/W RATIO AC-FT. PER SQ. MI.
	Sept. 1926	-	-	-	-	2,939	289,000	281
	March 1946	19.6	19.6	Range Recon.	21	2,939	285,646	278
	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	e. 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	
	March 1946	3,354	171	0.167	3,354	171	0.167	
	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	
March 1946	62 (9)	226	226	0.06	1.16			

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 also used for power.

Brown, C.B., and Thorp, E. M. Reservoir sedimentation in the Sacramento-San Joaquin Drainage Basins, California. U. S. Soil Conserv. Serv., Spec. 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