

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Hume

NAME OF RESERVOIR

71-11

DATA SHEET NO.

DAM	1. OWNER <b>USDA, Forest Service</b>			2. RIVER <b>Ten Mile Creek</b>			3. STATE <b>California</b>			
	4. SEC. <b>14</b> TWP. <b>13 S</b> RANGE <b>28 E</b>			5. NEAREST TOWN			6. COUNTY <b>Fresno</b>			
	7. STREAM BED ELEV. <b>5252</b>			8. TOP OF DAM ELEV. <b>5300</b>			9. SPILLWAY CREST ELEV. <b>5300</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					June 1909				
	b. POWER									
	c. WATER SUPPLY									
	d. IRRIGATION									
	e. CONSERVATION	<b>5300</b>	<b>85.2</b>	<b>1410</b>	<b>1410</b>	16. DATE NORMAL OPER. BEGAN				
	f. INACTIVE									
17. LENGTH OF RESERVOIR		MILES		AV. WIDTH OF RESERVOIR		MILES				
WATERSHED	18. TOTAL DRAINAGE AREA <b>24.2</b>		SQ. MI.		22. MEAN ANNUAL PRECIPITATION <b>35-40</b>		INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA <b>24.1</b>		SQ. MI.		23. MEAN ANNUAL RUNOFF		INCHES			
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF	AC.- FT.
	21. MAX. ELEV. <b>8,000</b>		MIN. ELEV <b>5,252</b>		25. CLIMATIC CLASSIFICATION <b>Humid</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	33. C/W RATIO AC.- FT. PER SQ. MI.		
June 1909	-	-	-	-	85.2	1,410	58.3			
June 1946	37.0	37.0	Range Recon.	4	85.2	1,383	57.1			
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				
June 1946	27.2	0.735	0.030	27.2	0.735	0.030				
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			
June 1946	62 *	40.5	40.5	0.05	1.93					

\* 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  
 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

48. AGENCY SUPPLYING DATA Portland, Oregon 49. DATE February 26, 1951