

RESERVOIR SEDIMENTATION
DATA SUMMARY

Magalia

72 - 10

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Paradise Irrigation Dist.			2. RIVER Little Butte Creek			3. STATE California					
	4. SEC. 25 TWP. 23N RANGE 3E			5. NEAREST TOWN Chico			6. COUNTY Butte					
	7. STREAM BED ELEV. -			8. TOP OF DAM ELEV. -			9. SPILLWAY CREST ELEV. 2,234					
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					Jan. 1918						
	b. POWER											
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN						
	d. IRRIGATION	2,234	100.4	3,718	3,718							
	e. CONSERVATION											
	f. INACTIVE											
17. LENGTH OF RESERVOIR		MILES		AV. WIDTH OF RESERVOIR		MILES						
WATERSHED	18. TOTAL DRAINAGE AREA 8.23 1/2			SQ. MI.			22. MEAN ANNUAL PRECIPITATION 77 - 80			INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA 8.08			SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF			AC.-FT.
	21. MAX. ELEV. 3,600		MIN. ELEV.		25. CLIMATIC CLASSIFICATION			Perhumid				
	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.			
Jan. 1918		-	-	-	-	100.4	3,718	452				
Jan. 1946		28.0	28.0	Range detailed	7	100.4	3,648	443				
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	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				
Jan. 1946		69.5	2.48	0.307	69.5	2.48	0.307					
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					
Jan. 1946		48.8 (5)	326	326	0.07	1.87						

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/ Excluding 3 square miles above P. G. & E. canal.

Brown, C. B. and Thorp, E. M., Reservoir sedimentation in the Sacramento-Sanjoaquin 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

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