

RESERVOIR SEDIMENTATION
DATA SUMMARY

Big Canyon
NAME OF RESERVOIR

72 - 3
DATA SHEET NO.

DAM	1. OWNER Iron Mountain Investment Co.				2. RIVER Big Canyon Creek		3. STATE California					
	4. SEC. 20 TWP. 9N RANGE 10E			5. NEAREST TOWN French Town		6. COUNTY El Dorado						
	7. STREAM BED ELEV. 702.2			8. TOP OF DAM ELEV. 760		9. SPILLWAY CREST ELEV. 750.0						
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									Nov. 1934		
	b. POWER											
	c. WATER SUPPLY		750 1/		13.8		200		200	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION											
	e. CONSERVATION											
	f. INACTIVE									1935		
17. LENGTH OF RESERVOIR					MILES		AV. WIDTH OF RESERVOIR		MILES			
WATERSHED	18. TOTAL DRAINAGE AREA				5.50		SQ. MI.		22. MEAN ANNUAL PRECIPITATION		25 - 30	INCHES
	19. NET SEDIMENT CONTRIBUTING AREA				5.48		SQ. MI.		23. MEAN ANNUAL RUNOFF		INCHES	
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF		AC.-FT.	
	21. MAX. ELEV.		1,900		MIN. ELEV.		702		25. CLIMATIC CLASSIFICATION Sub-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.			
	Nov. 1934		-	-	-	-	13.8	200	36.4			
	Oct. 1945		11.0	11.0	Range detailed	9	13.8	196	35.6			
	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				
	Oct. 1945		4.17	0.379	0.069	4.17	0.379	0.069				
	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. 1945		44.7 (6)	67.2	67.2	0.19	2.09						

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/ Diversion and storage for mining water.

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 February 19, 1951