

RESERVOIR SEDIMENTATION
DATA SUMMARY

Rattlesnake Butte Pond
NAME OF RESERVOIR

79-1
DATA SHEET NO.

DAM	1. OWNER <u>Rattlesnake Butte</u>			2. RIVER <u>Big Wood</u>			3. STATE <u>Idaho</u>			
	4. SEC. <u>22 TWP. 4 S RANGE 15 E</u>			5. NEAREST TOWN <u>Gooding</u>			6. COUNTY <u>Gooding</u>			
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.			
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					1943				
	b. POWER									
	c. WATER SUPPLY		9.13	25.56	25.56	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION					1943				
f. INACTIVE										
17. LENGTH OF RESERVOIR			.24	MILES	17. AV. WIDTH OF RESERVOIR			.08	MILES	
WATERSHED	18. TOTAL DRAINAGE AREA			4.81	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			9	INCHES
	19. NET SEDIMENT CONTRIBUTING AREA				SQ. MI.	23. MEAN ANNUAL RUNOFF				INCHES
	20. LENGTH		MILES	AV. WIDTH	MILES	24. MEAN ANNUAL RUNOFF				AC.-FT.
	21. MAX. ELEV.			21. MIN. ELEV.		25. CLIMATIC CLASSIFICATION			Arid	
	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.	
1943		-	-	-	-	9.13	25.56	5.31		
9/13/51		8	8	Range Detailed	3	9.13	23.89	4.96		
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	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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR		
	9/13/51		1.68	0.21	0.04	1.68	0.21	0.04		
	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
	9/13/51		70*		61.0	61.0	0.82	6.57	-	-

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

*Assumed

Flaxman, E. M. and Hobba, E. L. "Some Factors Affecting Rates of Sedimentation in the Columbia River Basin", March, 1954, 20 pp., illus. Being processed for publication.