

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Bauer Reservoir
NAME OF RESERVOIR

76-17

DATA SHEET NO.

DAM	1. OWNER Bauer			2. STREAM Unnamed			3. STATE WA.					
	4. SEC. 23 TWP. 18N RANGE 34E			5. NEAREST P.O. Ritzville			6. COUNTY Adams					
	7. LAT. 47° 5' " LONG. 117° 40' "			8. TOP OF DAM ELEVATION 106 ^{1/}			9. SPILLWAY CREST ELEV. 100 ^{1/}					
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-Feet		14. GROSS STORAGE, ACRE-Feet		15. DATE STORAGE BEGAN	
	a. FLOOD CONTROL										1948	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION				1.25		2.39		2.39		1948	
g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR 0.12 MILES				AV. WIDTH OF RESERVOIR 0.016 MILES							
	18. TOTAL DRAINAGE AREA 1.17 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 10 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 1.17 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.5 INCHES							
	20. LENGTH 1.2 MILES		AV. WIDTH 1.0 MILES		24. MEAN ANNUAL RUNOFF 31.2 AC.-FT.							
	21. MAX. ELEV. 1890		MIN. ELEV. 1770		25. ANNUAL TEMP.: MEAN 46.6 RANGE 68-25							
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/I. RATIO, AC.-FT. PER AC.-FT.			
	1948		--	--	--	--	1.25	2.39	0.08			
	1956		8	8	Detailed (R)	4	0.0	0.0	--			
	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 CAPACITY LOSS, 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				
	1956 ^{2/}		2.39	0.30	0.26	2.39	0.30	0.26				
	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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE					
1956 ^{2/}		75	425	425	12.5	100						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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															
<p>Geology: Loessal sediments underlain by Columbia R. basalt. Soils: Ritzville Silt Loam Land Use: Alternating wheat-fallow.</p> <p>1/ Assumed elevation. 2/ Reservoir capacity was zero in spring of 1956. The survey was actually made in May 1974.</p>															
48. AGENCY MAKING SURVEY				Soil Conservation Service				49. AGENCY SUPPLYING DATA		Soil Conservation Service					
										50. DATE <u>May 1974</u>					