

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Battle Creek Detention Dam

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

39-8

DATA SHEET NO.

DAM	1. OWNER Jim Storm			2. STREAM Battle Creek			3. STATE Wyoming					
	4. SEC. 25 TWP. 57 RANGE 67			5. NEAREST P.O. Hulett			6. COUNTY Crook					
	7. LAT 44° 54' " LONG 104° 52' "			8. TOP OF DAM ELEVATION 102.0			9. SPILLWAY CREST ELEV. 97.0					
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		97.0		88.72		594.52		620.10		Dam Completed 11/29/67	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION											
	f. CONSERVATION											
	g. INACTIVE		80.0		9.80		25.58		25.58		16. DATE NORMAL OPER. BEGAN	
17. LENGTH OF RESERVOIR 1.10 MILES					AV. WIDTH OF RESERVOIR 0.23 MILES							
WATERSHED	18. TOTAL DRAINAGE AREA 18.44 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 15.84 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 18.44 SQ. MI.				23. MEAN ANNUAL RUNOFF 1.01 INCHES							
	20. LENGTH 12.5 MILES		AV. WIDTH 1.5 MILES		24. MEAN ANNUAL RUNOFF 984 AC.-F.T.							
	21. MAX. ELEV. 502		MIN. ELEV. 69		25. ANNUAL TEMP.: MEAN 45°F RANGE 22°-72°F (Gill et al)							
	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.			
11/29/67		--	--	--	--	88.72	620.1	0.63				
9/24/70		2.83	2.83	Range	12	88.72	614.7	0.62				
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 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				
	9/24/70		5.42	1.92	0.104	5.42	1.92	0.104				
	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			
	9/24/70		71.4	161.8	161.8	0.31	0.87					

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

1/ Atlas HA-212, USGS, 1966

48. AGENCY MAKING SURVEY Soil Conservation Service

49. AGENCY SUPPLYING DATA Same

50. DATE Jan. 6, 1971