

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-62

Vermillion Watershed No. B

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

NAME OF RESERVOIR

36-19

DATA SHEET NO.

DAM	1. OWNER				2. STREAM Trib. of Vermillion		3. STATE S. Dakota					
	4. SEC. 22 TWP. 104 RANGE 53				5. NEAREST TOWN Salem		6. COUNTY McCook					
	7. STREAM BED ELEVATION				8. TOP OF DAM ELEVATION		9. SPILLWAY CREST ELEV. 97*					
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. MULTIPLE USE										Oct. 1950	
	b. FLOOD CONTROL											
	c. POWER											
	d. WATER SUPPLY		97*		1.47		6.48		6.48			
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN	
	f. CONSERVATION											
	g. SEDIMENT										Oct. 1950	
	h. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 0.125 MILES				AV. WIDTH OF RESERVOIR 0.023 MILES							
	18. TOTAL DRAINAGE AREA 0.237 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 24.0 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 0.237 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.81 INCHES							
	20. LENGTH 0.73 MILES		AV. WIDTH 0.32 MILES		24. MEAN ANNUAL RUNOFF 10.3 AC.-F.T.							
	21. MAX. ELEV.		MIN. ELEV.		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.			
	Oct. 1950		-	-	-	-	1.47	6.48	27.3			
	Nov. 1965		15	15	Range D	3	1.47	5.06	21.4			
	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				
	Nov. 1965		1.42	.095	0.40	1.42	0.095	0.40				
	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. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE					
Nov. 1965		50*	435	435	1.5	21.9						

*Assumed

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

Geology: Glacial drift
Land Use: 101 Ac. of crop
52 Ac. of pasture

48. AGENCY MAKING SURVEY South Dakota Watershed Planning Party
49. AGENCY SUPPLYING DATA Soil Conservation Service
50. DATE November, 1965

Huron, South Dakota