

**RESERVOIR SEDIMENT  
DATA SUMMARY**

SCS-34 Rev. 6-62

Vermillion Watershed No. A

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

36-18

DATA SHEET NO.

<b>DAM</b>	1. OWNER			2. STREAM Trib. of Vermillion			3. STATE South Dakota								
	4. SEC. 3 TWP. 103 RANGE 53			5. NEAREST TOWN Salem			6. COUNTY McCook								
	7. STREAM BED ELEVATION			8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV. 97*								
<b>RESERVOIR</b>	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										August 1955				
	b. FLOOD CONTROL														
	c. POWER														
	d. WATER SUPPLY		97*		0.572		3.2		3.2		16. DATE NORMAL OPER. BEGAN				
	e. IRRIGATION										August 1955				
	f. CONSERVATION														
	g. SEDIMENT														
	h. INACTIVE														
17. LENGTH OF RESERVOIR .049 MILES				AV. WIDTH OF RESERVOIR 0.023 MILES											
18. TOTAL DRAINAGE AREA .075 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 24.0 INCHES											
19. NET SEDIMENT CONTRIBUTING AREA .075 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.81 INCHES											
20. LENGTH .52 MILES		AV. WIDTH .14 MILES		24. MEAN ANNUAL RUNOFF 3.2 AC.-F.T.											
21. MAX. ELEV.			MIN. ELEV.			25. CLIMATIC CLASSIFICATION Sub-humid									
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.	
Aug. 1955		-		-		-		-		0.572		3.20		43.0	
Nov. 1965		10.3		10.3		Range D		3		0.572		2.67		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			
Nov. 1965		0.53		.051		0.68		0.53		.051		0.68			
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*		740		740		1.6		16.5					

\*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: 19.2 Ac. of Pasture  
27.8 Ac. of Crop

48. AGENCY MAKING SURVEY Watershed Planning Party  
49. AGENCY SUPPLYING DATA Soil Conservation Service  
Huron, South Dakota

50. DATE Nov. 1965