

**RESERVOIR SEDIMENT  
DATA SUMMARY**  
SCS-34 Rev. 6-62

Van Oosting Dam  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

39-7

DATA SHEET NO.

Unnamed Trib.

DAM	1. OWNER Van Oosting			2. STREAM Missouri River			3. STATE North Dakota		
	4. SEC. 6 TWP. 143N RANGE 82W			5. NEAREST TOWN Hensler			6. COUNTY Oliver		
	7. STREAM BED ELEVATION 56.1			8. TOP OF DAM ELEVATION 98.7			9. SPILLWAY CREST ELEV. 93.8		
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					4-10-50			
	b. FLOOD CONTROL								
	c. POWER					16. DATE NORMAL OPER. BEGAN			
	d. WATER SUPPLY								
	e. IRRIGATION					4-10-50			
	f. CONSERVATION <u>1/</u>	93.8	11.9	171.5	171.5				
	g. SEDIMENT					4-10-50			
h. INACTIVE									
17. LENGTH OF RESERVOIR		0.34 <sup>2/</sup> MILES		AV. WIDTH OF RESERVOIR		0.02 MILES			
18. TOTAL DRAINAGE AREA			1.78 SQ. MI.		22. MEAN ANNUAL PRECIPITATION			15.07 (50 yr) INCHES	
19. NET SEDIMENT CONTRIBUTING AREA			1.76 SQ. MI.		23. MEAN ANNUAL RUNOFF			0.503 <sup>1/</sup> INCHES	
20. LENGTH 1.63 MILES		AV. WIDTH 1.09 MILES		24. MEAN ANNUAL RUNOFF			47.4 AC.-FT.		
21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Semi-Arid					
WATERSHED	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.	
	4-10-50	-	-	-	-	11.9	171.5	97.44	
	10-22-64	14.5	14.5	Range(D)	18	11.9	167.0	94.89	
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		
	10-22-64	18.13	94.8 <sup>4/</sup>	222.0	1,375	94.8 <sup>4/</sup>	1,375		
SURVEY DATA	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		
	10-22-64	4.50 <sup>5/</sup>	0.31 <sup>5/</sup>	0.176 <sup>5/</sup>	4.50 <sup>5/</sup>	0.31 <sup>5/</sup>	0.176 <sup>5/</sup>		
SURVEY DATA	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	
	10-22-64	60.4(1)	231.5 <sup>5/</sup>	231.5 <sup>5/</sup>	0.18 <sup>5/</sup>	2.62 <sup>5/</sup>	3,168 <sup>5/</sup>	3,168 <sup>5/</sup>	

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  
 1/ Fish and Wildlife  
 2/ Other arm-length 0.30 miles  
 3/ U.S.G.S. Circulars 37 and 52  
 4/ Based on 1.0 inch runoff - Gage on Spring Creek near Zap  
 5/ Includes 0.03 A.F. - Above crest sediment  
 Land use in watershed: 93.3 percent cropland; 6.7 percent native sod  
 Geology - Ft. Union Fm. mantled by glacial till

48. AGENCY MAKING SURVEY North Dakota Watershed Planning Party  
 49. AGENCY SUPPLYING DATA SCS, Bismarck, North Dakota 50. DATE December 28, 1964