

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

Wohlfiel Farm Pond
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

27-10

DATA SHEET NO.

DAM	1. OWNER <u>Burdette Wohlfiel</u>		2. STREAM <u>unnamed trib. to Zumbro River</u>		3. STATE <u>Minnesota</u>	
	4. SEC. <u>NE 1/4 30</u> TWP. <u>109N</u> RANGE <u>12W</u>		5. NEAREST TOWN <u>Millville</u>		6. COUNTY <u>Wabasha</u>	
	7. STREAM BED ELEVATION <u>77.0</u>		8. TOP OF DAM ELEVATION <u>97.0</u>		9. SPILLWAY CREST ELEV. <u>95.0</u>	
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA ACRES	
	a. MULTIPLE USE					
	b. FLOOD CONTROL		<u>95.0</u>		<u>3.83</u>	
	c. POWER					
	d. WATER SUPPLY		<u>85.0</u>		<u>1.10</u>	
	e. IRRIGATION					
	f. CONSERVATION					
	g. SEDIMENT					
	h. INACTIVE					
				13. ORIGINAL CAPACITY ACRE-Feet		
				14. GROSS STORAGE ACRE-Feet		
				15. DATE STORAGE BEGAN		
				16. DATE NORMAL OPER. BEGAN		
				July 1955		
				July 1955		
				17. LENGTH OF RESERVOIR <u>0.09</u> MILES		
				AV. WIDTH OF RESERVOIR <u>0.07</u> MILES		
WATERSHED	18. TOTAL DRAINAGE AREA		<u>0.386</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <u>29.68</u> INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA		<u>0.384</u> SQ. MI.		23. MEAN ANNUAL RUNOFF <u>*6.0</u> INCHES	
	20. LENGTH		MILES		24. MEAN ANNUAL RUNOFF <u>123</u> AC.-FT.	
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION <u>Sub-humid</u>	
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.			
	July 1955		-		-	
	May 1962		6.8		6.8	
			range detailed		12	
			3.83		27.98	
			3.83		26.71	
			72.86		69.56	
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		
May 1962		1.27		0.19		
		0.19		0.49		
		1.27		0.19		
		0.19		0.49		
26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PER SQ. MI.-YR.		
		a. PERIOD		b. TOTAL TO DATE		
		a. AV. AN.		b. TOT. TO DATE		
		a. PERIOD		b. TOT. TO DATE		
May 1962		*55.0		587		
		587		0.67		
		0.67		4.53		
		-		-		
		-		-		

* Estimated

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					
<u>Land Capability Unit</u>	<u>Watershed Land Use - Average</u>	<u>Average Slope</u>	<u>Slope Length</u>	<u>for Survey Period Conservation Practice</u>	
(Class)	(Acres)	(Percent)	(Feet)	(None)	(Terraced)
II	64	3	300	6	58
III	133	8	250	52	81
IV	21	14	200	9	12
VI	2	20	150	-	2
Total 220 acres; measured rate of sediment production, adjusted for trap efficiency- 607 tons/sq.mi./yr. Adjusted for subnormal runoff for survey period-1010 tons/sq.mi./yr. Topography-undulating; estimated sources of sediment; cropland 90%, other 10%					
48. AGENCY MAKING SURVEY				50. DATE Dec. 6, 1962	
49. AGENCY SUPPLYING DATA USDA, Milwaukee, Wisconsin					