

**RESERVOIR SEDIMENT  
DATA SUMMARY**

SCS-34 Rev. 6-62

Frieheit Farm Pond

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

27-8

DATA SHEET NO.

unnamed tributary to

DAM	1. OWNER <b>Everett Frieheit</b>		2. STREAM <b>Zumbro River</b>		3. STATE <b>Minnesota</b>			
	4. SEC. <b>W<sup>1</sup> 36 TWP. 110N RANGE 14W</b>		5. NEAREST TOWN <b>Zumbro Falls</b>		6. COUNTY <b>Wabasha</b>			
	7. STREAM BED ELEVATION		8. TOP OF DAM ELEVATION <b>97.0</b>		9. SPILLWAY CREST ELEV. <b>95.0</b>			
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					Aug. 1955		
	b. FLOOD CONTROL	95.0	1.71	12.24	14.27			
	c. POWER							
	d. WATER SUPPLY	84.0	0.58	2.03	2.03	16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION					Aug. 1955		
	f. CONSERVATION							
	g. SEDIMENT							
h. INACTIVE								
17. LENGTH OF RESERVOIR		0.05	MILES	AV. WIDTH OF RESERVOIR		0.05		
18. TOTAL DRAINAGE AREA		0.269		SQ. MI.	22. MEAN ANNUAL PRECIPITATION			
19. NET SEDIMENT CONTRIBUTING AREA		0.268		SQ. MI.	23. MEAN ANNUAL RUNOFF			
20. LENGTH		MILES		AV. WIDTH		MILES		
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.
	Aug. 1955	-	-	-	-	1.71	14.27	53.25
	May 1962	6.8	6.8	range detailed	12	1.71	13.29	49.59
	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	0.98	0.14	0.52	0.98	0.14	0.52	
	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	
May 1962	49.50(3)	560.	560.	1.00	6.87	-	-	

\* 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
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      Watershed Land Use - Average for Survey Period

Land Capability Unit	Average Slope	Slope Length	Conservation Practice
(Class)	(Acres)	(Percent)	(None)(Contour Strip)
II	64	3	45      19
III	51	9	43      8

Total cropland-115 acres; measured rate of sediment production, adjusted for trap efficiency 803 tons/sq.mi./yr. - Adjusted for subnormal runoff for survey period-1335 tons/sq.mi./yr. Estimated sources of sediment - cropland 80%, other 20%. Topography-moderately steep-transition-glaciated-non-glaciated.

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA      USDA, Milwaukee, Wisconsin      50. DATE Dec. 7, 1962