

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

Stelplough Farm Pond
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

27-9
DATA SHEET NO.

unnamed tributary

DAM	1. OWNER Vernon Stelplough		2. STREAM to Corey Creek		3. STATE Minnesota			
	4. SEC. NE 27 TWP. 105N RANGE 7W		5. NEAREST TOWN Money Creek		6. COUNTY Winona			
	7. STREAM BED ELEVATION 15.7		8. TOP OF DAM ELEVATION 34.5		9. SPILLWAY CREST ELEV. 32.0			
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					Sept. 1957		
	b. FLOOD CONTROL	32.0	2.17	12.95	19.09			
	c. POWER					16. DATE NORMAL OPER. BEGAN		
	d. WATER SUPPLY	24.0	1.13	6.14	6.14			
	e. IRRIGATION							
	f. CONSERVATION					Sept. 1957		
	g. SEDIMENT							
	h. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 0.05 MILES		AV. WIDTH OF RESERVOIR .07 MILES					
	18. TOTAL DRAINAGE AREA 0.231 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 30.64 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 0.230 SQ. MI.		23. MEAN ANNUAL RUNOFF *5.0 INCHES					
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF 61* AC.-FT.			
	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.
	Sept. 1957	-	-	-	-	2.17	19.09	83.00
	May 1962	4.7	4.7	range detailed	10	2.17	18.04	78.43
	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	1.05	0.22	0.96	1.05	0.22	0.96	
	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	*65.0	1359	1359	1.17	5.50	-	-	

* 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

Land Capability Unit	Watershed Land Use Data - Average For Survey Period	Average Slope	Slope Length	Conservation Practice
(Class)	(Acres)	(Percent)	(Feet)	(None) (Contour Strip)
II	13	3	300	- 13
III	8	9	250	- 8
IV	7	14	200	- 7

Total 28 Acres-measured rate of sediment production, adjusted for trap efficiency= 1446 tons/sq.mi./yr. - Adjusted for Subnormal runoff for survey period-2410 tons/sq.mi./yr. - Estimated sources of sediment: cropland 10%, channels & gullies 90%
 Topography - steep and rough - non-glaciated (Driftless area)

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA SCS, Milwaukee, Wis.

50. DATE Dec. 6, 1962