

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

Franklin Farm Pond  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

27-7

DATA SHEET NO.

DAM	1. OWNER Cecil Franklin				2. STREAMtrib. of Spring Cr.		3. STATE Minnesota									
	4. SEC. W <sup>1</sup> / <sub>2</sub> 20 TWP. 112N RANGE 15W				5. NEAREST TOWN Red Wing		6. COUNTY Goodhue									
	7. STREAM BED ELEVATION 102				8. TOP OF DAM ELEVATION 130.2		9. SPILLWAY CREST ELEV. 127.0									
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															
	b. FLOOD CONTROL		127.0		12.70		76.5		110.5		May 1958					
	c. POWER															
	d. WATER SUPPLY		118.0		4.84		34.0		34.0		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. SEDIMENT		May 1958													
h. INACTIVE																
17. LENGTH OF RESERVOIR 0.17 MILES					AV. WIDTH OF RESERVOIR 0.12 MILES											
WATERSHED	18. TOTAL DRAINAGE AREA 1.188 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 29.63 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 1.181 SQ. MI.				23. MEAN ANNUAL RUNOFF *5.0 INCHES											
	20. LENGTH MILES				AV. WIDTH MILES				24. MEAN ANNUAL RUNOFF 320* 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. PERSQ. MI.	
	May 1958		-		-		-		-		12.70		110.5		93.56	
	June 1962		4.1		4.1		Range Detailed		15		12.70		104.56		88.54	
	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			
	June 1962		5.94		1.45		1.23		5.94		1.45		1.23			
	26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PERSQ. 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		
June 1962		*65.0		1,741		1,741		1.31		5.38		-		-		

\* Estimated

Sinkhole in pool area

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 - Average for Survey Period		
(Class)	(Acres)	Average Slope (Percent)	Slope Length (Feet)	Conservation Practice (None)(Contour strip)
II	161	3	300	60 101
III	387	9	250	204 183
IV	71	14	200	44 27
VI	2	20	150	- 2
Total-621 acres-measured rate of sediment production, adjusted for trap efficiency-2082 tons/sq.mi./yr. -- Adjusted for subnormal runoff for survey period-3468 tons/sq.mi./yr. -- Estimated sources of sediment-cropland 95%, other 5%. -- Topography moderately steep transition				
48. AGENCY MAKING SURVEY				
49. AGENCY SUPPLYING DATA SCS, Milwaukee, Wisconsin				50. DATE Dec. 6, 1962