

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Structure R-2 Crooked Creek

NAME OF RESERVOIR

27-16

DATA SHEET NO.

North Fork

DAM	1. OWNER S.W.C.D. & James Scanlon		2. STREAM Crooked Creek		3. STATE Minnesota			
	4. SEC. 15&16 TWP. 102N RANGE 5W		5. NEAREST P.O. Caledonia		6. COUNTY Houston			
	7. LAT. 43° 38' 18" LONG. 91° 25' 57"		8. TOP OF DAM ELEVATION 914.4		9. SPILLWAY CREST ELEV. 910.0			
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. FLOOD CONTROL	910.0	20.2	109.06	221.14	5-66		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION 100yr	894.75 1'	10.4	42.08	112.08	5-66		
g. INACTIVE 50yr	890.0 1'	7.4	70.00	70.00				
WATERSHED	17. LENGTH OF RESERVOIR		0.39 MILES	AV. WIDTH OF RESERVOIR		0.10 MILES		
	18. TOTAL DRAINAGE AREA		3.18 SQ. MI.	22. MEAN ANNUAL PRECIPITATION		31 INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		2.45 SQ. MI.	23. MEAN ANNUAL RUNOFF		6.3 2' INCHES		
	20. LENGTH	2.56 MILES	AV. WIDTH	1.32 MILES	24. MEAN ANNUAL RUNOFF		1068.4 AC.-FT.	
	21. MAX. ELEV.	920.0	MIN. ELEV.	875.0	25. ANNUAL TEMP: MEAN 36°F RANGE 37° to 107°F			
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/I. RATIO, AC.-FT. PER AC.-FT.
	5-20-66	-	-	-	-	20.2	221.14	0.2'
	5-20-71	5	5	Range	26	20.2	212.36	0.20
	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	
	5-20-71	29.5	1068	1900	5340	1068	5340	
	26. DATE OF SURVEY	37. PERIOD CAPACITY LOSS, 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	
	5-20-71.	8.78	1.76	0.72	8.78	1.76	0.72	
	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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
5-20-71	60.0*	937	937	0.80	4.0	---	---	

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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																
5-20-71	15.5	24.4	18.0	10.0	9.4	8.2	2.8	4.7	4.9	1.8	0.3	0					
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																	
<p>1' Sediment</p> <p>2' Data from USGS Circular #52 and Kerr Report, December 1959</p> <p>*Estimated</p>																	
48. AGENCY MAKING SURVEY SCS-USDA										49. AGENCY SUPPLYING DATA SCS-USDA				50. DATE July 1976			