

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

John McWilliams

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

30-18

DATA SHEET NO.

DAM	1. OWNER John McWilliams			2. STREAM Sand Hill River			3. STATE Minnesota					
	4. SEC. 30 TWP. 147N RANGE 41W			5. NEAREST P.O. McKintosh			6. COUNTY Polk (East)					
	7. LAT. 47° 31' 19" LONG. 95° 55' 55"			8. TOP OF DAM ELEVATION 88.0*			9. SPILLWAY CREST ELEV. 86.5					
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		86.5		10.215		36.488		38.25		7-1958	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION											
WATERSHED	g. INACTIVE 1/		76.0		0.248		1.757		1.757		7-1958	
	17. LENGTH OF RESERVOIR 0.038 MILES				AV. WIDTH OF RESERVOIR 0.42 MILES							
	18. TOTAL DRAINAGE AREA 1.48 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 22 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA .46 SQ. MI.				23. MEAN ANNUAL RUNOFF 1.52' INCHES							
	20. LENGTH 0.75 MILES		AV. WIDTH 1.97 MILES		24. MEAN ANNUAL RUNOFF 118 AC.-FT.							
21. MAX. ELEV. 88.0		MIN. ELEV. 67.0		25. ANNUAL TEMP: MEAN 40°F RANGE 5° to 70°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.			
	7-58		-	-	-	-	10.2'	38.25	0.32			
	5-71		12.8	12.8	Range	3	10.21	37.81	0.32			
	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			
5-71		21.89		119	269	1523	119	1523				
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					
5-71		0.437	0.034	0.023	0.437	0.034	0.023					
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				
5-71		*55**	27.8	27.8	0.0	1.14						

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														
5-71	8.0	41.0	51.0	4.0	6	0	0	0	0	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' Mean annual runoff from USGS Circular #52 & Derr Report, December 1959</p> <p>*Assumed Datum</p> <p>**Estimated</p>															
48. AGENCY MAKING SURVEY				USDA-SCS											
49. AGENCY SUPPLYING DATA				USDA-SCS				50. DATE				July, 1976			