

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Kropp Farms Dam
NAME OF RESERVOIR

36-27
DATA SHEET NO.

SCS-34 Rev. 6-66

7 Mile

DAM	1. OWNER Kropp Farms		2. STREAM Unnamed Trib. Coule		3. STATE North Dakota			
	4. SEC. 14 TWP. 141N RANGE 63W		5. NEAREST P.O. Jamestown, ND		6. COUNTY Stutsman			
	7. LAT. 47° 01' 56" LONG. 98° 36' 57"		8. TOP OF DAM ELEVATION 124.5		9. SPILLWAY CREST ELEV. 122.2			
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	122.2	22.50	94.0	225.0	4/10/69		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY							
	e. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	f. CONSERVATION	119.0	17.75	131.0	131.0	4/20/69		
g. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR 0.67 MILES		AV. WIDTH OF RESERVOIR 0.03 MILES					
	18. TOTAL DRAINAGE AREA 2.81 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 17.83 (89) INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 2.77 SQ. MI.		23. MEAN ANNUAL RUNOFF 0.35 1/ INCHES					
	20. LENGTH 1.95 MILES		AV. WIDTH 1.44 MILES		24. MEAN ANNUAL RUNOFF 52.4 AC.-FT.			
	21. MAX. ELEV. 1530		MIN. ELEV. 1470		25. ANNUAL TEMP.: MEAN 40.5° RANGE -41 to 112°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.
	10/26/71 ^{2/}	2.6	2.6	Range (D)	9	22.5	225.0	4.29
	9/26/81	9.9	12.5	Range (D)	10	22.5	221.33	4.22
	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		
	10/26/71	15.34						
	9/26/81	17.61						
	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	
	9/26/81	3.65	0.37	0.13	3.65	0.37	0.13	
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	
9/26/81	40*	113.3	113.3	0.16	1.62			

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														
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><u>1/</u> U.S.G.S. Circular 37 & 52</p> <p><u>2/</u> Initial survey - no sediment measured.</p> <p>Land use in watershed - 89% cropland. Since 1969, the majority of cropland has gradually changed from small grain (wheat & barley) to row crop (corn & sunflowers).</p> <p>*Assumed</p>															
48. AGENCY MAKING SURVEY SCS, Bismarck, ND															
49. AGENCY SUPPLYING DATA SCS, Bismarck, ND															
50. DATE 2-23-82															