RESERVOIR SEDIMENT
DATA SUMMARY
SCS-34 Rev. 6-66

STERLING DAM
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

59-9
DATA SHEET NO.

DAM

1. OWNER Burlington-Northern RR	2. STREAM Random Creek	3. STATE North Dakota
4. SEC. 4 TWP. 138 N RANGE 76 W	5. NEAREST P.O. Sterling 1 N	6. COUNTY Burleigh
7. LAT. 46° 49' 48" LONG. 100° 10' 40"	8. TOP OF DAM ELEVATION 1765.0	9. SPILLWAY CREST ELEV. 1760.0

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					1900 1/
b. MULTIPLE USE					
c. POWER					16. DATE NORMAL OPER. BEGAN
d. WATER SUPPLY	1760.0	73.14	525.67	525.67	
e. IRRIGATION					1900 1/
f. CONSERVATION					
g. INACTIVE					

WATERSHED

17. LENGTH OF RESERVOIR 1.1 MILES		AV. WIDTH OF RESERVOIR 0.10 MILES	
18. TOTAL DRAINAGE AREA 42.81 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 17.41 (73 Yr) INCHES	
19. NET SEDIMENT CONTRIBUTING AREA 42.70 SQ. MI.		23. MEAN ANNUAL RUNOFF 0.28 2/ INCHES	
20. LENGTH 4.3 MILES	AV. WIDTH 9.96 MILES	24. MEAN ANNUAL RUNOFF 639.26 AC.-FT.	
21. MAX. ELEV. 2000	MIN. ELEV. 1744	25. ANNUAL TEMP.: MEAN 42°F RANGE -45° to 114°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.
1900	--	--		--	--3/	525.67	0.822
8-73	73.0	73.0	Range-(D)	9	73.14	390.60	0.611

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 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
8-73	135.07	1.85	0.043	135.07	1.85	0.043

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
8-73	19.6	18.5	13.3	0.352	25.60		

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

1/ Best estimate available from local people.
2/ 80% chance.
3/ Not available.

Land use in watershed: 38.9% cropland; 27.3% rangeland; 17.8% hayland; 11.6% tame pasture; 3.8% misc. (roads, railroad, etc.); 0.6% farmsteads and trees. 90% of drainage area has adequate land treatment.

Geology: Late Wisconsinan Glacial Drift.

48. AGENCY MAKING SURVEY U.S.D.A. Soil Conservation Service
49. AGENCY SUPPLYING DATA U.S.D.A. Soil Conservation Service 50. DATE 2/13/74