

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

Bosserman Irrigation Dam
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

39-11

DATA SHEET NO.

DAM	1. OWNER M. Bosserman			2. STREAM Bullion Creek			3. STATE North Dakota					
	4. SEC. 2 TWP. 137N RANGE 105W			5. NEAREST P.O. Golva 4NW			6. COUNTY Golden Valley					
	7. LAT. 46° 42' 57" LONG. 103° 54' 23"			8. TOP OF DAM ELEVATION 114.0			9. SPILLWAY CREST ELEV. 110.0					
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		110.0		139.8		728.75		1,762.0		8-1-71	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION		104.0		101.3		1033.25		1033.25		16. DATE NORMAL OPER. BEGAN	
	f. CONSERVATION										3-1-72	
g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR 1.46 MILES				AV. WIDTH OF RESERVOIR 0.14 MILES							
	18. TOTAL DRAINAGE AREA 37.4 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 16.41 (60) INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 37.2 SQ. MI.				23. MEAN ANNUAL RUNOFF 1.01 ¹ INCHES							
	20. LENGTH 7.1 MILES		AV. WIDTH 5.3 MILES		24. MEAN ANNUAL RUNOFF 1993.0 AC.-F.T.							
	21. MAX. ELEV. 3200		MIN. ELEV. 2720		25. ANNUAL TEMP.: MEAN 43°F RANGE -43-110°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.			
	10-12-71				Range (D)	10	139.8	1762.0	0.88 ^{2/}			
	9-9-80		9.1	9.1	Range (D)	11	142.4	1717.4	0.86 ^{2/}			
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET			36. WATER INFL. TO DATE, AC.-FT.				
	9-9-80		14.52									
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET						
	9-9-80		44.6			4.90			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				
	9-9-80		80 (3)	226.5		0.28		0.28				

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>1/ U.S.G.S. Circulars 37 & 52</p> <p>2/ Reservoir is emptied to at least Elevation 94.0 each fall to store next springs snow melt runoff. C/I ratios would be 0.181 & 0.186.</p> <p>Geology: Paleocene Tongue River Fm.</p> <p>Land Use: 68% Cropland</p>															
48. AGENCY MAKING SURVEY U.S.D.A. Soil Conservation Service										50. DATE 3-2-82					
49. AGENCY SUPPLYING DATA Bismarck, North Dakota															