

**RESERVOIR SEDIMENTATION
DATA SUMMARY**

Frederick Stock Dam
NAME OF RESERVOIR

39-1
DATA SHEET NO.

DAM	1. OWNER Fritz Frederick			2. RIVER Louse Creek			3. STATE North Dakota			
	4. SEC. 36 TWP. 135 N RANGE 85 W			5. NEAREST TOWN Flasher			6. COUNTY Grant			
	7. STREAM BED ELEV. 88.3*			8. TOP OF DAM ELEV. 97.5*			9. SPILLWAY CREST ELEV. 94.9*			
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	15. DATE STORAGE BEGAN				
	a. FLOOD CONTROL					1935				
	b. POWER									
	c. WATER SUPPLY	94.9*	0.49	1.06	1.06	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION									
	f. INACTIVE					1935				
17. LENGTH OF RESERVOIR 0.107 MILES			AV. WIDTH OF RESERVOIR 0.0078 MILES							
WATERSHED	18. TOTAL DRAINAGE AREA 1.17 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 16.501/ INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 1.17 SQ. MI.			23. MEAN ANNUAL RUNOFF 0.82/ INCHES						
	20. LENGTH 1.2 MILES AV. WIDTH 1.0 MILES			24. MEAN ANNUAL RUNOFF 49.8 AC.-FT.						
	21. MAX. ELEV. MIN. ELEV.			25. CLIMATIC CLASSIFICATION Semi-arid						
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/W RATIO AC.-FT. PER SQ. MI.		
	1935	--	--	--	--	0.49	1.06	0.906		
	August 1956	21	21	Range (D)	10	0.49	0.864	0.733		
	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 SEDIMENT DEPOSITS 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			
	August 1956	0.196	0.00933	0.00797	0.196	0.00933	0.00797			
	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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
August 1956	35*	6.07	6.07	0.88	18.49					

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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/Carson No. 2, N. Dak., rainfall record
2/Mean annual runoff - U.S.G.S. Circulars 37 and 52.
 *Assumed

48. AGENCY SUPPLYING DATA SCS, Fargo, North Dakota 49. DATE December 4, 1956