

RESERVOIR SEDIMENTATION
DATA SUMMARY

Land Utilization Project No. 243-6

37-18

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER U.S.D.A., Soil Conserv. Serv.				2. RIVER Unnamed tributary to Bad River		3. STATE South Dakota									
	4. SEC. 9 TWP. 1 N RANGE 31 E			5. NEAREST TOWN Pierre		6. COUNTY Jones										
	7. STREAM BED ELEV. -				8. TOP OF DAM ELEV. -		9. SPILLWAY CREST ELEV. -									
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										Nov. 1937					
	b. POWER										16. DATE NORMAL OPER. BEGAN					
	c. WATER SUPPLY															
	d. IRRIGATION															
	e. CONSERVATION				0.85		3.2		3.2							
	f. INACTIVE															
17. LENGTH OF RESERVOIR					MILES		18. AV. WIDTH OF RESERVOIR					MILES				
WATERSHED	18. TOTAL DRAINAGE AREA 75 ac. 0.117 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 16.20 (53) INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 74 ac. 0.116 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF 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.	
	Nov. 1937		-		-		-		-		0.85		3.2		27.4	
	July 1945		7.7		7.7		Range Detailed		3		0.85		2.8		23.9	
	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		d. MEAN ANNUAL		e. 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		d. TOTAL TO DATE		e. AV. ANNUAL		f. PER SQ. MI.-YEAR			
	July 1945		0.422		0.055		0.474		0.422		0.055		0.474			
	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		c. AV. ANNUAL		d. TOT. TO DATE		e. PERIOD		f. TOT. TO DATE		
July 1945								1.72		13.19						

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
 Gottschalk, L. C. Silting of stock ponds in the Land Utilization Project Area SD-LU-2, Pierre, South Dakota. U. S. Soil Conserv. Serv., Special Report No. 9, 11 pp., illus., processed. Washington, D. C. May 1946.

Region 5, Soil Conservation Service
 U. S. Department of Agriculture

48. AGENCY SUPPLYING DATA Lincoln, Nebraska 49. DATE January 5, 1951