

RESERVOIR SEDIMENTATION
DATA SUMMARY

Land Utilization Project No. 243-5

37-17

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER U.S.D.A., Soil Conserv. Serv.			2. RIVER Unnamed tributary to Missouri River		3. STATE South Dakota		
	4. SEC. 21 TWP. 107 N RANGE 78 W		5. NEAREST TOWN Pierre		6. COUNTY Lyman			
	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			0.67	2.6	2.6		
f. INACTIVE								
17. LENGTH OF RESERVOIR				MILES	AV. WIDTH OF RESERVOIR		MILES	
WATERSHED	18. TOTAL DRAINAGE AREA 45 ac.		0.072	SQ. MI.	22. MEAN ANNUAL PRECIPITATION 15.20 (53) INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 45 ac.		0.070	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	-	-	-	-	0.67	2.6	36.1
	July 1945	7.7	7.7	Range Detailed	3	0.67	2.2	30.6
	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	
	July 1945	0.380	0.049	0.700	0.380	0.049	0.700	
	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	
July 1945				1.88	14.62			

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