

RESERVOIR SEDIMENTATION
DATA SUMMARY

Land Utilization Project No. 226-6

37-6

Service

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER U.S.D.A., Soil Conservation Service				2. RIVER Unnamed tributary to Missouri River		3. STATE South Dakota			
	4. SEC. 29 TWP. 109 N RANGE 78 W			5. NEAREST TOWN Pierre		6. COUNTY Stanley				
	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					April 1936				
	b. POWER									
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION			9.1	31.8	31.8				
	f. INACTIVE									
17. LENGTH OF RESERVOIR				MILES	AV. WIDTH OF RESERVOIR				MILES	
WATERSHED	18. TOTAL DRAINAGE AREA (1635 ac.)			2.555	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			16.20 (53)	INCHES
	19. NET SEDIMENT CONTRIBUTING AREA (1626 ac.)			2.541	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
	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.		
April 1936	-	-	-	-	9.1	31.8	12.4			
July 1945	9.3	9.3	Range Detailed	5	9.1	25.1	9.82			
SURVEY DATA	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	6.733	0.724	0.285	6.733	0.724	0.285				
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					2.28	21.17				

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															
<p>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.</p> <p>Region 5, Soil Conservation Service U. S. Department of Agriculture</p>															
48. AGENCY SUPPLYING DATA Lincoln, Nebraska										49. DATE <u>January 5, 1951</u>					