

RESERVOIR SEDIMENTATION
DATA SUMMARY

Land Utilization Project No. 226-32

37 - 12

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER U.S.D.A. Soil Cons. Serv.		2. RIVER <u>Missouri</u> <u>Unamed Trib of</u> <u>River</u>		3. STATE <u>South Dakota</u>				
	4. SEC. <u>9</u> TWP. <u>107N</u> RANGE <u>78W</u>		5. NEAREST TOWN <u>Pierre</u>		6. COUNTY <u>Lyman</u>				
	7. STREAM BED ELEV. <u>-</u>		8. TOP OF DAM ELEV. <u>-</u>		9. SPILLWAY CREST ELEV. <u>-</u>				
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					March 1937			
	b. POWER								
	c. WATER SUPPLY								
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN			
	e. CONSERVATION			3.2	14.1	14.1			
	f. INACTIVE								
17. LENGTH OF RESERVOIR			MILES	17. AV. WIDTH OF RESERVOIR		MILES			
WATERSHED	18. TOTAL DRAINAGE AREA (<u>305 ac.</u>)			0.477	SQ. MI.	22. MEAN ANNUAL PRECIPITATION <u>16.20 (53)</u>	INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA (<u>302 ac.</u>)			0.472	SQ. MI.	23. MEAN ANNUAL RUNOFF		INCHES	
	20. LENGTH		MILES	20. AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF		AC.-FT.
	21. MAX. ELEV.		21. MIN. ELEV.		25. CLIMATIC CLASSIFICATION <u>Semi-arid</u>				
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.	
	March 1937	-	-	-	-	3.2	14.1	29.6	
	July 1945	8.3	8.3	Range detailed	4	3.2	12.1	25.4	
	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	1.991	0.240	0.508	1.991	0.240	0.508		
	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				1.70	14.12				

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. "Siltng of stock ponds in the Land Utilization Project Area SD-LU-2, Pierre, So. 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. Dept. of Agriculture
Lincoln, Nebraska

48. AGENCY SUPPLYING DATA

49. DATE January 5, 1951