

**RESERVOIR SEDIMENT  
DATA SUMMARY**  
SCS-34 Rev. 6-62

WENNER RESERVOIR  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

39-5

DATA SHEET NO.

DAM	1. OWNER Frank Wenner				2. STREAM Trib. to Grand			3. STATE S. Dak.				
	4. SEC. 8 TWP. 22 RANGE 19				5. NEAREST TOWN Lemmon			6. COUNTY Perkins				
	7. STREAM BED ELEVATION 81.3				8. TOP OF DAM ELEVATION 105			9. SPILLWAY CREST ELEV. 100				
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA ACRES		13. ORIGINAL CAPACITY ACRE-FEET		14. GROSS STORAGE ACRE-FEET		15. DATE STORAGE BEGAN	
	a. MULTIPLE USE										Aug. 1951	
	b. FLOOD CONTROL											
	c. POWER											
	d. WATER SUPPLY		100		4.15		35.96		35.96		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION											
	g. SEDIMENT										Aug. 1951	
	h. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 0.178 MILES				AV. WIDTH OF RESERVOIR 0.052 MILES							
	18. TOTAL DRAINAGE AREA 0.493 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 16.4 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 0.493 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.43 INCHES							
	20. LENGTH 0.76 MILES		AV. WIDTH 0.79 MILES		24. MEAN ANNUAL RUNOFF 11.3 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.			
	Aug. 1951						4.15	35.96	72.94			
	Aug. 1964		13	13	Range (D)	3R.	4.15	33.96	68.88			
	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				
	Aug. 1964		16.4	11.30	1/	146.90	11.30	146.90				
	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				
	Aug. 1964		2.0	0.15	0.30	2.0	0.15	0.30				
	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. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
Aug. 1964		60*	392.0	392.0	0.43	5.56	13,100	13,100				

\* Assumed

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
1/	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
8-64	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION													
	5	17	15	15	10	7	7	6	8	10				

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV. #	INFLOW AC.-FT.
1/							

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1/								

47. REMARKS AND REFERENCES  
 1/ Data not available  
watershed land use  
 50% cropland  
 50% pasture  
geology  
 cannon ball formation of Tertiary Age

48. AGENCY MAKING SURVEY  
 49. AGENCY SUPPLYING DATA SCS, Huron, S. Dak.  
 50. DATE Feb. 4, 1965