

**RESERVOIR SEDIMENT  
DATA SUMMARY**

SCS-34 Rev. 6-62

Lake Dante  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

37-24a  
DATA SHEET NO.

DAM	1. OWNER State of South Dakota			2. STREAM Trib. Choteau Creek		3. STATE South Dakota						
	4. SEC. 9 TWP. 95 RANGE 62			5. NEAREST TOWN Wagner, S. D.		6. COUNTY Charles Mix						
	7. STREAM BED ELEVATION 78.5			8. TOP OF DAM ELEVATION 105.6 <sup>1/</sup>		9. SPILLWAY CREST ELEV. 100 <sup>1/</sup>						
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										Nov. 1937	
	b. FLOOD CONTROL											
	c. POWER											
	d. WATER SUPPLY		100 <sup>1/</sup>		23.0		260.73		260.73		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION											
	g. SEDIMENT										Nov. 1937	
	h. INACTIVE											
17. LENGTH OF RESERVOIR .7					MILES		AV. WIDTH OF RESERVOIR .048			MILES		
WATERSHED	18. TOTAL DRAINAGE AREA 2.89				SQ. MI.		22. MEAN ANNUAL PRECIPITATION 21.54			INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA 2.89				SQ. MI.		23. MEAN ANNUAL RUNOFF .50			INCHES		
	20. LENGTH 3.0		MILES		AV. WIDTH .96		MILES		24. MEAN ANNUAL RUNOFF 740			AC. F T.
	21. MAX. ELEV. 1650		MIN. ELEV. 1450		25. CLIMATIC CLASSIFICATION sub-humid							
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	0	--	--		23.0		260.73		90.2
	Oct. 1955		17.9	17.9	Range	8		23.0		230.95		80.0
	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	
	Oct. 1955		17.0-36.0		77.0	83.56		1378.3		77.0	1378.3 <sup>2/</sup>	
	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	
	Oct. 1955		29.78		1.67	0.578		29.78		1.67	0.578	
	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			
Oct. 1955		60 <sup>3/</sup>		756		756	0.64	11.4	20,775	20,775 <sup>2/</sup>		

1/ Assumed elevation  
2/ As of October 1955  
3/ Assumed weight

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			
<u>Soil Analysis Report of Underwater Samples.</u>			
<u>Sample No.</u>	<u>Sand %</u>	<u>Silt %</u>	<u>Clay %</u>
1	6	61	33
2	1	65	34
3	5	54	41
4	1	54	45
48. AGENCY MAKING SURVEY SCS			
49. AGENCY SUPPLYING DATA USDA-SCS, WWPP			
50. DATE Jan. 30, 1962			