

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

CLARK RESERVOIR
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

39-4

DATA SHEET NO.

DAM	1. OWNER <u>George Clark</u>			2. STREAM <u>Trib. of Moreau</u>			3. STATE <u>S. Dak.</u>								
	4. SEC. <u>5</u> TWP. <u>15</u> RANGE <u>14</u>			5. NEAREST TOWN <u>Sorum, S. D.</u>			6. COUNTY <u>Perkins</u>								
	7. STREAM BED ELEVATION <u>85.2</u>			8. TOP OF DAM ELEVATION <u>105</u>			9. SPILLWAY CREST ELEV. <u>100</u>								
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										8-49				
	b. FLOOD CONTROL														
	c. POWER														
	d. WATER SUPPLY		<u>100</u>		<u>9.01</u>		<u>62.0</u>		<u>62.0</u>		16. DATE NORMAL OPER. BEGAN				
	e. IRRIGATION														
	f. CONSERVATION														
	g. SEDIMENT										8-49				
	h. INACTIVE														
17. LENGTH OF RESERVOIR <u>0.28</u> MILES					AV. WIDTH OF RESERVOIR <u>0.057</u> MILES										
WATERSHED	18. TOTAL DRAINAGE AREA <u>3.56</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>16.4</u> INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA <u>2.56</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>0.43</u> INCHES										
	20. LENGTH <u>2.3</u> MILES		AV. WIDTH <u>1.5</u> MILES		24. MEAN ANNUAL RUNOFF <u>81.5</u> AC.-F.T.										
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION <u>semi-arid</u>										
	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.
8-1949										9.01		62.00		<u>1/</u>	
8-1964		15		15		Range		4 R		9.01		56.15			
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			
8-1964		16.4		58.6		<u>2/</u>		879.0		58.6		879.0			
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			
8-1964		5.85		0.39		0.15		5.85		0.39		0.15			
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			
8-1964		60*		196.0		196.0		0.63		9.4		6400		6400	

* Assumed.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
2/	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													
	3	25	25	8	7	3	3	6	5	15				

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
2/							

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
2/								

47. REMARKS AND REFERENCES
 1/ Omitted due to upstream reservoirs
 2/ Data not available
Land use in watershed
 Pasture 100%
Geology
 Upper Hell Creek fm. (Upper Cretaceous Age)

48. AGENCY MAKING SURVEY
 49. AGENCY SUPPLYING DATA SCS, Huron, S. Dak.
 50. DATE Feb. 3, 1965