

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-62

Hiddenwood Lake
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

39-2 a
DATA SHEET NO.

DAM	1. OWNER S. D. Game and Parks		2. STREAM Hiddenwood Creek		3. STATE South Dakota			
	4. SEC. 23 TWP. 124 RANGE 76		5. NEAREST TOWN Selby		6. COUNTY Walworth			
	7. STREAM BED ELEVATION		8. TOP OF DAM ELEVATION 120.0		9. SPILLWAY CREST ELEV. 100.0 ^{1/}			
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					May 1926		
	b. FLOOD CONTROL							
	c. POWER							
	d. WATER SUPPLY							
	e. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	f. CONSERVATION	98.0	29.37	165.70	207.78	May 1926		
	g. SEDIMENT	88.0		42.08	42.08			
h. INACTIVE								
17. LENGTH OF RESERVOIR 0.8		MILES		AV. WIDTH OF RESERVOIR 0.1		MILES		
WATERSHED	18. TOTAL DRAINAGE AREA 31.8		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 15.83		INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA 27.2		SQ. MI.		23. MEAN ANNUAL RUNOFF 0.26		INCHES	
	20. LENGTH 9.0		MILES		AV. WIDTH 3.5		MILES	
	21. MAX. ELEV. 1750		MIN. ELEV. 1700		25. CLIMATIC CLASSIFICATION semi-arid			
	24. MEAN ANNUAL RUNOFF 378.3		AC.-FT.					
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.
	May 1926	0	0	--	--	29.37	207.78	6.5
	Sept. 1959	33.3	33.3	Range method	8 ranges	29.37	165.70	5.2
	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	
	Sept. 1959	6.2-23.4					378.3	12,552
	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	
	Sept. 1959	42.08	1.27	.047	42.08	1.27	0.047	
	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	
Sept. 1959	55.0	56	56	.61	20.2%	--	29,676	

1/ Assumed elevation

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

Report on sedimentation survey of Hiddenwood Lake, Selby, South Dakota.

48. AGENCY MAKING SURVEY SCS
 49. AGENCY SUPPLYING DATA USDA, Soil Conservation Service 10/2/59 so. DATE Rev. 10/11/61

September 13, 1961