

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

COLE RESERVOIR
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

39-6

DATA SHEET NO.

DAM	1. OWNER Cole				2. STREAM Trib. to Grand		3. STATE S. Dak.									
	4. SEC. 9 TWP. 20		RANGE 13		5. NEAREST TOWN Bison		6. COUNTY Perkins									
	7. STREAM BED ELEVATION 81.4			8. TOP OF DAM ELEVATION 105.0			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. 1937					
	b. FLOOD CONTROL															
	c. POWER															
	d. WATER SUPPLY		100		18.97		161.11		161.11		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										Aug. 1937					
	f. CONSERVATION															
	g. SEDIMENT															
	h. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.30 MILES				AV. WIDTH OF RESERVOIR 0.11 MILES											
	18. TOTAL DRAINAGE AREA 4.66 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 16.4(49 yrs.) INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 2.21 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.43 INCHES											
	20. LENGTH 1.9 MILES		AV. WIDTH 3.0 MILES		24. MEAN ANNUAL RUNOFF 106.8 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.	
	8-37										18.97		161.1			
	8-64		27		27		Range (D)		5 R		18.97		144.01		1/	
	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			
	8-64		16.4		50.7		2/		1370		50.7		1370			
	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			
	8-64		17.10		0.63		0.29		17.10		0.63		0.29			
	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		
8-64		60*		379.0		379.0		0.39		10.6		12,000		12,000		

* 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											

25. 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													
	8	10	9	8	8	10	10	14	9	16				

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
 Cropland 12%
 Pasture 88%
Geology
 Cannonball fm. of Tertiary Age

48. AGENCY MAKING SURVEY
 49. AGENCY SUPPLYING DATA SCS, Huron, S. Dak.
 50. DATE Dec. 18, 1964