

RESERVOIR SEDIMENT DATA SUMMARY

SCS-34 Rev. 6-66

NEW UNDERWOOD RESERVOIR
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

38-11

DATA SHEET NO.

S. Dak. Dept. of

DAM	1. OWNER <u>Game, Fish and Parks</u>			2. STREAM <u>No name</u>		3. STATE <u>South Dakota</u>							
	4. SEC. <u>TWP.</u> RANGE			5. NEAREST P.O. <u>New Underwood</u>		6. COUNTY <u>Pennington</u>							
	7. LAT. " LONG.			8. TOP OF DAM ELEVATION <u>2905.02</u>		9. SPILLWAY CREST ELEV. <u>2900.00</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 FLOOD CONTROL										1935		
	b MULTIPLE USE												
	c POWER												
	d WATER SUPPLY										16. DATE NORMAL OPER. BEGAN		
	e IRRIGATION										1935		
	f CONSERVATION		<u>2800.00</u>		<u>20.13</u>		<u>138.5</u>		<u>138.5</u>				
g INACTIVE													
WATERSHED	17. LENGTH OF RESERVOIR <u>.32</u> MILES				AV. WIDTH OF RESERVOIR <u>0.1</u> MILES								
	18. TOTAL DRAINAGE AREA <u>2.97</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>14.71</u> INCHES								
	19. NET SEDIMENT CONTRIBUTING AREA <u>2.91*</u> SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES								
	20. LENGTH <u>2.356</u> MILES		AV. WIDTH <u>1.218</u> MILES		24. MEAN ANNUAL RUNOFF AC. FT.								
	21. MAX. ELEV. <u>3110</u>				MIN. ELEV. <u>2900</u>		25. ANNUAL TEMP: MEAN RANGE						
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/I RATIO, AC. FT. PER AC. FT.			
	Aug. 1970		35	35	Range		5	20.13	120.2				
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW, ACRE-FEET			36. WATER INFL. TO DATE, AC.-FT.						
	Aug. 1970		14.71	a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE					
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET							
	Aug. 1970		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI. YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI. YEAR					
	Aug. 1970		18.3	.52	.177	18.3	0.52	0.177					
	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						
	Aug. 1970		60 ^{2/}	a. PERIOD	b. TOTAL TO DATE	a. AV. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
	Aug. 1970		231	231	0.375	13.21							

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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

* Less lake area
1/ Rapid City Airport rain gage
2/ Assumed wt.

48. AGENCY MAKING SURVEY Soil Conservation Service, Huron, South Dakota
 49. AGENCY SUPPLYING DATA 50. DATE 9/2/70