

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Wild Rice WR-5

NAME OF RESERVOIR

36 -25

DATA SHEET NO.

DAM	1. OWNER			2. STREAM Trib. to Wild Rice Cr.			3. STATE South Dakota					
	4. SEC. 7 TWP. 127N. RANGE 56W.			5. NEAREST P.O. Britton			6. COUNTY Marshall					
	7. LAT. " LONG. "			8. TOP OF DAM ELEVATION 1,455.5			9. SPILLWAY CREST ELEV. 1,450.01					
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		1,450.0		29.70		280.0		280.0		Sept. 1961	
	b MULTIPLE USE											
	c POWER											
	d WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e IRRIGATION											
	f CONSERVATION		1,435.5		9.46		47.4		47.4		Sept. 1961	
g INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR 0.46 MILES				AV. WIDTH OF RESERVOIR 0.10 MILES							
	18. TOTAL DRAINAGE AREA 5.16 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 18.33 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 2.35 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH 6.7 MILES		AV. WIDTH .77 MILES		24. MEAN ANNUAL RUNOFF 39 AC.-FT.							
	21. MAX. ELEV. 1,950		MIN. ELEV. 1,424		25. ANNUAL TEMP: MEAN 43.50 RANGE 110°F. to -45°F.							
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.		
	Sept. 1973		12.0	12.0	Range		9	29.70	274.43	7.04		
	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. 1973		20.12									
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, 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. 1973		5.57	0.46	0.20	5.57	0.46	0.20				
	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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
Sept. 1973		61.38	267.37	267.37	0.16	1.99						

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							
<u>2/</u>															
47. REMARKS AND REFERENCES															
<u>1/</u> Emergency spillway															
<u>2/</u> Not accurate because of borrowing reservoir during construction. Only the sediment pool was measured because cattle grazing activities have obscured any sediment deposition making it impossible to measure sediment in the flood pool. Geology: Entire drainage area Late Wisconsin glacial deposits. The upper watershed has poorly developed drainage with potholes, sloughs and shallow lakes. The upper area is not considered as sediment contributing. Land Use (sediment contributing area) Rangeland: 83.4%; cultivated: 10%; hayland: 6.6%															
48. AGENCY MAKING SURVEY				Soil Conservation Service				49. AGENCY SUPPLYING DATA				Soil Conservation Service			
												50. DATE August 16, 1974			

RESERVOIR SEDIMENT
DATA SUMMARY

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SOIL CONSERVATION SERVICE

Wild Rice WR-5

SCS-34 Rev. 6-66

NAME OF RESERVOIR

36-25

DATA SHEET NO.

DAM	1. OWNER		2. STREAM unnamed creek		3. STATE South Dakota			
	4. SEC. 7 TWP.127N. RANGE 56W.		5. NEAREST P.O. Britton		6. COUNTY Marshall			
	7. LAT 45° 48' 40" LONG. 97° 36' 17"		8. TOP OF DAM ELEVATION 1,455.5		9. SPILLWAY CREST ELEV. 1,450.0			
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	1,450.0	29.70	232.6	280.0	9/61		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION	1,435.5	9.46	47.4	47.4	9/61		
WATERSHED	17. LENGTH OF RESERVOIR		0.46 MILES		AV. WIDTH OF RESERVOIR 0.10 MILES			
	18. TOTAL DRAINAGE AREA		5.16 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 18.33 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA		2.35 ¹ / ₁ SQ. MI.		23. MEAN ANNUAL RUNOFF 0.31 INCHES			
	20. LENGTH 6.7 MILES		AV. WIDTH .77 MILES		24. MEAN ANNUAL RUNOFF 39 AC.-FT.			
	21. MAX. ELEV. 1,950		MIN. ELEV. 1,424		25. ANNUAL TEMP: MEAN 43.50°F RANGE 11° to -45°F.			
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.
	9/61	-	-	-	-	29.70	280.00	7.12
	9/73	12.0	12.0	Range	9	29.70	274.43	7.04
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW, ACRE-FEET			36. WATER INFL. TO DATE, AC.-FT.		
	9/73	20.12	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			
	9/73	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	
	9/73	5.57	0.46	0.20	5.57	0.46	0.20	
	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	
	9/73	61.38	a. PERIOD	b. TOTAL TO DATE	a. AV. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE
9/73	61.38	267.37	267.37	0.16	1.99			

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															
<p>1/ Excludes pothole areas and area of reservoir. Land use (sediment contributing area) - 83.4% rangeland, 10% cultivated, 6.6% hayland. Geology - Wisconsin drift mantles entire watershed. Upper parts of watershed have poorly developed drainage with potholes, sloughs and shallow lakes.</p>															
48. AGENCY MAKING SURVEY				Soil Conservation Service				49. AGENCY SUPPLYING DATA				Soil Conservation Service			
												50. DATE 8/16/74			