

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

W-14 (Anderson)

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Unnamed Trib of

38-3 a

DATA SHEET NO.

DAM	1. OWNER John Anderson		2. STREAM Fourmile Creek		3. STATE South Dakota		
	4. SEC. 4 TWP. 7 RANGE R 8E		5. NEAREST P.O. Vale		6. COUNTY Butte		
	7. LAT. 44° 35' " LONG. 103° 05' "		8. TOP OF DAM ELEVATION 2844		9. SPILLWAY CREST ELEV. 2840		
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					Nov. 1956	
	b. MULTIPLE USE						
	c. POWER					16. DATE NORMAL OPER. BEGAN	
	d. WATER SUPPLY						
	e. IRRIGATION						
	f. CONSERVATION						
g. INACTIVE			1.32	5.60	5.60		
WATERSHED	17. LENGTH OF RESERVOIR .095 MILES		AV. WIDTH OF RESERVOIR 120 Feet		18. TOTAL DRAINAGE AREA .054 SQ. MI.		
	19. NET SEDIMENT CONTRIBUTING AREA .054 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 14.231/ INCHES		23. MEAN ANNUAL RUNOFF 1.372/ INCHES		
	20. LENGTH .55 MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF 3.94 AC.-FT.		
	21. MAX. ELEV. 2910		MIN. ELEV. 2830		25. ANNUAL TEMP: MEAN 45°F RANGE -24° to 101°F		
	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
Nov. 1956			Range D	18 ranges	2840'	5.60	
Oct. 1958	1.9	1.9	Range D	18 ranges	1.32	5.14	
Dec. 1962	4.2	6.1	Range D	18 ranges	1.30	4.51	
Apr. 1967	4.3	10.4	Range D	18 ranges	1.31	4.36	
33. C/I. RATIO, AC.-FT. PER AC.-FT.							
						1.42	
						1.30	
						1.14	
						1.11	
SURVEY DATA	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
	Oct. 1958	*15.00	2.63	4.38	5.25	2.63	*5.25
	Dec. 1962	13.03	3.85	6.80	16.1	3.50	21.35
Apr. 1967	15.55	3.88	4.26	16.7	3.66	38.05	
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	
Oct. 1958	.46	.242	4.48	.46	.242	4.48	
Dec. 1962	.63	.150	2.78	1.09	.179	3.31	
Apr. 1967	.15	.035	.65	1.24	.119	2.20	
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
	Oct. 1958	70	6708	6708	4.3	8.2	98,300
Dec. 1962	70	4158	4955	3.2	19.5	18,500	57,300
Apr. 1967	70	967	3232	2.1	22.1	18,000	36,600

*Assumed

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

1/ Average from 1958-1970.

2/ Average from 1958-1970.

48. AGENCY MAKING SURVEY Watershed Engineering, ARS, SWC, USDA

49. AGENCY SUPPLYING DATA Watershed Engineering, ARS, SWC, USDA 50. DATE _____