

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Raymond Solko Watershed Dam

SCS-34 Rev. 6-66

NAME OF RESERVOIR

33 - 21

DATA SHEET NO.

DAM	1. OWNER <u>Raymond Solko</u>				2. STREAM <u>North Beaver</u>				3. STATE <u>Kansas</u>																			
	4. SEC. <u>24</u> TWP. <u>2-S</u> RANGE <u>34-W</u>				5. NEAREST P. O. <u>Atwood, KS</u>				6. COUNTY <u>Rawlins</u>																			
	7. LAT <u>39° 51' 30"</u> LONG <u>101° 04' 00"</u>				8. TOP OF DAM ELEVATION <u>101.0</u>				9. SPILLWAY CREST ELEV. <u>97.0</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										12/62																	
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN																	
	c. POWER										12/62																	
	d. WATER SUPPLY																											
	e. IRRIGATION						6.33		6.33																			
	f. CONSERVATION																											
g. INACTIVE																												
17. LENGTH OF RESERVOIR						MILES		AV. WIDTH OF RESERVOIR				MILES																
WATERSHED	18. TOTAL DRAINAGE AREA				1.24				22. MEAN ANNUAL PRECIPITATION				18				INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA				1.24				23. MEAN ANNUAL RUNOFF				0.25				INCHES											
	20. LENGTH				MILES				AV. WIDTH				MILES				24. MEAN ANNUAL RUNOFF				16.52				AC.-F.T.			
	21. MAX. ELEV.				MIN. ELEV.				25. ANNUAL TEMP.: MEAN				RANGE															
	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.													
12/62		0		0		-		-		0.74		6.33		0.38														
7/20/72		9.6		9.6		Range (D)		4		0.74		2.93		0.18														
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																
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																
7/20/72		3.4		0.35		0.29		3.4		0.35		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. ANN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE																
7/20/72		70*		435.5		435.5		5.59		53.7																		

SURVEY DATA

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

56% Cropland, 100% lct., 2% slope  
 44% Rangeland, fair, 8% slope  
 T.E. = 98%

48. AGENCY MAKING SURVEY      Project CARLA  
 49. AGENCY SUPPLYING DATA    Soil Conservation Service    50. DATE    7-20-72