

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Frank Ruda Stockwater Dam

SCS-34 Rev. 6-66

NAME OF RESERVOIR

33 - 18

DATA SHEET NO.

DAM	1. OWNER <b>Frank Ruda</b>			2. STREAM <b>Sappa Creek</b>			3. STATE <b>Kansas</b>														
	4. SEC. <b>8</b> TWP. <b>5-S</b> RANGE <b>33-W</b>			5. NEAREST P.O. <b>Atwood, KS</b>			6. COUNTY <b>Rawlins</b>														
	7. LAT. <b>39° 37' 45"</b> LONG. <b>101° 02' 15"</b>			8. TOP OF DAM ELEVATION <b>102.0</b>			9. SPILLWAY CREST ELEV. <b>98.0</b>														
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										1/62										
	b. MULTIPLE USE																				
	c. POWER																				
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN										
	e. IRRIGATION																				
	f. CONSERVATION						12.7		12.7		1/62										
g. INACTIVE																					
17. LENGTH OF RESERVOIR						MILES			AV. WIDTH OF RESERVOIR			MILES									
WATERSHED	18. TOTAL DRAINAGE AREA				1.28		SQ. MI.		22. MEAN ANNUAL PRECIPITATION				19		INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA				1.28		SQ. MI.		23. MEAN ANNUAL RUNOFF				0.25		INCHES						
	20. LENGTH			MILES			AV. WIDTH			MILES			24. MEAN ANNUAL RUNOFF			17.07			AC.-FT.		
	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.						
1/62		0		0		-		-		2.0		12.7		0.74							
7/19/72		10.6		10.6		Range (D)		4		1.96		10.6		0.62							
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									
7/19/72		2.1		0.20		0.15		2.1		0.20		0.15									
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PERSQ. 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									
7/19/72		70*		236.0		236.0		1.56		16.5											

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															
75% Cropland, 59% 1st.; 2% slope															
25% Rangeland, fair, 8% slope															
T.E. - 97%															
48. AGENCY MAKING SURVEY				Project CARLA				50. DATE				7-31-72			
49. AGENCY SUPPLYING DATA				Soil Conservation Service											