

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Rogers

NAME OF RESERVOIR

31- 52

DATA SHEET NO.

DAM	1. OWNER Orville Rogers			2. STREAM Big Sugar			3. STATE Kansas					
	4. SEC. 17 TWP. 21S RANGE 21E			5. NEAREST P.O. Garnett			6. COUNTY Anderson					
	7. LAT. 95° 7' 30" LONG. 38° 11' 06"			8. TOP OF DAM ELEVATION 100.00*			9. SPILLWAY CREST ELEV. 95.00*					
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										1936	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY		95.00*		7.26		22.83		22.83		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION											
	g. INACTIVE										1936	
17. LENGTH OF RESERVOIR 0.30 MILES				AV. WIDTH OF RESERVOIR 0.03 MILES								
WATERSHED	18. TOTAL DRAINAGE AREA 1.17 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 38.00 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 1.16 SQ. MI.				23. MEAN ANNUAL RUNOFF 7.50 INCHES							
	20. LENGTH 1.90 MILES		AV. WIDTH 0.60 MILES		24. MEAN ANNUAL RUNOFF 468 AC.-FT.							
	21. MAX. ELEV. 1,190.0		MIN. ELEV. 1,030.0		25. ANNUAL TEMP: MEAN 57 RANGE -19 to 108							
	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.
June 27 1967		31	31	Range		10	7.25		Original 22.80 Present 14.10		.049 .03	
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		
SURVEY DATA	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	
	June 27 1967		8.70	0.28	0.24		8.70		0.28		0.24	
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		
June 27 1967		67		350		350	1.20	38.				

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

\* Assumed elevations

Cropland = 40% (25% Lct), 1-2% slopes  
 Pasture (good) 60% - 2% slopes  
 T.E. = 72%, yield = 0.36 ac. ft./sq. mi./yr.

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA U.S.D.A., Soil Conservation Service 50. DATE June 27, 1967