

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Cranor

NAME OF RESERVOIR

45- 44

DATA SHEET NO.

SCS-34 Rev. 6-66

Trib. to

DAM	1. OWNER R. E. Cranor			2. STREAM Verdigris River			3. STATE Kansas									
	4. SEC. SW10 TWP. 35S RANGE 18E			5. NEAREST P. O. Dana			6. COUNTY Iabelle									
	7. LAT. 37° 01' N " LONG 95° 27' W "			8. TOP OF DAM ELEVATION 106.0			9. SPILLWAY CREST ELEV. 103.0									
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										Nov. 1953					
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN					
	c. POWER										Nov. 1953					
	d. WATER SUPPLY		103.0		1.50		5.01		5.01							
	e. IRRIGATION															
	f. CONSERVATION															
g. INACTIVE																
WATERSHED	17. LENGTH OF RESERVOIR 0.07 MILES				AV. WIDTH OF RESERVOIR 0.02 MILES											
	18. TOTAL DRAINAGE AREA 0.22 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 39.0 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 0.22 SQ. MI.				23. MEAN ANNUAL RUNOFF 9.77 INCHES											
	20. LENGTH 0.70 MILES		AV. WIDTH 0.31 MILES		24. MEAN ANNUAL RUNOFF 114 AC.-FT.											
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP: MEAN 58 RANGE -30 +110											
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.	
	6-19-68		14.6		14.6		Range		4		1.50		Original 5.01		.044	
													Present 3.92		.034	
	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			
	6-19-68		1.09		.07		0.32		1.09		.07		.32			
	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				
6-19-68		60# 1/		418		418		1.49		21.8						

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

Trap Efficiency 78%

Pasture, fair = 39% W/ 4% Slopes

Crop = 61% W/ 2% Slopes; 23% under contour terraces

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA USDA - Soil Conservation Service

50. DATE 9-6-68