

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Hubert

NAME OF RESERVOIR

45- 51

DATA SHEET NO.

Verdigris Basin

DAM	1. OWNER Gail Hubert			2. STREAM Trib to Duck Creek			3. STATE Kansas									
	4. SEC. 28 TWP. 30 RANGE 13			5. NEAREST P.O. Longton			6. COUNTY Elk									
	7. LAT 37° 25' 00" LONG. 94° 59' 14"			8. TOP OF DAM ELEVATION 100.00*			9. SPILLWAY CREST ELEV. 97.00*									
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										October 1948					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY		97.00*		2.00		16.38		16.38		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										October 1948					
	f. CONSERVATION															
g. INACTIVE																
17. LENGTH OF RESERVOIR 0.15 MILES				AV. WIDTH OF RESERVOIR 0.03 MILES												
18. TOTAL DRAINAGE AREA 0.41 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 36.00 INCHES												
19. NET SEDIMENT CONTRIBUTING AREA 0.40 SQ. MI.				23. MEAN ANNUAL RUNOFF 7.00 INCHES												
20. LENGTH 0.89 MILES		AV. WIDTH 0.47 MILES		24. MEAN ANNUAL RUNOFF 153 AC.-FT.												
21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP.: MEAN 57 RANGE -23 to 111												
WATERSHED	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.	
	August 2 1967		19		19		Range		5		2.00		Original 16.38 Present 15.00		0.110 0.098	
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			
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				
August 2 1967		1.38		0.07		0.18		1.38		0.07		0.18				
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				
August 2 1967		60*		235		235		0.43		8.42						

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

Cropland = 43% w/1 - 2% slopes  
 Pasture (good) = 57% w/2 - 4% slopes  
 T.E. = 87%  
 Watershed yield = 0.21 ac. ft./sq. mi./yr.

48. AGENCY MAKING SURVEY  
 49. AGENCY SUPPLYING DATA U.S.D.A., Soil Conservation Service  
 50. DATE August 9, 1967