

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Sierman
NAME OF RESERVOIR

45- 50
DATA SHEET NO.

Verdigris Basin

DAM	1. OWNER <u>Delmont Sierman</u>		2. STREAM <u>Trib to Duck Creek</u>		3. STATE <u>Kansas</u>		
	4. SEC. <u>SW20</u> TWP. <u>30</u> RANGE <u>14E</u>		5. NEAREST P.O. <u>La Fontaine</u>		6. COUNTY <u>Wilson</u>		
	7. LAT. <u>37° 27' 50"</u> LONG. <u>95° 54' 00"</u>		8. TOP OF DAM ELEVATION <u>100.00*</u>		9. SPILLWAY CREST ELEV. <u>97.00*</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						
	b. MULTIPLE USE						
	c. POWER						
	d. WATER SUPPLY		<u>100.00*</u>		<u>2.70</u>		
	e. IRRIGATION						
	f. CONSERVATION						
g. INACTIVE							
16. DATE NORMAL OPER. BEGAN				<u>June 1937</u>			
17. LENGTH OF RESERVOIR		<u>0.12</u> MILES		AV. WIDTH OF RESERVOIR			
18. TOTAL DRAINAGE AREA		<u>0.23</u> SQ. MI.		<u>0.30</u> MILES			
19. NET SEDIMENT CONTRIBUTING AREA		<u>0.23</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION			
20. LENGTH		<u>0.9</u> MILES		<u>36.00</u> INCHES			
21. MAX. ELEV.		MIN. ELEV.		23. MEAN ANNUAL RUNOFF			
				<u>7.00</u> INCHES			
24. MEAN ANNUAL RUNOFF		<u>85</u> AC.-FT.		25. ANNUAL TEMP: MEAN			
				<u>57</u> RANGE <u>-26 to 121</u>			
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.				
	<u>July 26 1967</u>		<u>30</u>		<u>30</u>		
	<u>Range</u>		<u>5</u>		<u>2.70</u>		
	Original <u>5.30</u>		Present <u>4.50</u>		<u>0.062</u>		
					<u>0.052</u>		
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET		
					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		
<u>July 26 1967</u>		<u>0.80</u>			<u>0.80</u>		
		<u>0.03</u>			<u>0.03</u>		
		<u>0.13</u>			<u>0.13</u>		
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PER SQ. MI.-YR.		41. STORAGE LOSS, PCT.	
		a. PERIOD b. TOT. TO DATE		a. AV. ANN. b. TOT. TO DATE		a. PERIOD b. TOT. TO DATE	
<u>July 26 1967</u>		<u>60*</u>		<u>170</u>		<u>0.60</u>	
				<u>170</u>		<u>15.00</u>	

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
 Land Use: 60% Pg. - 4% slopes
 40% Lct. - 3% slopes

T.E. = 70%
 Yield = 0.17 ac. ft./sq. mi./yr.

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA U.S.D.A., Soil Conservation Service

50. DATE July 26, 1967