

RESERVOIR SEDIMENT
DATA SUMMARY
SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Roupp
NAME OF RESERVOIR

46- 33

DATA SHEET NO.

Trib. to

DAM	1. OWNER <u>H. Roupp</u>			2. STREAM <u>Sand Creek</u>		3. STATE <u>Kansas</u>						
	4. SEC. <u>14</u> TWP. <u>22S</u> RANGE <u>1W</u>			5. NEAREST P. O. <u>Hesston</u>		6. COUNTY <u>Harvey</u>						
	7. LAT. <u>38° 9' 30" N</u> LONG. <u>97° 25' W</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										June 8 1950	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY		<u>97.00</u>		<u>1.20</u>		<u>5.47</u>		<u>5.47</u>		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION										June 8 1950	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR <u>0.13</u> MILES				AV. WIDTH OF RESERVOIR <u>0.20</u> MILES							
	18. TOTAL DRAINAGE AREA <u>0.49</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>30.50</u> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.49</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>3.40</u> INCHES							
	20. LENGTH <u>1.21</u> MILES		AV. WIDTH <u>0.42</u> MILES		24. MEAN ANNUAL RUNOFF <u>89</u> AC.-FT.							
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP: MEAN <u>56</u> RANGE <u>-28 to +117</u>							
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.		
	Sept. 3 1968		18.12	18.12	Range		7	1.20	Original 5.47 3.33	0.066 0.037		
	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				
	Sept. 3 1968		2.14	0.12	0.24	2.14	0.12	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				
	Sept. 3 1968		<u>60</u>	314	314	2.15	39.0					

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
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 70%

1/ Assumed Values

Pasture - fair 5% - 4% slopes
 Crop 95% - 1-2% slopes

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA USDA - SCS

50. DATE Sept. 17, 1968