

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

Schubach

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

46-30

DATA SHEET NO.

Trib. to

DAM	1. OWNER <b>Fred Schubach</b>			2. STREAM <b>Medicine Lodge River</b>			3. STATE <b>Kansas</b>					
	4. SEC. <b>12</b> TWP. <b>34S</b> RANGE <b>12W</b>			5. NEAREST P.O. <b>Kiowa</b>			6. COUNTY <b>Barber</b>					
	7. LAT. <b>37° 6' N</b> " LONG <b>98° 34' W</b> "			8. TOP OF DAM ELEVATION <b>100.00</b> ✓			9. SPILLWAY CREST ELEV. <b>96.00</b> ✓					
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 1956	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY		<b>96.00</b>		<b>3.40</b>		<b>26.73</b>		<b>26.73</b>		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION										June 1956	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR <b>0.22</b> MILES				AV. WIDTH OF RESERVOIR <b>0.04</b> MILES							
	18. TOTAL DRAINAGE AREA <b>0.34</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>25.07</b> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <b>0.34</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>1.80</b> INCHES							
	20. LENGTH <b>1.04</b> MILES		AV. WIDTH <b>0.36</b> MILES		24. MEAN ANNUAL RUNOFF <b>33</b> AC.-FT.							
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP: MEAN <b>57</b> RANGE <b>-27 to +118</b>							
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.		
	<b>August 15 1968</b>		<b>12.17</b>	<b>12.17</b>	<b>Range</b>	<b>9</b>	<b>3.40</b>	<b>Original 26.73</b>		<b>0.81</b>		
								<b>Present 21.91</b>		<b>0.66</b>		
	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	
	<b>August 15 1968</b>		<b>4.82</b>	<b>0.40</b>	<b>1.18</b>		<b>4.82</b>		<b>0.40</b>		<b>1.18</b>	
	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		
<b>August 15 1968</b>		<b>60</b> ✓		<b>1542</b>		<b>1.50</b>	<b>18.00</b>					

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 98%

1/ Assumed Values

Pasture - 40% - rough broken slopes of 15% ±

Cropland - 60% - 2-5% slopes

48. AGENCY MAKING SURVEY	49. AGENCY SUPPLYING DATA	USDA - SCS	50. DATE <u>Sept. 18, 1968</u>
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