

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

Mease

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

46- 34

DATA SHEET NO.

Trib. to

DAM	1. OWNER <b>C. G. Bergner</b>			2. STREAM <b>Medicine Lodge River</b>		STATE <b>Kansas</b>										
	4. SEC. <b>10</b> TWP. <b>31S</b> RANGE <b>11W</b>			5. NEAREST P. O. <b>Medicine Lodge</b>		6. COUNTY <b>Barber</b>										
	7. LAT. <b>37° 22' N</b> " LONG. <b>98° 30' W</b> "			8. TOP OF DAM ELEVATION <b>98.00</b>		9. SPILLWAY CREST ELEV. <b>94.50</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		<b>94.50</b>		<b>23.80</b>		<b>77.56</b>		<b>108.30</b>		<b>February 1961</b>					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY		<b>90.00</b>		<b>10.24</b>		<b>30.73</b>		<b>30.73</b>		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										<b>February 1961</b>					
	f. CONSERVATION															
g. INACTIVE																
WATERSHED	17. LENGTH OF RESERVOIR <b>0.12</b> MILES				AV. WIDTH OF RESERVOIR <b>0.10</b> MILES											
	18. TOTAL DRAINAGE AREA <b>1.73</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>25.07</b> INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA <b>1.71</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>1.80</b> INCHES											
	20. LENGTH <b>1.50</b> MILES		AV. WIDTH <b>1.14</b> MILES		24. MEAN ANNUAL RUNOFF <b>166</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 21 1968</b>		<b>7.50</b>		<b>7.50</b>		<b>Range</b>		<b>6</b>		<b>23.80</b>		<b>Original 108.30</b>		<b>0.65</b>	
													<b>Present 105.19</b>		<b>0.63</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 21 1968</b>		<b>3.11</b>		<b>0.41</b>		<b>0.24</b>		<b>3.11</b>		<b>0.41</b>		<b>0.24</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 21 1968</b>		<b>60#</b>		<b>314</b>		<b>314</b>		<b>0.38</b>		<b>2.87</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 96.0%

1/ Assumed Values

Cropland - 100% W/ 81% under contours & terraces with 2% of the land terraced.  
 Unterraced land has about 0-1% slopes.

48. AGENCY MAKING SURVEY  
 49. AGENCY SUPPLYING DATA      USDA-SCS

50. DATE Sept. 18, 1968