

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

Fletcher  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

45-46

DATA SHEET NO.

DAM	1. OWNER <b>Fletcher</b>			2. STREAM <b>Big Creek</b>			3. STATE <b>Kansas</b>									
	4. SEC. <b>SW15 TWP. 22</b> RANGE <b>14</b>			5. NEAREST P. O. <b>Gridley</b>			6. COUNTY <b>Coffey</b>									
	7. LAT. <b>38° 07' 43"</b> LONG. <b>95° 51' 57"</b>			8. TOP OF DAM ELEVATION <b>100.00*</b>			9. SPILLWAY CREST ELEV. <b>97.00*</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										1934					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY		<b>97.00*</b>		<b>6.91</b>		<b>24.41</b>		<b>24.41</b>		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
WATERSHED	g. INACTIVE										1934					
	17. LENGTH OF RESERVOIR				<b>0.15</b> MILES		AV. WIDTH OF RESERVOIR				<b>0.08</b> MILES					
	18. TOTAL DRAINAGE AREA				<b>0.20</b> SQ. MI.		22. MEAN ANNUAL PRECIPITATION				<b>37</b> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA				<b>0.19</b> SQ. MI.		23. MEAN ANNUAL RUNOFF				<b>7</b> INCHES					
	20. LENGTH		<b>0.36</b> MILES		AV. WIDTH		<b>0.56</b> MILES		24. MEAN ANNUAL RUNOFF				<b>74</b> AC.-FT.			
21. MAX. ELEV.			<b>1,200.00</b>			MIN. ELEV.			<b>1,180.00</b>			25. ANNUAL TEMP: MEAN <b>56</b> RANGE <b>-25 to 117</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 18 1967</b>		<b>33</b>		<b>33</b>		<b>Point</b>		<b>15</b>		<b>6.91</b>		Original <b>24.41</b> Present <b>20.1</b>		<b>0.33</b>  <b>0.27</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 18 1967</b>		<b>4.32</b>		<b>0.13</b>		<b>0.68</b>		<b>4.32</b>		<b>0.13</b>		<b>0.68</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 18 1967</b>		<b>60*</b>		<b>888</b>		<b>888</b>		<b>0.53</b>		<b>17.70</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

\* Assumed

Cropland = 38% with 2% slopes

Pasture (fair) = 62% with 3 - 4% slopes

T.E. = 91%; watershed yield = 0.75 ac. ft./sq. mi./yr.

48. AGENCY MAKING SURVEY

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

50. DATE August 18, 1967