

RESERVOIR SEDIMENT  
DATA SUMMARY

N  
U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Hatch

NAME OF RESERVOIR

45-42

DATA SHEET NO.

SCS-34 Rev. 6-66

DAM	1. OWNER <b>Homer Hatch</b>			2. STREAM <b>Trib to Neosho River</b>			3. STATE <b>Kansas</b>							
	4. SEC. <b>35</b> TWP. <b>21</b> RANGE <b>13</b>			5. NEAREST P.O. <b>Burlington</b>			6. COUNTY <b>Coffey</b>							
	7. LAT. <b>38° 10' 42"</b> LONG. <b>95° 57' 15"</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										October 1939			
	b. MULTIPLE USE													
	c. POWER										16. DATE NORMAL OPER. BEGAN			
	d. WATER SUPPLY		<b>97.00*</b>		<b>2.13</b>		<b>4.74</b>		<b>4.74</b>					
	e. IRRIGATION										October 1939			
	f. CONSERVATION													
	g. INACTIVE													
17. LENGTH OF RESERVOIR <b>0.14</b> MILES					AV. WIDTH OF RESERVOIR <b>0.03</b> MILES									
18. TOTAL DRAINAGE AREA <b>0.19</b> SQ. MI.					22. MEAN ANNUAL PRECIPITATION <b>36.00</b> INCHES									
19. NET SEDIMENT CONTRIBUTING AREA <b>0.18</b> SQ. MI.					23. MEAN ANNUAL RUNOFF <b>7.00</b> INCHES									
20. LENGTH <b>0.51</b> MILES					AV. WIDTH <b>0.38</b> MILES									
21. MAX. ELEV. <b>1,210.00</b>					MIN. ELEV. <b>1,170.00</b>									
					24. MEAN ANNUAL RUNOFF <b>71</b> AC.-F.T.									
					25. ANNUAL TEMP: MEAN <b>56</b> RANGE <b>-25 to 117</b>									
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.	
	August 4 1967		28	28	Range		6		2.13		Original 4.74 Present 3.54		0.07  0.05	
	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	
	August 4 1967		1.20		0.04		0.24		1.20		0.04		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	
August 4 1967		60*		314		314		.84		25.31				

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

Pasture (good - fair) = 100% with 1 - 2% slopes  
 T.E. = 73%  
 Watershed Yield = 0.53 ac. ft./sq. mi./yr.

\* Assumed

48. AGENCY MAKING SURVEY  
 49. AGENCY SUPPLYING DATA U.S.D.A., Soil Conservation Service 50. DATE August 10, 1967