

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Finney Pond
NAME OF RESERVOIR

32-32
DATA SHEET NO.

Simpson, Kansas

DAM	1. OWNER <u>Dwight Finney</u>		2. STREAM <u>Trib. to Third Cr.</u>		3. STATE <u>Kansas</u>			
	4. SEC. <u>SW 26</u> TWP. <u>8</u> RANGE <u>6</u>		5. NEAREST P. O. <u>Simpson, Ks. - 6SW</u>		6. COUNTY <u>Mitchell</u>			
	7. LAT. <u>39° 20'</u> " LONG. <u>97° 58'</u> "		8. TOP OF DAM ELEVATION <u>106.0*</u>		9. SPILLWAY CREST ELEV. <u>102.0*</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	<u>102.0*</u>	<u>17.2</u>	<u>122.5</u>	<u>122.5</u>	<u>Oct. 1960</u>		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY	<u>100.0*</u>				16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION					<u>Oct. 1960</u>		
	f. CONSERVATION							
g. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR <u>.111</u> MILES		AV. WIDTH OF RESERVOIR <u>.06</u> MILES					
	18. TOTAL DRAINAGE AREA <u>1.39</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <u>25.0</u> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <u>1.27</u> SQ. MI.		23. MEAN ANNUAL RUNOFF <u>1.65</u> INCHES					
	20. LENGTH <u>1.75</u> MILES		AV. WIDTH <u>.79</u> MILES		24. MEAN ANNUAL RUNOFF <u>122</u> AC.-FT.			
	21. MAX. ELEV. <u>1550'*</u>		MIN. ELEV. <u>1480'*</u>		25. ANNUAL TEMP: MEAN <u>54°</u> F RANGE			
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.
	<u>6-22-70</u>	<u>9.7</u>	<u>9.7</u>	<u>Range (D)</u>	<u>7</u>	<u>17.2</u>	<u>Original 122.5 Present 116.0</u>	<u>1.003 0.951</u>
	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	
	<u>6-22-70</u>	<u>6.48</u>	<u>.67</u>	<u>.53</u>	<u>6.48</u>	<u>.67</u>	<u>.53</u>	
	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
	<u>6-20-70</u>	<u>*80#</u>	<u>923</u>	<u>923</u>	<u>.54</u>	<u>5.29</u>		

*Estimate

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

Slope: Range (Good) 6%. Cropland 2-3%.
 Land Use: 24% Range & 76% Cropland (of which 14% is LCT).
 Trap Efficiency: 99%
 Yield: .531 Ac. Ft./Sq. Mi./Yr. (925.00 Tons/Ac. Ft./Yr.)

48. AGENCY MAKING SURVEY Kansas Watershed Planning Staff, Soil Conservation Service
 49. AGENCY SUPPLYING DATA Soil Conservation Service
 50. DATE 9-29-70