

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Kinsey Pond  
NAME OF RESERVOIR

32-41

DATA SHEET NO.

Trib. to

DAM	1. OWNER <u>Mark Kinsey</u>			2. STREAM <u>Buffalo Creek</u>			3. STATE <u>Kansas</u>						
	4. SEC. <u>NE 29TWP. 3</u> RANGE <u>7</u>			5. NEAREST P. O. <u>Mankato, Ks. - 6 SE</u>			6. COUNTY <u>Jewell</u>						
	7. LAT. <u>39° 46'</u> " LONG. <u>98° 08'</u> "			8. TOP OF DAM ELEVATION <u>103.0*</u>			9. SPILLWAY CREST ELEV. <u>100.0*</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										16. DATE NORMAL OPER. BEGAN		
	b. MULTIPLE USE												
	c. POWER												
	d. WATER SUPPLY		<u>100.0*</u>		<u>13.5</u>		<u>91.9</u>		<u>91.9</u>		16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN		
	f. CONSERVATION												
	g. INACTIVE										16. DATE NORMAL OPER. BEGAN		
17. LENGTH OF RESERVOIR					<u>.32</u> MILES		AV. WIDTH OF RESERVOIR					<u>.07</u> MILES	
WATERSHED	18. TOTAL DRAINAGE AREA				<u>.77</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION				<u>24.5</u> INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA				<u>.71</u> SQ. MI.		23. MEAN ANNUAL RUNOFF				<u>1.75</u> INCHES		
	20. LENGTH <u>1.54</u> MILES		AV. WIDTH <u>.50</u> MILES		24. MEAN ANNUAL RUNOFF				<u>72</u> AC.-FT.				
	21. MAX. ELEV. <u>1800'*</u>			MIN. ELEV. <u>1660'*</u>			25. ANNUAL TEMP: MEAN <u>51°</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>6-24-70</u>		<u>19.8</u>	<u>19.8</u>	<u>Range (D)</u>	<u>6</u>	<u>13.5</u>		<u>Original 91.9 Present 88.4</u>		<u>1.279 1.194</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>6-24-70</u>		<u>3.46</u>	<u>.17</u>	<u>.25</u>		<u>3.46</u>		<u>.17</u>		<u>.25</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>6-24-70</u>		<u>*65#</u>		<u>348</u>		<u>348</u>	<u>.19</u>	<u>3.76</u>					

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															
<p>Slope: Range (Good) 5-6% &amp; Cropland 3-4%.  Land Use: 32% Range &amp; 68% Cropland (of which 57% is LCT).  Trap Efficiency: 97%.  Yield: .254 Ac. Ft./Sq. Mi./Yr. (359.66 Tons/Sq. Mi./Yr.)</p>															
48. AGENCY MAKING SURVEY Kansas Watershed Planning Staff, Soil Conservation Service															
49. AGENCY SUPPLYING DATA Soil Conservation Service															
50. DATE 9-29-70															