

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Mollenkamp Pond  
NAME OF RESERVOIR

32-46

DATA SHEET NO.

DAM	1. OWNER <u>Alfred Mollenkamp</u>			2. STREAM <u>Trib. to Saline River</u>		3. STATE <u>Kansas</u>						
	4. SEC. <u>NW 25 TWP. 11</u> RANGE <u>25</u>			5. NEAREST P.O. <u>Collyer, Ks.</u>		6. COUNTY <u>Trego</u>						
	7. LAT. <u>39° 04'</u> " LONG. <u>100° 03'</u> "			8. TOP OF DAM ELEVATION <u>58.0*</u>		9. SPILLWAY CREST ELEV. <u>54.0*</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>54.0*</u>		<u>17.2</u>		<u>90.6</u>		<u>90.6</u>		Apr. 1961	
	b. MULTIPLE USE											
	c. POWER										16. DATE NORMAL OPER. BEGAN	
	d. WATER SUPPLY		<u>51.0*</u>									
	e. IRRIGATION										Apr. 1961	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR <u>.70</u> MILES				AV. WIDTH OF RESERVOIR <u>.04</u> MILES							
	18. TOTAL DRAINAGE AREA <u>6.15</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>21.4</u> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <u>6.12</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>.75</u> INCHES							
	20. LENGTH <u>2.25</u> MILES		AV. WIDTH <u>2.73</u> MILES		24. MEAN ANNUAL RUNOFF <u>245</u> AC.-FT.							
	21. MAX. ELEV. <u>2525.1*</u>		MIN. ELEV. <u>2175.1*</u>		25. ANNUAL TEMP: MEAN <u>54.0</u> F RANGE							
	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.			
8-6-70		9.3	9.3	Range (D)	8	17.2	Original 90.6 Present 79.4	.368  .324				
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				
SURVEY DATA	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		
	8-6-70		11.16	1.20	.20	11.16		1.20		.20		
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PERSQ. 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			
8-6-70		<u>*65#</u>		<u>277</u>		<u>277</u>	<u>1.32</u>	<u>12.32</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	-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

Slope: Range (Fair) 5-6%. Cropland 2-3%.  
 Land Use: 42% Range & 58% Cropland (of which 49% is LCT).  
 Trap Efficiency: 92%  
 Yield: .213 Ac. Ft./Sq. Mi./Yr. (301.61 Tons/Sq. Mi./Yr.)

48. AGENCY MAKING SURVEY Kansas Watershed Planning Staff, Soil Conservation Service  
 49. AGENCY SUPPLYING DATA Soil Conservation Service  
 50. DATE 9-30-70