

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Walz Pond
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

32-52

DATA SHEET NO.

Ellis, Kansas

DAM	1. OWNER Henry G. Walz			2. STREAM Trib. to Saline River			STATE Kansas						
	4. SEC. SE 10TWP. 11 RANGE 21			5. NEAREST P.O. Ogallah, Ks. 13NE			6. COUNTY Trego						
	7. LAT. 39° 07' " LONG. 99° 39' "			8. TOP OF DAM ELEVATION 98.0*			9. SPILLWAY CREST ELEV. 93.0*						
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										Aug. 1958		
	b. MULTIPLE USE												
	c. POWER										16. DATE NORMAL OPER. BEGAN		
	d. WATER SUPPLY		93.0*		11.32		69.32		69.32				
	e. IRRIGATION										Aug. 1958		
	f. CONSERVATION												
	g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR .33 MILES				AV. WIDTH OF RESERVOIR .05 MILES								
	18. TOTAL DRAINAGE AREA 3.93 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 22.2 INCHES								
	19. NET SEDIMENT CONTRIBUTING AREA 3.80 SQ. MI.				23. MEAN ANNUAL RUNOFF .85 INCHES								
	20. LENGTH 4.31 MILES		AV. WIDTH .91 MILES		24. MEAN ANNUAL RUNOFF 178 AC.-FT.								
	21. MAX. ELEV. 2340'*		MIN. ELEV. 2103'*		25. ANNUAL TEMP: MEAN 54° 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.			
	8-5-70		12.0	12.0	Range (D)	6	11.32	Original 69.32 Present 63.64		.389 .357			
	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					
	8-5-70		5.68	.47	.12	5.68	.47	.12					
	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					
8-5-70		*60#	162	162	.68	8.18							

*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) 4-5%, Cropland 1-2%.
 Land Use: 71% Range & 29% Cropland (of which 27% is LCT).
 Trap Efficiency: 91%
 Yield: .136 Ac. Ft./Sq. Mi./Yr. (177.75 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