

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Pool

NAME OF RESERVOIR

31-49

DATA SHEET NO.

Trib. to

DAM	1. OWNER Walt Pool			2. STREAM Elk Creek			3. STATE Kansas									
	4. SEC. 4 TWP. 6S RANGE 14E			5. NEAREST P. O. Circleville			6. COUNTY Jackson									
	7. LAT. 39° 32' 30" N LONG. 95° 49' 30" W			8. TOP OF DAM ELEVATION 106.50			9. SPILLWAY CREST ELEV. 103.50									
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		103.50		3.60		7.98		18.07		Oct. 29 1958					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY		101.50		2.57		10.09		10.09		16. DATE NOR-MAL OPER. BEGAN					
	e. IRRIGATION										Oct. 29, 1958					
	f. CONSERVATION															
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.10 MILES				AV. WIDTH OF RESERVOIR 0.03 MILES											
	18. TOTAL DRAINAGE AREA 0.16 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 32.98 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 0.16 SQ. MI.				23. MEAN ANNUAL RUNOFF 5.40 INCHES											
	20. LENGTH 0.50 MILES		AV. WIDTH 0.32 MILES		24. MEAN ANNUAL RUNOFF 46 AC.-FT.											
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP: MEAN 54 RANGE -10 to +110											
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.	
	July 24 1968		9.75		9.75		Range		5		3.60		Original 18.07		0.39	
													Present 16.18		0.35	
	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			
	July 24 1968		1.89		0.19		1.19		1.89		0.19		1.19			
	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		
July 24 1968		60 1/2		1555		1555		1.07		10.46						

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.

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46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

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47. REMARKS AND REFERENCES
 Trap efficiency 90%
 1/ Assumed Values

 Pasture - (poor) = 10% W/ 6% slopes
 Crop 90% W/ 13% under contour and terraces
 Cropland slopes vary from 4-6%

48. AGENCY MAKING SURVEY
 49. AGENCY SUPPLYING DATA USDA-SCS
 50. DATE Sept. 19, 1968