

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Reamer

NAME OF RESERVOIR

31-51

DATA SHEET NO.

Trib. to

DAM	1. OWNER Walt Reamer			2. STREAM Straight Creek			3. STATE Kansas					
	4. SEC. 21 TWP 6S RANGE 15E			5. NEAREST P.O. Holton			6. COUNTY Jackson					
	7. LAT 39° 31' W LONG. 95° 44' 30W			8. TOP OF DAM ELEVATION 110.80			9. SPILLWAY CREST ELEV. 107.80					
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		107.80		5.39		2.47		31.26		July 1956	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY		106.20		3.96		23.79		23.79		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION										July 1956	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 0.16 MILES				AV. WIDTH OF RESERVOIR 0.13 MILES							
	18. TOTAL DRAINAGE AREA 0.23 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 32.98 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 0.23 SQ. MI.				23. MEAN ANNUAL RUNOFF 5.40 INCHES							
	20. LENGTH 0.50 MILES		AV. WIDTH 0.46 MILES		24. MEAN ANNUAL RUNOFF 66 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 22 1968		12.00	12.00	Range	7	5.39	Original 31.26		0.47		
								Present 27.30		0.41		
	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 22 1968		3.96	0.33	1.43	3.96	0.33	1.43				
	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 22 1968		60# 1/	1869	1869	1.05	12.66						

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

Trap Efficiency 91%

1/ Assumed Values

Pasture - poor - 35% W/ 7% slopes
 Cropland - 65% W/ 4-5% slopes
 High delivery rate

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA USDA-SCS

50. DATE Sept. 19, 1968