

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-66

**Mound Valley
Experimental Station**

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

45-43

DATA SHEET NO.

Trib. to

DAM	1. OWNER Kansas State University		2. STREAM Pumpkin Creek		3. STATE Kansas		
	4. SEC. NE8 TWP. 33S RANGE 18E		5. NEAREST P.O. Mound Valley		6. COUNTY Iabelle		
	7. LAT. 37°11'N " LONG. 95°27'W "		8. TOP OF DAM ELEVATION 100.0		9. SPILLWAY CREST ELEV. 96.0		
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				June 1954		
	b. MULTIPLE USE						
	c. POWER						
	d. WATER SUPPLY		96.0		1.93		
	e. IRRIGATION				6.90		
	f. CONSERVATION				6.90		
g. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 0.07 MILES		AV. WIDTH OF RESERVOIR 0.03 MILES				
	18. TOTAL DRAINAGE AREA 0.42 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 39.00 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 0.42 SQ. MI.		23. MEAN ANNUAL RUNOFF 9.77 INCHES				
	20. LENGTH 1.33 MILES		AV. WIDTH 0.3 MILES		24. MEAN ANNUAL RUNOFF 219.00 AC.-FT.		
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP: MEAN 58 RANGE -30 +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.				
	June 18 1968		14.0 14.0		Range 8		
					2.50		
					Original 6.90 Present 4.77		
					.032 .022		
	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		
June 18 1968		2.13 0.15 0.36			2.13 0.15 0.36		
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PER SQ. MI.-YR.		41. STORAGE LOSS, PCT.	
June 18 1968		60#1/		470 470		2.20 30.86	
				a. PERIOD b. TOTAL TO DATE		a. AV. ANN. b. TOT. TO DATE	
						a. PERIOD b. TOT. TO DATE	

1/ Assumed Values

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.

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

47. REMARKS AND REFERENCES Trap Efficiency 62%

Pasture - Fair = 15% W/ 3% Slopes

Crop = 85% W/ 42% Under contour & terraces, 1-2% slopes

48. AGENCY MAKING SURVEY USDA - Soil Conservation Service

49. AGENCY SUPPLYING DATA

50. DATE Sept. 6, 1968