

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Barrett
NAME OF RESERVOIR

46-31
DATA SHEET NO.

DAM	1. OWNER Edgar Barrett			2. STREAM Wild Creek			3. STATE Kansas							
	4. SEC. 20 TWP 34S RANGE 6W			5. NEAREST P. O. Anthony			6. COUNTY Harper							
	7. LAT 37° 04' 30" N LONG 98° 00' W			8. TOP OF DAM ELEVATION 100.0¹/₂			9. SPILLWAY CREST ELEV. 96.0¹/₂							
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										Spring 1957			
	b. MULTIPLE USE													
	c. POWER													
	d. WATER SUPPLY		96.00		7.60		39.92		39.92		16. DATE NORMAL OPER. BEGAN			
	e. IRRIGATION										Spring 1957			
	f. CONSERVATION													
	g. INACTIVE													
WATERSHED	17. LENGTH OF RESERVOIR 0.35 MILES				AV. WIDTH OF RESERVOIR 0.04 MILES									
	18. TOTAL DRAINAGE AREA 0.67 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 26.95 INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA 0.67 SQ. MI.				23. MEAN ANNUAL RUNOFF 1.90 INCHES									
	20. LENGTH 1.16 MILES		AV. WIDTH 0.51 MILES		24. MEAN ANNUAL RUNOFF 68 AC.-FT.									
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP: MEAN 57 RANGE -15 to +115									
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 31 1968		11.25	11.25	Range		11		760		Original 39.92		0.59	
											Present 32.24		0.47	
	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 31 1968		7.68		0.68		1.01		7.68		0.68		1.01	
	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 31 1968		60#		1320		1320		1.71		19.23				

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 93%

Pasture fair, 21% W/ 7-12% slopes
 Crop 79% W/ average 3% slopes
 80% of Cropland, under contour & Terraces
 1/ Assumed Elevation

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA **USDA-SCS**

50. DATE Sept. 18, 1968