

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Hoop

NAME OF RESERVOIR
Cimarron Basin

Trib. to

46- 38

DATA SHEET NO.

DAM	1. OWNER <u>John Hoop</u>			2. STREAM <u>Crooked Creek</u>			3. STATE <u>Kansas</u>					
	4. SEC. <u>BW26 TWP. 30</u> RANGE <u>28</u>			5. NEAREST P.O. <u>Meade</u>			6. COUNTY <u>Meade</u>					
	7. LAT. <u>37° 24' 30"</u> LONG. <u>100° 21' 00"</u>			8. TOP OF DAM ELEVATION <u>105 1/</u>			9. SPILLWAY CREST ELEV. <u>100 1/</u>					
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										May 8 1961	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY		<u>100.0 1/</u>		<u>0.75</u>		<u>4.0</u>		<u>4.0</u>		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION										May 8 1961	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR <u>0.06 2/</u> MILES				AV. WIDTH OF RESERVOIR <u>0.017</u> MILES							
	18. TOTAL DRAINAGE AREA <u>1.07</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>19</u> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.90</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>0.37</u> INCHES							
	20. LENGTH <u>1.5</u> MILES		AV. WIDTH <u>0.70</u> MILES		24. MEAN ANNUAL RUNOFF <u>21</u> AC.-FT.							
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP. MEAN 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.			
	<u>June 29 1966</u>		<u>5.2</u>	<u>5.2</u>	<u>Range (R)</u>	<u>5 (M)</u>	<u>0.75</u>	<u>Original 4.0</u>	<u>0.19</u>			
								<u>Present 3.76</u>	<u>0.19</u>			
	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				
	<u>June 29 1966</u>		<u>0.24</u>	<u>0.05</u>	<u>0.06</u>	<u>0.24</u>	<u>0.05</u>	<u>0.06</u>				
	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				
<u>June 29 1966</u>		<u>80</u>	<u>104</u>	<u>104</u>	<u>1.0</u>	<u>6.0</u>						

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
 Watershed
 12% good pasture
 88% Cropland with 60% Cropland terraces
 Terraces and low rainfall account for low sediment rate

1/ Assumed
 2/ Side arms negligible

48. AGENCY MAKING SURVEY SCS
 49. AGENCY SUPPLYING DATA SCS

50. DATE August 16, 1966