

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Harris

NAME OF RESERVOIR  
Cimarron Basin  
Trib. of

46-39

DATA SHEET NO.

DAM	1. OWNER <b>George Harris</b>		2. STREAM <b>Crooked Creek</b>		3. STATE <b>Kansas</b>			
	4. SEC. <b>NE3</b> TWP. <b>31</b> RANGE <b>28</b>		5. NEAREST P.O. <b>Meade</b>		6. COUNTY <b>Meade</b>			
	7. LAT. <b>37° 22' 30"</b> LONG. <b>100° 21' 00"</b>		8. TOP OF DAM ELEVATION <b>99.6 1/2</b>		9. SPILLWAY CREST ELEV. <b>94.0 1/2</b>			
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES			
	a. FLOOD CONTROL							
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY		<b>81 1/2</b>		<b>26.8</b>			
	e. IRRIGATION							
	f. CONSERVATION							
	g. INACTIVE							
				13. ORIGINAL CAPACITY, ACRE-Feet				
				<b>161.4</b>				
				14. GROSS STORAGE, ACRE-Feet				
				<b>161.4</b>				
				15. DATE STORAGE BEGAN				
				<b>October 1962</b>				
				16. DATE NORMAL OPER. BEGAN				
				<b>October 1962</b>				
WATERSHED	17. LENGTH OF RESERVOIR <b>1.05 2/3</b> MILES		AV. WIDTH OF RESERVOIR <b>0.04</b> MILES					
	18. TOTAL DRAINAGE AREA <b>7.57</b> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <b>19</b> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <b>4.75</b> SQ. MI.		23. MEAN ANNUAL RUNOFF <b>0.37</b> INCHES					
	20. LENGTH <b>7.21</b> MILES		AV. WIDTH <b>1.05</b> MILES		24. MEAN ANNUAL RUNOFF <b>149</b> AC.-FT.			
	21. MAX. ELEV. <b>2800</b>		MIN. ELEV. <b>2625</b>		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.
	<b>June 1966</b>	<b>3.7</b>	<b>3.7</b>	<b>Range (R)</b>	<b>7 (M)</b>	<b>26.8</b>	<b>Original 161.4 Present 160.8</b>	<b>1.1 1.1</b>
	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	
	<b>June 1966</b>	<b>0.62</b>	<b>0.17</b>	<b>0.04</b>	<b>.62</b>	<b>0.17</b>	<b>0.04</b>	
	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
<b>June 1966</b>	<b>70 1/2</b>	<b>61.0</b>	<b>61.0</b>	<b>0.10</b>	<b>0.37</b>			

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 - 97%  
 Cropland - 70 percent  
 Pasture - 30%  
 Low Sediment rate - 30 percent of cropland has level terraces

1/ Assumed  
 2/ Side arms to #17 negligible

48. AGENCY MAKING SURVEY    SCS  
 49. AGENCY SUPPLYING DATA    SCS  
 50. DATE    August 26, 1966