

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Christian

NAME OF RESERVOIR

Cimarron Basin

47-12

DATA SHEET NO.

Trib. to

DAM	1. OWNER <u>Christian</u>			2. STREAM <u>Cimarron</u>			3. STATE <u>Kansas</u>							
	4. SEC. <u>SW13</u> TWP. <u>30</u> RANGE <u>37</u>			5. NEAREST P.O. <u>Ulysses</u>			6. COUNTY <u>Grant</u>							
	7. LAT. <u>37° 25' 00"</u> LONG. <u>101° 19' 00"</u>			8. TOP OF DAM ELEVATION <u>116<sup>1</sup>/<sub>2</sub></u>			9. SPILLWAY CREST ELEV. <u>113.5<sup>1</sup>/<sub>2</sub></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										June 1961			
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN			
	c. POWER										June 1961			
	d. WATER SUPPLY		<u>112<sup>1</sup>/<sub>2</sub></u>		<u>1.0</u>		<u>4.5</u>		<u>4.5</u>					
	e. IRRIGATION													
	f. CONSERVATION													
	g. INACTIVE													
WATERSHED	17. LENGTH OF RESERVOIR <u>0.08<sup>2</sup>/<sub>2</sub></u> MILES				18. AV. WIDTH OF RESERVOIR <u>0.02</u> MILES									
	18. TOTAL DRAINAGE AREA <u>1.06</u> SQ. MI.				19. MEAN ANNUAL PRECIPITATION <u>18</u> INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA <u>1.06</u> SQ. MI.				20. MEAN ANNUAL RUNOFF <u>0.20</u> INCHES									
	20. LENGTH <u>1.7</u> MILES		AV. WIDTH <u>0.6</u> MILES		21. MEAN ANNUAL RUNOFF <u>11</u> AC.-FT.									
	21. MAX. ELEV. <u>150<sup>1</sup>/<sub>2</sub></u>		MIN. ELEV. <u>60<sup>1</sup>/<sub>2</sub></u>		22. 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 1966</u>		<u>5</u>	<u>5</u>	<u>Range (R)</u>		<u>7 (M)</u>		<u>1.06</u>		<u>4.5</u> <u>3.75</u>		<u>0.40</u> <u>0.33</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 1966</u>		<u>0.75</u>	<u>0.15</u>	<u>0.14</u>		<u>0.75</u>		<u>0.15</u>		<u>0.14</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 1966</u>		<u>75<sup>1</sup>/<sub>2</sub></u>	<u>229</u>	<u>229</u>	<u>4</u>	<u>17</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	-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

Land Use - Pasture - 90 percent, fair condition, rolling with minor gullies

Cropland - 10 percent, gently rolling

1/ Assumed

2/ No side arms to main channel

48. AGENCY MAKING SURVEY            SCS

49. AGENCY SUPPLYING DATA        SCS

50. DATE            August 16, 1966