

# RESERVOIR SEDIMENT DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Hartshorn

NAME OF RESERVOIR

Cimarron Basin

Trib. of Little

47-11

DATA SHEET NO.

DAM	1. OWNER <u>Glen Hartshorn</u>				2. STREAM <u>Bear Creek</u>				3. STATE <u>Kansas</u>							
	4. SEC. <u>SE 36 TWP. 25</u> RANGE <u>11W</u>				5. NEAREST P.O. <u>Syracuse</u>				6. COUNTY <u>Hamilton</u>							
	7. LAT. <u>37°49'45"</u> LONG. <u>101°46'30"</u>				8. TOP OF DAM ELEVATION <u>101.5 1/2</u>				9. SPILLWAY CREST ELEV. <u>97.0 1/2</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										March 1950					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY		<u>97.0</u>		<u>4.02</u>		<u>14.6</u>		<u>14.6</u>		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										March 1950					
	f. CONSERVATION															
WATERSHED	17. LENGTH OF RESERVOIR		<u>0.25</u> MILES		AV. WIDTH OF RESERVOIR		<u>0.02</u> MILES									
	18. TOTAL DRAINAGE AREA		<u>1.90</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION		<u>16</u> INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA		<u>1.89</u> SQ. MI.		23. MEAN ANNUAL RUNOFF		<u>0.20</u> INCHES									
	20. LENGTH		<u>2.0</u> MILES		AV. WIDTH		<u>0.95</u> MILES		24. MEAN ANNUAL RUNOFF		<u>20</u> AC.-FT.					
	21. MAX. ELEV.		<u>175 1/2</u>		MIN. ELEV.		<u>86 1/2</u>		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.	
	June 1966		16.25		16.25		Contour Survey (D)		6 (CI)		4.02		14.6 8.75		0.72 0.43	
	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			
	June 1966		5.85		0.36		0.19		5.85		0.36		0.19			
	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			
	June 1966		<u>75 1/2</u>		310		310		2.46		40.0					

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

Land use - 13 percent pasture - fair. 4 percent slope.  
87 percent cropland - 2 percent slope.

Dam does not hold water  
12 percent conservation applied  
1/ Assumed  
2/ No side arms to #17

48. AGENCY MAKING SURVEY Soil Conservation Service  
49. AGENCY SUPPLYING DATA Soil Conservation Service

50. DATE July 8, 1966