

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Boles

NAME OF RESERVOIR
Cimarron Basin
Drain to

47- 8

DATA SHEET NO.

DAM	1. OWNER Ernest Paul Boles		2. STREAM Cimarron		3. STATE Kansas											
	4. SEC. NE 12 TWP. 32 RANGE 34		5. NEAREST P.O. Liberal		6. COUNTY Seward											
	7. LAT. 37° 17' 00" LONG. 100° 58' 00"		8. TOP OF DAM ELEVATION 148.01		9. SPILLWAY CREST ELEV. 145.01											
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		43.01		3.48											
	e. IRRIGATION				9.16											
	f. CONSERVATION				9.16											
	g. INACTIVE															
WATERSHED	14. GROSS STORAGE, ACRE-FEET		15. DATE STORAGE BEGAN		March 1962											
	16. DATE NORMAL OPER. BEGAN				March 1962											
	17. LENGTH OF RESERVOIR 0.152		MILES		AV. WIDTH OF RESERVOIR 0.03											
	MILES				INCHES											
	18. TOTAL DRAINAGE AREA 0.36		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 21											
	19. NET SEDIMENT CONTRIBUTING AREA 0.36		SQ. MI.		23. MEAN ANNUAL RUNOFF 0.25											
INCHES				24. MEAN ANNUAL RUNOFF 5												
AC.-FT.				25. ANNUAL TEMP.: MEAN RANGE												
20. LENGTH 1.10		MILES		AV. WIDTH 0.33		MILES										
21. MAX. ELEV. 1481		MIN. ELEV. 321														
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		4.25		4.25		Range (R)		5 (M)		3.4		Original 9.16 3/ Present 8.98		1.9 1.9	
	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		0.18		0.04		0.12		0.18		0.04		0.12			
	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		651		170		170		0.44		2.0					

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	-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 - 100 percent pasture fair
 98 percent trap efficiency

1/ Assumed
2/ No side arms to main channel

48. AGENCY MAKING SURVEY Soil Conservation Service
 49. AGENCY SUPPLYING DATA Soil Conservation Service
 50. DATE June 1966