

RESERVOIR SEDIMENT

DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Downing

NAME OF RESERVOIR

Cimarron Basin
Trib. of

47-13

DATA SHEET NO.

DAM	1. OWNER Coloman Downing			2. STREAM Cimarron River			3. STATE Kansas					
	4. SEC. NW14 TWP. 32 RANGE 35			5. NEAREST P.O. Moscow			6. COUNTY Stevens					
	7. LAT. 37 16' 00" LONG 101° 7' 00"			8. TOP OF DAM ELEVATION 47 1/2			9. SPILLWAY CREST ELEV. 44 1/2					
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										August 1961	
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN	
	c. POWER										August 1961	
	d. WATER SUPPLY		44 1/2		5.1		31.8		31.8			
	e. IRRIGATION											
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 0.32 1/2 MILES				AV. WIDTH OF RESERVOIR 0.05 MILES							
	18. TOTAL DRAINAGE AREA 0.47 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 21 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 0.46 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.20 INCHES							
	20. LENGTH 1.5 MILES		AV. WIDTH 0.3 1/2 MILES		24. MEAN ANNUAL RUNOFF 5 AC.-FT.							
	21. MAX. ELEV. 150 1/2		MIN. ELEV. 90 1/2		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		4.8	4.8	Range (R)	6 (M)	5.1	31.8 31.2		6.4 6.2		
	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		0.61	0.13	0.28		0.61		0.13		0.28	
	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		65		396	396	0.4	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

Pasture fair - 20 percent, 4 percent slope
 Cropland - 80 percent, slope 1-2 percent

1/ Assumed
2/ No side arms to main channel

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

50. DATE August 22, 1966