

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Fox

NAME OF RESERVOIR
Cimarron Basin
Trib. of

46-54

DATA SHEET NO.

DAM	1. OWNER Charles Fox		2. STREAM Bluff Creek		3. STATE Kansas			
	4. SEC. 34 TWP. 31 RANGE 22		5. NEAREST P.O. Ashland		6. COUNTY Clark			
	7. LAT. 37° 18' 00" LONG. 99° 42' 00"		8. TOP OF DAM ELEVATION 104 1/2		9. SPILLWAY CREST ELEV. 100 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					July 1, 1954		
	b. MULTIPLE USE							
	c. POWER					16. DATE NOR-MAL OPER. BEGAN		
	d. WATER SUPPLY	100 1/2	2.0	10.0	10.0			
	e. IRRIGATION					July 1, 1954		
	f. CONSERVATION							
	g. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 0.12 1/2 MILES			AV. WIDTH OF RESERVOIR 0.02 MILES				
	18. TOTAL DRAINAGE AREA 2.18 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 21 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 2.17 SQ. MI.			23. MEAN ANNUAL RUNOFF 0.75 INCHES				
	20. LENGTH 1 MILES		AV. WIDTH 2.2 MILES		24. MEAN ANNUAL RUNOFF 87 AC.-FT.			
	21. MAX. ELEV. --		MIN. ELEV. --		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.
	July 22, 1966	12	12	Range (R)	7 (M)	2.0	10.0 7.3	0.11 0.08
	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	
	July 22, 1966	2.7	0.23	0.11	2.7	0.23	0.11	
	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
July 22, 1966	65 1/2	156	156	2.3	27.0			

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 - Pasture good - 100 percent
 Trap Efficiency - 78 percent
 Yield - 0.17 ac.ft./sq.mi./yr.

1/ Assumed
 2/ No side arms to main channel

48. AGENCY MAKING SURVEY SCS
 49. AGENCY SUPPLYING DATA SCS
 50. DATE August 19, 1966