

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Amerine

NAME OF RESERVOIR
Cimarron Basin
Trib. of Little

47-14

DATA SHEET NO.

DAM	1. OWNER Tom Amerine			2. STREAM Bear Creek			3. STATE Kansas					
	4. SEC. SE 12TWP. 26 RANGE 42W			5. NEAREST P.O. Syracuse			6. COUNTY Hamilton					
	7. LAT. 37° 48' 00" LONG 101° 52' 00"			8. TOP OF DAM ELEVATION 100 1/2			9. SPILLWAY CREST ELEV. 95 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										March 1953	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY		95 1/2		15		128		128		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION										March 1953	
g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR 0.32 2/3 MILES				AV. WIDTH OF RESERVOIR 0.07 MILES							
	18. TOTAL DRAINAGE AREA 3.42 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 16 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 3.40 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.20 INCHES							
	20. LENGTH 3.1 MILES		AV. WIDTH 1.0 MILES		24. MEAN ANNUAL RUNOFF 36 AC.-FT.							
	21. MAX. ELEV. 3575		MIN. ELEV. 3430		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		13.3	13.3	Range (S)	9 (R)	14.85	128 119	3.5 3.3			
	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		8.98	0.675	0.20	8.98	0.675	0.20				
	26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.	40. SED. DEP., TONS PERSQ. 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		75 1/2	327	327	0.5	7.0						

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 - Pasture fair - 30 percent - 3% slope
 Cropland 70 percent, 1-2 percent slope

No terraces or waterway
 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