

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Richmond Lake
NAME OF RESERVOIR

31- 56

Trib to Pottawatomie Creek & Marias Des Cygnes River DATA SHEET NO.

DAM	1. OWNER City of Richmond		2. STREAM Dry Branch		3. STATE Kansas			
	4. SEC. 17 TWP. 19 RANGE 20		5. NEAREST P. O. Richmond		6. COUNTY Franklin			
	7. LAT 38° 23' 45" LONG 95° 13' 0"		8. TOP OF DAM ELEVATION 982.0		9. SPILLWAY CREST ELEV. 976.0			
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					1955		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY	976.0	16.73	232.86	232.86		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION					1955		
	f. CONSERVATION							
	g. INACTIVE							
17. LENGTH OF RESERVOIR		0.41	MILES	AV. WIDTH OF RESERVOIR		0.08 MILES		
WATERSHED	18. TOTAL DRAINAGE AREA		0.86	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		35.50 INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA		0.84	SQ. MI.	23. MEAN ANNUAL RUNOFF		7.50 INCHES	
	20. LENGTH		1.14	MILES	AV. WIDTH		0.75 MILES	
	21. MAX. ELEV.		1,030.0	MIN. ELEV.	940.0		25. ANNUAL TEMP: MEAN 57 RANGE -23 to 116	
	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	
July 12 1967	12	12	Range	16	16.73	Original 232.86 Present 222.06		
33. C/I. RATIO, AC.-FT. PER AC.-FT.		0.68 0.65						
SURVEY DATA	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 12 1967	10.8	0.90	1.07	10.8	0.90	1.07	
	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 12 1967	60*	1398	1398	0.38	4.63		

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

* Assumed

Cropland = 56% w/1 - 2% slopes

Pasture (fair) = 44% w/3% slopes

T.E. = 98%

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA U.S.D.A., Soil Conservation Service

50. DATE July 12, 1967