

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Wakefield
NAME OF RESERVOIR

N
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

31- 48

DATA SHEET NO.

DAM	1. OWNER David Wakefield			2. STREAM Trib to Marias Des Cyones			3. STATE Kansas					
	4. SEC. 8 TWP. 22 RANGE 24E			5. NEAREST P.O. Mound City			6. COUNTY Linn					
	7. LAT. 38° 8' 47" LONG. 94° 47' 42"			8. TOP OF DAM ELEVATION 100.00*			9. SPILLWAY CREST ELEV. 97.00*					
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										1936	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY		97.00*		1.68		19.67		19.67		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION											
WATERSHED	g. INACTIVE										1936	
	17. LENGTH OF RESERVOIR 0.11 MILES				AV. WIDTH OF RESERVOIR 0.04 MILES							
	18. TOTAL DRAINAGE AREA 0.83 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 39.00 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 0.82 SQ. MI.				23. MEAN ANNUAL RUNOFF 9.00 INCHES							
	20. LENGTH 1.34 MILES		AV. WIDTH 0.62 MILES		24. MEAN ANNUAL RUNOFF 398 AC.-FT.							
21. MAX. ELEV.			MIN. ELEV.			25. ANNUAL TEMP: MEAN 57 RANGE -23 to 107						
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 20 1967		31	31	Range	5	1.68	Original 19.67 Present 11.06		0.05 0.03		
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		
SURVEY DATA	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			
SURVEY DATA	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				
SURVEY DATA	July 20 1967		60*		444		444		1.42	43.80		

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 = 43% w/2% slopes
 Pasture (fair) = 30% w/5% slopes
 Timber = 27% w/7% + slopes
 T.E. = 67%
 Watershed yield = 0.75 ac. ft./sq. mi./yr.

48. AGENCY MAKING SURVEY
 49. AGENCY SUPPLYING DATA U.S.D.A., Soil Conservation Service
 50. DATE July 20, 1967