

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Martin Farm Lake  
NAME OF RESERVOIR

31-8

DATA SHEET NO.

DAM	1. OWNER W. H. Martin			2. RIVER Osage River Basin			3. STATE Kansas				
	4. SEC. 3 TWP. 16S RANGE 19E			5. NEAREST TOWN Ottawa			6. COUNTY Franklin				
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.				
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	15. DATE STORAGE BEGAN					
	a. FLOOD CONTROL					November 1930					
	b. POWER					16. DATE NORMAL OPER. BEGAN					
	c. WATER SUPPLY					November 1930					
	d. IRRIGATION										
	e. CONSERVATION			4.0	33	33					
	f. INACTIVE										
17. LENGTH OF RESERVOIR 0.4			MILES			AV. WIDTH OF RESERVOIR			MILES		
WATERSHED	18. TOTAL DRAINAGE AREA 0.18			SQ. MI.			22. MEAN ANNUAL PRECIPITATION 35.85 (45) INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 0.17			SQ. MI.			23. MEAN ANNUAL RUNOFF 6.5% INCHES				
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF 59% AG.-FT.		
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Humid						
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/W RATIO AC.-FT. PER SQ. MI.			
	Nov. 1930	-	-	-	-	4.0	33	183			
	October 1937	6.9	6.9	Recon.	15 meas.	4.0	30	167			
	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			
	Oct. 1937	32.75									
	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS 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			
	Oct. 1937	3.33	0.48	2.82		3.33	0.48	2.82			
	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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
Oct. 1937	60*	3685	3685		1.45	10.1					

\* Assumed

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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

Region 5, Soil Conservation Service  
U. S. Dept. of Agriculture  
Lincoln, Nebraska

48. AGENCY SUPPLYING DATA

49. DATE May 25, 1951