

**RESERVOIR SEDIMENTATION
DATA SUMMARY**

Lake Spavinaw

45 - 19

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER City of Tulsa			2. RIVER Spavinaw Creek			3. STATE Oklahoma					
	4. SEC. 15 TWP. 22N RANGE 21E			5. NEAREST TOWN Spavinaw			6. COUNTY Mayes & Delaware					
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 980					
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					April?1924						
	b. POWER											
	c. WATER SUPPLY	980	1,800	31,686	31,686	16. DATE NORMAL OPER. BEGAN						
	d. IRRIGATION					April?1924						
	e. CONSERVATION											
	f. INACTIVE											
17. LENGTH OF RESERVOIR		5.45		MILES		AV. WIDTH OF RESERVOIR		0.51		MILES		
WATERSHED	18. TOTAL DRAINAGE AREA			400			22. MEAN ANNUAL PRECIPITATION			46 (12)		
	19. NET SEDIMENT CONTRIBUTING AREA			397.2			23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF			
	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.				
	April 1924	-	-	-	-	1,800	31,686	79.2				
	July 1935	11	11	Range detailed	22	1,638	30,509	76.3				
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AG-FT.						
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE					
	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					
	July 1935	1,177	107	0.269	1,177	107	0.269					
	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				
July 1935				0.34	3.72							

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	-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
 Kesler, Thomas L., Advance report on the sedimentation survey of Lake Spavinaw, Spavinaw, Oklahoma. U. S. Soil Conserv. Serv. SCS-SS-1. 5pp., illus., processed. Washington, D. C. March 15, 1936.

Region 4, Soil Conservation Service
 U. S. Dept. of Agriculture

48. AGENCY SUPPLYING DATA Fort Worth, Texas

49. DATE August 4, 1950