

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Okmulgee
NAME OF RESERVOIR

45-6
DATA SHEET NO.

DAM	1. OWNER City of Okmulgee			2. RIVER Salt Creek			3. STATE Oklahoma				
	4. SEC. 5, 6 TWP. 13N RANGE 12E			5. NEAREST TOWN Okmulgee			6. COUNTY Okmulgee				
	7. STREAM BED ELEV. 632			8. TOP OF DAM ELEV. 700			9. SPILLWAY CREST ELEV. 690				
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					
	d. FLOOD CONTROL					1928					
	d. POWER										
	c. WATER SUPPLY	690	559	10,355	10,355	16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION										
	e. CONSERVATION										
	f. INACTIVE					1928					
17. LENGTH OF RESERVOIR			MILES	AV. WIDTH OF RESERVOIR			MILES				
WATERSHED	18. TOTAL DRAINAGE AREA			40.1	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			37.64 (44)	INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA			39.2	SQ. MI.	23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH		MILES	AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF			AC.-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.			
	April 1928	-	-	-	-	559	10,355	258			
	April 1950	22	22	Range Recon.	17	559	9,896	247			
	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 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				
	April 1950	459	20.86	0.532	459	20.86	0.532				
	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			
April 1950				0.20	4.43	-	-				

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
 Reconnaissance Investigation of Sedimentation in Lake Okmulgee, G. W. Renfro and J. A. Ogle, August 1950.

The sediment is a bluish gray very fine silt underlain by fine sand which is identified as valley sediment deposited before the dam was constructed.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service 49. DATE January 2, 1951
 U. S. Dept. of Agriculture
 Fort Worth, Texas