

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Claremore

45-18

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER City of Claremore			2. RIVER Dog Creek			3. STATE Oklahoma					
	4. SEC. TWP. 21, 22 N RANGE 15 E			5. NEAREST TOWN Claremore			6. COUNTY Rogers					
	7. STREAM BED ELEV. 572			8. TOP OF DAM ELEV. 612.3			9. SPILLWAY CREST ELEV. 603.3					
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					May 1931						
	b. POWER											
	c. WATER SUPPLY	603	475	4,258	4,258	16. DATE NORMAL OPER. BEGAN						
	d. IRRIGATION											
	e. CONSERVATION											
	f. INACTIVE					May 1931						
WATERSHED	17. LENGTH OF RESERVOIR 3 MILES			AV. WIDTH OF RESERVOIR MILES								
	18. TOTAL DRAINAGE AREA 56.44 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 39 INCHES								
	19. NET SEDIMENT CONTRIBUTING AREA 55.70 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES								
	20. LENGTH 11 MILES		AV. WIDTH 5 MILES		24. MEAN ANNUAL RUNOFF AG.-FT.							
	21. MAX. ELEV. 950		MIN. ELEV. 572		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.				
	May 1931	-	-	-	-	475	4,258	75				
	Oct. 1939	8.4	8.4	Range Detailed	33	475	3,909	69				
	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		d. MEAN ANNUAL		e. 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		d. TOTAL TO DATE		e. AV. ANNUAL		f. PER SQ. MI.-YEAR
	Oct. 1939	350		41.7		0.749		350		41.7		0.749
	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		c. PERIOD		d. TOT. TO DATE	
Oct. 1939	51.17 (10)		835		835		0.98		8.22		-	-

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
 Reference: Unpublished Report on Sediment in Lake Claremore, by V. H. Jones, Oct. 1939.

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

48. AGENCY SUPPLYING DATA Fort Worth, Texas

49. DATE August 7, 1950