

RESERVOIR SEDIMENTATION
DATA SUMMARY

Carter Lake
NAME OF RESERVOIR

50-3
DATA SHEET NO.

DAM	1. OWNER City of Madill			2. RIVER Big Glasses Creek			3. STATE Oklahoma			
	4. SEC. 17, 8, 7 TWP. 5S RANGE 5E			5. NEAREST TOWN Madill			6. COUNTY Marshall			
	7. STREAM BED ELEV. 62*			8. TOP OF DAM ELEV. 106*			9. SPILLWAY CREST ELEV 100*			
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					1936				
	b. POWER									
	c. WATER SUPPLY	100	72.8	865	865	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION					1936				
	f. INACTIVE									
WATERSHED	17. LENGTH OF RESERVOIR 0.93 MILES			AV. WIDTH OF RESERVOIR 0.12 MILES						
	18. TOTAL DRAINAGE AREA 1.81 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 37* INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 1.70 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES						
	20. LENGTH 1.57 MILES AV. WIDTH 1.15 MILES			24. MEAN ANNUAL RUNOFF 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 AG.-FT. PER SQ. MI.		
	Nov. 1949	13	13	Range Recon.	5	72.8 72.8	865 837	478 462		
	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			
	Nov. 1949	28.0	2.15	1.26	28.0	2.15	1.26			
	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 P PM			
			a. PERIOD	b. TOTAL TO DATE	c. AV. ANNUAL	d. TOT TO DATE	e. PERIOD	f. TOT TO DATE		
	Nov. 1949	-	-	-	0.25	3.24	-	-		

* Assumed or estimated

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: Reconnaissance Investigation of Sedimentation in Carter Lake by Rogers and Ogle, Nov. 1949; unpublished.

 Sediment in the lake is principally gray or brown silt. It contains some fine sand near the head of the lake.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service 49. DATE Aug. 3, 1950

U. S. Dept. of Agriculture
 Fort Worth, Texas