

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Lake Dallas

51-4

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER City of Dallas			2. RIVER Elm Fork of Trinity			3. STATE Texas			
	4. SEC. TWP. RANGE			5. NEAREST TOWN Denton			6. COUNTY Denton			
	7. STREAM BED ELEV. 458			8. TOP OF DAM ELEV. 538			9. SPILLWAY CREST ELEV. 525			
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					Feb. 1928				
	b. POWER									
	c. WATER SUPPLY	525	10,903	180,759	180,759	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION					Feb. 1928				
	e. CONSERVATION									
	f. INACTIVE									
WATERSHED	17. LENGTH OF RESERVOIR 20 MILES			AV. WIDTH OF RESERVOIR 1.6 MILES						
	18. TOTAL DRAINAGE AREA 1,174 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 33 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 1,157 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES						
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF AG.-FT.					
	21. MAX. ELEV. 1200		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 <sub>w</sub> RATIO AC.-FT. PER SQ. MI.		
	Feb. 1928	-	-	-	-	10,903	180,759	154		
	Sept. 1938	10.5	10.5	Range Detailed	26	10,885	167,072	142		
	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			
	Sept. 1938	13,687	1,304	1.13	13,687	1,304	1.13			
	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	c. AV. ANNUAL	d. TOT. TO DATE	e. PERIOD	f. TOT. TO DATE		
Sept. 1938	53 (31)	1,304	1,304	0.72	7.57	-	-			

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 of Sedimentation in Lake Dallas, Jones, V. H., Sept. 1938.

Sediment in main body of lake is gray silty clay. Conspicuous levee deposits of silty sand have built up along the old channel banks in the upper part of the lake

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service  
U. S. Dept. of Agriculture  
Fort Worth, Texas 49. DATE August 8, 1950