

RESERVOIR SEDIMENTATION
DATA SUMMARY

Terrell City Lake

NAME OF RESERVOIR

51-1

DATA SHEET NO.

DAM	1. OWNER City of Terrell			2. RIVER Kings Creek			3. STATE Texas			
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Terrell			6. COUNTY Kaufman			
	7. STREAM BED ELEV. 463.5			8. TOP OF DAM ELEV. 486.5			9. SPILLWAY CREST ELEV. 481			
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					Oct. 1921				
	b. POWER									
	c. WATER SUPPLY	481	313	2,219	2,219	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION					Oct. 1921				
	f. INACTIVE									
WATERSHED	17. LENGTH OF RESERVOIR 1.20 MILES			AV. WIDTH OF RESERVOIR 0.40 MILES						
	18. TOTAL DRAINAGE AREA 9.20 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 42 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 8.71 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES						
	20. LENGTH 5.30 MILES			AV. WIDTH 1.74 MILES			24. MEAN ANNUAL RUNOFF AC.-FT.			
	21. MAX. ELEV. 570			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.		
	Oct. 1921	-	-	-	-	313	2,219	241		
	Dec. 1949	28.25	28.25	Range Detailed	10	313	1,605	174		
	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			
	Dec. 1949	614	21.73	2.49	614	21.73	2.49			
	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			
Dec. 1949	59.2 (8)	3,211	3,211	0.98	27.67	-	-			

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
 Rogers, Ross E. and Ogle, James A., Report on Sedimentation in Terrell City Lake, Terrell, Kaufman County, Texas, U. S. Soil Conserv. Serv., SED-4-1, 18 pp., illus., processed, Fort Worth, Texas, April 1950.

Reservoir level was at least 5 feet below spillway in the summer of 1949. Sediment is medium to dark gray in color. Its texture is predominantly clay with lesser amounts of silt and sand.

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

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