

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Eanes
NAME OF RESERVOIR

53-3

DATA SHEET NO.

DAM	1. OWNER City of Comanche			2. RIVER Mercer Creek			3. STATE Texas									
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Comanche			6. COUNTY Comanche									
	7. STREAM BED ELEV. 70*			8. TOP OF DAM ELEV.			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										May 1926					
	b. POWER															
	c. WATER SUPPLY		100*		125		1,313		1,313		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE										May 1926					
WATERSHED	17. LENGTH OF RESERVOIR 0.80 MILES				AV. WIDTH OF RESERVOIR 0.25 MILES											
	18. TOTAL DRAINAGE AREA 13.76 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 28.5 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 13.57 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH 6.2 MILES		AV. WIDTH 2.2 MILES		24. MEAN ANNUAL RUNOFF AC.- FT.											
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Subhumid											
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 1926 Sept. 1946		- 20.3		- 20.3		- Range Detailed		- 12		125 125		1,313 1,221		95.4 88.7	
	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			
	Sept. 1946		92.05		4.53		0.334		92.05		4.53		0.334			
	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	
Sept. 1946								0.35		7.01		-		-		

* Assumed

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 Sediment in Lake Eanes by Ross E. Rogers, Sept. 1946.
 Sediment in Lake Eanes is a silty clay. Colors vary between gray, brown and black.

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