

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Erie
NAME OF RESERVOIR

51-17

DATA SHEET NO.

DAM	1. OWNER Tex. Electric Serv. Co.		2. RIVER Unnamed Tributary		3. STATE Texas		
	4. SEC. - TWP. - RANGE -		5. NEAREST TOWN Fort Worth		6. COUNTY Tarrant		
	7. STREAM BED ELEV.		8. TOP OF DAM ELEV.		9. SPILLWAY CREST ELEV.		
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					1899	
	b. POWER		28	270 <u>1/</u>	270		
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION						
	e. CONSERVATION						
	f. INACTIVE					1899	
17. LENGTH OF RESERVOIR			MILES	AV. WIDTH OF RESERVOIR		MILES	
WATERSHED	18. TOTAL DRAINAGE AREA 1.05		SQ. MI.	22. MEAN ANNUAL PRECIPITATION 33.1 (53)		INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA 1.01		SQ. MI.	23. MEAN ANNUAL RUNOFF		INCHES	
	20. LENGTH	MILES	AV. WIDTH	MILES	24. MEAN ANNUAL RUNOFF		AC.-FT.
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Humid		
	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
1899	-	-	-	-	28	270	257
April 1939	40	40	Recon.	20 meas.	28	204	194
SURVEY DATA	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.		
April 1939	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	
April 1939	66	1.65	1.63	66	1.65	1.63	
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
April 1939				0.61	24.4	-	-

1/ Water supply for steam and cooling

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 Sediment in the lake is chiefly gray silt and clay with small amounts of sand around the entrance of the main inflowing creek.															
Region 4, Soil Conservation Service U. S. Department of Agriculture Fort Worth, Texas															
48. AGENCY SUPPLYING DATA											49. DATE <u>January 1951</u>				