

RESERVOIR SEDIMENTATION
DATA SUMMARY

Mabank City Lake

NAME OF RESERVOIR

51-18

DATA SHEET NO.

DAM	1. OWNER City of Mabank			2. RIVER Trib. of Cedar Creek			3. STATE Texas		
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Athens			6. COUNTY Kaufman		
	7. STREAM BED ELEV. 79*			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					1926			
	b. POWER								
	c. WATER SUPPLY	100	23	295	295			16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION								
	e. CONSERVATION								
	f. INACTIVE							1926	
17. LENGTH OF RESERVOIR 0.5 MILES			AV. WIDTH OF RESERVOIR 0.1 MILES						
WATERSHED	18. TOTAL DRAINAGE AREA 0.36 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 41.9* INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 0.33 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES					
	20. LENGTH MILES		AV. WIDTH 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 AC.-FT. PER SQ. MI.	
	1926	-	-	-	-	23	295	819	
	April 1939	13	13	Recon.	20 meas.	23	271	753	
	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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR		
	April 1939	23.6	1.82	5.51	23.6	1.82	5.51		
	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	8.0				

* 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

Two stock ponds in drainage area above lake.

The sediment is chiefly gray clay with minor amounts of sand.

Region 4, Soil Conservation Service
U. S. Department of Agriculture

48. AGENCY SUPPLYING DATA Fort Worth, Texas

49. DATE March 1951