

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Sweetwater
NAME OF RESERVOIR

54-3
DATA SHEET NO.

DAM	1. OWNER City of Sweetwater			2. RIVER Bitter Creek			3. STATE Texas					
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Sweetwater			6. COUNTY Nolan					
	7. STREAM BED ELEV. 2,053			8. TOP OF DAM ELEV. 2,128			9. SPILLWAY CREST ELEV. 2,116					
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. 1930	
	b. POWER											
	c. WATER SUPPLY		2,116		752		13,810		13,810		16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION											
	e. CONSERVATION											
	f. INACTIVE										Feb. 1930	
WATERSHED	17. LENGTH OF RESERVOIR 2.5 MILES				AV. WIDTH OF RESERVOIR 0.47 MILES							
	18. TOTAL DRAINAGE AREA 110 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 24.4 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 108.8 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 Sub-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.			
	Feb. 1930		-	-	-	-	752	13,810	126			
	Dec. 1941		11.8	11.8	Recon.	67 meas.	752	13,287	121			
	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. 1941		523	44.3	0.41	523	44.3	0.41				
	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. 1941					0.32	3.79	-	-				

* Estimated

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
 The sediment in the lower part of the Lake is uniformly silt. In the upper reaches of the lake the sediment is gray brown to gray and predominantly silt.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service
U. S. Dept. of Agriculture
Fort Worth, Texas

49. DATE January 2, 1951