

RESERVOIR SEDIMENT

DATA SUMMARY

SCS-34 Rev. 6-66

Lake Weatherford

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

51 - 42

DATA SHEET NO.

DAM	1. OWNER City of Weatherford		2. STREAM Clear Fork of Trinity		3. STATE Texas			
	4. SEC. TWP. RANGE		5. NEAREST P.O. Weatherford		6. COUNTY Parker			
	7. LAT N32° 46' 15" LONG W97° 40' 38"		8. TOP OF DAM ELEVATION 914.0		9. SPILLWAY CREST ELEV. 896.0			
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES			
	a. FLOOD CONTROL							
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY		896.0		1144.94			
	e. IRRIGATION							
	f. CONSERVATION							
	g. INACTIVE							
WATERSHED	13. ORIGINAL CAPACITY, ACRE-FEET		21,233.61		21,233.61			
	14. GROSS STORAGE, ACRE-FEET							
	15. DATE STORAGE BEGAN				March 1957			
	16. DATE NORMAL OPER. BEGAN				July 1957			
	17. LENGTH OF RESERVOIR		3.5 MILES		AV. WIDTH OF RESERVOIR 0.51 MILES			
	18. TOTAL DRAINAGE AREA		109 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 31.97 (86) INCHES			
19. NET SEDIMENT CONTRIBUTING AREA		63,061/ SQ. MI.		23. MEAN ANNUAL RUNOFF 3.88 INCHES				
20. LENGTH		20 MILES		AV. WIDTH 5.45 MILES				
21. MAX. ELEV.		1375.0		MIN. ELEV. 855.0				
24. MEAN ANNUAL RUNOFF		22,554.32		AC. FT.				
25. ANNUAL TEMP: MEAN		64°F		RANGE 44°F - 83°F				
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/I RATIO, AC.-FT. PER AC.-FT.
	3-57	-	-			1144.94	21,233.61	1.57 <u>2/</u>
	4-73	16.08	16.08	Range	19 Ranges	1144.94	19,865.72	1.47 <u>2/</u>
	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 CAPACITY LOSS, 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	
	4-73	1367.89	85.07	1.35	1367.89	85.07	1.35	
	26. DATE OF SURVEY	39. AV. DRY WGT., LBS PER CU. FT.	40. SED. DEP., TONS PERSQ MI.-YR.		41. STORAGE LOSS, PCT.		42. SED. INFLOW, PPM	
	a. PERIOD	b. TOTAL TO DATE	a. AV. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE		
4-73	38.15 (6)	1121.67	1121.67	0.40	6.44			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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															
<p>1/ Does not include 44.15 sq. mi. drainage area controlled by 22 SCS floodwater retarding structures, and 1.79 sq. mi. lake area.</p> <p>2/ Adjusted because of upstream control of 22 SCS floodwater retarding structures Land Use: Rangeland 53%, Pastureland 24%, Cultivated Land 15%, Miscellaneous 8%.</p> <p>Physiographic Area: West Cross Timbers Estimated Trap Efficiency = 97% Geology - Paluxy Formation 92%, Goodland Limestone 8%. Both Lower Cretaceous Age</p>															
48. AGENCY MAKING SURVEY				Soil Conservation Service				49. AGENCY SUPPLYING DATA				Temple, Texas			
												50. DATE		6-73	