

RESERVOIR SEDIMENTATION
DATA SUMMARY

LAKE CHEROKEE
NAME OF RESERVOIR

51 -29
DATA SHEET NO.

DAM	1. OWNER Cherokee Water Company			2. RIVER Sabine			3. STATE Texas									
	4. SEC. TWP. RANGE			5. NEAREST TOWN Longview			6. COUNTY Gregg-Rusk									
	7. STREAM BED ELEV. 248.0			8. TOP OF DAM ELEV. 295.0			9. SPILLWAY CREST ELEV. 280.0									
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										October 1948					
	b. POWER		280.0		3,987		49,295		49,295							
	c. WATER SUPPLY		280.0		3,987		49,295		49,295		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 9.0 MILES				AV. WIDTH OF RESERVOIR 0.69 MILES											
	18. TOTAL DRAINAGE AREA 170.00 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 43.92 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 163.77 SQ. MI.				23. MEAN ANNUAL RUNOFF 12.5 INCHES											
	20. LENGTH 20 MILES		AV. WIDTH 8.5 MILES		24. MEAN ANNUAL RUNOFF 667 Ac. Ft. / Sq. Mi.											
	21. MAX. ELEV. 500.0		MIN. ELEV. 248.0		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.	
	Oct. 24, 1948		--		--		--		--		3,987		49,295		290	
	April 24, 1960		11.5		11.5		Range Detail		34		3,987		46,705		275	
	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		d. MEAN ANNUAL		e. 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 24, 1960		2,590		225		1.37		2,590		225		1.37			
	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		c. AV. ANNUAL		d. TOT. TO DATE		e. PERIOD		f. TOT. TO DATE				
April 24, 1960		83.12(9)		2,480.09		2,480.09		0.46		5.25		--				

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
248	9	16	260	811	4,513	272	2,324	22,175
252	194	343	264	1,195	8,499	276	2,997	32,787
256	560	1,787	268	1,676	14,212	280	3,987	46,705

47. REMARKS AND REFERENCES
 Land Use: Cultivated, 28.13%; Pasture, 25.09%; Woodlands, 46.78%
 C/I Ratio = 0.424
 Estimated Trap Efficiency = 96%
 Total Annual Sediment Load, Adjusted for Trap Efficiency = 1.43 Ac.Ft./Sq.Mi.

48. AGENCY SUPPLYING DATA Soil Conservation Service
 Temple, Texas

49. DATE January 4, 1961