

**RESERVOIR SEDIMENTATION
DATA SUMMARY**

LAKE CROOK

49-1a

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER City of Paris, Texas			2. RIVER Pine Creek			3. STATE Texas		
	4. SEC. TWP. RANGE			5. NEAREST TOWN Paris			6. COUNTY Lamar		
	7. STREAM BED ELEV. 450			8. TOP OF DAM ELEV. 488			9. SPILLWAY CREST ELEV. 476		
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. 1923		
	b. POWER								
	c. WATER SUPPLY	476	1,291		11,487	11,487	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION								
	e. CONSERVATION						Feb. 1923		
	f. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR 2.9 MILES			AV. WIDTH OF RESERVOIR 0.6 MILES					
	18. TOTAL DRAINAGE AREA 51.6 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 38.94 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 49.6 SQ. MI.			23. MEAN ANNUAL RUNOFF 10.0 INCHES					
	20. LENGTH MILES			AV. WIDTH MILES			24. MEAN ANNUAL RUNOFF 533 Ac. Ft. /Sq. Mi. ^{Ac.-Ft.}		
	21. MAX. ELEV. 650			MIN. ELEV. 460			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.	
	Feb. 1923	---	---	---	---	1,291	11,487	223	
	March 1936	13.1	13.1	Range Detail	18	1,227	10,755	208	
	July 1956	19.7	32.8	Range Detail	16	1,226	9,964	193	
	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		
	March, 1936	732	55.9	1.13	732	55.9	1.13		
July 1956	791	40.2	0.81	1,523	46.4	0.94			
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		
March 1936	---	---	----	0.49	6.37	---	---		
July 1956	36.4 (4)	642	642	0.40	13.26	---	---		

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															
Average Land Use for the Period: Cultivated, 21%; Pasture, Woodland and Meadow, 66%; Idle and Urban, 13%.															
C/I Ratio = .59															
Trap Efficiency = 98%															
Total Sediment Load, Adjusted for Trap Efficiency = .96 Ac.Ft./Sq.Mi.															
48. AGENCY SUPPLYING DATA			Soil Conservation Service Temple, Texas			49. DATE July 27, 1956									