

RESERVOIR SEDIMENTATION
DATA SUMMARY

Kemp City Reservoir

NAME OF RESERVOIR

51-12

DATA SHEET NO.

DAM	1. OWNER City of Kemp		2. RIVER Cedar Creek		3. STATE Texas			
	4. SEC. - TWP. - RANGE -		5. NEAREST TOWN Kemp		6. COUNTY Kaufman			
	7. STREAM BED ELEV. 332		8. TOP OF DAM ELEV. 366		9. SPILLWAY CREST ELEV. 358			
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					June 1926		
	b. POWER							
	c. WATER SUPPLY	358	42.8	376	376	16. DATE NORMAL OPER. BEGAN June 1926		
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE							
17. LENGTH OF RESERVOIR 0.74 MILES			AV. WIDTH OF RESERVOIR 0.09 MILES					
WATERSHED	18. TOTAL DRAINAGE AREA 1.48 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 42 (Est.) INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 1.42 SQ. MI.		23. MEAN ANNUAL RUNOFF INCHES					
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF AC.-FT.			
	21. MAX. ELEV. 420		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Humid			
	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
June 1926 April 1939		- 12.8	- 12.8	- Recon.	- 27 meas.	42.8 42.8	376 298	254 201
SURVEY DATA	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	
April 1939	78	6.09	4.29	78	6.09	4.29		
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				1.62	20.8	-	-	

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
 Reconnaissance Survey of Sediment in Kemp City Lake, 1939.
 The sediment consists chiefly of silt and clay with considerable quantities of sand near the shore and near the entrance of the main channel.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service 49. DATE January 1951
 U. S. Dept. of Agriculture
 Fort Worth, Texas