

RESERVOIR SEDIMENTATION  
DATA SUMMARY

LAKE KEMP

50 - 23

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER <b>Wichita County Water Improvement Districts Nos. 1 and 2</b>				2. RIVER <b>Wichita</b>		3. STATE <b>Texas</b>		
	4. SEC. <b>TWP. RANGE</b>		5. NEAREST TOWN <b>Seymour</b>		6. COUNTY <b>Baylor</b>				
	7. STREAM BED ELEV. <b>1,068</b>			8. TOP OF DAM ELEV. <b>1,166</b>		9. SPILLWAY CREST ELEV. <b>1,153</b>			
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						Oct. 1, 1922		
	b. POWER								
	c. WATER SUPPLY		1,153	22,800	560,000	560,000	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION								
	e. CONSERVATION								
	f. INACTIVE								
17. LENGTH OF RESERVOIR <b>16.9 <sup>1/2</sup></b> MILES				AV. WIDTH OF RESERVOIR <b>0.95</b> MILES					
WATERSHED	18. TOTAL DRAINAGE AREA <b>2,099</b> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <b>23.58 (33)</b> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <b>2,067</b> SQ. MI.			23. MEAN ANNUAL RUNOFF <b>2.0</b> INCHES					
	20. LENGTH <b>89</b> MILES		AV. WIDTH <b>23.6</b> MILES		24. MEAN ANNUAL RUNOFF <b>107</b> Ac. Ft. / Sq. Mi. AC-FT.				
	21. MAX. ELEV.		MIN. ELEV. <b>1,068</b>		25. CLIMATIC CLASSIFICATION <b>Subhumid</b>				
	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. 1, 1922		--	--	--	---	22,800	560,000	267	
Sept. 20, 1958		36	36	Semi-detail	10 Feet	20,627	461,757	220	
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	
	Sept. 20, 1958		98,243	2,729	1.32	98,243	2,729	1.32	
	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

1/ Length of side arms = 17 miles.

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															
<p>Construction began February 25, 1922. Storage began October 1, 1922.  Construction completed August 25, 1923 (According to Surface Water Supply of the United States 1956, Part 7 Lower Mississippi River Basin. Geological Survey Water-Supply Paper 1441).</p>															
48. AGENCY SUPPLYING DATA      Soil Conservation Service Temple, Texas															
49. DATE 11-14-1958															