

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Fryer

NAME OF RESERVOIR

46-12a

DATA SHEET NO.

DAM	1. OWNER USDA - SCS				2. RIVER Wolf Creek		3. STATE Texas									
	4. SEC. 564, HT & T. C. Survey Block 45				5. NEAREST TOWN Perryton		6. COUNTY Ochiltree									
	7. STREAM BED ELEV. 59.0' Local				8. TOP OF DAM ELEV. 113.9' Local		9. SPILLWAY CREST ELEV. 98' Local									
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										1939					
	b. POWER															
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. ACTIVE Rec.		98' local		102		844		844							
WATERSHED	17. LENGTH OF RESERVOIR .91 MILES				AV. WIDTH OF RESERVOIR 0.12 MILES											
	18. TOTAL DRAINAGE AREA 108 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 19.41 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 108 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.4 INCHES											
	20. LENGTH 17 MILES AV. WIDTH 10 MILES				24. MEAN ANNUAL RUNOFF 21 ac.ft./sq.mi.											
	21. MAX. ELEV. MIN. ELEV.				25. CLIMATIC CLASSIFICATION Dry subhumid											
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.	
	1939		—		—		—		—		102		844		7.81	
	May 24, 1947		7.4		7.4		Recon. Range		4		92		717		6.64	
	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			
	May 24, 1947		127		17.16		0.16		178		17.16		0.16			
	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				
May 24, 1947		—		—		—		2.0		15.0		—				

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
	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														
Land use - 25% idle and 75% pasture C/I ratio - 37.19 in 1939 and 31.61 in 1947 Estimated trap efficiency 98% Total annual sediment load adjusted for trap efficiency 0.16 ac.ft./sq. mi.														
48. AGENCY SUPPLYING DATA										49. DATE April 30, 1954				
SSS, Field Service Unit, Ft. Worth, Tex.														