

RESERVOIR SEDIMENTATION  
DATA SUMMARY

C. W. Lester Farm Pond No. 2

50-6

NAME OF RESERVOIR  
Trib. of

DATA SHEET NO.

DAM	1. OWNER <b>C. W. Lester</b>			2. RIVER / <b>Broken Leg Creek</b>			3. STATE <b>Oklahoma</b>				
	4. SEC. <b>9</b> TWP. <b>13 N</b> RANGE <b>24 W</b>			5. NEAREST TOWN <b>Cheyenne</b>			6. COUNTY <b>Roger Mills</b>				
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.				
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 1944					
	b. POWER										
	c. WATER SUPPLY		3.7	16.3	16.3	16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION										
	e. CONSERVATION										
	f. INACTIVE					June 1944					
17. LENGTH OF RESERVOIR			0.15	MILES	17. AV. WIDTH OF RESERVOIR			MILES			
WATERSHED	18. TOTAL DRAINAGE AREA			0.64	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			25.8 (25)	INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA			0.63	SQ. MI.	23. MEAN ANNUAL RUNOFF				INCHES	
	20. LENGTH		1.0	MILES	20. AV. WIDTH		0.6	MILES	24. MEAN ANNUAL RUNOFF		AG.-FT.
	21. MAX. ELEV.			21. MIN. ELEV.			25. CLIMATIC CLASSIFICATION				Sub-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	33. C/W RATIO AC.-FT. PER SQ. MI.			
June 1944	-	-	-	-	3.7	16.3	25.5				
June 1949	5.0	5.0	Range Recon.	5	3.7	13.1	20.5				
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.						
June 1949	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR					
June 1949	3.2	0.64	1.02	3.2	0.64	1.02					
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				
June 1949				3.93	19.63	-	-				

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  
 Report on Sedimentation in C. W. Lester Pond No. 2, G. W. Renfro and R. L. Marshall. (Unpublished) June 1949.  
 The sediment is red silty clay, slightly sandy near the head of the pond.

48. AGENCY SUPPLYING DATA: Region 4, Soil Conservation Service 49. DATE December 28, 1950  
 U. S. Dept. of Agriculture  
 Fort Worth, Texas