

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-62

Lake Carl Blackwell
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

46-15a

DATA SHEET NO.

DAM	1. OWNER Oklahoma State Univ.			2. STREAM Stillwater Creek			3. STATE Oklahoma									
	4. SEC. TWP. 19-20N RANGE 1E&1W			5. NEAREST TOWN Stillwater			6. COUNTY Payne-Noble									
	7. STREAM BED ELEVATION 884.80'			8. TOP OF DAM ELEVATION 952.80'			9. SPILLWAY CREST ELEV. 944.17'									
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA ACRES		13. ORIGINAL CAPACITY ACRE-FEET		14. GROSS STORAGE ACRE-FEET		15. DATE STORAGE BEGAN					
	a. MULTIPLE USE															
	b. FLOOD CONTROL										3/1/38					
	c. POWER															
	d. WATER SUPPLY		944.17 ^{1/}		3086.58 ^{1/}		58,326 ^{1/}		58,326		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. SEDIMENT										3/1/38					
h. INACTIVE																
17. LENGTH OF RESERVOIR 5.11 ^{2/} MILES					AV. WIDTH OF RESERVOIR 0.6 MILES											
WATERSHED	18. TOTAL DRAINAGE AREA 75.35 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 34 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 70.53 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH 11.65 MILES		AV. WIDTH 6.05 MILES		24. MEAN ANNUAL RUNOFF AC.-F.T.											
	21. MAX. ELEV.				MIN. ELEV. 884.80				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.	
	3/1/38		--		--		--		--		3086.58		58,326		774	
	9/1/58		20.50		20.50		Range (R)		30		3086.58		54,556		724	
	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			
	9/1/58		34" (1941-1958)													
	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			
	9/1/58		3,770		184		2.61		3,770		184		2.61			
	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. AN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE				
9/1/58		60*		3,410.75		3,410.75		0.315		6.46						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION												
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
	Not Developed												

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
944.17	3086.58	54,556						

47. REMARKS AND REFERENCES

Schreiber, J. F., Jr., 1959, Sedimentation Survey of Lake Carl Blackwell, Payne and Noble Counties, Oklahoma: State Project No. 99, Research Foundation, Oklahoma State University, 21 pages.

Sediment is a reddish-brown silty clay.

*Assumed

1/ Original data revised on basis of 1958 survey.

2/ Length of main body from dam to state highway 86 is 5.11. Backwater extends an additional mile to the west.

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA SCS

50. DATE September 12, 1961