

RESERVOIR SEDIMENTATION
DATA SUMMARY

Holdenville City Lake

NAME OF RESERVOIR

45-11

DATA SHEET NO.

DAM	1. OWNER City of Holdenville			2. RIVER Beemore Creek			3. STATE Oklahoma			
	4. SEC. 4 TWP. 6N RANGE 9E			5. NEAREST TOWN Holdenville			6. COUNTY Hughes			
	7. STREAM BED ELEV. 735			8. TOP OF DAM ELEV. 798			9. SPILLWAY CREST ELEV. 788			
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 1931				
	b. POWER									
	c. WATER SUPPLY	.88	415	9,844	9,844	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION									
	f. INACTIVE					June 1931				
17. LENGTH OF RESERVOIR		2.2	MILES	AV. WIDTH OF RESERVOIR		0.3	MILES			
WATERSHED	18. TOTAL DRAINAGE AREA		8.95	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		38.12 (47)	INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		8.30	SQ. MI.	23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH 4.5		MILES	AV. WIDTH 1.8		MILES	24. MEAN ANNUAL RUNOFF		AC.-FT.	
	21. MAX. ELEV.		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	33. C _w RATIO AC.-FT. PER SQ. MI.	
June 1931 April 1950		- 18.8	- 18.8	- Range Recon.	- 12	415 415	9,844 9,030	1,100 1,009		
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		
SURVEY DATA	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 1950		814	43.30	5.22	814	43.30	5.22		
SURVEY DATA	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 1950					0.44	8.27	-		-	

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 of Sedimentation in Holdenville City Lake, G. W. Renfro and J. A. Ogle, July 1950 (Unpublished Mimeo. report). The sediment in the lake is principally a dark gray silty sand.															
48. AGENCY SUPPLYING DATA <u>Region 4, Soil Conservation Service</u> 49. DATE <u>January 2, 1951</u> U. S. Dept. of Agriculture Fort Worth, Texas															