

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake McAlester

NAME OF RESERVOIR

45-5

DATA SHEET NO.

DAM	1. OWNER City of McAlester			2. RIVER Bull Creek			3. STATE Oklahoma									
	4. SEC. 2 TWP. 6N RANGE 14E			5. NEAREST TOWN McAlester			6. COUNTY Pittsburg									
	7. STREAM BED ELEV. 579			8. TOP OF DAM ELEV. 622.7			9. SPILLWAY CREST ELEV. 617.7									
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										1919					
	b. POWER															
	c. WATER SUPPLY		617.7		1,592		18,397		18,397		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION										1919					
WATERSHED	17. LENGTH OF RESERVOIR 4.6 MILES			AV. WIDTH OF RESERVOIR 0.54 MILES												
	18. TOTAL DRAINAGE AREA 30.7 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 43.3 (57) INCHES												
	19. NET SEDIMENT CONTRIBUTING AREA 28.2 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES												
	20. LENGTH 7.5 MILES AV. WIDTH 4.0 MILES			24. MEAN ANNUAL RUNOFF AC.-FT.												
	21. MAX. ELEV. 1,000			MIN. ELEV.			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.	
	Sept. 1941		22		22		Range Recon.		14		1,592 1,592		18,397 17,509		599 570	
	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			
	Sept. 1941		888		40.4		1.43		888		40.4		1.43			
	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	
Sept. 1941								0.22		4.83		-		-		

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
 Sediment in the main part of the reservoir is chiefly loose sandy silt with color ranging from light to dark gray and having a greenish tint in some places.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service 49. DATE November 1950