

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Fort Smith

NAME OF RESERVOIR

44-3

DATA SHEET NO.

DAM	1. OWNER City of Fort Smith			2. RIVER Jack & Jones Creeks		3. STATE Arkansas		
	4. SEC. TWP. RANGE		5. NEAREST TOWN Mountainburg			6. COUNTY Crawford		
	7. STREAM BED ELEV. 755			8. TOP OF DAM ELEV. 845		9. SPILLWAY CREST ELEV. 825		
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					Feb. 1936		
	b. POWER							
	c. WATER SUPPLY	825	650	13,810*	13,810*	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE					Feb. 1936		
17. LENGTH OF RESERVOIR 2.5 * MILES			AV. WIDTH OF RESERVOIR MILES					
WATERSHED	18. TOTAL DRAINAGE AREA 65 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 38.7 (3) INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 64 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES				
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF AC.-FT.			
	21. MAX. ELEV.		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.
	Feb. 1936 April 1940	- 4.2	- 4.2	- Recon.	- 31 meas.	650 650	13,810 13,727	212 211
	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	
	April 1940	82.9	19.7	0.31	82.9	19.7	0.31	
	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
	April 1940				0.14	0.60	-	-

* Estimated

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 is a light gray to brownish gray silt.

Region 4, Soil Conservation Service
 U. S. Dept. of Agriculture
 Fort Worth, Texas

48. AGENCY SUPPLYING DATA _____ 49. DATE January 1951