

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Wedington
NAME OF RESERVOIR

45-1
DATA SHEET NO.

DAM	1. OWNER Soil Conservation Service			2. RIVER Trib. of Illinois R		3. STATE Arkansas		
	4. SEC. 3, 4, 9, 10 P. 16N RANGE 32W			5. NEAREST TOWN Fayetteville		6. COUNTY Washington		
	7. STREAM BED ELEV. 1,086			8. TOP OF DAM ELEV. 1,128		9. SPILLWAY CREST ELEV. 1,121		
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					July 1937		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION	1,121	90	1,260	1,260	July 1937		
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 0.76 MILES			AV. WIDTH OF RESERVOIR .18 MILES				
	18. TOTAL DRAINAGE AREA 4.06 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 39 * INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 3.92 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES				
	20. LENGTH 2 MILES		AV. WIDTH 2 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.
	July 1937 Aug. 1947	- 10.1	- 10.1	- Range Recon.	- 9	90 90	1,260 1,249	310 308
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AG.-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.			
		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	
	Aug. 1947	11	1.09	0.278	11	1.09	0.278	
	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	c. PERIOD	d. TOT. TO DATE
Aug. 1947	-	-	-	0.09	0.87	-	-	

*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															
<p>Unpublished Reconnaissance Investigation of Sedimentation in Lake Wedington by Ross E. Rogers, August 1947.</p> <p>There is very little sediment in the lake. It consists of light brown to brown silt, with a slight amount of sand near the upper end of lake. Small amounts of shore wash near ends of many ranges, consisting of yellowish gravelly clay were found.</p> <p style="text-align: center;">Region 4, Soil Conservation Service U. S. Dept. of Agriculture Fort Worth, Texas</p>															
48. AGENCY SUPPLYING DATA										49. DATE					
Fort Worth, Texas										December 28, 1950					