

U.S. DEPARTMENT OF AGRICULTURE  
**RESERVOIR SEDIMENTATION  
 DATA SUMMARY**

**Lake Bennett**  
 NAME OF RESERVOIR

SOIL CONSERVATION SERVICE  
**44-1a**  
 DATA SHEET NO.

<b>DAM</b>	1. OWNER <b>U.S.D.A. - S.C.S.</b>			2. RIVER <b>East Fork Creek</b>			3. STATE <b>Arkansas</b>		
	4. SEC. <b>33</b> TWP. <b>8N</b> RANGE <b>12W</b>			5. NEAREST TOWN <b>Conway</b>			6. COUNTY <b>Faulkner</b>		
	7. STREAM BED ELEV. <b>453</b>			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. <b>488.45<sup>1/</sup></b>		
<b>RESERVOIR</b>	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								
	b. POWER							June 1935	
	c. WATER SUPPLY							16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION								
	e. CONSERVATION	<b>488.45</b>	<b>36.9</b>	<b>494</b>	<b>494</b>			June 1935	
	f. INACTIVE								
<b>WATERSHED</b>	17. LENGTH OF RESERVOIR <b>0.6</b> MILES			AV. WIDTH OF RESERVOIR <b>0.1</b> MILES					
	18. TOTAL DRAINAGE AREA <b>4.16</b> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <b>48</b> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <b>4.11</b> SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES					
	20. LENGTH MILES; AV. WIDTH MILES			24. MEAN ANNUAL RUNOFF AG.-FT.					
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION <b>Humid</b>				
<b>SURVEY DATA</b>	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 1935	-	-	-	-	36.9	494	119	
	Nov. 1935	0.4	0.4	Range	9	36.9	490	118	
	Nov. 1946	11.0	11.5	Detailed "	10	36.9	481	116	
	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		
	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		
	Nov. 1935	4.0	10.0	2.43	4.0	10.0	2.43		
	Nov. 1946	9.2	0.83	0.20	13.2	1.15	0.28		
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		
Nov. 1935				2.20	0.81	-	-		
Nov. 1946				0.23	2.67	-	-		

<sup>1/</sup> Spillway elev. was 488.74 in 1935, but had been lowered to elev. 488.45 by erosion between 1935 and 1946. Capacities and areas listed are for elev. 488.45.

28. 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  
Reference: Glymph, Louis M., Jr., and Jones, Victor H., Advance report on the Sedimentation Survey of Lake Bennett, Conway, Arkansas. U. S. Soil Conserv. Serv. SCS-SS-9., 5 pp., illus., processed, Washington, D. C., October 1936. Unpublished Report of Sedimentation in Lake Bennett, Nov. 1946.

The sediment deposited in Lake Bennett is a mixture of silt and fine sand.

Lake Bennett is a recreational lake built by L.U.-S.C.S.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service <sup>49.</sup> DATE August 7, 1950  
U. S. Dept. of Agriculture, Fort Worth, Texas