

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Shahkoka
NAME OF RESERVOIR

15 - 9
DATA SHEET NO.

DAM	1. OWNER M. E. Woodsen			2. RIVER Unnamed Trib. of Camp Creek		3. STATE Mississippi			
	4. SEC. 29 TWP. 1S RANGE 6W			5. NEAREST TOWN Olive Branch		6. COUNTY DeSoto			
	7. STREAM BED ELEV. 76.4 *			8. TOP OF DAM ELEV. -		9. SPILLWAY CREST ELEV. 100 *			
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					Jan. 1934			
	b. POWER					16. DATE NORMAL OPER. BEGAN			
	c. WATER SUPPLY								
	d. IRRIGATION								
	e. CONSERVATION	100.0	31.4	306	306	Jan. 1934			
	f. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR 0.540 MILES			AV. WIDTH OF RESERVOIR 0.0909 MILES					
	18. TOTAL DRAINAGE AREA 0.4153 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 49.47 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 0.3663 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. $\frac{C}{W}$ RATIO AC.-FT. PER SQ. MI.	
	Jan. 1934	-	-	-	-	31.4	306	737	
	Feb. 1951	17	17	Range detailed	8	28.9	256	616	
	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
	Feb. 1951	52.13							
	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		
	Feb. 1951	49.9 (54.7) $\frac{1}{}$	2.94 (3.22)	8.03 (8.79)	49.9 (54.7)	2.94 (3.22)	8.03 (8.79)		
	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		
Feb. 1951	61.65 (4)	10,800 (11,800)	10,800 (11,800)	0.96	16.3				

* Assumed

$\frac{1}{}$ Above-crest deposits within original flow line.

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	
Region 2, Soil Conservation Service U. S. Dept. of Agriculture Spartanburg, South Carolina	
48. AGENCY SUPPLYING DATA	49. DATE <u>April 30, 1951</u>