

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Lake Issaqueena  
NAME OF RESERVOIR

8-1

DATA SHEET NO.

DAM	1. OWNER U.S. Dept. of Agriculture			2. RIVER Six Mile Creek			3. STATE South Carolina					
	4. SEC. TWP. RANGE			5. NEAREST TOWN Clemson			6. COUNTY Pickens					
	7. STREAM BED ELEV. 55.5			8. TOP OF DAM ELEV. 107			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										June 1938	
	b. POWER											
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION											
	e. CONSERVATION		100		117		1,836		1,836		June 1938	
	f. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 1.40 MILES				AV. WIDTH OF RESERVOIR 0.11 MILES							
	18. TOTAL DRAINAGE AREA 14.02 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 53.98 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 13.84 <sup>1</sup> /13.86 <sup>2</sup> SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES							
	20. LENGTH 7.9 MILES		AV. WIDTH 1.7 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.							
	21. MAX. ELEV. 1600*		MIN. ELEV. 635		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.			
	June 1938		-	-	-	-	117	1,836	131			
	April 1941		2.9	2.9	Range detailed	20 <sup>3</sup> / <sub></sub>	114	1,748	125			
	Oct. 1949		8.5	11.4	"	20 <sup>4</sup> / <sub></sub>	106	1,626	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			
	April 1941		88.9	30.7	2.22	88.9		30.7	2.22			
Oct. 1949		121.7	14.3	1.03	210.6		18.5	1.33				
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					
April 1941		49.82 (12)	2410	2410	1.67	4.84						
Oct. 1949		50.9 (14)	1140	1470	1.01	11.5						

\* Assumed 1/ 1940 2/ 1949

<sup>3</sup>/ Segments 16 and 20 determined by contour method

<sup>4</sup>/ Segments 16 and 20 determined by range method adjusted to 1941 contour figures.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	100-95	95-90	90-85	85-80	80-75	75-70	70-65	65-60				
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
April 1941	29.0	32.4	9.9	6.6	7.7	8.4	4.9	1.1				
Oct. 5, 1949	28.3	31.8	7.3	10.3	11.0	7.9	3.0	0.4				

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														
April 1941	4.4	5.5	5.6	6.9	5.5	4.4	4.6	13.3	22.1	27.5					
Oct. 5, 1949	3.6	6.1	8.1	7.5	6.8	6.1	6.1	16.7	24.7	14.3					

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
100	106	1626						
95		1151						
90		770						
85		439						
80		191						
75		51						
70		4						

47. REMARKS AND REFERENCES  
 Zwerner, G. A., Johnson, J.W., and Flaxman, E.M. Advance report on the sedimentation survey and suspended matter observations in Lake Issaqueena, Clemson, S.C., 1940-41. U.S. Soil Conserv. Serv. SCS-SS-37, 36 pp., illus., processed, Washington, D.C., Nov. 1942.  
 Noll, John J., Roehl, John W. and Bennett, Jackson. Effects of soil conservation on sedimentation in Lake Issaqueena, Pickens County, South Carolina. U.S. Soil Conserv. Serv. SCS-TP-95, 20 pp., illus., processed. Spartanburg, S.C. June 1950.

48. AGENCY SUPPLYING DATA Region 2, Soil Conservation Service  
U. S. Dept. of Agriculture  
Spartanburg, South Carolina

49. DATE Sept. 25, 1950