

RESERVOIR SEDIMENT
DATA SUMMARY

Structure No. 11
North Fork Broad River Watershed

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

8- 5a

DATA SHEET NO.

DAM	1. OWNER Private			2. STREAM Tom's Creek			3. STATE Georgia					
	4. SEC. TWP. RANGE			5. NEAREST P. O. Eastonollee			6. COUNTY Stephens					
	7. LAT. 83°15' " LONG. 34°29' "			8. TOP OF DAM ELEVATION 757.87			9. SPILLWAY CREST ELEV. 751.87					
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-FEET		14. GROSS STORAGE, ACRE-FEET		15. DATE STORAGE BEGAN	
	a. FLOOD CONTROL		751.87		79.50 1/		646.7 1/		792.4 1/		7/1/56	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION										7/1/56	
g. INACTIVE		739.62		28.62 1/		145.7 1/		145.7 1/				
17. LENGTH OF RESERVOIR 0.46 MILES				AV. WIDTH OF RESERVOIR 0.27 MILES								
18. TOTAL DRAINAGE AREA 3.79 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 58 (88) INCHES								
19. NET SEDIMENT CONTRIBUTING AREA 3.67 SQ. MI.				23. MEAN ANNUAL RUNOFF 20.3 (16) INCHES								
20. LENGTH 3.1 MILES				AV. WIDTH 1.2 MILES				24. MEAN ANNUAL RUNOFF 4103 AC.-F. T.				
21. MAX. ELEV. 1000				MIN. ELEV. 729				25. ANNUAL TEMP.: MEAN 62 RANGE				
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/I. RATIO, AC.-FT. PER AC.-FT.	
7/1/56		-	-	-	-		79.5 (28.62)		792.4 (145.7)		0.193	
6/1/59		2.9	2.9	Range (D)	3		79.5 (28.62)		777.6 (133.0)		0.190	
4/21/70		10.9	13.8	Contour			79.5 (25.85)		763.9 (122.7)		0.186	
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 CAPACITY LOSS, 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					
6/1/59		14.8 (12.7)	5.1 (4.38)	1.39 (1.19)	14.8 (12.7)	5.1 (4.38)	1.39 (1.19)					
4/21/70		13.7 (10.3)	1.26 (0.94)	0.34 (0.26)	28.5 (23.0)	2.07 (1.67)	0.56 (0.46)					
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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
6/1/59				2234 (1913)	2234 (1913)	0.64 (3.01)	1.87 (8.72)					
4/21/70		73.8		547 (418)	900 (739)	0.26 (1.15)	3.60 (15.79)					

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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

1/ Changed on basis of 1970 survey.

Numbers in parenthesis refer to sediment pool only

Land Use in Drainage Area: 17% Cropland; 6% Pasture; 69% Woodland; 8% miscellaneous

48. AGENCY MAKING SURVEY Soil Conservation Service

49. AGENCY SUPPLYING DATA Soil Conservation Service

50. DATE June 1970