

RESERVOIR SEDIMENT
DATA SUMMARY

Structure #14
North Fork Broad River Watershed

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

8-7

DATA SHEET NO.

DAM	1. OWNER Bailey			2. STREAM Tom's Creek			3. STATE Georgia							
	4. SEC. TWP.		RANGE		5. NEAREST P.O. Toccoa			6. COUNTY Stephens						
	7. LAT. 83°15'			" LONG. 34°30'			8. TOP OF DAM ELEVATION 761.7		9. SPILLWAY CREST ELEV. 757.2					
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		757.2		25.6		258.4		281.1	Oct. 1954				
	b. MULTIPLE USE													
	c. POWER													
	d. WATER SUPPLY									16. DATE NORMAL OPER. BEGAN				
	e. IRRIGATION													
	f. CONSERVATION													
g. INACTIVE		740.3		5.9		22.7		22.7	Jan. 1956					
WATERSHED	17. LENGTH OF RESERVOIR 0.568				MILES		AV. WIDTH OF RESERVOIR .069				MILES			
	18. TOTAL DRAINAGE AREA 1.200				SQ. MI.		22. MEAN ANNUAL PRECIPITATION 58				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 1.191				SQ. MI.		23. MEAN ANNUAL RUNOFF				INCHES			
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF				AC.-FT.	
	21. MAX. ELEV.			MIN. ELEV. 730			25. ANNUAL TEMP: MEAN 62°					RANGE 57-65°		
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.V. RATIO, AC.-FT. PER ACRES ² sq. mi.						
	Oct. 1954	-	-	Range	12 Ranges	25.6 (5.9)	281.1 (22.7)	234.2 (18.9)						
	March 1962	7.4	7.4	Range	21 Ranges	25.6 (4.9)	276.8 (19.4)	230.7 (16.2)						
	Nov. 1964	2.7	10.1	Range	21 Ranges	25.6 (4.5)	272.0 (17.0)	226.7 (14.2)						
	April 1969	4.5	14.6	Range	21 Ranges	25.6 (4.2)	267.0 (15.5)							
SURVEY DATA	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						
SURVEY DATA	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							
	March 1962	4.3 (3.3)	.58 (.45)	.49 (.38)	4.3 (3.3)	.58 (.45)	.49 (.38)							
	Nov. 1964	4.8 (2.4)	1.78 (.89)	1.49 (.75)	9.1 (5.7)	.90 (.56)	.76 (.47)							
	April 1969	5.0 (1.5)	1.11 (.33)	.93 (.28)	14.1 (7.2)	.97 (.49)	.81 (.41)							
SURVEY DATA	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							
	March 1962	68.6 1/	732 (568)	732 (568)	.21 (1.98)	1.53 (14.54)								
	Nov. 1964				.32 (2.47)	3.24 (25.11)								
	April 1969	66.2 3/	1341 (404)	1168 (591)	.35 (3.16)	5.02 (31.72)								

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND, ABOVE, CREST ELEVATION																
	26.4	24.4	20.7	16.9	14.4	10.4	6.4	2.4									
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION																
March 1962	4.4	15.6	56.3	23.7	0	0	0	0									
Nov. 1964	3.0	13.8	45.9	23.4	7.1	3.7	2.2	0.9									
April 1969	3.0	16.2	31.4	18.7	12.7	12.5	4.3	1.2									

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

Note: Numbers in parenthesis pertain to conservation pool only.

1/ Average of 9 samples.

2/ Original survey was not detailed enough to determine sediment deposition above elevation 110. It was assumed that none occurred.

3/ Average of 10 samples. Assumed to represent total sediment deposits to date.

48. AGENCY MAKING SURVEY SCS and ARS

49. AGENCY SUPPLYING DATA SCS

50. DATE Dec. 1969