

RESERVOIR SEDIMENT

Structure No. 2

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

DATA SUMMARY

North Fork Broad River Watershed

SCS-34 Rev. 6-66

NAME OF RESERVOIR

8-3a

DATA SHEET NO.

DAM	1. OWNER <b>Private</b>			2. STREAM <b>Denman's Creek</b>			3. STATE <b>Georgia</b>					
	4. SEC. <b>TWP. RANGE</b>			5. NEAREST P. O. <b>Toccoa</b>			6. COUNTY <b>Stephens</b>					
	7. LAT. <b>83° 21'</b> " LONG. <b>34° 34'</b> "			8. TOP OF DAM ELEVATION <b>876.13</b>			9. SPILLWAY CREST ELEV. <b>872.13</b>					
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		<b>872.13</b>		<b>13.91 1/</b>		<b>178.0 1/</b>		<b>198.0 1/</b>		<b>1/1/56</b>	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION											
	g. INACTIVE		<b>852.13</b>		<b>3.95 1/</b>		<b>20.0 1/</b>		<b>20.0 1/</b>		<b>1/1/56</b>	
WATERSHED	17. LENGTH OF RESERVOIR <b>0.23</b> MILES				AV. WIDTH OF RESERVOIR <b>0.11</b> MILES							
	18. TOTAL DRAINAGE AREA <b>0.96</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>58 (88)</b> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <b>0.94</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>21.4 (14)</b> INCHES							
	20. LENGTH <b>1.40</b> MILES		AV. WIDTH <b>0.53</b> MILES		24. MEAN ANNUAL RUNOFF <b>1096</b> AC.-FT.							
	21. MAX. ELEV. <b>1360</b>		MIN. ELEV. <b>842</b>		25. ANNUAL TEMP. MEAN <b>62</b> RANGE							
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/I. RATIO, AC.-FT. PER AC.-FT.	
	1/1/1956		-	-	-	-	13.91 (3.95)		198.0 (20.0)		0.181	
	6/3/1959		3.4	3.4	Range (D)	4	13.91 (3.95)		196.2 (18.4)		0.179	
	4/7/1970		10.8	14.2	Contour Mod. Prism.		13.91 (3.74)		192.8 (15.0)		0.176	
	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		
	6/3/1959		1.80 (1.60)	0.529 (0.470)	0.563 (0.500)	1.80 (1.60)		0.529 (0.470)		0.563 (0.500)		
4/7/1970		3.40 (3.40)	0.315 (0.315)	0.335 (0.335)	5.20 (5.00)		0.366 (0.352)		0.389 (0.374)			
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				
6/3/1959		55.1	676 (600)	676 (600)	0.27 (2.35)	0.91 (8.00)						
4/7/1970			402 (402)	467 (449)	0.18 (1.76)	2.63 (25.00)						

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: 1.6% cropland, 3.0% Pasture  
 95.0% Woodland, 0.4% Miscellaneous

48. AGENCY MAKING SURVEY      Soil Conservation Service  
 49. AGENCY SUPPLYING DATA      Soil Conservation Service  
 50. DATE      June 1970