

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Cartecay River No. 7

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

12-9

DATA SHEET NO.

L.I.M.	1. OWNER A. D. Little				2. STREAM Tickanetley Creek		3. STATE Georgia								
	4. SEC. TWP. RANGE		5. NEAREST P.O. Ellijay, GA		6. COUNTY Gilmer										
	7. LAT. 34° 37' 30" LONG. 84° 14' 2"				8. TOP OF DAM ELEVATION 2094.5		9. SPILLWAY CREST ELEV. 2090.8								
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		2090.8		25.9		557.2		611.4		9/23/65				
	b. MULTIPLE USE														
	c. POWER														
	d. WATER SUPPLY														
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN				
	f. CONSERVATION														
	g. INACTIVE		2056.0		6.4		54.2		54.2		9/23/65				
17. LENGTH OF RESERVOIR				0.52		MILES		AV. WIDTH OF RESERVOIR		0.08		MILES			
WATERSHED	18. TOTAL DRAINAGE AREA				3.72		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 62.48 (30) INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA				3.68		SQ. MI.		23. MEAN ANNUAL RUNOFF 29.07 (40) INCHES						
	20. LENGTH		2.5		MILES		AV. WIDTH		1.49		MILES		24. MEAN ANNUAL RUNOFF 5767 AC.-FT.		
	21. MAX. ELEV.		3600		MIN. ELEV.		2035		25. ANNUAL TEMP.: MEAN 60° F RANGE 0° - 90° F						
	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.
9/23/65		-		-						(6.4) 25.9		(54.2) 611.4		(0.009) 0.106	
6/15/78		12.73		12.73		Range-Contour (D)		23 R 5' CI		(6.2) 25.9		(49.3) 605.8		(0.009) 0.105	
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			
6/15/78		69.4		6381		8300		76577		6381		76577			
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			
6/15/78		(4.90) 5.60		(0.39) 0.44		(0.10) 0.12		(4.90) 5.60		(0.39) 0.44		(0.10) 0.12			
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			
6/15/78		33 (10)		(74.6) 85.9		(74.6) 85.9		(.710) 0.072		(9.0) 0.92		39 39			

SURVEY DATA

CREST 5.8 10.8 15.8 20.8 25.8 30.8 34.8 40.8 45.8 50.8

26. DATE OF SURVEY	43. TO DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION TO											
	5.8	10.8	15.8	20.8	25.8	30.8	34.8	40.8	45.8	50.8	54.7	
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
6/15/78	0	0	0	0	1	3	8	35	26	19	8	

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														
6/15/78	4	16	25	42	9	4									

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.
1966			5571				
1967			5367				
1968			6397				
1969			5243				
1970			4486				
1971			6039				
1972			6358				
1973			8031				
1974			8300				
1975			6249				
1976			7976				
1977			6560				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
Original Capacity 1965			2056	6.3	54.2	2080	19.9	357.4
2090.8	25.9	611.4	2055	6.1	48.0	2075	16.9	265.3
2090	25.5	590.8	2050	3.9	23.3	2070	14.0	188.0
2085	22.9	496.9	2045	2.3	7.9	2065	10.8	126.1
2080	19.9	363.0	2040	0.7	0.9	2060	8.4	78.2
2075	16.9	270.9	Capacity 1978			2055	5.7	43.3
2070	14.0	193.7	2090.8	25.9	605.8	2050	3.6	20.2
2065	10.8	131.7	2090	25.5	585.2	2045	1.9	6.4
2060	8.4	83.6	2085	22.9	464.3	2040	0.5	0.5

47. REMARKS AND REFERENCES

Numbers in parentheses refer to sediment pool only.
 Land Use in Watershed: 100% forestland.
 Geology: Fine grained biotite gneiss with interbedded mica schist and quartz.

Summary report available.

48. AGENCY MAKING SURVEY Soil Conservation Service
 49. AGENCY SUPPLYING DATA Soil Conservation Service
 50. DATE 6/15/78