

RESERVOIR SEDIMENTATION
DATA SUMMARY

Kanuga Lake

20-25

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Episcopal Church			2. RIVER Little Mud Creek			3. STATE North Carolina									
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Hendersonville			6. COUNTY Henderson									
	7. STREAM BED ELEV. -			8. TOP OF DAM ELEV. -			9. SPILLWAY CREST ELEV. -									
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										1908					
	b. POWER										16. DATE NORMAL OPER. BEGAN					
	c. WATER SUPPLY										1908					
	d. IRRIGATION															
	e. CONSERVATION				26.0		246		246							
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.42				MILES		AV. WIDTH OF RESERVOIR 0.097				MILES					
	18. TOTAL DRAINAGE AREA 1.54				SQ. MI.		22. MEAN ANNUAL PRECIPITATION 59				INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 1.50				SQ. MI.		23. MEAN ANNUAL RUNOFF 25.01(16) 2/				INCHES					
	20. LENGTH 2.28		MILES		AV. WIDTH 0.68		MILES		24. MEAN ANNUAL RUNOFF 2054				AC.-FT.			
	21. MAX. ELEV. 3000 +			MIN. ELEV. 2280 1/			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.	
	1908		--		--		--		--		26.0 3/		246 3/		160	
	10/17/56		48		48		Range (D)		6		24.2		190		123	
	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			
	10/17/56		33-72													
	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		d. TOTAL TO DATE		e. AV. ANNUAL		c. PER SQ. MI.-YEAR			
	10/17/56		56.0 (56.5) 4/		1.17 (1.18)		0.780 (0.787)		56.0 (56.5)		1.17 (1.18)		0.780 (0.787)			
	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				
10/17/56		43.1(2)		732 (739)		732 (739)		0.475		22.8						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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/ Interpolated from USGS Topographic Quadrangle.
 2/ At gage on Mud Creek below Hendersonville, N. C.
 3/ Determined during 1956 survey.
 4/ Above-crest deposits within original flow line.

48. AGENCY SUPPLYING DATA Soil Conservation Service
 Raleigh, North Carolina

49. DATE 9/20/61