

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Greensboro (Lake Brandt)

NAME OF RESERVOIR

6-3

DATA SHEET NO.

B-10

DAM	1. OWNER City of Greensboro			2. RIVER Reedy Fork			3. STATE North Carolina									
	4. SEC. TWP. RANGE			5. NEAREST TOWN 9 Mi. N. Greensboro			6. COUNTY Guilford									
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 736									
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										Feb. 1923					
	b. POWER															
	c. WATER SUPPLY		736		450		2,870		2,870		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 2.27 MILES				AV. WIDTH OF RESERVOIR 0.28 MILES											
	18. TOTAL DRAINAGE AREA 74.1 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 46.78 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 73.4 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF		AG-FT.							
	21. MAX. ELEV.		MIN. ELEV.		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.	
	Feb. 1923		-		-		-		-		450		2,870		38.7	
	Aug. 1934		11.5		11.5		Contour Detailed		2 ft.		450		2,610		35.2	
	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		d. MEAN ANNUAL		b. TOTAL TO DATE			
	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		b. AV. ANNUAL		c. PER SQ. MI.-YEAR			
	Aug. 1934		260		22.6		0.308		260		22.6		0.308			
	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		
Aug. 1934		60*		402		402		0.79		9.06						

\* Assumed

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 Eakin, H. M. Silting of reservoirs. U. S. Dept. Agr. Tech. Bul. 524. Rev. by C. B. Brown, Washington, U. S. Govt. Printing Office, 1939  Region 2, Soil Conservation Service U. S. Department of Agriculture															
48. AGENCY SUPPLYING DATA Spartanburg, South Carolina												49. DATE <u>October 1950</u>			