

RESERVOIR SEDIMENTATION
DATA SUMMARY

Burlington Municipal Reservoir

NAME OF RESERVOIR

6 - 9

DATA SHEET NO.

DAM	1. OWNER City of Burlington			2. RIVER Stony Creek			3. STATE North Carolina				
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Burlington 3 Mi. NE			6. COUNTY Alamance				
	7. STREAM BED ELEV. 26 *			8. TOP OF DAM ELEV. 62 *			9. SPILLWAY CREST ELEV. 57 *				
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					June 1928					
	b. POWER										
	c. WATER SUPPLY	57	137	1,488	1,488	16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION										
	e. CONSERVATION					June 1928					
	f. INACTIVE										
WATERSHED	17. LENGTH OF RESERVOIR 3.66 MILES			AV. WIDTH OF RESERVOIR 0.03 MILES							
	18. TOTAL DRAINAGE AREA 105.2 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 46.74 (26) INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 105 SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES				
	20. LENGTH 13.4 MILES		AV. WIDTH 9 MILES		24. MEAN ANNUAL RUNOFF		AC.-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.			
	June 1928	-	-	-	-	137	1,488	14.1			
	May 1938	10.0	10.0	Range detailed	57	136	1,325	12.6			
	Sept. 1949	11.3	21.3	"	57	132	1,202	11.4			
	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 SEDIMENT DEPOSITS 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		
	May 1938	163	16.3	0.155	163		16.3		0.155		
Sept. 1949	123	10.9	0.104	286		13.4		0.128			
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
May 1938	63 (11)		213		1.09		10.95				
Sept. 1949			143		0.90		19.22				

* 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

Connaughton, Mark P., and Hough, Jack L., Advance Report on the Sedimentation Survey of Burlington Reservoir, Burlington, N. C., U. S. Soil Conservation Service, SCS-SS-28, 25 pp. illus., processed, Washington, D. C. December 1938.

Region 2, Soil Conservation Service
 U. S. Dept. of Agriculture
 Spartanburg, South Carolina

48. AGENCY SUPPLYING DATA

49. DATE Sept. 27, 1950