

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Lexington (N. C.)

NAME OF RESERVOIR

8-12

7 - 15

DATA SHEET NO.

DAM	1. OWNER City of Lexington			2. RIVER Leonards Creek			3. STATE North Carolina			
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Lexington			6. COUNTY Davidson			
	7. STREAM BED ELEV. -			8. TOP OF DAM ELEV. -			9. SPILLWAY CREST ELEV. 680.94			
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					Aug. 1935				
	b. POWER									
	c. WATER SUPPLY	680.94	56.4	462	462	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION									
	f. INACTIVE					Aug. 1935				
17. LENGTH OF RESERVOIR		1.2	MILES	AV. WIDTH OF RESERVOIR		0.1	MILES			
WATERSHED	18. TOTAL DRAINAGE AREA		6.75	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		47	INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		6.66	SQ. MI.	23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH	7	MILES	AV. WIDTH	1.1	MILES	24. MEAN ANNUAL RUNOFF		AC.-FT.	
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION				Humid	
	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 <sub>w</sub> RATIO AC.-FT. PER SQ. MI.		
Aug. 1935	-	-	-	-	56.4	462	68.4			
April 1940	4.6	4.6	Range detailed	20	55	441	65.3			
May 1951	11.1	15.7	"	20	53	419	62.1			
SURVEY DATA	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AG.-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			
	April 1940	21.2	4.61	0.692	21.2	4.61	0.692			
	May 1951	22.1	1.99	0.299	43.3	2.76	0.414			
	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		
	April 1940	45.46 (4)	685	685	1.00	4.59				
	May 1951	45.46	296	410	0.60	9.37				

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

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

48. AGENCY SUPPLYING DATA

49. DATE June 1951