

3-12

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Concord

NAME OF RESERVOIR

7-7

DATA SHEET NO.

DAM	1. OWNER City of Concord			2. RIVER Chambers & Rose Br.			3. STATE North Carolina									
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN 3 Mi. SE Kannapolis			6. COUNTY Cabarrus									
	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										March 1925					
	b. POWER															
	c. WATER SUPPLY				101		1,201		1,201		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR .83 1/2				MILES				AV. WIDTH OF RESERVOIR 0.1				MILES			
	18. TOTAL DRAINAGE AREA 4.7				SQ. MI.				22. MEAN ANNUAL PRECIPITATION 48				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 4.54				SQ. MI.				23. MEAN ANNUAL RUNOFF				INCHES			
	20. LENGTH				MILES				AV. WIDTH				MILES			
	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.	
	March 1925		-		-		-		-		101		1,201		256	
	May 1935		10.2		10.2		Range Detailed		18		101		1,122		239	
	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		e. 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		e. AV. ANNUAL		f. PER SQ. MI.- YEAR			
	May 1935		79		7.75		1.71		79		7.75		1.71			
	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 1935								0.65		6.58						

1/ Two arms in reservoir

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. Agri. Tech. Bull. 524.
 Rev. by C. B. Brown, 168 pp., illus. Washington, U. S. Gov. Print. Off. 1939.

Region 2, Soil Conservation Service
 U. S. Department of Agriculture

48. AGENCY SUPPLYING DATA Spartanburg, South Carolina 49. DATE Sept. 29, 1950