

RESERVOIR SEDIMENTATION
DATA SUMMARY

University Lake

NAME OF RESERVOIR

6-7

DATA SHEET NO.

DAM	1. OWNER University of N. Carolina			2. RIVER Morgan Creek		3. STATE North Carolina					
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN 2 Mi. SW Chapel Hill		6. COUNTY Orange					
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.		9. SPILLWAY CREST ELEV. 347.0'					
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 1932					
	b. POWER										
	c. WATER SUPPLY	347	219	1,915	1,915	16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION										
	e. CONSERVATION										
	f. INACTIVE										
WATERSHED	17. LENGTH OF RESERVOIR			MILES	AV. WIDTH OF RESERVOIR			MILES			
	18. TOTAL DRAINAGE AREA			30.6	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			47.10	INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA			30.3	SQ. MI.	23. MEAN ANNUAL RUNOFF				INCHES	
	20. LENGTH		MILES	AV. WIDTH		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 1932	-	-	-	-	219	1,915	62.6			
	April 1935	2.9	2.9	Range Detailed	18	219	1,851	60.5			
	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				
	April 1935	64	22.07	0.728	64	22.07	0.728				
	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	c. AV. ANNUAL	d. TOT. TO DATE	e. PERIOD	f. TOT. TO DATE			
April 1935				1.15	3.34						

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 Bass, T. C. and Martin, I. L. Erosion and related land use conditions on the University Lake watershed. Chapel Hill, N.C., U. S. Soil Conserv. Serv. watershed and conservation surveys, 1939. Eakin, H.M. Silting of reservoirs. U. S. Dept. Agr. Tech. Bul. 524. Rev. by C. B. Brown, 168 pp., illus. Washington, D. C. U. S. Govt. print. off. 1939. Region 2, Soil Conservation Service U. S. Department of Agriculture																
48. AGENCY SUPPLYING DATA Spartanburg, South Carolina												49. DATE October 1950				