

B-10

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Apex
NAME OF RESERVOIR

6-1

DATA SHEET NO.

DAM	1. OWNER City of Apex			2. RIVER Swift Creek			3. STATE North Carolina											
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN 2 Mi. E. Apex			6. COUNTY Wake											
	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										1925							
	b. POWER																	
	c. WATER SUPPLY				35		106		106		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					4.0		SQ. MI.		22. MEAN ANNUAL PRECIPITATION					INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA					4.0		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.			
	1925		-		-		-		-		35		106		26.5			
	June 1941		16		16		Range Recon.		6		35		94		23.5			
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET				36. WATER INFL. TO DATE AQ-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					
	June 1941		12		0.75		0.19		12		0.75		0.19					
	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				
June 1941								0.71		11.3								

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. Department of Agriculture

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