

RESERVOIR SEDIMENTATION
DATA SUMMARY

Osceola Lake

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Stock Company			2. RIVER Shepard Creek		3. STATE North Carolina		
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Hendersonville		6. COUNTY Henderson		
	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					1923		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION			39.6	329	329		
	f. INACTIVE						1923	
17. LENGTH OF RESERVOIR 0.44 MILES				AV. WIDTH OF RESERVOIR 0.14 MILES				
WATERSHED	18. TOTAL DRAINAGE AREA 4.45 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 59 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 4.39 SQ. MI.			23. MEAN ANNUAL RUNOFF 25.01 (16) 2/ INCHES				
	20. LENGTH 3.69 MILES		AV. WIDTH 1.21 MILES		24. MEAN ANNUAL RUNOFF 5936 AC.-FT.			
	21. MAX. ELEV. 2700 +		MIN. ELEV. 2120 1/		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.
	1923	--	--	--	--	39.6 3/	329 3/	74
	10/15/56	33	33	Range (D)	6	35.0	267	60
	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	
	10/15/56		33 - 72					
	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
	10/15/56		62.0 (67.2) 4/	1.88 (2.04)	0.428 (0.465)	62.0 (67.2)	1.88 (2.04)	0.428 (0.465)
	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	
10/15/56		45.7(3)	426 (463)	426 (463)	0.571	18.8		

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

1/ Interpolated from USGS Topographic Quadrangle.
 2/ At gage on Mud Creek below Hendersonville, N. C.
 3/ Determined during 1956 survey.
 4/ Above-crest deposits within original flow line.

48. AGENCY SUPPLYING DATA Soil Conservation Service
 Raleigh, North Carolina

49. DATE 9/20/61