

RESERVOIR SEDIMENTATION
DATA SUMMARY

Staunton Reservoir

NAME OF RESERVOIR

5 - 5a

DATA SHEET NO.

DAM	1. OWNER <u>City of Staunton</u>			2. RIVER <u>North River</u>			3. STATE <u>Virginia</u>																	
	4. SEC. <u>TWP.</u> <u>RANGE</u>			5. NEAREST TOWN <u>Staunton</u> <u>15 mi. NE</u>			6. COUNTY <u>Augusta</u>																	
	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										Dec. 1925													
	b. POWER																							
	c. WATER SUPPLY		1.913		29		385		385		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				25				SQ. MI.				22. MEAN ANNUAL PRECIPITATION				INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA				25				SQ. MI.				23. MEAN ANNUAL RUNOFF				INCHES							
	20. LENGTH				MILES				AV. WIDTH				MILES				24. MEAN ANNUAL RUNOFF				AQ.-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.									
	Dec. 1925		-		-		-		-		29		385		15.4									
	Jan. 1940		14		14		Recon.		-		29		373		14.9									
	July 1957		17.5		31.5		Range		8		26.9		350		14.0									
	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		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											
	Jan. 1940		12		0.857		0.034		12		0.857		0.034											
July 1957		23.0		1.314		0.053		35		1.111		0.044												
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										
Jan. 1940								0.22		3.12														
July 1957								0.29		9.09														

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

Soil Conservation Service

48. AGENCY SUPPLYING DATA Upper Darby, Pennsylvania

49. DATE October 1950