

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

South River, Site 26

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

5-12

DATA SHEET NO.

DAM	1. OWNER Shenandoah Valley S.C.D.			2. STREAM Inch Branch			3. STATE Virginia									
	4. SEC. TWP. RANGE			5. NEAREST P. O. Waynesboro			6. COUNTY Augusta									
	7. LAT. " " " " " " " "			8. TOP OF DAM ELEVATION 1467.0			9. SPILLWAY CREST ELEV. 1460.5									
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-FEET		14. GROSS STORAGE, ACRE-FEET		15. DATE STORAGE BEGAN					
	a. FLOOD CONTROL		1460.5		32.0		562.0		610.4		May 1956					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										May 1956					
	f. CONSERVATION															
g. INACTIVE		1432.0		5.0		48.4		48.4								
WATERSHED	17. LENGTH OF RESERVOIR				0.18 MILES				AV. WIDTH OF RESERVOIR				2.77 MILES			
	18. TOTAL DRAINAGE AREA				2.70 SQ. MI.				22. MEAN ANNUAL PRECIPITATION				38 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				2.70 SQ. MI.				23. MEAN ANNUAL RUNOFF				15 INCHES			
	20. LENGTH		2.3 MILES		AV. WIDTH		1.0 MILES		24. MEAN ANNUAL RUNOFF		2160 AC.-FT.					
	21. MAX. ELEV.				MIN. ELEV.				1415.0				25. ANNUAL TEMP: MEAN RANGE-25° to 106°			
	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/I. RATIO, AC.-FT. PER AC.-FT.	
May 1956		-		-		-		-		32.0 ^{1/} 5.0 ^{2/}		610.4 ^{1/} 48.4 ^{2/}		.28		
Nov. 1970		14.5		14.5		Range		12 (D)		31.5 ^{1/}		607.0 ^{1/}		.28		
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		a. MEAN ANNUAL		b. TOTAL TO DATE				
26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, 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				
Nov. 1970		3.4		0.23		0.087		3.4		0.23		0.087				
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. ANN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE		
Nov. 1970		60 ^{3/}		110.		110.		0.04		0.55						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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
	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														
<p>1/ Design high water elevation</p> <p>2/ Sediment pool</p> <p>3/ Estimated</p> <p>Land use in watershed: 98% woods, 2% pasture. Geology: sandstone and shale.</p>														
48. AGENCY MAKING SURVEY				Virginia State Office, Soil Conservation Service										
49. AGENCY SUPPLYING DATA				Soil Conservation Service										
													50. DATE	6/25/71