

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Cherrystone Site #2

NAME OF RESERVOIR

6-13

DATA SHEET NO.

DAM	1. OWNER <u>Pittsylvania SWCD</u>			2. STREAM <u>Roaring Fork</u>			3. STATE <u>Virginia</u>													
	4. SEC. <u>TWP.</u> RANGE			5. NEAREST P.O. <u>Chatham</u>			6. COUNTY <u>Pittsylvania</u>													
	7. LAT. <u>36° 0' 50"</u> LONG. <u>79° 25' 40"</u>			8. TOP OF DAM ELEVATION <u>706.7</u>			9. SPILLWAY CREST ELEV. <u>700.1</u>													
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		700.1		70.0		1000.0		1230.0		10/1/69									
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN									
	c. POWER																			
	d. WATER SUPPLY																			
	e. IRRIGATION																			
	f. CONSERVATION																			
g. INACTIVE		674.5		16.5		230.0		230.0		10/20/69										
WATERSHED	17. LENGTH OF RESERVOIR				0.72		MILES		AV. WIDTH OF RESERVOIR				0.15		MILES					
	18. TOTAL DRAINAGE AREA				5.70		SQ. MI.		22. MEAN ANNUAL PRECIPITATION				42.0		INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA				5.6		SQ. MI.		23. MEAN ANNUAL RUNOFF				15.0		INCHES					
	20. LENGTH		4.2		MILES		AV. WIDTH		1.4		MILES		24. MEAN ANNUAL RUNOFF				4560		AC.-FT.	
	21. MAX. ELEV.				963.0		MIN. ELEV.		650.0		25. ANNUAL TEMP: MEAN				RANGE					
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/I. RATIO, AC.-FT. PER AC.-FT.					
	10/1/69		-		-		-		-		(16.5)		(230)		0.270					
	2/74		4.4		4.4		Range		15(R)		(16.5)		(228.8)		0.27					
											70.0		1228.8							
	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							
	2/74										4560		20,064							
	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							
	2/74		1.2		0.27		0.05		1.2		0.27		0.05							
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								
2/74		67.93		70.4		70.4		0.02 (0.12)		0.09 (0.51)										

() Sediment pool only

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	-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															
Land use in watershed 65% forest, 30% cropland and pasture, 5% homesites and roads.															
48. AGENCY MAKING SURVEY				State Office - Soil Conservation Service											
49. AGENCY SUPPLYING DATA				Soil Conservation Service		50. DATE <u>March 15, 1974</u>									