

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

South River, Site 3

NAME OF RESERVOIR

5-21

DATA SHEET NO.

DAM	1. OWNER <u>Unknown</u>			2. STREAM <u>Poor Creek</u>			3. STATE <u>Virginia</u>					
	4. SEC. <u>TWP.</u> <u>RANGE</u>			5. NEAREST P.O. <u>Greenville</u>			6. COUNTY <u>Augusta</u>					
7. LAT. <u>37° 58' 49" N</u> LONG. <u>79° 09' 05" W</u>			8. TOP OF DAM ELEVATION <u>1655.5</u>			9. SPILLWAY CREST ELEV. <u>1648.6</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		<u>1648.6</u>		<u>48.0</u>		<u>583.0</u>		<u>621.2</u>		<u>9/18/58</u>	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN	
	f. CONSERVATION											
g. INACTIVE		<u>1624.0</u>		<u>5.4</u>		<u>38.2</u>		<u>38.2</u>		<u>9/58</u>		
17. LENGTH OF RESERVOIR <u>1.341</u> MILES			AV. WIDTH OF RESERVOIR <u>.06</u> MILES									
18. TOTAL DRAINAGE AREA <u>3.12</u> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <u>37.4</u> INCHES									
19. NET SEDIMENT CONTRIBUTING AREA <u>3.05</u> SQ. MI.			23. MEAN ANNUAL RUNOFF <u>12.9</u> INCHES									
20. LENGTH <u>3.48</u> MILES		AV. WIDTH <u>.90</u> MILES		24. MEAN ANNUAL RUNOFF <u>2146</u> AC. FT.								
21. MAX. ELEV. <u>1890</u>		MIN. ELEV. <u>1612</u>		25. ANNUAL TEMP: MEAN <u>54.6°</u> RANGE <u>-13° to 106° F</u>								
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.					
<u>9/18/58</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>48.0</u>	<u>621.2</u>	<u>0.29</u>					
<u>9/13/72</u>	<u>14.0</u>	<u>14.0</u>	<u>Range (D)</u>	<u>30</u>	<u>48.0</u> <u>(5.4)</u>	<u>616.7</u> <u>(33.7)</u>	<u>0.29</u> <u>(0.02)</u>					
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						
<u>9/72</u>	<u>4.5</u>	<u>.32</u>	<u>.11</u>	<u>4.5</u>	<u>.32</u>	<u>.11</u>						
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					
<u>9/72</u>	<u>60*</u>	<u>139.2</u>	<u>139.2</u>	<u>.05</u>	<u>.7</u>							

* Assumed

() 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															
<u>1/</u> Sediment pool only Land use in W/S - Geology - Limestone and dolomite of Conococheague formation (30%) and Chepultepec limestone (70%)															
48. AGENCY MAKING SURVEY				Virginia State Office, Soil Conservation Service											
49. AGENCY SUPPLYING DATA				Soil Conservation Service						50. DATE <u>5/73</u>					