

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

East Fork Falling River, Site 15

SCS-34 Rev. 6-66

NAME OF RESERVOIR

5-16

DATA SHEET NO.

DAM	1. OWNER <u>Unknown</u>			2. STREAM <u>Caldwells Creek</u>			3. STATE <u>Virginia</u>					
	4. SEC. <u>TWP.</u> RANGE			5. NEAREST P.O. <u>Appomattox</u>			6. COUNTY <u>Appomattox</u>					
	7. LAT. <u>37°19'40"</u> LONG. <u>78°50'45"</u>			8. TOP OF DAM ELEVATION <u>717.5</u>			9. SPILLWAY CREST ELEV. <u>-</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>711.5</u>		<u>65.5</u>		<u>729.82</u>		<u>841.82</u>		<u>8/20/56</u>	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION										<u>8/20/56</u>	
	f. CONSERVATION											
	g. INACTIVE <u>1/</u>		<u>692.0</u>		<u>15.8</u>		<u>112.0</u>		<u>112.0</u>			
17. LENGTH OF RESERVOIR <u>0.2/</u> MILES					AV. WIDTH OF RESERVOIR <u>11</u> MILES							
WATERSHED	18. TOTAL DRAINAGE AREA <u>3.64</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>40</u> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <u>3.54</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>10.52</u> INCHES							
	20. LENGTH <u>1.72/</u> MILES		AV. WIDTH <u>2.14</u> MILES		24. MEAN ANNUAL RUNOFF <u>2042.2</u> AC.-FT.							
	21. MAX. ELEV. <u>900'</u>		MIN. ELEV. <u>681'</u>		25. ANNUAL TEMP: MEAN <u>56.5°</u> RANGE <u>2 to 103°</u> F							
	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>8/20/56 4/</u>		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>(15.8)</u>		<u>(112)</u>		<u>.41</u>		
<u>5/71</u>		<u>14.6</u>	<u>14.6</u>	<u>Range</u>	<u>13</u>	<u>65.5 3/</u>		<u>841.82 3/</u>				
						<u>(18.44)</u>		<u>(104.86)</u>				
						<u>61.36 3/</u>		<u>834.68 3/</u>		<u>.41</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			
<u>5/71</u>		<u>38.00</u>										
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>5/71</u>		<u>(7.14)</u>	<u>(.49)</u>	<u>(.14)</u>	<u>(7.14)</u>	<u>(.49)</u>	<u>(.14)</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>5/71</u>		<u>60*</u>	<u>(180.7)</u>	<u>(180.7)</u>	<u>.06</u>	<u>.85</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 <u>2/</u> 2 main branches - .75 mi. & .15 mi. long <u>3/</u> Total reservoir below emergency spillway crest <u>4/</u> Accuracy of original survey may have been less						Land Use - 20% cropland 20% grassland 40% woodland 20% urban Geology - 100% Candler schist									
48. AGENCY MAKING SURVEY Soil Conservation Service, Richmond, Va.															
49. AGENCY SUPPLYING DATA Soil Conservation Service 50. DATE <u>3/3/72</u>															