

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Mountain Run, Site 11

SCS-34 Rev. 6-66

NAME OF RESERVOIR

5-18

DATA SHEET NO.

DAM	1. OWNER Town of Culpeper			2. STREAM Trib. of Mtn. Run			3. STATE Virginia																													
	4. SEC. TWP. RANGE			5. NEAREST P. O. Culpeper			6. COUNTY Culpeper																													
	7. LAT 38° 28' 40" LONG. 78° 2' 30"			8. TOP OF DAM ELEVATION 450.5			9. SPILLWAY CREST ELEV. 445.0 1/																													
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		445.0		155.0		1240.0		1850.7		7/59																									
	b. MULTIPLE USE																																			
	c. POWER																																			
	d. WATER SUPPLY		434.0		75.2		530.7		610.7		16. DATE NORMAL OPER. BEGAN																									
	e. IRRIGATION										7/59																									
	f. CONSERVATION																																			
g. INACTIVE				23.0		80		80																												
17. LENGTH OF RESERVOIR			1.47 2/			MILES			AV. WIDTH OF RESERVOIR			0.17			MILES																					
WATERSHED	18. TOTAL DRAINAGE AREA				5.86				SQ. MI.				22. MEAN ANNUAL PRECIPITATION				41.27				INCHES															
	19. NET SEDIMENT CONTRIBUTING AREA				5.62				SQ. MI.				23. MEAN ANNUAL RUNOFF				12.13				INCHES															
	20. LENGTH				4				MILES				AV. WIDTH				1.46				MILES				24. MEAN ANNUAL RUNOFF				3791				AC.-F.T.			
	21. MAX. ELEV.				820				MIN. ELEV.				412				25. ANNUAL TEMP: MEAN 56° RANGE-20° to 104°F																			
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.																					
	6/59		-		-		-		-		155.0 1/ 75.2 3/		1850.7 1/ 610.7 3/ 1840.1 (600.1)		.49 .49																					
	5/71		11.8		11.8		Range (D)		16		75.2 3/																									
	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																							
	5/71		(10.59)		(.90)		(.16)		(10.59)		(.90)		(.16)																							
	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																								
5/71		60*		208.8		208.8		.05		.57																										

* Assumed

() Combined sediment and water supply pool

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															
<p>1/ Emergency spillway elevation</p> <p>2/ Length of main stem of res. = 1.06 mi - 2nd of right-hand fork = .41 mi.</p> <p>3/ Water supply storage</p> <p>Land use in watershed: 19.4% cropland, 46.2% grassland, 29.9% woods.</p> <p>Geology: Schist and Slate.</p>															
48. AGENCY MAKING SURVEY				Soil Conservation Service, Richmond, Va.											
49. AGENCY SUPPLYING DATA				Soil Conservation Service				50. DATE				2/15/72			