

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Johns Creek Dam #1

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

5 - 23

DATA SHEET NO.

DAM	1. OWNER <u>Natural Bridge SWCD</u>			2. STREAM <u>Johns Creek</u>			3. STATE <u>Virginia</u>									
	4. SEC. - TWP. - RANGE -			5. NEAREST P.O. <u>Maggie</u>			6. COUNTY <u>Craig</u>									
	7. LAT. <u>37° 24' 05"</u> LONG. <u>80° 25' 45"</u>			8. TOP OF DAM ELEVATION <u>1967.0</u>			9. SPILLWAY CREST ELEV. <u>1960.5</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		1960.5		134.0		2823		2972		8/1/67					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN					
	f. CONSERVATION		1923.8		35.88		149		149		8/1/67					
g. INACTIVE																
17. LENGTH OF RESERVOIR <u>0.91</u> MILES			AV. WIDTH OF RESERVOIR <u>0.16</u> MILES													
WATERSHED	18. TOTAL DRAINAGE AREA <u>18.05</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>40</u> INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA <u>17.84</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>18</u> INCHES											
	20. LENGTH <u>8.0</u> MILES		AV. WIDTH <u>2.01</u> MILES		24. MEAN ANNUAL RUNOFF <u>17,327</u> AC.-FT.											
	21. MAX. ELEV. <u>4054</u>		MIN. ELEV. <u>1908</u>		25. ANNUAL TEMP.: MEAN <u>42</u> RANGE <u>-15 +85</u>											
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.	
	5/25/77		9.84		9.84		Range		Range		(35.88)		(135.89)		(.0078)	
	5/25/77		9.84		9.84		Range		Range		134.0		2970.79		.1714	
	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			
	5/25/77		42		-		-		-		-		-			
	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			
	5/25/77		(13.11) 1.21		(1.33) 0.12		(0.0737) 0.0066		(13.11) 1.21		(1.33) 0.12		(0.0737) 0.0066			
	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				
5/25/77		67.08 69.35 68.20 avg. used		(109.65) 10.18		(109.65) 10.18		(.893) .0040		(8.80) .041						

(xx) 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

48. AGENCY MAKING SURVEY _____

49. AGENCY SUPPLYING DATA Soil Conservation Service

50. DATE _____