

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Beautiful Run, Site 4

NAME OF RESERVOIR

5-14

DATA SHEET NO.

DAM	1. OWNER Culpeper S.C.D.		2. STREAM Beautiful Run		3. STATE Virginia				
	4. SEC. TWP. RANGE		5. NEAREST P.O. Madison		6. COUNTY Madison				
	7. LAT. 38° 20' " LONG. 78° 15' "		8. TOP OF DAM ELEVATION 465.5		9. SPILLWAY CREST ELEV. 463.7				
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	464.61/	8.6	66.55	84.55				
	b. MULTIPLE USE					6/66			
	c. POWER								
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN			
	e. IRRIGATION								
	f. CONSERVATION								
WATERSHED	17. LENGTH OF RESERVOIR	.18	MILES	AV. WIDTH OF RESERVOIR	0.75	MILES			
	18. TOTAL DRAINAGE AREA	0.48	SQ. MI.	22. MEAN ANNUAL PRECIPITATION	40	INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA	0.47	SQ. MI.	23. MEAN ANNUAL RUNOFF	15	INCHES			
	20. LENGTH	1.1	MILES	AV. WIDTH	.44	MILES			
	21. MAX. ELEV.	609±	MIN. ELEV.	440±	25. ANNUAL TEMP.: MEAN	55°	RANGE -18° to 105°		
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.	
	6/66	-	-	-	-	8.51/	84.55	.22	
	5/71	5.0	5.0	Range	8	8.51/	83.95	.22	
	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	0.60	0.12	0.26	0.60	0.12	0.26		
	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. PERIOD	b. TOT. TO DATE
	5/71	60.0*	336.1	336.1	.14	0.71			

* Assumed

25. 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> / Design high water elevation Land use in watershed: 28% row crops, 30% pasture and 42% woods. Geology - gneiss															
48. AGENCY MAKING SURVEY				Soil Conservation Service, Richmond, Va.											
49. AGENCY SUPPLYING DATA				Soil Conservation Service											
														50. DATE June 1971	