

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Wilde Lake
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

5-13

DATA SHEET NO.

DAM	1. OWNER Columbia, Maryland			2. STREAM Trib. Lit. Patuxent			3. STATE Maryland									
	4. SEC. TWP. RANGE			5. NEAREST P. O. Columbia			6. COUNTY Howard									
	7. LAT. " LONG. " "			8. TOP OF DAM ELEVATION 349			9. SPILLWAY CREST ELEV. 335									
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										16. DATE NORMAL OPER. BEGAN					
	b. MULTIPLE USE <u>1/</u>		335.0		22.4		196.97		196.97							
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION										9/66					
	f. CONSERVATION		335.0		22.4		196.97		196.97							
g. INACTIVE																
WATERSHED	17. LENGTH OF RESERVOIR				0.45 MILES		AV. WIDTH OF RESERVOIR				.08 MILES					
	18. TOTAL DRAINAGE AREA				1.88 SQ. MI.		22. MEAN ANNUAL PRECIPITATION				42 (25 yr) INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA				1.85 SQ. MI.		23. MEAN ANNUAL RUNOFF				13.98 (35 yr) INCHES					
	20. LENGTH		2.0 MILES		AV. WIDTH		.94 MILES		24. MEAN ANNUAL RUNOFF				1402 AC.-FT.			
	21. MAX. ELEV.			460			MIN. ELEV.			316.0			25. ANNUAL TEMP.: MEAN RANGE			
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.	
	9/66						(D) Range		23 R		22.44		196.97		0.140	
	8/68		1.9		1.9		Contour		1' to 6' CI		22.44		170.99 <u>2/</u>		0.122	
	8/69		1.0		2.9						22.44		163.72 <u>2/</u>		0.117	
	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			
	8/68		43.71 in		1459		1522		2773		1459		2773			
	8/69		30.86 in.		1030		1030		1030		1030		3804			
	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			
8/68		25.98		13.67		7.39		30.32 ^{3/}		15.96 ^{3/}		8.63 ^{3/}				
8/69		7.27		7.27		3.93		37.59 ^{3/}		12.96 ^{3/}		7.01 ^{3/}				
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		
8/68		60*		11,278.0 ^{3/}		11,278.0 ^{3/}		6.9 ^{2/} 8.1 ^{2/} 6.6 ^{2/}		13.19 ^{2/} 15.39 ^{2/} 16.88 ^{2/} 19.08 ^{2/}		10513		10513		
8/69		60*		5,133.0		9,240.5						6786		9501		

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION											
	335-	333-	331-	329-	327-	325-	323-	321-	319-	317-		
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
8/68 ^{2/}		1.7	4.4	10.1	28.4	20.9	14.5	11.2	7.2	1.4	0.2	
8/69 ^{2/}		1.2	3.9	14.4	29.7	19.8	14.0	10.2	5.5	1.1	0.1	

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
Original Capacity 9-1966			Capacity 8-1968 ^{2/}			Capacity 8-1969 ^{2/}		
335.0	22.445	196.97	335.0	22.445	170.99	335.0	22.445	163.72
329.0	20.552	68.07	329.0		46.30	329.0		41.33
325.0	7.362	17.81	325.0		8.86	325.0		7.52
323.0	3.687	7.23	323.0		2.05	323.0		1.60
321.0	1.586	2.32	321.0		0.05	321.0		0.08
319.0	.415	0.42	319.0		0.0	319.0		0.0
315.0	0	0.0	315.0	0	0.0	315.0	0	0.0

47. REMARKS AND REFERENCES

1/ Recreation Lake: One (O-Gee Weir Type) ungated outlet for all purposes.

2/ Actual remaining storage. Does not include 4.34 Ac Ft dredged.

3/ Includes 4.34 Ac Ft dredged in early spring of 1968.

4/ Runoff taken from gage history. Considered conservative by hydrologist due to the recent urbanization of this area with corresponding increase in runoff.

* Assumed

48. AGENCY MAKING SURVEY Soil Conservation Service, College Park, Md.

49. AGENCY SUPPLYING DATA Soil Conservation Service

50. DATE 11/19/69