

RESERVOIR SEDIMENTATION

Burnt Mills

5-3

DATA SUMMARY Sanitary Commission

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Washington Surburban /			2. RIVER NW Br., Anacostia R.		3. STATE Maryland		
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Silver Spring <sup>3 MI. NE</sup>		6. COUNTY Montgomery		
	7. STREAM BED ELEV. 207.0			8. TOP OF DAM ELEV. 239		9. SPILLWAY CREST ELEV. 234.0 1/		
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL					May 1930		
	b. POWER							
	c. WATER SUPPLY	234	20	181	181	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION							
f. INACTIVE								
17. LENGTH OF RESERVOIR		1.2		MILES	AV. WIDTH OF RESERVOIR		.02	
18. TOTAL DRAINAGE AREA		27.0		SQ. MI.	22. MEAN ANNUAL PRECIPITATION		38	
19. NET SEDIMENT CONTRIBUTING AREA		26.97		SQ. MI.	23. MEAN ANNUAL RUNOFF			
20. LENGTH		8.6	MILES	AV. WIDTH	3.6	MILES	24. MEAN ANNUAL RUNOFF	
21. MAX. ELEV.		550		MIN. ELEV.	234		25. CLIMATIC CLASSIFICATION	
						Humid		
WATERSHED	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	
	May 1930	-	-	-	-	20	181	
	March 1938	7.8	7.8	Range detailed	25	19.6	95	
SURVEY DATA	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE ACRE- FT.	
		a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL		d. MEAN ANNUAL	e. TOTAL TO DATE	
	March 1938		6.7				6.7	
SURVEY DATA	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE- FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.			
		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.- YEAR	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.- YEAR	
	March 1938	86.0	11.0	0.408	86.0	11.0	0.408	
SURVEY DATA	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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE
	March 1938	60 *	533	533	6.08	47.51		

\* Assumed

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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  
1/ With 4 foot flashboards.  
 Barnes, F. F. and Brown, C. B. Advance report on the sedimentation survey of Burnt Mills reservoir, Silver Spring, Maryland. U. S. Soil Conservation Service, SCS-SS-31, Washington, D. C., Jan. 1939.

Region 1, Soil Conservation Service  
 U. S. Dept. of Agriculture

48. AGENCY SUPPLYING DATA Upper Darby, Pennsylvania 49. DATE October 1950