

APPENDIX—Table 1

1990 LAND COVER CONDITIONS

Subwatershed	Size of Subwatershed (Acres)	1990 % ImperVIOUSness	1990 Existing + Pipeline % ImperVIOUSness	% ImperVIOUSness from Developable Land Under 1981 Zoning	Existing + Pipeline + Developable % ImperVIOUSness Under 1981 Master Planned Zoning	% ImperVIOUSness from Master Planned Roads ¹	1981 Master Plan Build-out % ImperVIOUSness	Percent of Subwatershed in:		
								Developable Land	Forest Cover	Wetland Cover ²
PAINT BRANCH										
Left Fork	1,400	12.1	12.4	2.2	14.6	N/A	14.6	25.2	19.9	2.6
Right Fork	941	9.6	10.4	4.4	14.8	N/A	14.8	46.9	21.7	3.0
Good Hope	986	9.8	10.4	2.4	12.8	1.7	14.5	30.6	54.4	1.8
Gum Springs	624	15.6	17.5	0.2	17.7	0.6	18.3	3.8	24.6	0.4
Fairland Farms	198	11.8	12.6	2.5	15.1	N/A	15.1	15.0	15.2	1.3
Hollywood Branch	996	24.1	24.3	0.0	24.3	N/A	24.3	0.0	13.6	0.2
West Farm	727	17.9	35.6	16.9	52.5	N/A	52.5	23.8	20.5	0.3
Mainstem	3,828	21.0	21.5	1.1	22.6	0.3	22.9	3.5	29.2	2.3
LITTLE PAINT BRANCH										
Silverwood	1,295	15.1	18.0	6.8	24.8	N/A	24.8	21.2	40.5	0.7
Galway	622	24.5	26.4	0.5	26.9	N/A	26.9	1.2	15.8	0.5
Tanglewood	631	23.5	23.8	8.1	31.9	1.9	33.8	24.4	31.5	0.4
Greencastle	901	29.7	32.6	5.7	38.3	0.6	38.9	14.6	20.1	1.8
NORTHWEST BRANCH										
Hampshire Greens	709	5.3	8.7	0.5	9.2	N/A	9.2	7.1	34.0	1.3
Mainstem	5,147	16.0	16.5	0.3	16.8	0.5	17.3	1.5	21.5	1.5
Johnson Rd	498	8.0	11.5	1.8	13.3	0.3	13.6	25.7	32.3	0.4

Table 1 (Con'd)

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								Developable Land	Forest Cover	Wetland Cover ²
Bryants Nursery Run	1,030	7.9	11.2	1.7	12.9	2.1	15.0	23.4	39.4	0.2
SLIGO CREEK	626	31.3	N/C	N/C	N/C	N/A	N/C	N/C	10.5	0.0
PATUXENT										
Belle Cote	723	9.5	9.5	2.7	12.2	N/A	12.2	44.8	47.7	0.8
Burtonsville Park	442	4.5	4.5	2.0	6.5	N/A	6.5	49.2	45.0	0.1
Spencerville Rd	449	5.6	6.5	1.3	7.8	N/A	7.8	26.7	55.2	3.5
Dustin Rd	425	8.4	8.4	1.3	9.7	N/A	9.7	36.3	41.7	2.2
Main East	293	5.3	5.3	0.6	5.9	N/A	5.9	13.6	61.8	3.2
Rocky Gorge	963	7.7	10.2	1.4	11.6	N/A	11.6	32.6	42.2	1.9
Millgrove	1,161	6.8	7.6	0.9	8.5	N/A	8.5	24.5	32.6	2.3
Main West	190	3.1	3.4	1.0	4.4	N/A	4.4	22.3	63.7	2.9

Source: Data based on GIS analysis of 1990 conditions

N/A - Not applicable N/C - Not calculated

1. Master planned roads include only Briggs Chaney Road realignment at MD 650, MD 28-MD 198 connector, and a 6-lane Intercounty Connector.
2. Wetlands coverage is based on MD DNR non-tidal wetlands data for 1988.

APPENDIX—FIGURE 1

ASSUMPTIONS USED IN CALCULATING SUBWATERSHED IMPERVIOUSNESS FOR EXISTING CONDITIONS

1. Use 1990 planimetric data (most current data available on GIS at this time) to represent existing conditions.
2. Driveways for single-family detached lots are not included in the GIS data bases. Assume the following average dimension for a driveway:

30 ft. x 15 ft. in Paint Branch
3. Imperviousness due to forest cover = 1%
4. Imperviousness due to non-forest, non-paved cover (i.e., meadow, pasture, lawn, field, shrub-shrub) = 3%
5. Imperviousness due to buildings and pavement = 100%
6. Sidewalks appear in the GIS data as linear features, not polygons. Assume sidewalks have an average width of 4 feet.
7. Percent subwatershed imperviousness in 1990 =

$$100\% \times \frac{\left(\begin{array}{c} \text{Acres} \\ \text{of roads} \\ \text{buildings} \end{array} \right) + \left(\begin{array}{c} \text{Estimated} \\ \text{acres of} \\ \text{driveways} \end{array} \right) + \left(\begin{array}{c} \text{Estimated} \\ \text{acres of} \\ \text{sidewalks} \end{array} \right) + (.01) \left[\left(\begin{array}{c} \text{Acres} \\ \text{of forest} \\ \text{cover} \end{array} \right) \right] + (.03) \left[\left(\begin{array}{c} \text{Acres of non-} \\ \text{forest, non-} \\ \text{paved cover} \end{array} \right) \right]}{\text{Subwatershed size in acre}}$$