

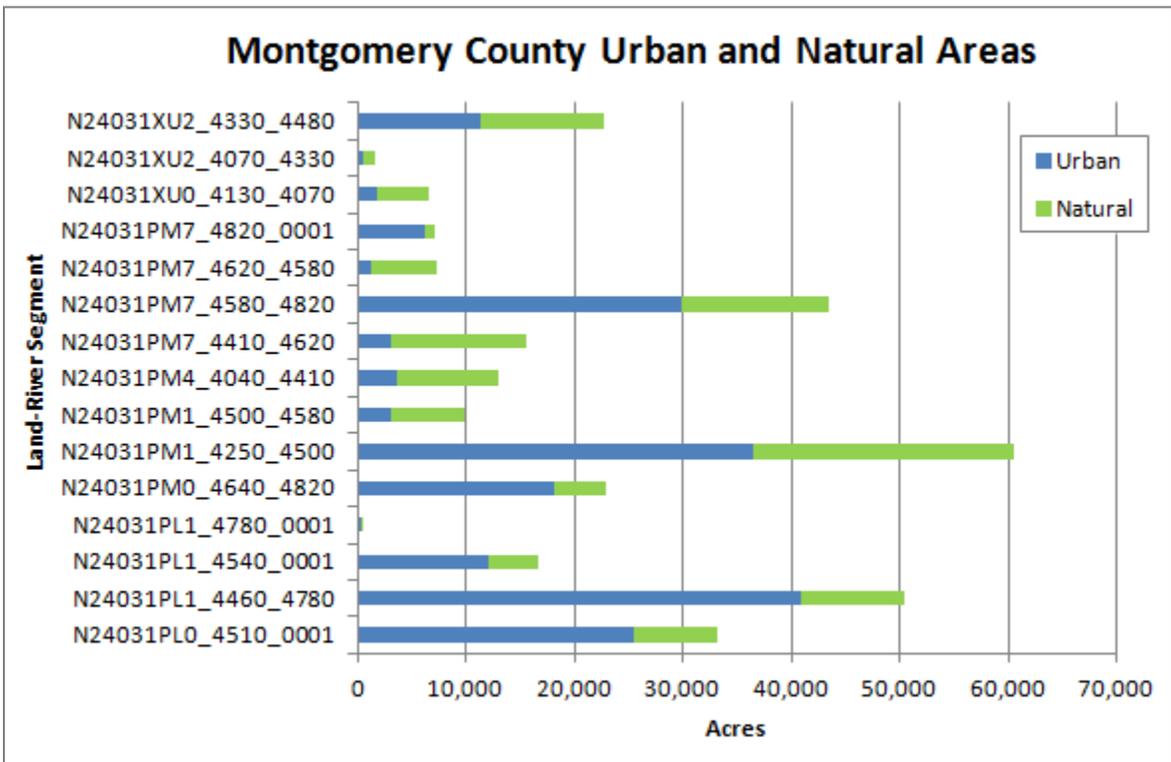
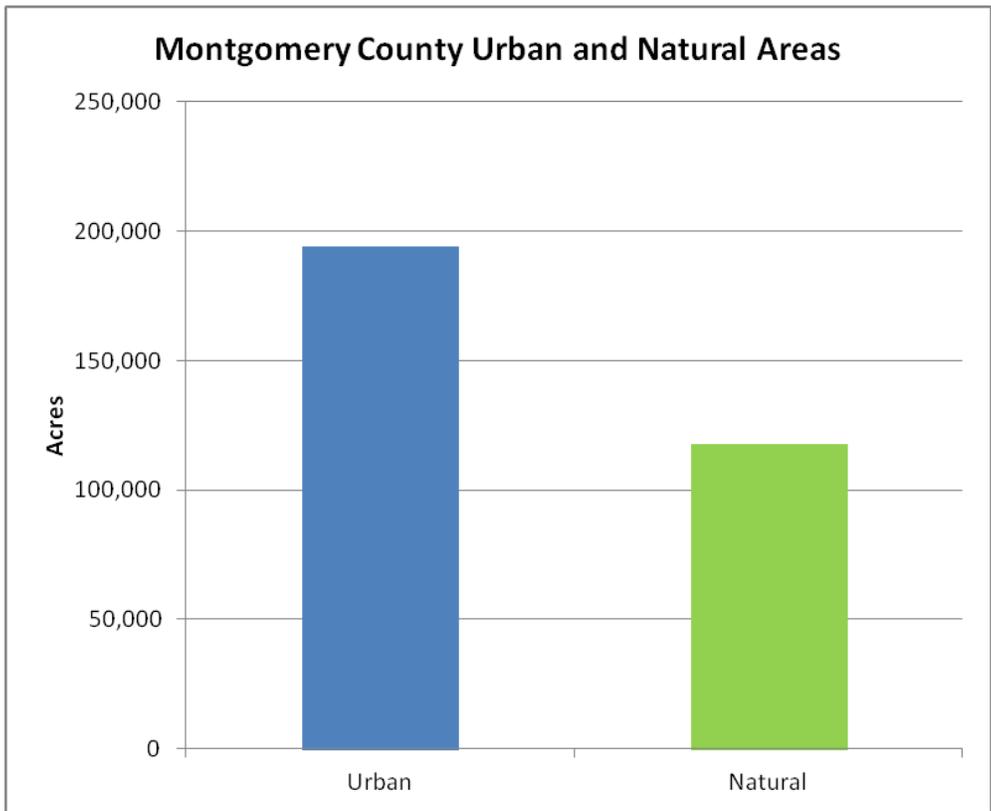
MD Estimates for the Chesapeake Bay Phase 6 Watershed Model

Land-Use, Version 1: Montgomery County Summary

Note: The estimates presented in this summary were provided by Maryland for 2012 conditions to the Chesapeake Bay Program for input into the Phase 6 watershed model land-use. Estimates were provided for urban and natural land-uses only. Per Chesapeake Bay Program decision rules, agricultural land-use acres in the watershed model are based on the United States Department of Agriculture (USDA) census data. Therefore, there was no reason for Maryland to provide estimates for agricultural lands to the Chesapeake Bay Program.

Montgomery County Urban and Natural Areas by Segment

Land-River Segment	Urban (Acres)	Natural (Acres)
N24031PL0_4510_0001	25,419.1	7,669.4
N24031PL1_4460_4780	40,788.7	9,718.1
N24031PL1_4540_0001	12,037.1	4,554.7
N24031PL1_4780_0001	354.0	10.7
N24031PM0_4640_4820	18,047.9	4,786.7
N24031PM1_4250_4500	36,527.0	23,991.5
N24031PM1_4500_4580	3,052.9	6,905.9
N24031PM4_4040_4410	3,623.6	9,443.7
N24031PM7_4410_4620	3,057.7	12,513.4
N24031PM7_4580_4820	29,831.1	13,693.7
N24031PM7_4620_4580	1,312.1	6,043.1
N24031PM7_4820_0001	6,140.4	1,050.0
N24031XU0_4130_4070	1,855.4	4,673.1
N24031XU2_4070_4330	547.3	1,070.6
N24031XU2_4330_4480	11,342.5	11,389.0
	193,936.8	117,513.5



Montgomery County Urban Area by Segment

Land-River Segment	Canopy Over Impervious (Acres)	Impervious - No Canopy (Acres)	Canopy Over Turf (Acres)	Turf - No Canopy (Acres)
N24031PLO_4510_0001	1,494	4,744	4,613	14,568
N24031PL1_4460_4780	2,407	8,081	7,513	22,787
N24031PL1_4540_0001	515	2,550	2,041	6,930
N24031PL1_4780_0001	30	43	82	199
N24031PM0_4640_4820	1,163	3,533	3,508	9,844
N24031PM1_4250_4500	1,463	7,828	5,743	21,493
N24031PM1_4500_4580	117	487	455	1,994
N24031PM4_4040_4410	159	650	443	2,371
N24031PM7_4410_4620	159	666	376	1,857
N24031PM7_4580_4820	1,398	6,146	5,766	16,521
N24031PM7_4620_4580	58	199	291	764
N24031PM7_4820_0001	543	1,135	1,239	3,223
N24031XU0_4130_4070	67	298	224	1,266
N24031XU2_4070_4330	21	79	76	371
N24031XU2_4330_4480	377	1,776	1,514	7,676
	9,972	38,215	33,885	111,864

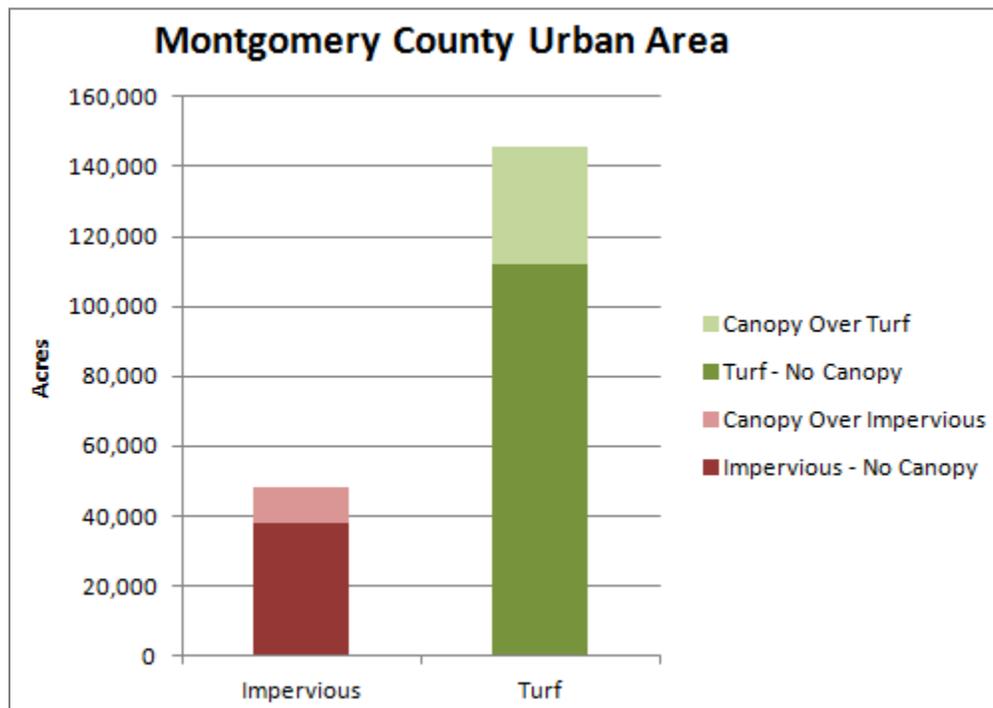
Method Summary

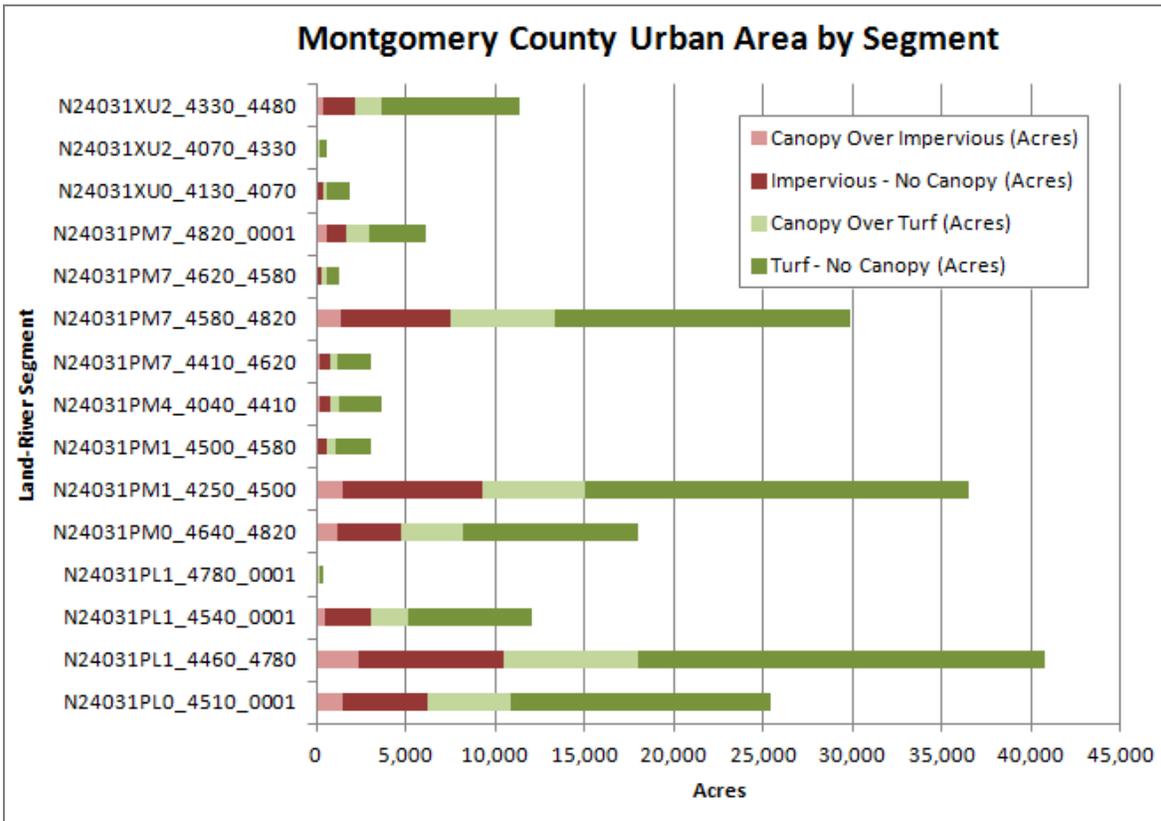
Turf: Calculated by applying the ratio of Chesapeake Bay Phase 5.3.2 Watershed Model urban pervious acres to impervious acres to the Phase 6 2012 impervious acres. MD acknowledges the inaccuracy of these turf acres. Turf estimates should be significantly improved upon in the final model Land Use, scheduled for completion in September 2016, and will utilize MD's sampling and statistical modeling approach.

Impervious: Calculated using 2010 planimetric data provided by the County. Original impervious data provided did not contain data within the municipalities of Rockville, Gaithersburg, and Takoma Park. A new dataset was received that not only included data within these municipalities, but also included additional detail outside of the municipalities. A comparison of the datasets was performed and it was determined that performing a union of the two impervious datasets would provide the most comprehensive representation of impervious features available. Projected to 2012 conditions using 1) MDP data for residential and non-residential parcels developed between the data imagery year and 2012, and 2) NAVTEQ roads data. Coefficients were applied to correct for the features missing from the planimetric dataset: patios, pools, secondary sidewalks, and driveways within the municipalities, and secondary sidewalks outside of the municipalities. Lastly, estimates were adjusted down to account for tree canopy over impervious surface.

Canopy Over Turf: All mapped tree canopy (University of Maryland’s 1 m resolution tree canopy cover data) that is not delineated as forest (> 1 acre of contiguous canopy cover and > 120 ft. wide) or associated with wetlands and is located within MD's urban mask. The urban mask contains Phase 5.3.2 model urban and suburban zones, all parcels that have a >\$10,000 improvement value and are not Agriculture or large-lot Residential development, and all road right-of-ways.

Canopy Over Impervious: Calculated as the intersection of the impervious surface data provided by the county and the University of Maryland’s 1 m resolution tree canopy cover data. The intersect areas were adjusted up to account for any features missing from the county impervious surface data, based on the average percent of mapped impervious cover covered by canopy in the county.





Montgomery County Natural Area by Segment

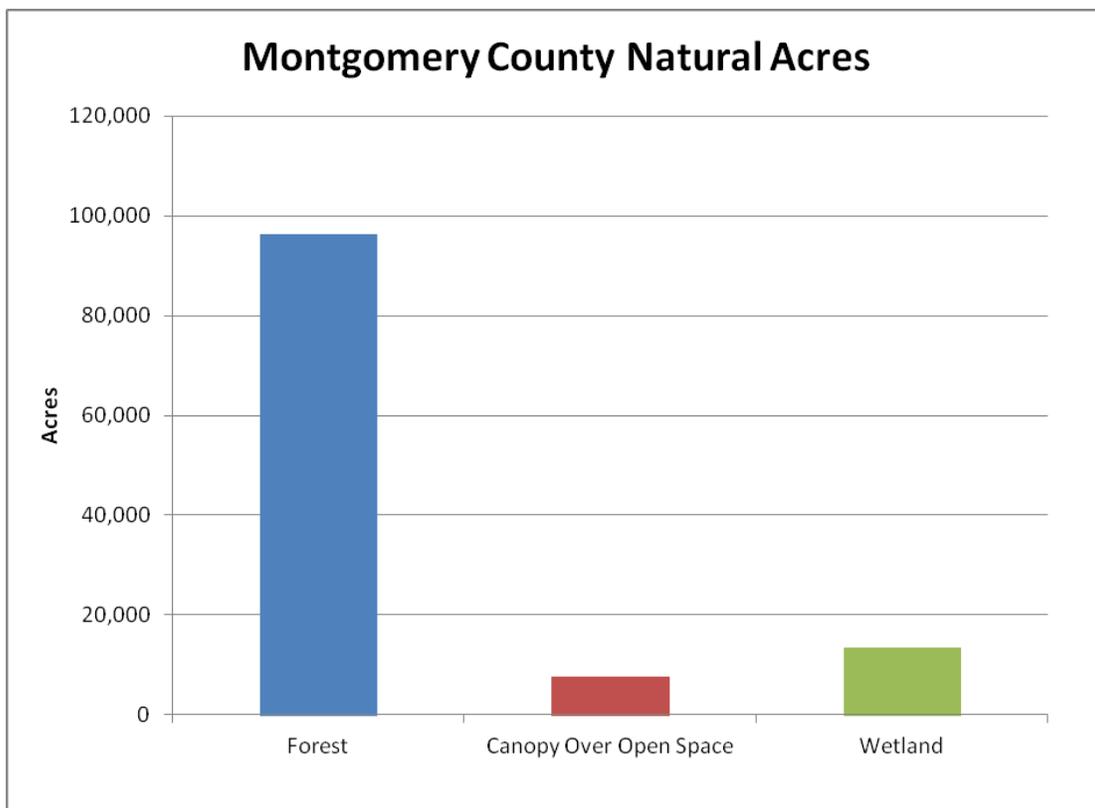
Land-River Segment	Forest (Acres)	Canopy over Open Space (Acres)	Wetland (Acres)
N24031PL0_4510_0001	7,010.9	268.3	390.2
N24031PL1_4460_4780	8,198.3	287.2	1,232.6
N24031PL1_4540_0001	4,181.8	94.4	278.5
N24031PL1_4780_0001	10.7	0.1	0.0
N24031PM0_4640_4820	4,630.6	51.9	104.2
N24031PM1_4250_4500	19,636.8	1,667.1	2,687.6
N24031PM1_4500_4580	4,931.5	650.5	1,323.9
N24031PM4_4040_4410	7,780.8	937.5	725.4
N24031PM7_4410_4620	8,935.8	1,270.0	2,307.6
N24031PM7_4580_4820	12,052.8	473.5	1,167.4
N24031PM7_4620_4580	3,885.0	344.8	1,813.4
N24031PM7_4820_0001	943.9	21.9	84.3
N24031XU0_4130_4070	3,834.0	397.8	441.3
N24031XU2_4070_4330	928.1	125.5	17.0
N24031XU2_4330_4480	9,421.1	1,018.3	949.5
Total	96,381.9	7,608.8	13,522.8

Method Summary

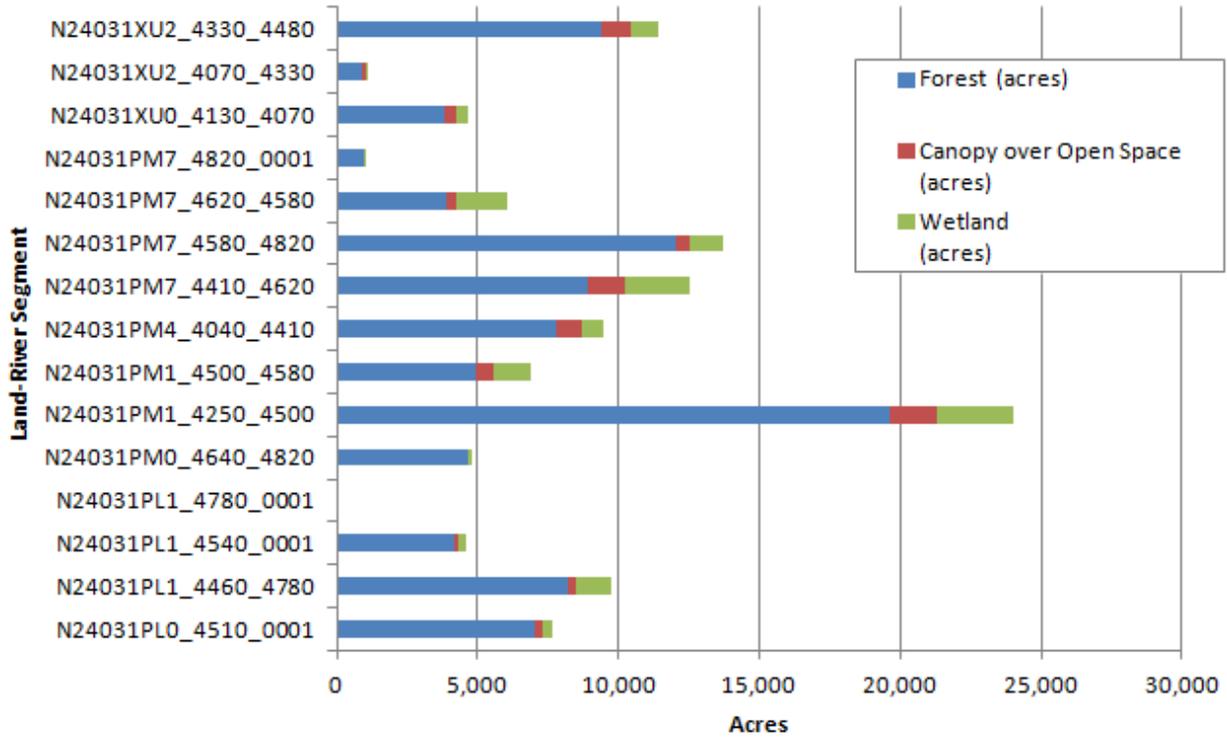
Forest: Contiguous tree canopy cover (University of Maryland's 1 m resolution tree canopy cover data) that is greater than 1 acre in size and greater than 120 ft in width. This area excludes any canopy cover associated with wetlands.

Canopy over Open Space: All tree canopy cover that is not forest, is not associated with wetlands, and falls outside MD's urban mask. The urban mask contains Phase 5.3.2 model urban and suburban zones, all parcels that have a >\$10,000 improvement value and are not Agriculture or large-lot Residential development, and all road right-of-ways.

Wetlands: Estimated using NWI and DNR wetland delineations, with open water areas removed. The acres presented here include tidal wetlands, but it should be noted that the Chesapeake Bay Program Partnership recently decided to move tidal wetlands from the watershed model to the estuarine water quality model.



Montgomery County Natural Area By Segment



Montgomery County Land-River Segments

