

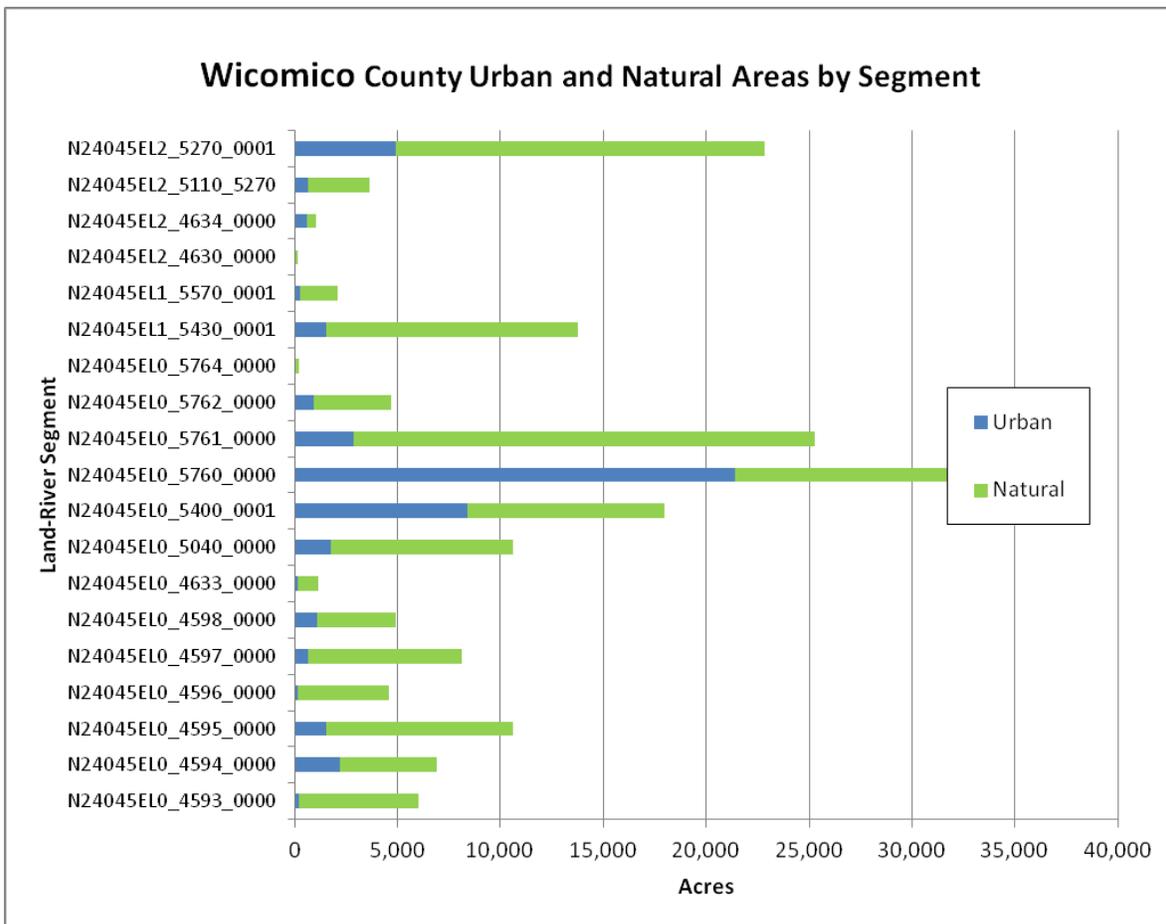
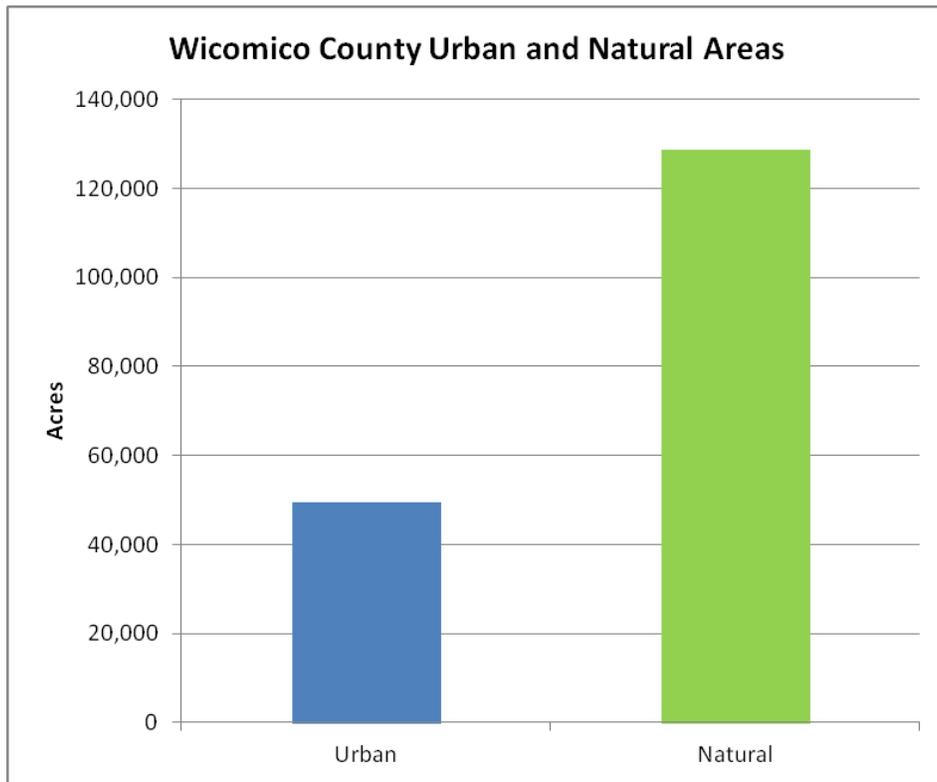
MD Estimates for the Chesapeake Bay Phase 6 Watershed Model

Land-Use, Version 1: Wicomico 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.

Wicomico County Urban and Natural Areas by Segment

Land-River Segment	Urban (Acres)	Natural (Acres)
N24045ELO_4593_0000	224.9	5,767.3
N24045ELO_4594_0000	2,209.6	4,672.7
N24045ELO_4595_0000	1,543.2	9,078.0
N24045ELO_4596_0000	163.2	4,405.5
N24045ELO_4597_0000	647.1	7,466.3
N24045ELO_4598_0000	1,068.6	3,847.5
N24045ELO_4633_0000	162.5	978.3
N24045ELO_5040_0000	1,736.4	8,854.7
N24045ELO_5400_0001	8,407.0	9,587.1
N24045ELO_5760_0000	21,386.7	12,101.7
N24045ELO_5761_0000	2,862.0	22,409.2
N24045ELO_5762_0000	946.9	3,766.3
N24045ELO_5764_0000	17.0	181.1
N24045EL1_5430_0001	1,513.2	12,278.9
N24045EL1_5570_0001	265.6	1,835.9
N24045EL2_4630_0000	12.1	134.0
N24045EL2_4634_0000	622.9	431.1
N24045EL2_5110_5270	654.7	2,976.6
N24045EL2_5270_0001	4,911.7	17,923.4
	49,355.3	128,695.8



Wicomico County Urban Area by Segment

Land-River Segment	Canopy Over Impervious (Acres)	Impervious - No Canopy (Acres)	Canopy Over Turf (Acres)	Turf - No Canopy (Acres)
N24045ELO_4593_0000	11	48	13	152
N24045ELO_4594_0000	47	414	105	1,644
N24045ELO_4595_0000	51	291	119	1,082
N24045ELO_4596_0000	14	61	18	70
N24045ELO_4597_0000	57	155	72	364
N24045ELO_4598_0000	46	156	136	732
N24045ELO_4633_0000	6	25	10	121
N24045ELO_5040_0000	67	315	105	1,248
N24045ELO_5400_0001	349	2,068	953	5,037
N24045ELO_5760_0000	756	4,506	2,472	13,653
N24045ELO_5761_0000	106	513	280	1,964
N24045ELO_5762_0000	24	166	67	690
N24045ELO_5764_0000	1	4	3	9
N24045EL1_5430_0001	78	290	141	1,005
N24045EL1_5570_0001	11	54	14	186
N24045EL2_4630_0000	0	1	0	11
N24045EL2_4634_0000	15	103	49	455
N24045EL2_5110_5270	17	186	47	405
N24045EL2_5270_0001	114	1,001	310	3,487
	1,770	10,358	4,914	32,314

Method Summary

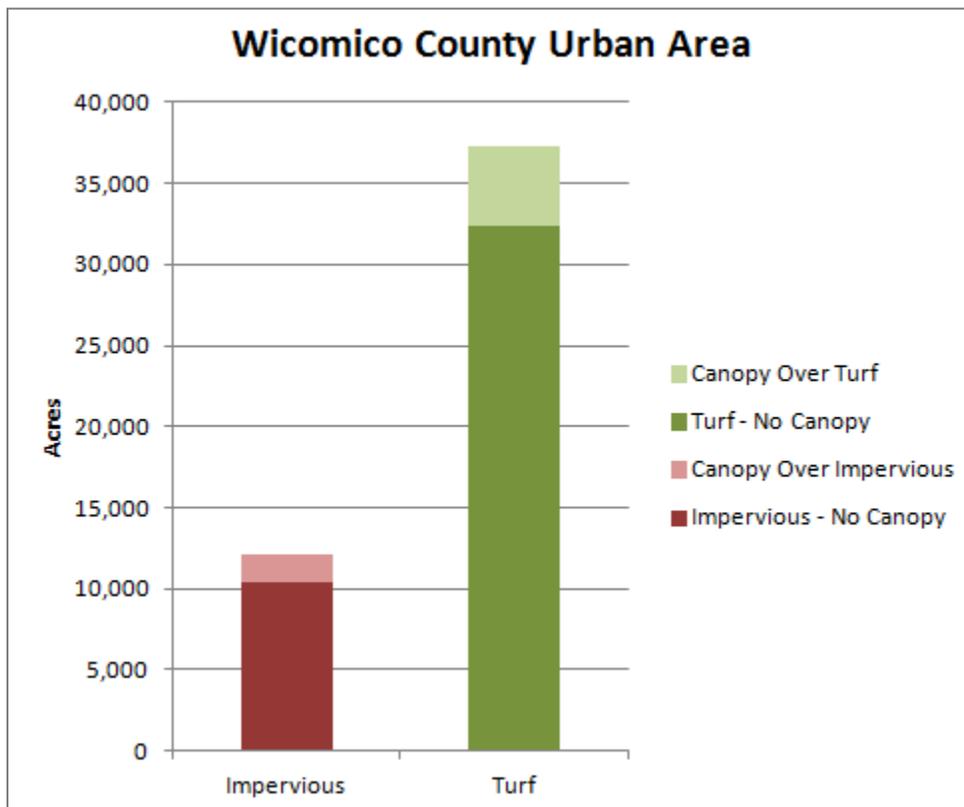
Turf: Calculated by applying the ratio of Chesapeake Bay Phase 5.3.2 Watershed Model urban pervious acres to impervious acres to the Phase 6 2012 impervious acres. MD acknowledges the inaccuracy of these turf acres. Turf estimates should be significantly improved upon in the final model Land Use, scheduled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

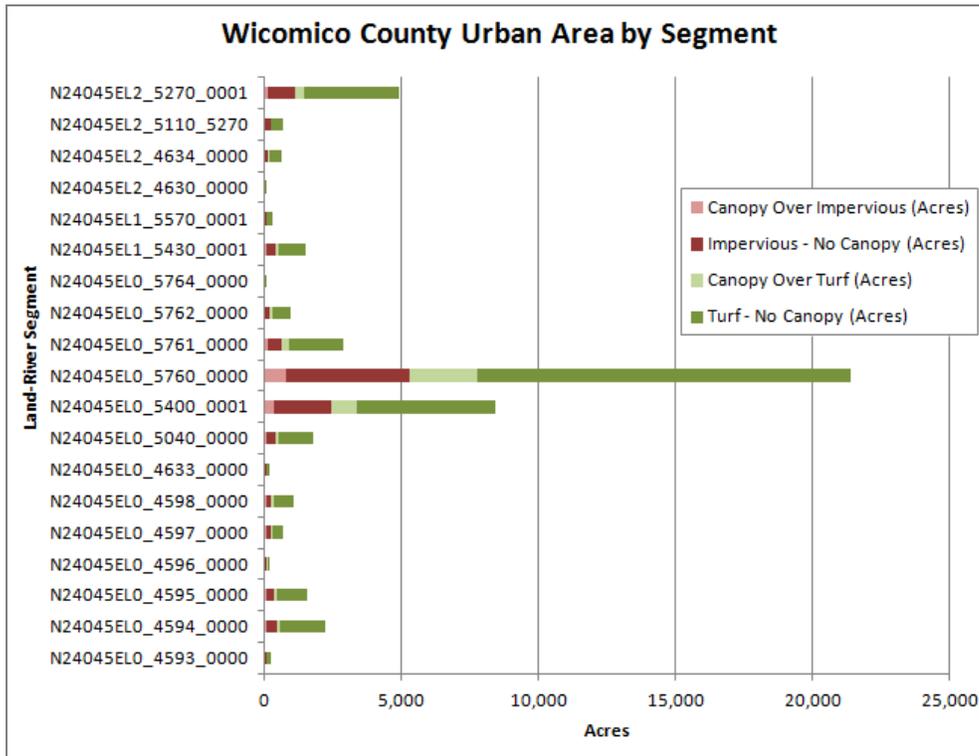
Impervious: Calculated using 2006 (roads) and 2013 (all other features) planimetric data provided by the County. Data includes additional detail within Salisbury's municipal boundary. Roads were projected to 2012 conditions using NAVTEQ roads data. All other impervious data were representative of 2012 conditions, so no projections were required (non-road planimetric data were based on 2013 leaf-off orthoimagery, which were assumed to be representative of end of 2012 conditions, so no projection was needed). Coefficients were used to correct for the features missing from the planimetric dataset: sidewalks and parking areas outside of Salisbury municipal boundaries and sidewalks inside the Salisbury municipal boundaries. Parking areas typically account for more than 50% of non-residential parcel impervious area, so the

correction was significant - 9% of total impervious area. Driveways, paths, and secondary road centerlines were buffered from linear data and patios/decks were converted to polygons using the outlines. Sidewalks and parking areas included linear representations that could not readily be converted to polygons to provide an area estimate. 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.





Wicomico County Natural Area by Segment

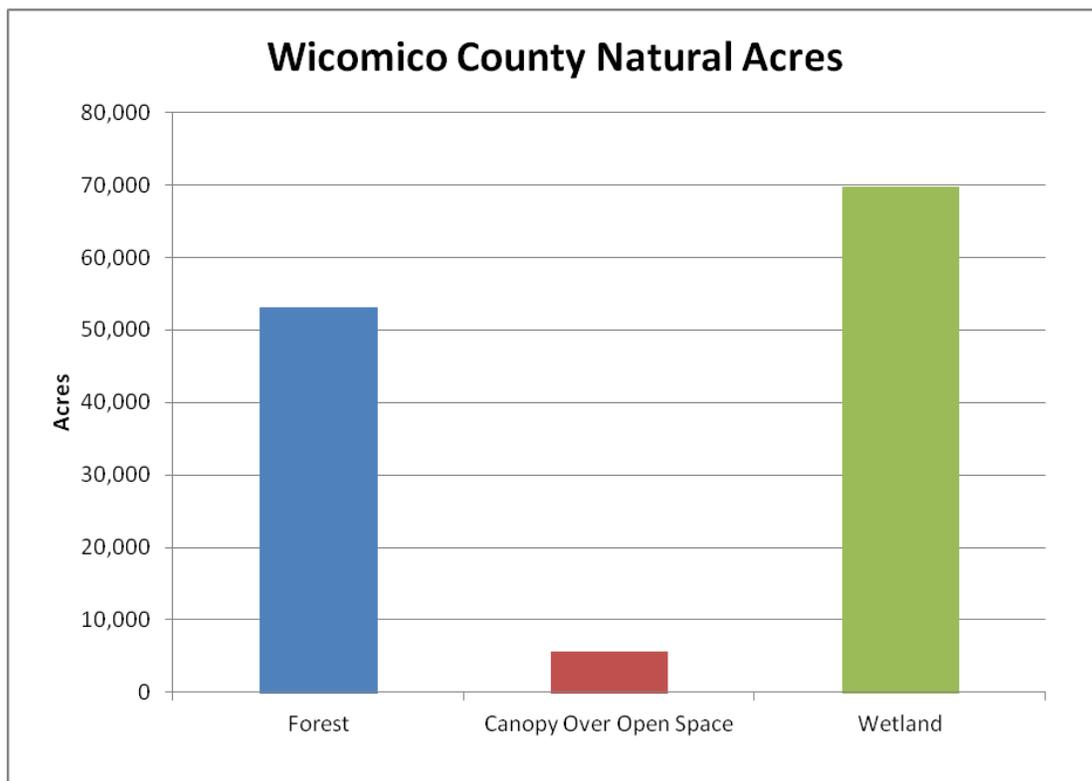
Land-River Segment	Forest (Acres)	Canopy over Open Space (Acres)	Wetland (Acres)
N24045ELO_4593_0000	1,228.5	115.2	4,423.6
N24045ELO_4594_0000	2,707.5	269.7	1,695.5
N24045ELO_4595_0000	4,007.3	538.2	4,532.4
N24045ELO_4596_0000	1,635.7	177.5	2,592.3
N24045ELO_4597_0000	3,776.8	398.8	3,290.7
N24045ELO_4598_0000	1,148.0	171.7	2,527.8
N24045ELO_4633_0000	505.1	75.5	397.8
N24045ELO_5040_0000	3,706.1	481.7	4,666.9
N24045ELO_5400_0001	6,235.5	561.8	2,789.8
N24045ELO_5760_0000	7,411.0	648.8	4,042.0
N24045ELO_5761_0000	6,751.1	684.6	14,973.5
N24045ELO_5762_0000	2,061.2	210.6	1,494.6
N24045ELO_5764_0000	10.4	10.8	159.9
N24045EL1_5430_0001	3,866.2	314.4	8,098.3
N24045EL1_5570_0001	675.2	53.5	1,107.2
N24045EL2_4630_0000	58.2	9.8	65.9
N24045EL2_4634_0000	222.0	19.6	189.5
N24045EL2_5110_5270	716.7	216.3	2,043.5
N24045EL2_5270_0001	6,438.5	732.2	10,752.8
Total	53,161.0	5,690.7	69,844.2

Method Summary

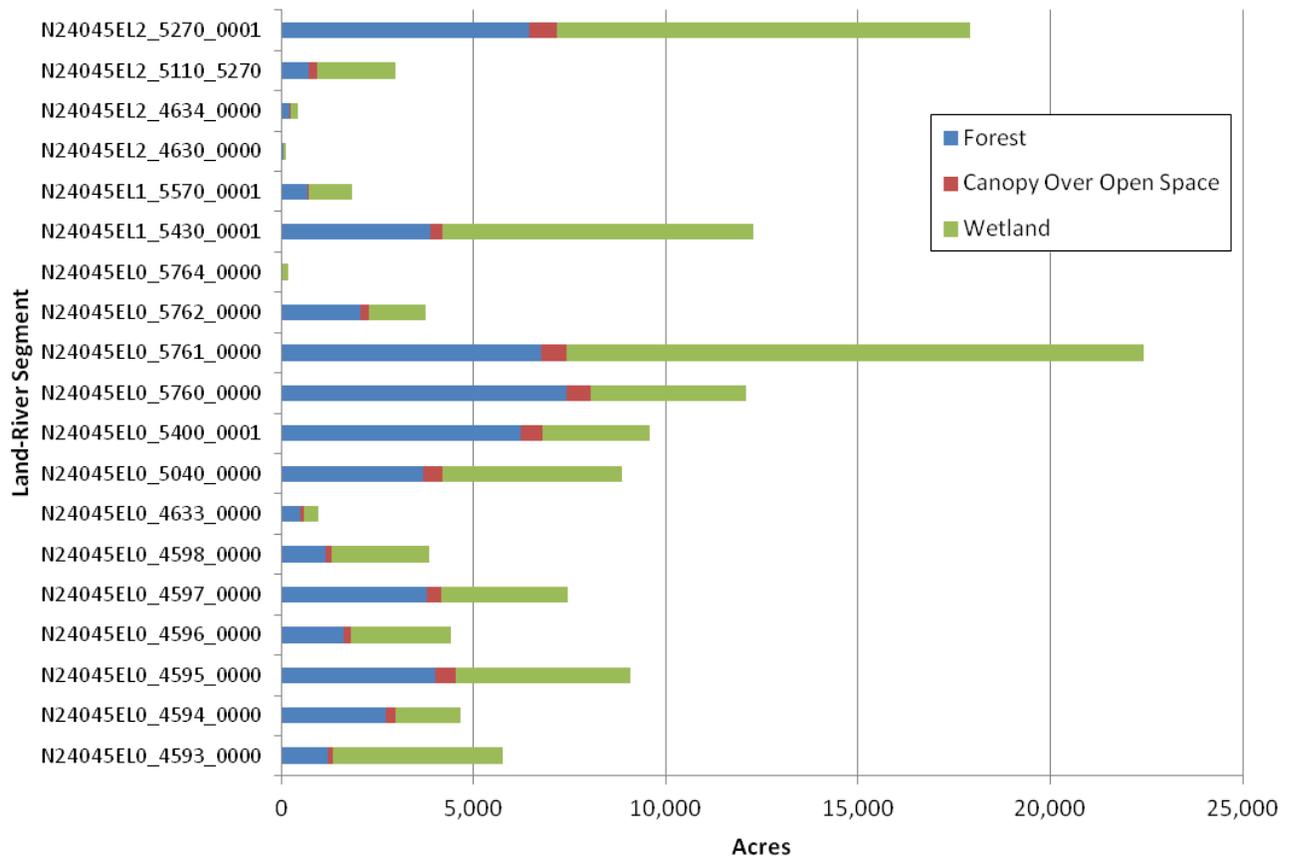
Forest: Contiguous tree canopy cover (University of Maryland’s 1 m resolution tree canopy cover data) that is greater than 1 acre in size and greater than 120 ft in width. This area excludes any canopy cover associated with wetlands.

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.



Wicomico County 2012 Natural Area by Segment



Wicomico County Land-River Segments

