

MD Estimates for the Chesapeake Bay Phase 6 Watershed Model Land-Use, Version 1: Dorchester County Summary

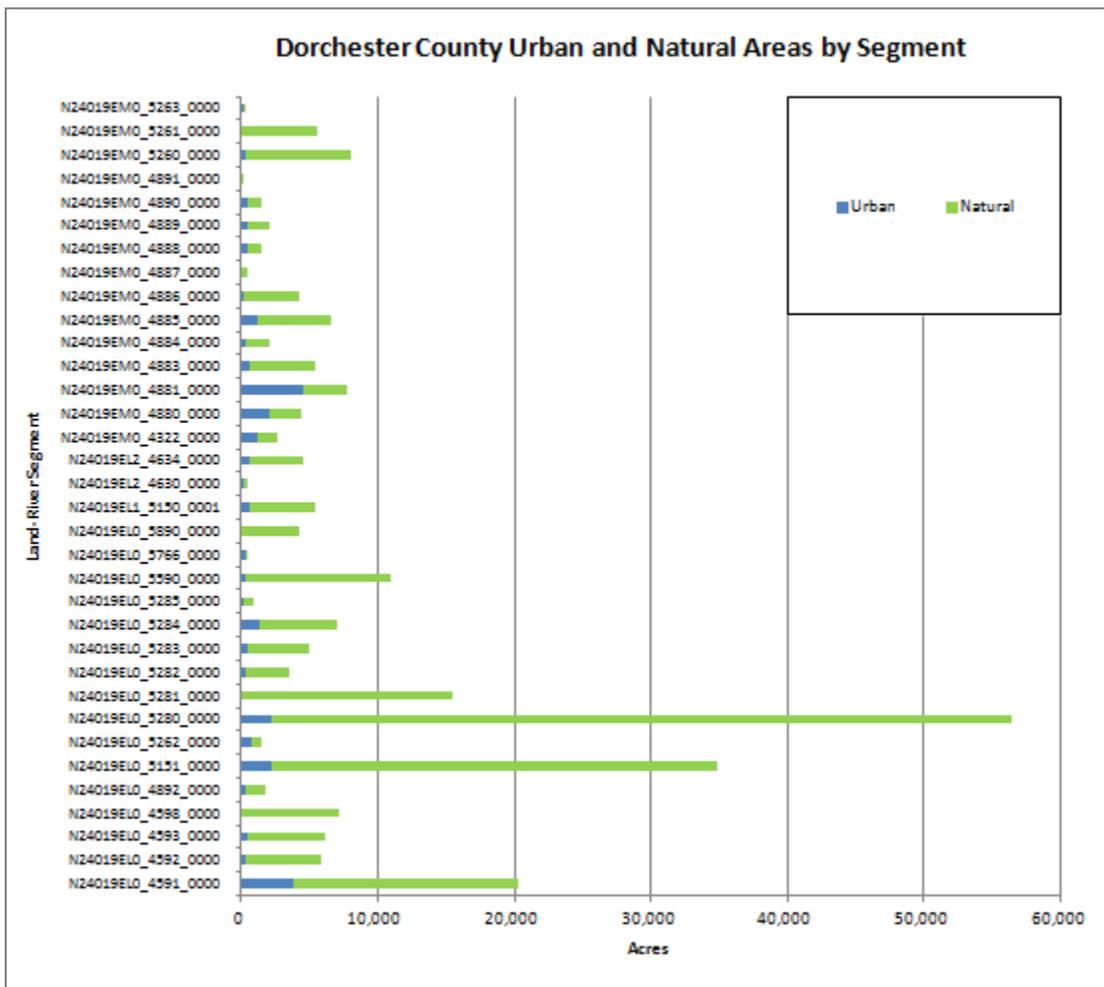
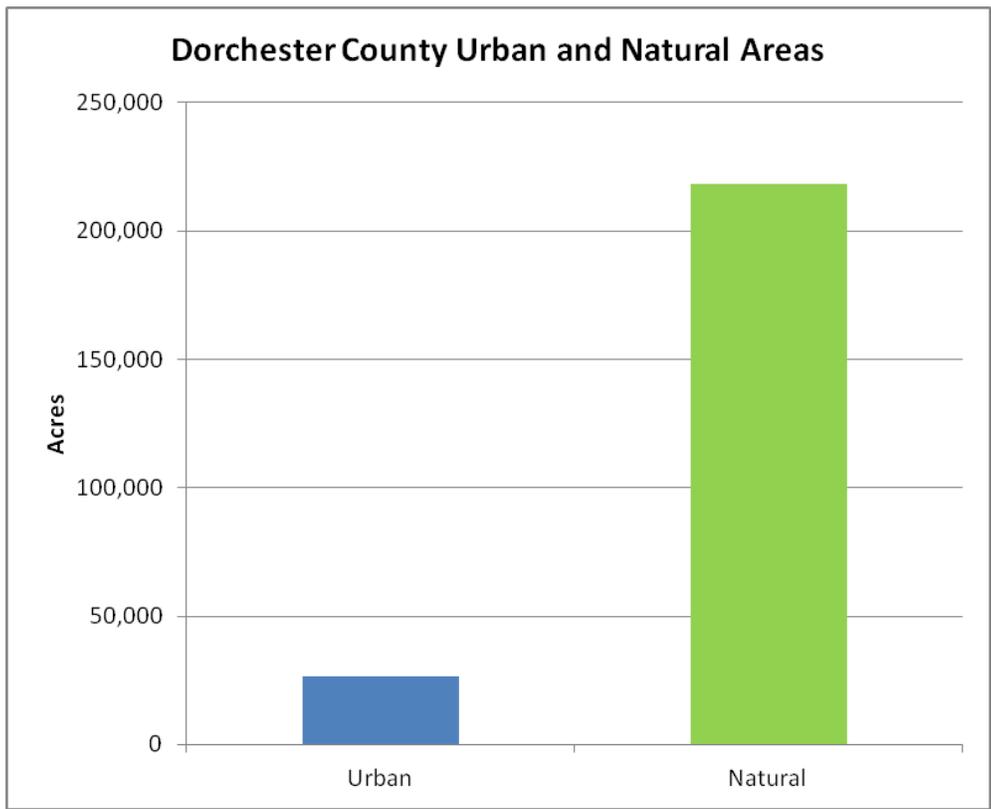
Note: The estimates presented in this summary were provided by Maryland for 2012 conditions to the Chesapeake Bay Program for input into the Phase 6 watershed model land-use. Estimates were provided for urban and natural land-uses only. Per Chesapeake Bay Program decision rules, agricultural land-use 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.

Dorchester County Urban and Natural Areas by Segment

Land-River Segment	Urban (Acres)	Natural (Acres)
N24019ELO_4591_0000	3,854.2	16,471.0
N24019ELO_4592_0000	371.6	5,467.2
N24019ELO_4593_0000	476.6	5,625.6
N24019ELO_4598_0000	34.0	7,113.1
N24019ELO_4892_0000	283.5	1,521.6
N24019ELO_5151_0000	2,221.3	32,568.8
N24019ELO_5262_0000	703.9	842.5
N24019ELO_5280_0000	2,191.3	54,249.4
N24019ELO_5281_0000	82.2	15,405.0
N24019ELO_5282_0000	306.7	3,184.6
N24019ELO_5283_0000	418.9	4,570.0
N24019ELO_5284_0000	1,286.3	5,715.6
N24019ELO_5285_0000	204.9	681.3
N24019ELO_5590_0000	357.7	10,572.0
N24019ELO_5766_0000	301.3	143.7
N24019ELO_5890_0000	14.3	4,280.0
N24019EL1_5150_0001	606.1	4,762.0
N24019EL2_4630_0000	219.5	304.7
N24019EL2_4634_0000	615.5	3,911.9
N24019EM0_4322_0000	1,257.8	1,469.4
N24019EM0_4880_0000	2,144.7	2,329.8
N24019EM0_4881_0000	4,513.5	3,248.3
N24019EM0_4883_0000	576.2	4,909.9
N24019EM0_4884_0000	296.0	1,722.3
N24019EM0_4885_0000	1,198.2	5,443.1
N24019EM0_4886_0000	163.0	4,139.7
N24019EM0_4887_0000	34.8	371.2
N24019EM0_4888_0000	403.0	1,154.3
N24019EM0_4889_0000	420.8	1,585.1
N24019EM0_4890_0000	506.2	989.2
N24019EM0_4891_0000	0.4	131.4
N24019EM0_5260_0000	277.9	7,781.2
N24019EM0_5261_0000	50.0	5,552.9
N24019EM0_5263_0000	141.5	44.6

26,534.0

218,262.4



Dorchester County Urban Area by Segment

Land-River Segment	Canopy Over Impervious (Acres)	Impervious - No Canopy (Acres)	Canopy Over Turf (Acres)	Turf - No Canopy (Acres)
N24019ELO_4591_0000	106	854	234	2,660
N24019ELO_4592_0000	19	105	17	230
N24019ELO_4593_0000	13	129	44	291
N24019ELO_4598_0000	1	12	1	0
N24019ELO_4892_0000	5	39	25	101
N24019ELO_5151_0000	52	573	136	1,461
N24019ELO_5262_0000	1	4	1	7
N24019ELO_5280_0000	55	641	183	1,958
N24019ELO_5281_0000	6	45	11	24
N24019ELO_5282_0000	2	8	10	49
N24019ELO_5283_0000	3	44	14	1
N24019ELO_5284_0000	4	80	23	71
N24019ELO_5285_0000	0	9	0	9
N24019ELO_5590_0000	11	132	42	275
N24019ELO_5766_0000	0	0	0	0
N24019ELO_5890_0000	0	0	0	0
N24019EL1_5150_0001	17	141	29	551
N24019EL2_4630_0000	6	27	15	123
N24019EL2_4634_0000	22	157	38	503
N24019EM0_4322_0000	19	229	75	1,110
N24019EM0_4880_0000	44	359	182	1,946
N24019EM0_4881_0000	169	1,023	664	3,848
N24019EM0_4883_0000	43	152	80	452
N24019EM0_4884_0000	10	30	22	131
N24019EM0_4885_0000	44	257	187	1,006
N24019EM0_4886_0000	2	13	5	74
N24019EM0_4887_0000	6	10	10	16
N24019EM0_4888_0000	15	66	58	335
N24019EM0_4889_0000	18	57	65	343
N24019EM0_4890_0000	7	65	25	302
N24019EM0_4891_0000	0	1	0	0
N24019EM0_5260_0000	19	123	47	231
N24019EM0_5261_0000	5	21	7	43
N24019EM0_5263_0000	0	0	0	0
724	5,408	2,250	18,151	

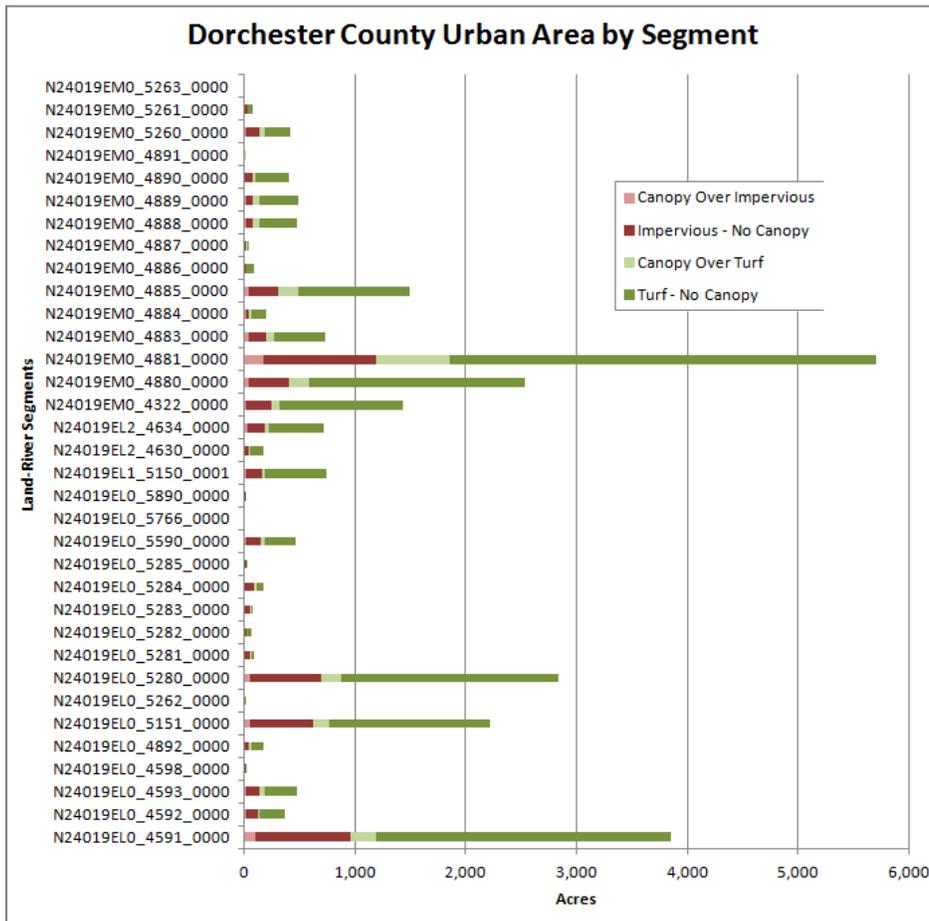
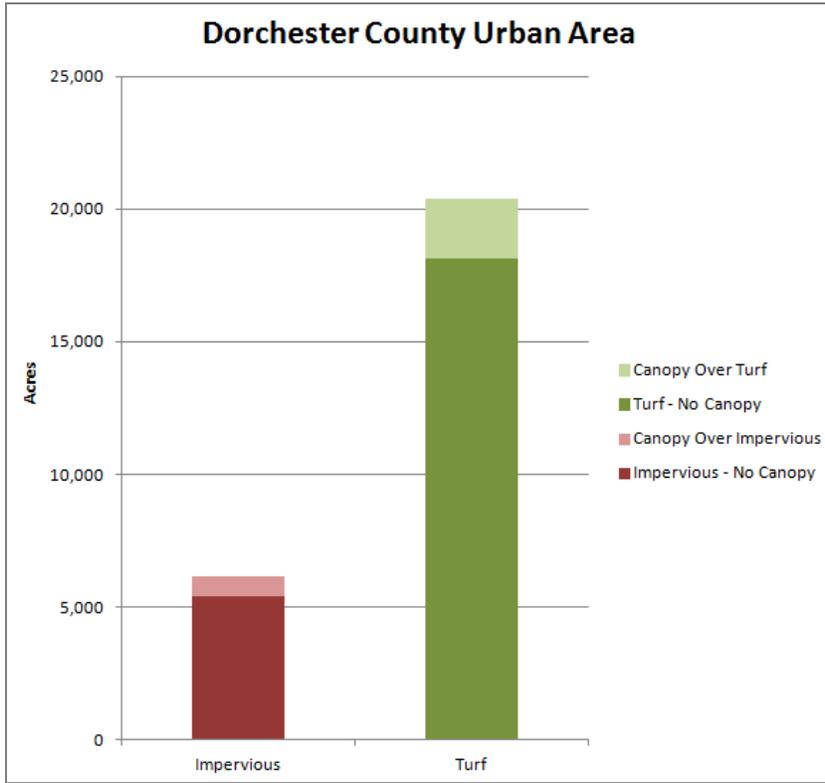
Method Summary

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 complete planimetric data provided by the County. 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. The planimetric data did not include a separate designation for roads, so NAVTEQ roads data were used to calculate the road impervious portion. 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.



Dorchester County Natural Area by Segment

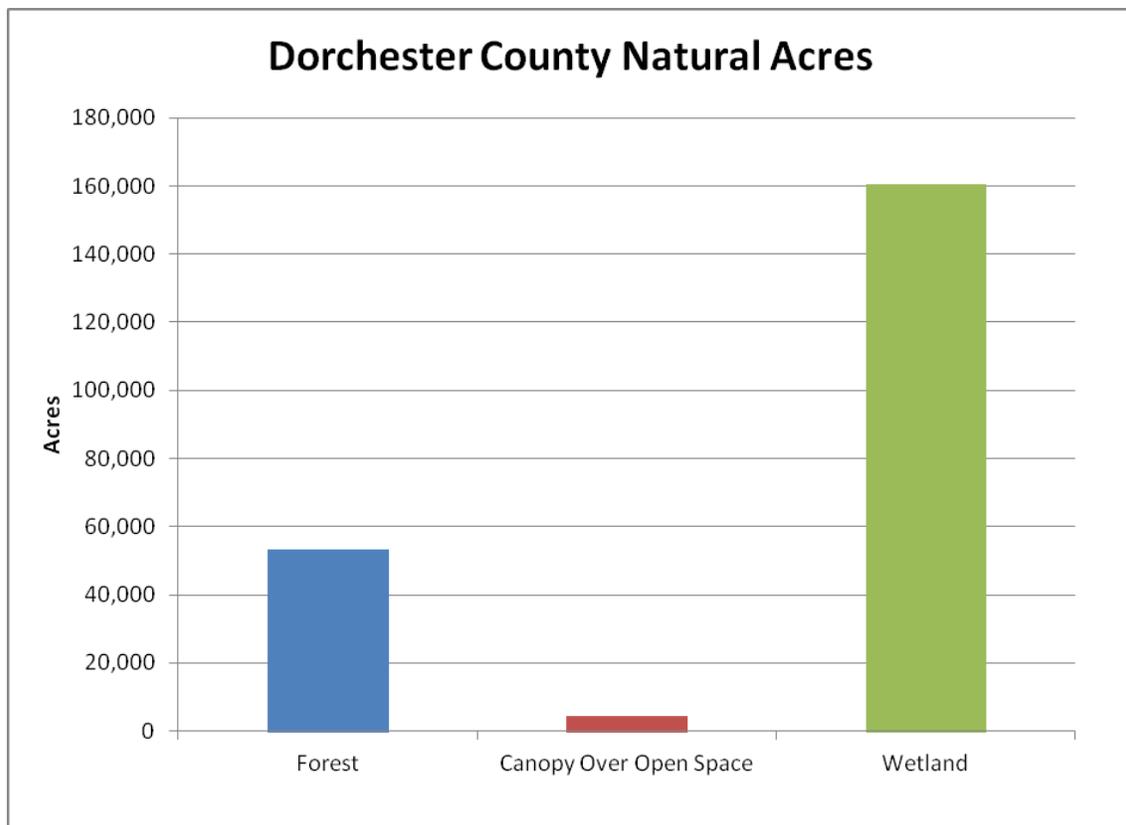
Land-River Segment	Forest (Acres)	Canopy over Open Space (Acres)	Wetland (Acres)
N24019ELO_4591_0000	8,025.3	554.4	7,891.4
N24019ELO_4592_0000	1,881.0	75.5	3,510.8
N24019ELO_4593_0000	1,376.1	117.8	4,131.7
N24019ELO_4598_0000	50.7	21.3	7,041.2
N24019ELO_4892_0000	147.3	18.1	1,356.2
N24019ELO_5151_0000	8,610.6	566.3	23,391.8
N24019ELO_5262_0000	77.8	8.3	756.4
N24019ELO_5280_0000	9,386.2	585.4	44,277.8
N24019ELO_5281_0000	1,106.4	50.9	14,247.7
N24019ELO_5282_0000	57.9	9.7	3,117.0
N24019ELO_5283_0000	85.0	37.0	4,448.1
N24019ELO_5284_0000	188.2	52.1	5,475.3
N24019ELO_5285_0000	22.6	3.4	655.4
N24019ELO_5590_0000	1,171.5	123.8	9,276.7
N24019ELO_5766_0000	0.0	0.0	143.7
N24019ELO_5890_0000	0.0	0.0	4,280.0
N24019EL1_5150_0001	2,370.0	241.9	2,150.0
N24019EL2_4630_0000	226.0	17.9	60.8
N24019EL2_4634_0000	1,834.6	70.6	2,006.8
N24019EM0_4322_0000	624.7	130.3	714.4
N24019EM0_4880_0000	1,328.7	155.5	845.6
N24019EM0_4881_0000	1,739.9	205.9	1,302.5
N24019EM0_4883_0000	2,730.4	398.1	1,781.3
N24019EM0_4884_0000	648.0	89.4	985.0
N24019EM0_4885_0000	2,472.5	271.6	2,699.0
N24019EM0_4886_0000	1,092.2	42.6	3,004.8
N24019EM0_4887_0000	204.0	13.3	153.9
N24019EM0_4888_0000	616.6	182.7	355.1
N24019EM0_4889_0000	1,079.5	79.2	426.5
N24019EM0_4890_0000	436.9	28.4	524.0
N24019EM0_4891_0000	17.5	19.3	94.6
N24019EM0_5260_0000	2,140.7	150.3	5,490.2
N24019EM0_5261_0000	1,704.1	101.8	3,747.0
N24019EM0_5263_0000	2.7	2.0	39.9
	53,455.3	4,424.4	160,382.8

Method Summary

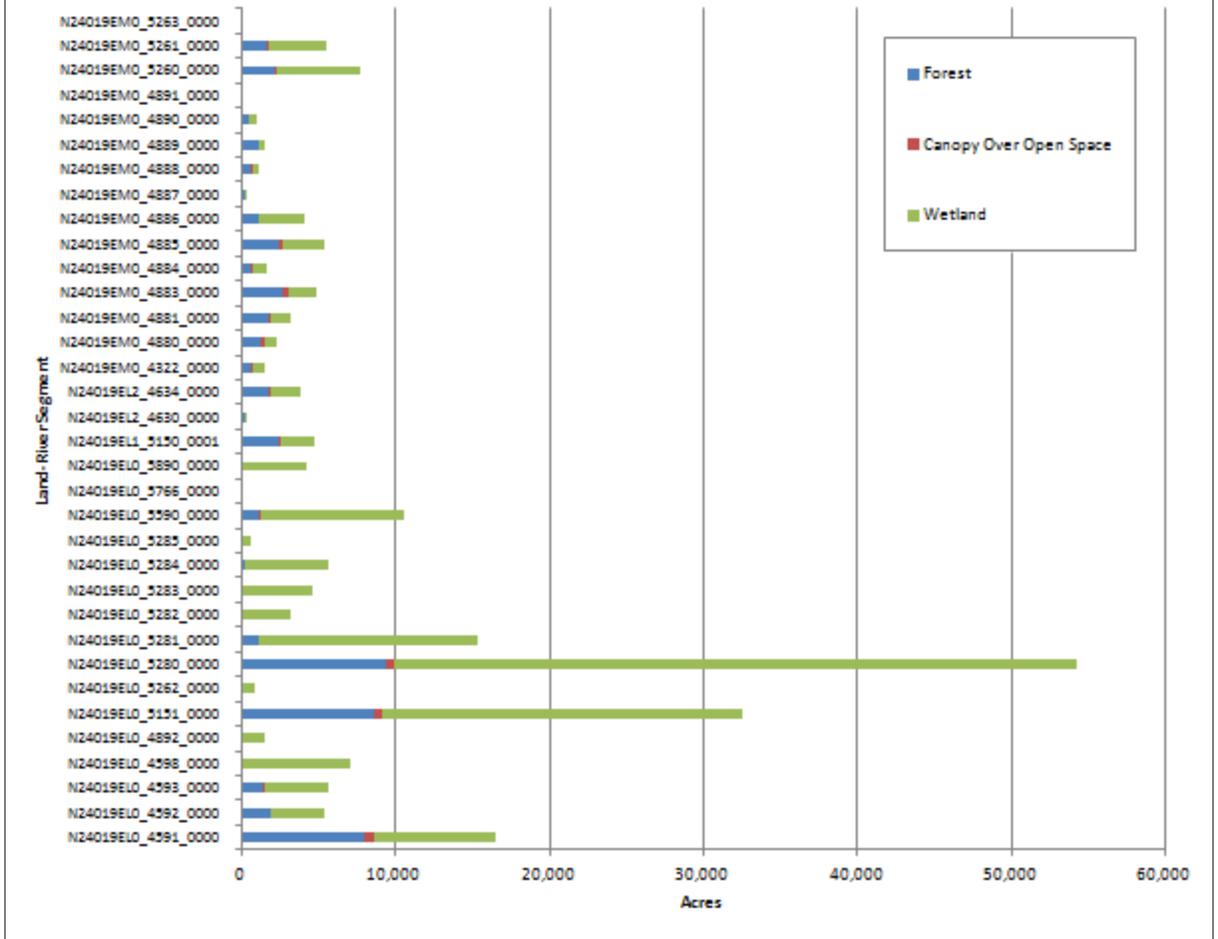
Forest: Contiguous tree canopy cover (University of Maryland’s 1 m resolution tree canopy cover data) that is greater than 1 acre in size and greater than 120 ft in width. This area excludes any canopy cover associated with wetlands.

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.



Dorchester County Natural Area by Segment



Dorchester County Land-River Segments

