

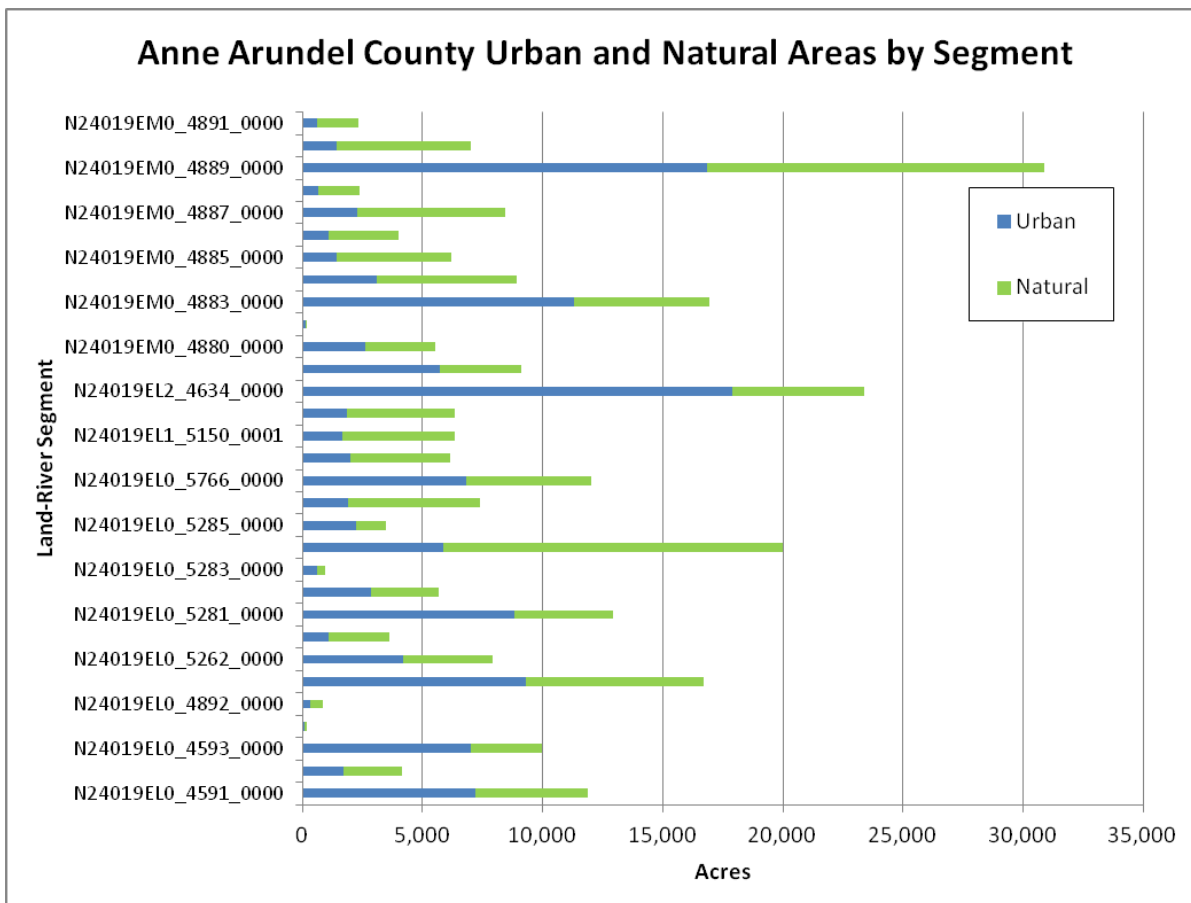
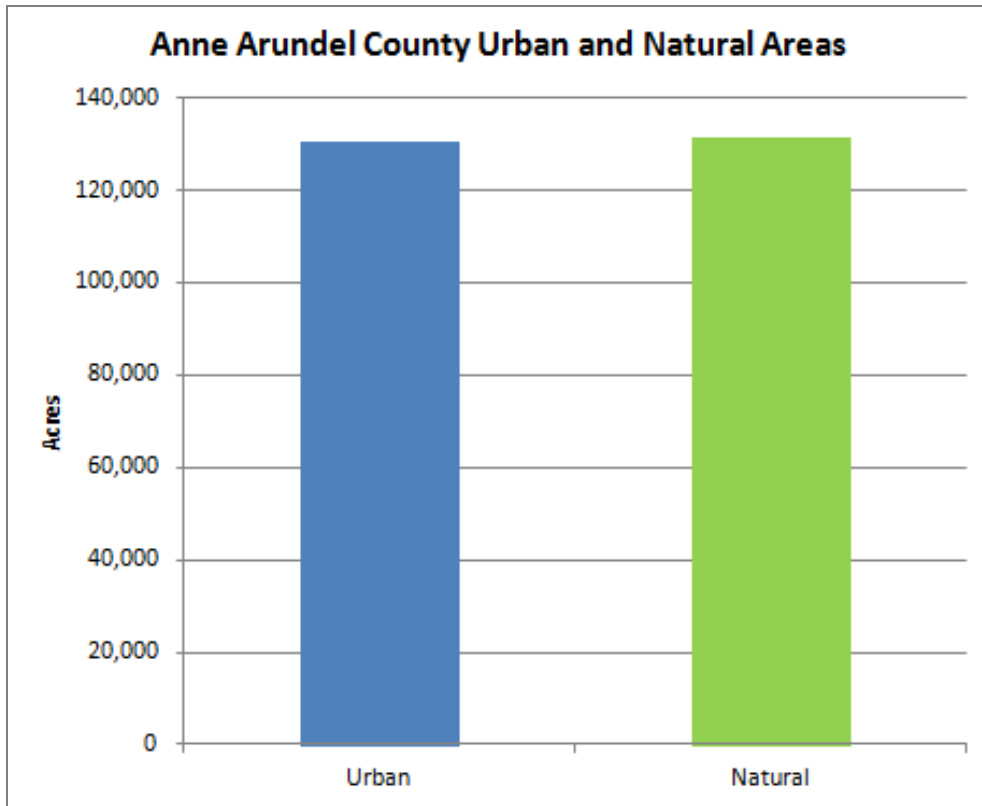
MD Estimates for the Chesapeake Bay Phase 6 Watershed Model

Land-Use, Version 1: Anne Arundel 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.

Anne Arundel County Urban and Natural Areas by Segment

Land-River Segment	Urban (Acres)	Natural (Acres)
N24003WLO_4390_0000	7,192.3	4,676.4
N24003WLO_4391_0000	1,715.3	2,435.6
N24003WLO_4392_0000	6,990.5	2,965.9
N24003WLO_4393_0000	76.1	88.8
N24003WLO_4394_0000	324.5	530.9
N24003WLO_4420_0000	9,293.0	7,392.9
N24003WLO_4421_0000	4,177.9	3,748.3
N24003WLO_4422_0000	1,079.4	2,537.4
N24003WLO_4423_0000	8,848.3	4,098.3
N24003WLO_4424_0000	2,836.1	2,854.9
N24003WLO_4425_0000	634.7	322.2
N24003WLO_4600_0000	5,864.8	14,127.8
N24003WLO_4601_0000	2,233.7	1,263.2
N24003WLO_4602_0000	1,898.7	5,492.8
N24003WLO_4603_0000	6,835.0	5,198.1
N24003WLO_4770_0000	1,978.2	4,177.1
N24003WLO_4771_0000	1,664.7	4,684.7
N24003WLO_4772_0000	1,850.9	4,490.0
N24003WMO_3961_0000	17,896.7	5,468.3
N24003WMO_3962_0000	5,726.4	3,402.2
N24003WMO_3963_0000	2,603.2	2,921.7
N24003WMO_3966_0000	116.4	73.6
N24003WM3_4060_0001	11,288.5	5,656.5
N24003XL3_4710_0000	3,115.6	5,815.9
N24003XL3_4711_0000	1,448.4	4,738.7
N24003XL3_4712_0000	1,092.3	2,899.2
N24003XL3_4713_0000	2,291.9	6,144.4
N24003XL3_4950_0000	656.0	1,742.4
N24003XU2_4270_4650	16,829.8	14,058.0
N24003XU2_4480_4650	1,434.8	5,554.0
N24003XU3_4650_0001	614.3	1,737.2
	130,608.5	131,297.5



Anne Arundel County Urban Area by Segment

Land-River Segment	Canopy Over Impervious (Acres)	Impervious - No Canopy (Acres)	Canopy Over Turf (Acres)	Turf - No Canopy (Acres)
N24003WLO_4390_0000	603	1,377	1,387	3,825
N24003WLO_4391_0000	183	299	491	742
N24003WLO_4392_0000	592	1,278	1,483	3,637
N24003WLO_4393_0000	4	14	18	40
N24003WLO_4394_0000	13	109	66	137
N24003WLO_4420_0000	394	2,331	1,397	5,171
N24003WLO_4421_0000	386	682	781	2,329
N24003WLO_4422_0000	168	223	248	440
N24003WLO_4423_0000	661	2,305	1,416	4,467
N24003WLO_4424_0000	178	561	597	1,500
N24003WLO_4425_0000	56	143	220	216
N24003WLO_4600_0000	445	1,462	951	3,006
N24003WLO_4601_0000	159	371	511	1,193
N24003WLO_4602_0000	132	326	357	1,084
N24003WLO_4603_0000	394	1,636	1,116	3,689
N24003WLO_4770_0000	137	336	354	1,152
N24003WLO_4771_0000	76	303	247	1,038
N24003WLO_4772_0000	143	328	391	989
N24003WMO_3961_0000	689	6,031	2,816	8,361
N24003WMO_3962_0000	316	1,707	1,057	2,646
N24003WMO_3963_0000	178	537	585	1,303
N24003WMO_3966_0000	6	13	25	72
N24003WM3_4060_0001	366	3,704	1,339	5,880
N24003XL3_4710_0000	142	480	435	2,058
N24003XL3_4711_0000	71	221	209	948
N24003XL3_4712_0000	63	220	165	644
N24003XL3_4713_0000	96	372	292	1,532
N24003XL3_4950_0000	35	106	101	414
N24003XU2_4270_4650	547	4,019	1,863	10,401
N24003XU2_4480_4650	47	330	143	914
N24003XU3_4650_0001	40	125	85	364
	7,319	31,951	21,145	70,193

Method Summary

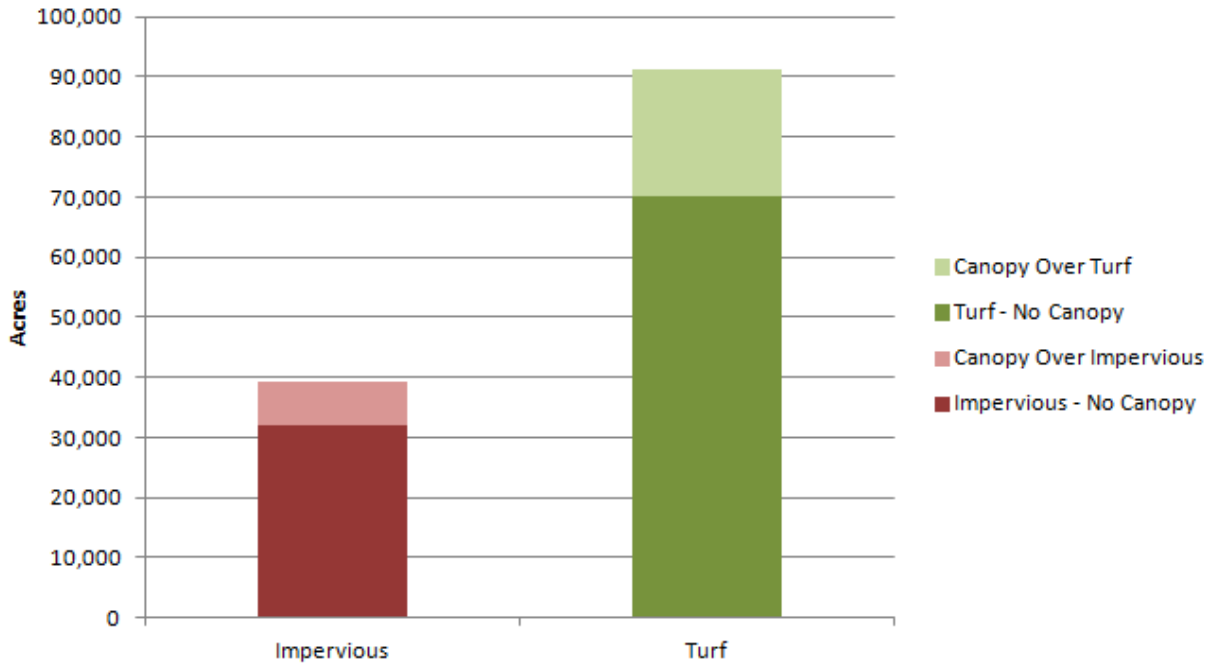
Turf: Calculated by applying the ratio of Chesapeake Bay Phase 5.3.2 Watershed Model urban pervious acres to impervious acres to the Phase 6 2012 impervious acres. MD acknowledges the inaccuracy of these turf acres. Turf estimates should be significantly improved upon in the final model Land Use, scheduled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

Impervious: Calculated using 2011 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. Lastly, estimates were adjusted down to account for tree canopy over impervious surface.

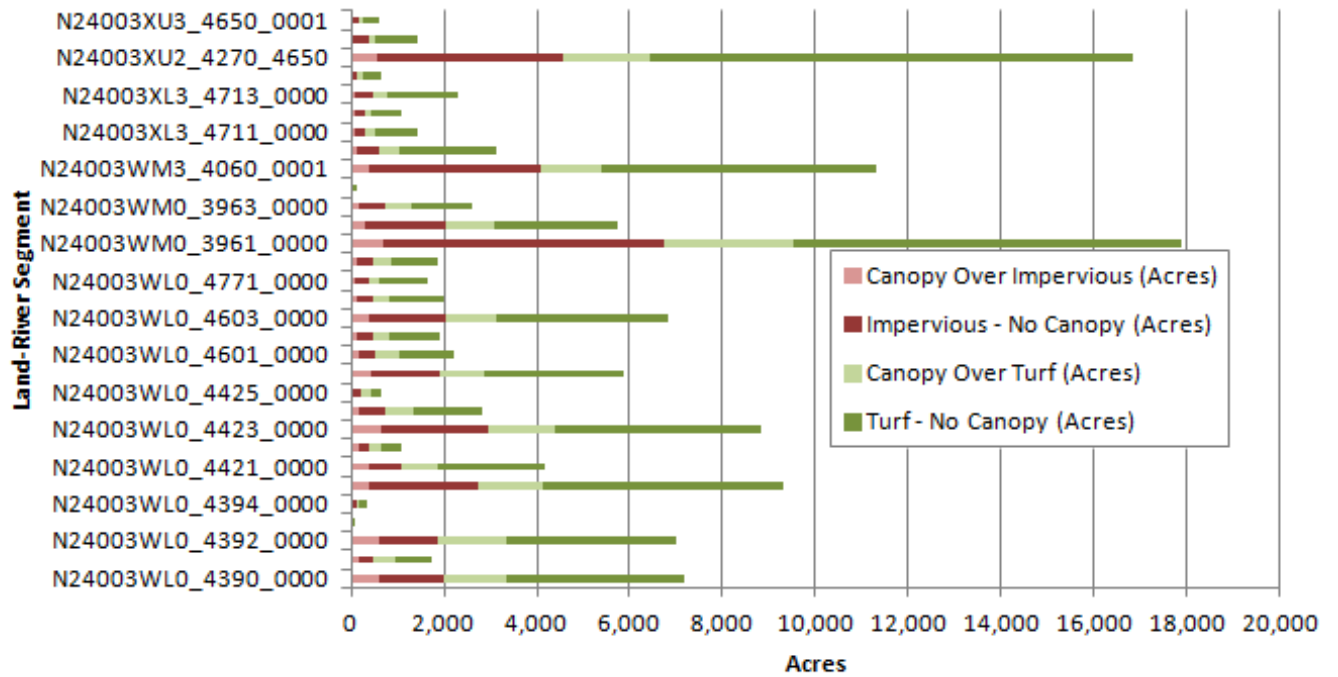
Canopy Over Turf: All mapped tree canopy (University of Maryland's 1 m resolution tree canopy cover data) that is not delineated as forest (> 1 acre of contiguous canopy cover and > 120 ft. wide) or associated with wetlands and is located within MD's urban mask. The urban mask contains Phase 5.3.2 model 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.

Anne Arundel County Urban Area



Anne Arundel County Urban Area by Segment



Anne Arundel County Natural Area by Segment

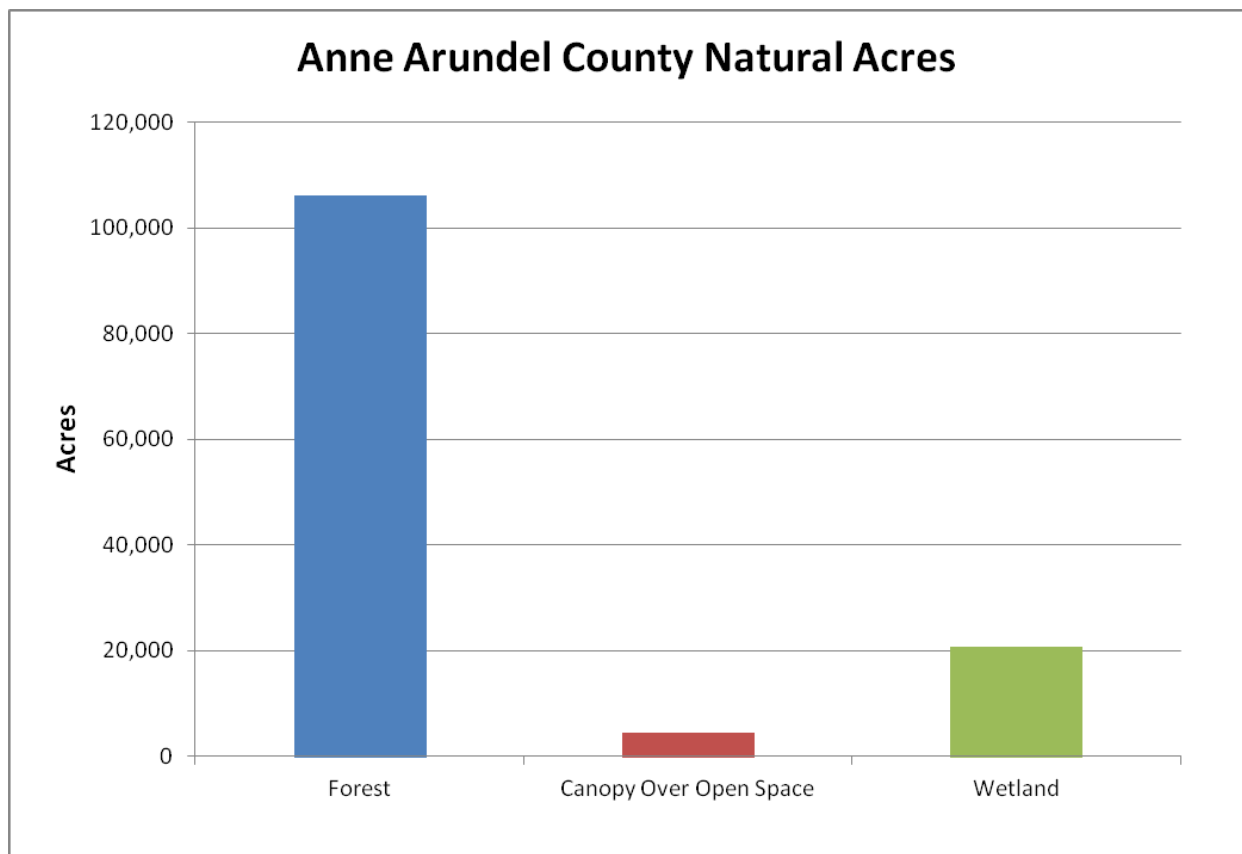
Land-River Segment	Forest (Acres)	Canopy Over Open Space (Acres)	Wetland (Acres)
N24003WLO_4390_0000	4,428.2	51.4	196.7
N24003WLO_4391_0000	2,154.4	48.0	233.2
N24003WLO_4392_0000	2,597.4	47.2	321.2
N24003WLO_4393_0000	75.0	6.8	7.0
N24003WLO_4394_0000	329.1	3.4	198.4
N24003WLO_4420_0000	6,506.8	146.0	740.1
N24003WLO_4421_0000	3,447.0	121.2	180.1
N24003WLO_4422_0000	2,290.3	28.5	218.7
N24003WLO_4423_0000	3,810.2	63.4	224.7
N24003WLO_4424_0000	2,339.6	162.5	352.8
N24003WLO_4425_0000	230.7	10.5	81.0
N24003WLO_4600_0000	12,336.7	358.1	1,432.9
N24003WLO_4601_0000	1,011.1	21.9	230.2
N24003WLO_4602_0000	4,331.5	224.7	936.7
N24003WLO_4603_0000	4,428.7	174.3	595.1
N24003WLO_4770_0000	2,586.5	247.5	1,343.0
N24003WLO_4771_0000	3,189.0	223.7	1,272.1
N24003WLO_4772_0000	2,949.0	109.9	1,431.1
N24003WM0_3961_0000	4,911.3	95.9	461.1
N24003WM0_3962_0000	3,060.7	34.1	307.4
N24003WM0_3963_0000	2,589.1	83.5	249.1
N24003WM0_3966_0000	60.1	4.0	9.6
N24003WM3_4060_0001	4,767.1	156.9	732.5
N24003XL3_4710_0000	4,490.6	565.2	760.2
N24003XL3_4711_0000	3,604.5	389.8	744.5
N24003XL3_4712_0000	2,085.1	135.3	678.8
N24003XL3_4713_0000	4,324.7	490.7	1,329.0
N24003XL3_4950_0000	1,425.1	146.8	170.5
N24003XU2_4270_4650	10,368.1	226.1	3,463.8
N24003XU2_4480_4650	3,882.5	52.2	1,619.3
N24003XU3_4650_0001	1,528.7	45.5	163.0
	106,138.7	4,475.0	20,683.8

Method Summary

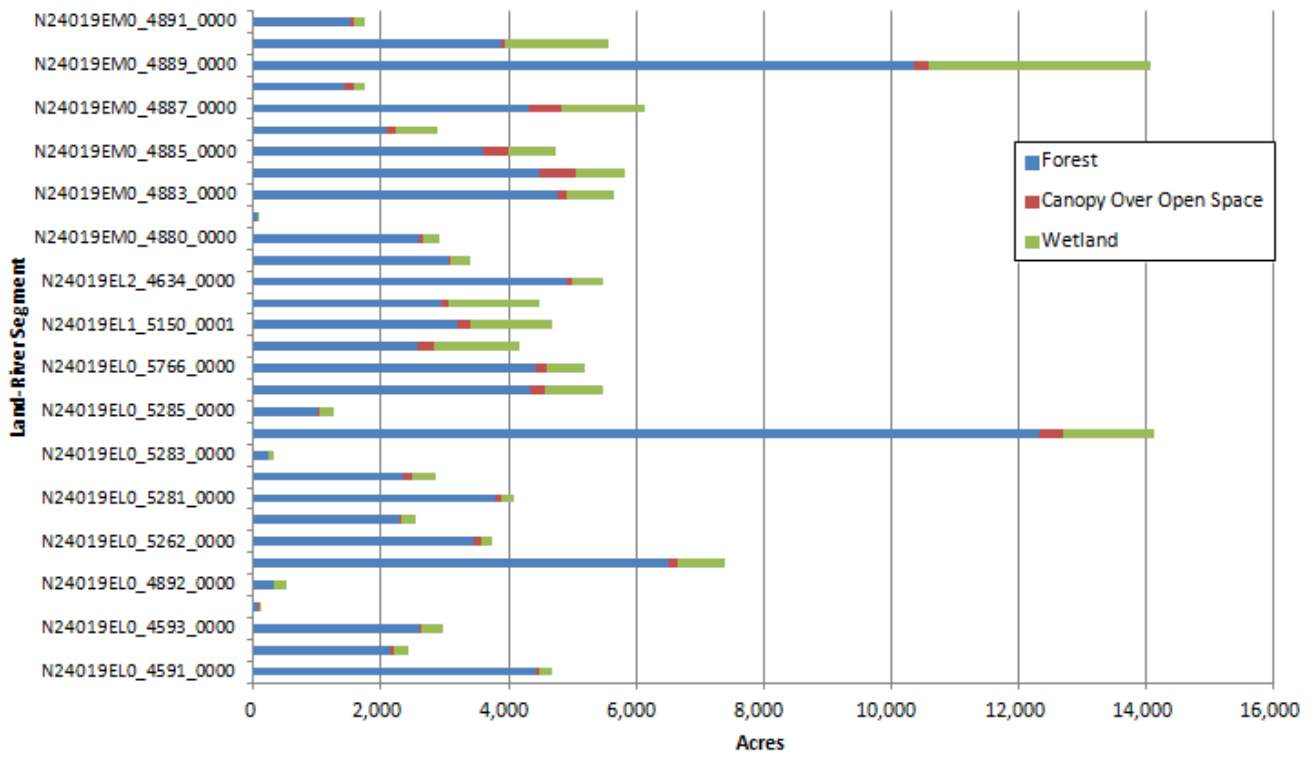
Forest: Contiguous tree canopy cover (University of Maryland’s 1 m resolution tree canopy cover data) that is greater than 1 acre in size and greater than 120 ft in width. This area excludes any canopy cover associated with wetlands.

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.



Anne Arundel County Natural Area by Segment



Anne Arundel County Land-River Segments

