

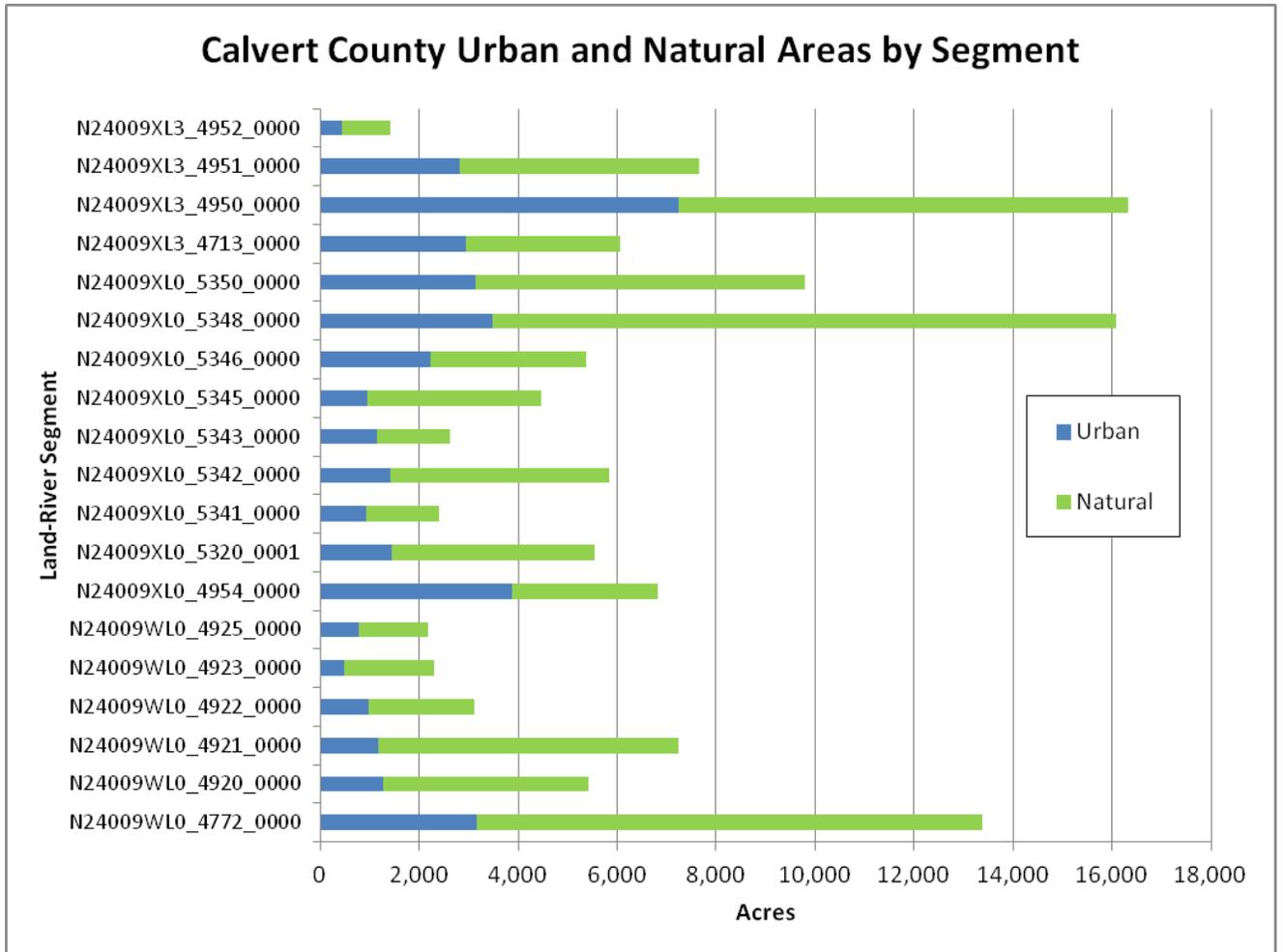
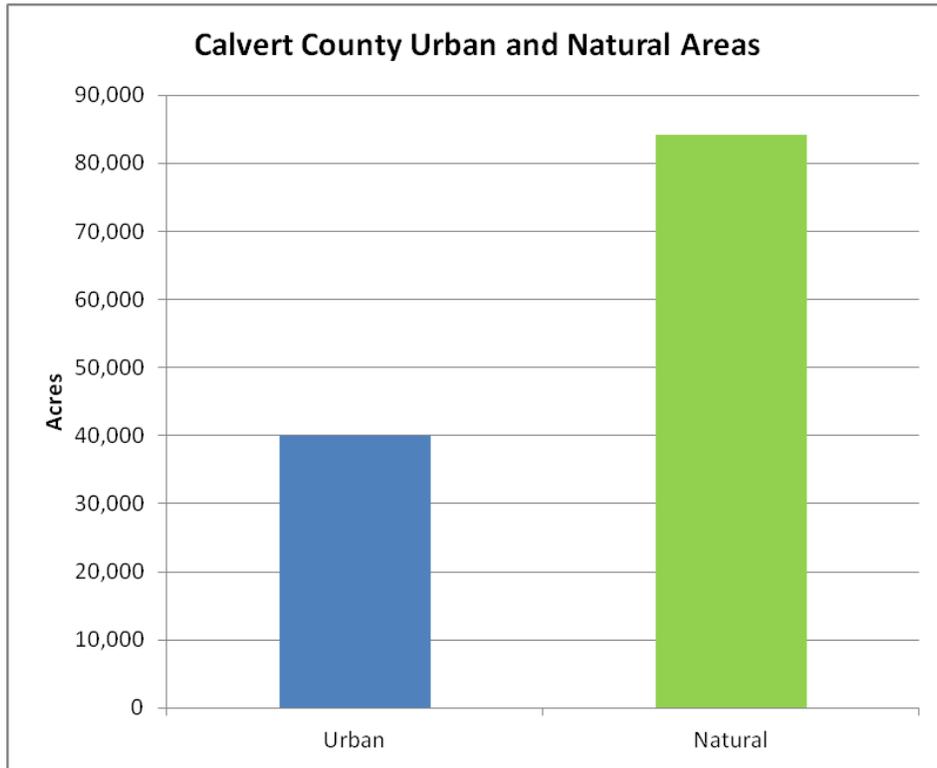
MD Estimates for the Chesapeake Bay Phase 6 Watershed Model

Land-Use, Version 1: Calvert 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.

Calvert County Urban and Natural Areas by Segment

Land-River Segment	Urban (Acres)	Natural (Acres)
N24009WLO_4772_0000	3,159.0	10,226.9
N24009WLO_4920_0000	1,282.4	4,141.7
N24009WLO_4921_0000	1,184.0	6,055.4
N24009WLO_4922_0000	984.4	2,140.3
N24009WLO_4923_0000	498.3	1,798.2
N24009WLO_4925_0000	787.8	1,405.0
N24009XLO_4954_0000	3,870.4	2,949.3
N24009XLO_5320_0001	1,437.2	4,112.6
N24009XLO_5341_0000	931.5	1,459.6
N24009XLO_5342_0000	1,422.5	4,423.1
N24009XLO_5343_0000	1,162.8	1,451.1
N24009XLO_5345_0000	945.1	3,527.5
N24009XLO_5346_0000	2,238.1	3,138.7
N24009XLO_5348_0000	3,481.3	12,601.7
N24009XLO_5350_0000	3,140.5	6,646.1
N24009XL3_4713_0000	2,933.9	3,139.2
N24009XL3_4950_0000	7,229.8	9,093.0
N24009XL3_4951_0000	2,830.3	4,823.6
N24009XL3_4952_0000	444.6	978.2
	39,963.7	84,111.0



Calvert County Urban Area by Segment

Land-River Segment	Canopy Over Impervious (Acres)	Impervious - No Canopy (Acres)	Canopy Over Turf (Acres)	Turf - No Canopy (Acres)
N24009WLO_4772_0000	167	888	653	2,146
N24009WLO_4920_0000	78	319	309	813
N24009WLO_4921_0000	41	305	156	733
N24009WLO_4922_0000	78	258	298	495
N24009WLO_4923_0000	7	88	19	288
N24009WLO_4925_0000	90	203	269	291
N24009XLO_4954_0000	199	814	791	2,024
N24009XLO_5320_0001	39	320	175	866
N24009XLO_5341_0000	14	146	59	526
N24009XLO_5342_0000	41	254	181	905
N24009XLO_5343_0000	24	167	102	768
N24009XLO_5345_0000	39	152	139	401
N24009XLO_5346_0000	42	186	139	818
N24009XLO_5348_0000	156	797	587	2,414
N24009XLO_5350_0000	81	676	405	2,658
N24009XL3_4713_0000	61	344	325	1,596
N24009XL3_4950_0000	147	1,134	1,109	5,168
N24009XL3_4951_0000	82	398	439	1,634
N24009XL3_4952_0000	15	63	59	290
	1,399	7,513	6,216	24,836

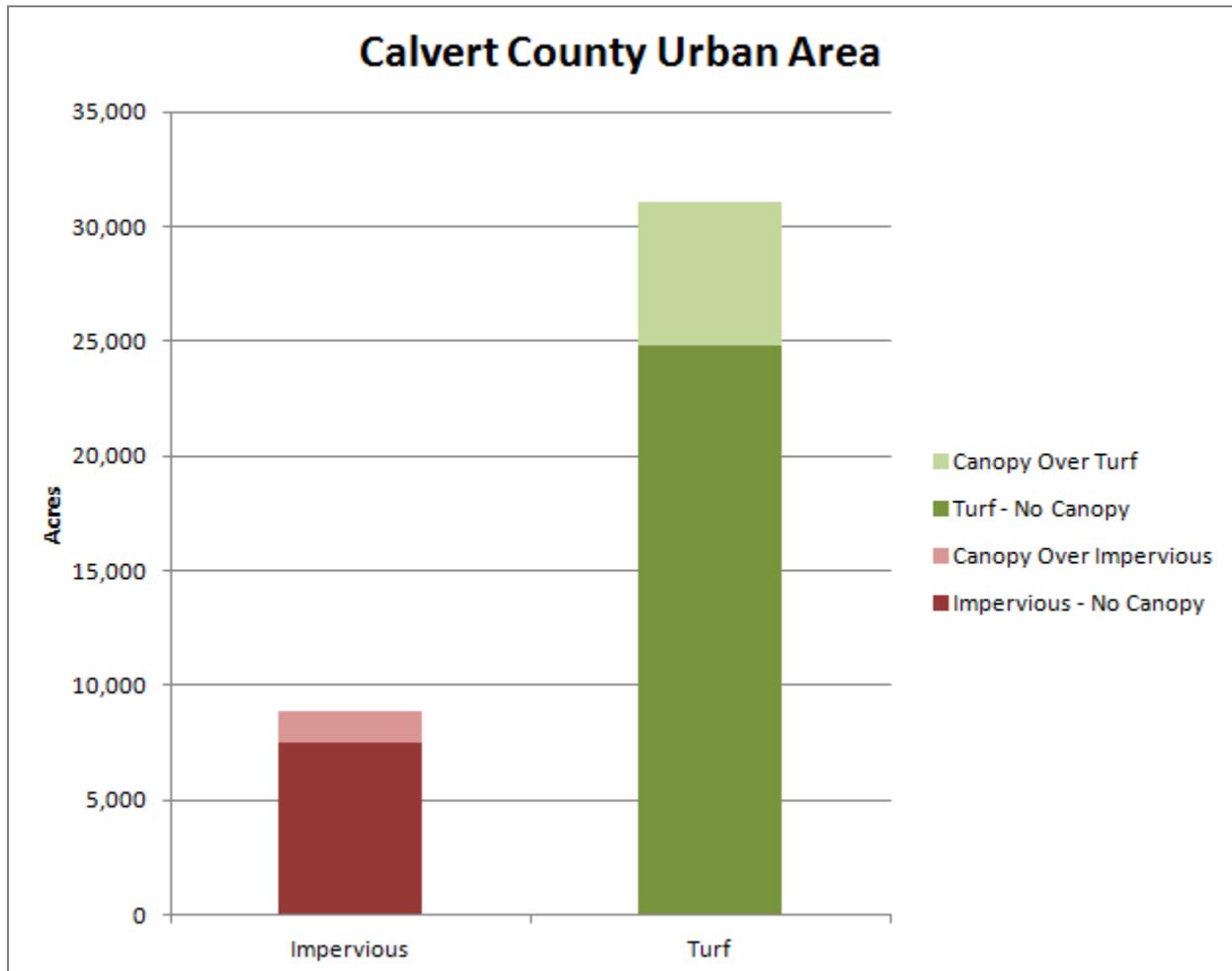
Method Summary

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.

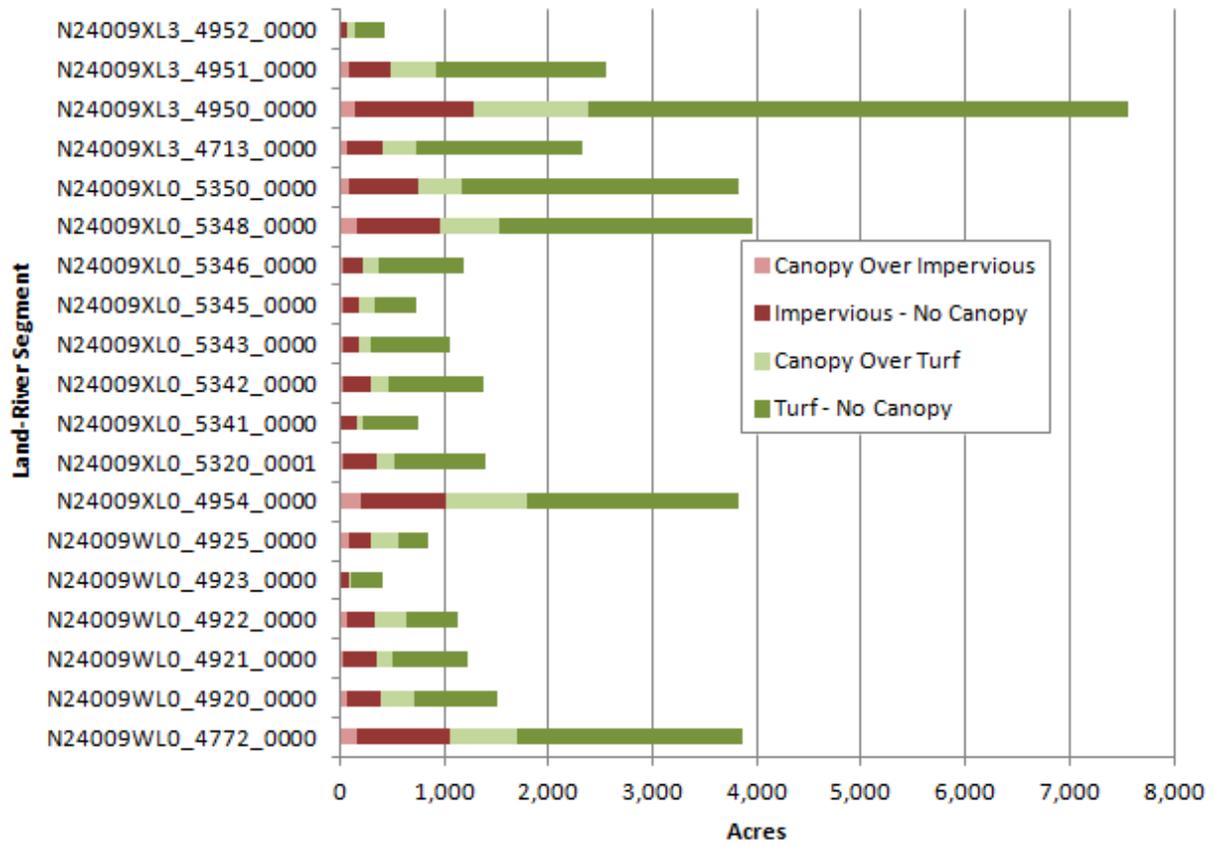
Impervious: Calculated using 2011 complete planimetric data provided by the County. Projected to 2012 conditions using 1) MDP data for residential and non-residential parcels developed between the data imagery year and 2012, and 2) NAVTEQ roads data.

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.



Calvert County Urban Area by Segment



Calvert County Natural Area by Segment

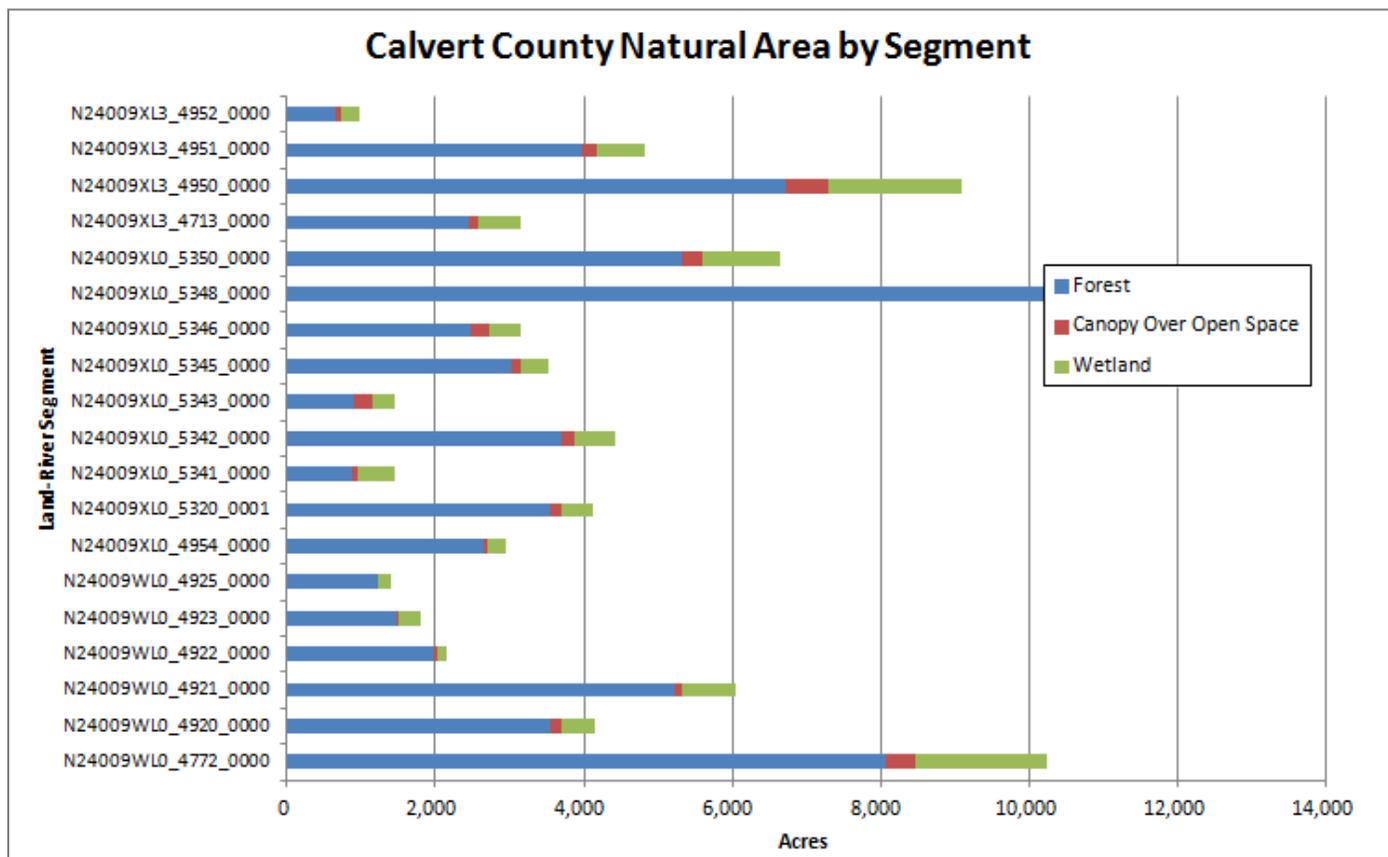
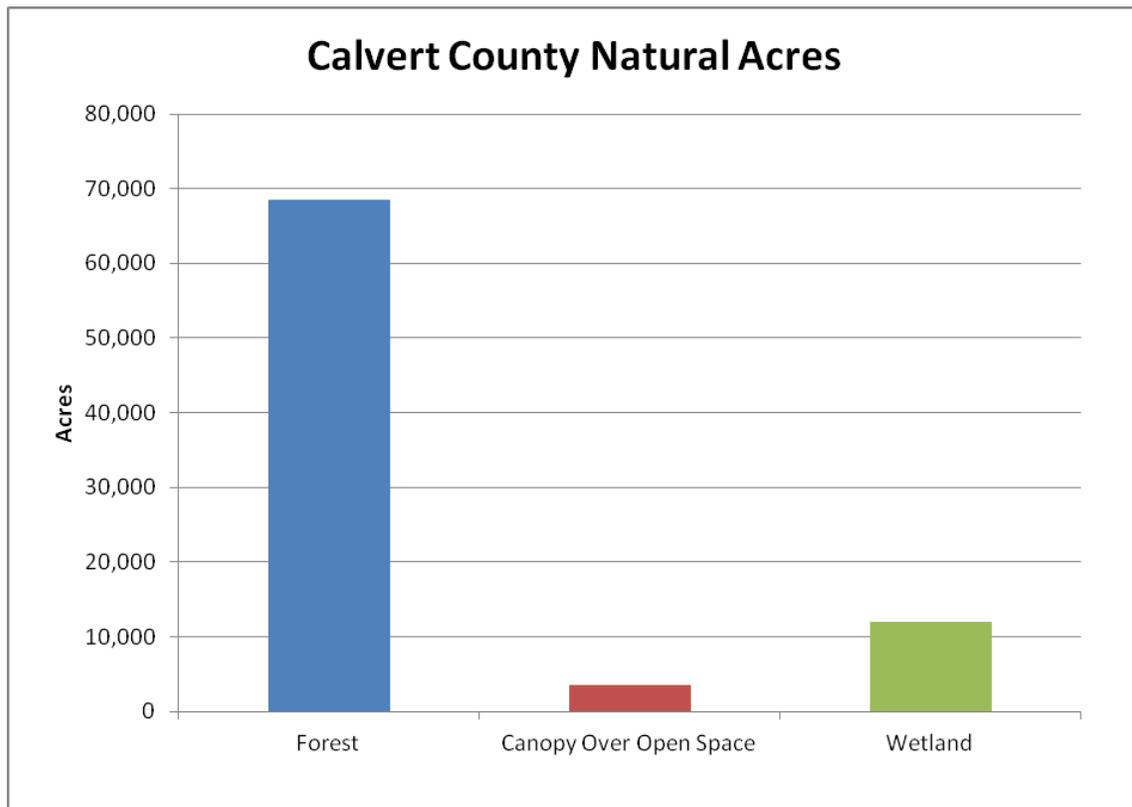
Land-River Segment	Forest (Acres)	Canopy over Open Space (Acres)	Wetland (Acres)
N24009WLO_4772_0000	8,057.9	413.4	1,755.7
N24009WLO_4920_0000	3,556.9	143.3	441.5
N24009WLO_4921_0000	5,219.0	106.3	730.0
N24009WLO_4922_0000	1,985.6	49.2	105.5
N24009WLO_4923_0000	1,482.7	24.2	291.2
N24009WLO_4925_0000	1,225.7	14.6	164.7
N24009XLO_4954_0000	2,652.1	53.9	243.3
N24009XLO_5320_0001	3,539.1	151.4	422.1
N24009XLO_5341_0000	867.5	98.2	493.8
N24009XLO_5342_0000	3,700.8	172.2	550.1
N24009XLO_5343_0000	915.8	236.4	299.0
N24009XLO_5345_0000	3,019.9	133.6	374.0
N24009XLO_5346_0000	2,465.4	249.8	423.4
N24009XLO_5348_0000	10,717.5	470.9	1,413.3
N24009XLO_5350_0000	5,320.0	287.2	1,039.0
N24009XL3_4713_0000	2,452.2	132.8	554.2
N24009XL3_4950_0000	6,721.9	575.2	1,795.8
N24009XL3_4951_0000	3,975.9	201.3	646.4
N24009XL3_4952_0000	665.1	76.2	236.9
	68,541.2	3,590.0	11,979.8

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.



Calvert County Land-River Segments

