

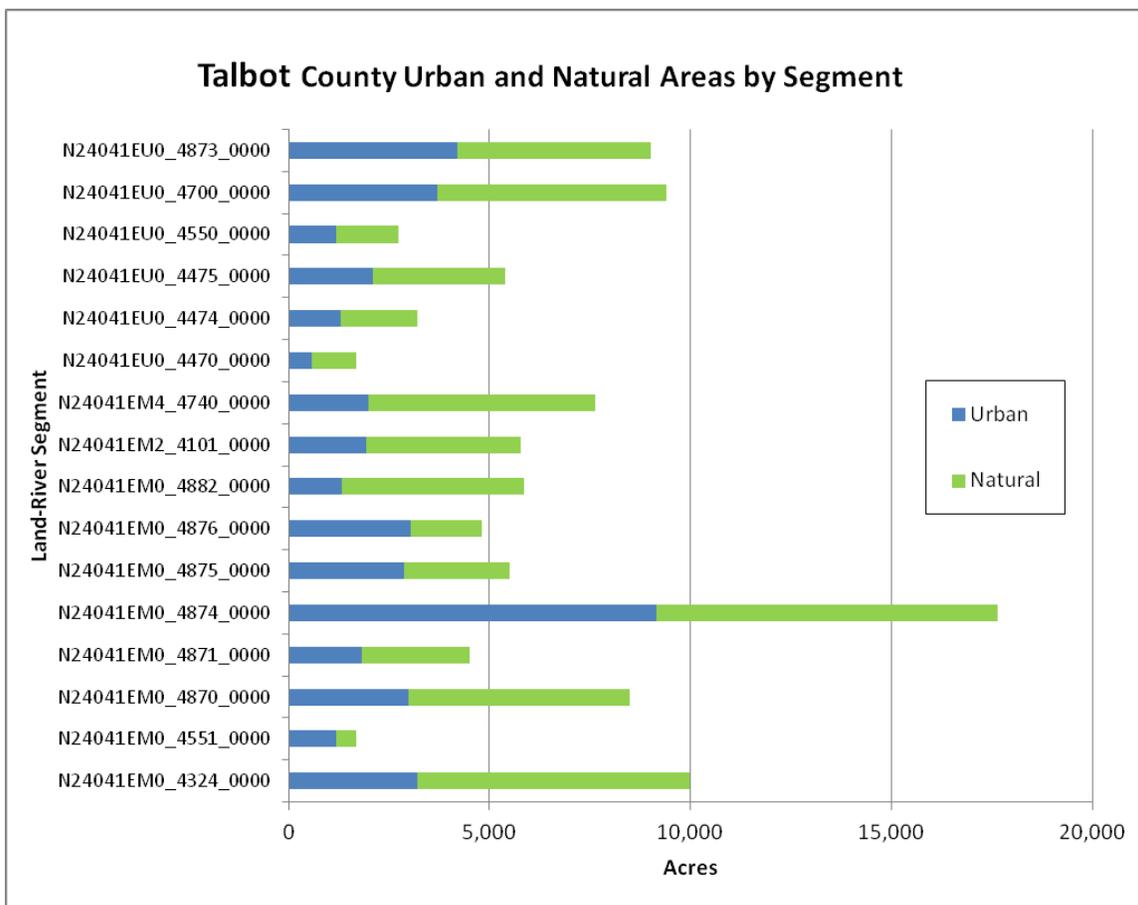
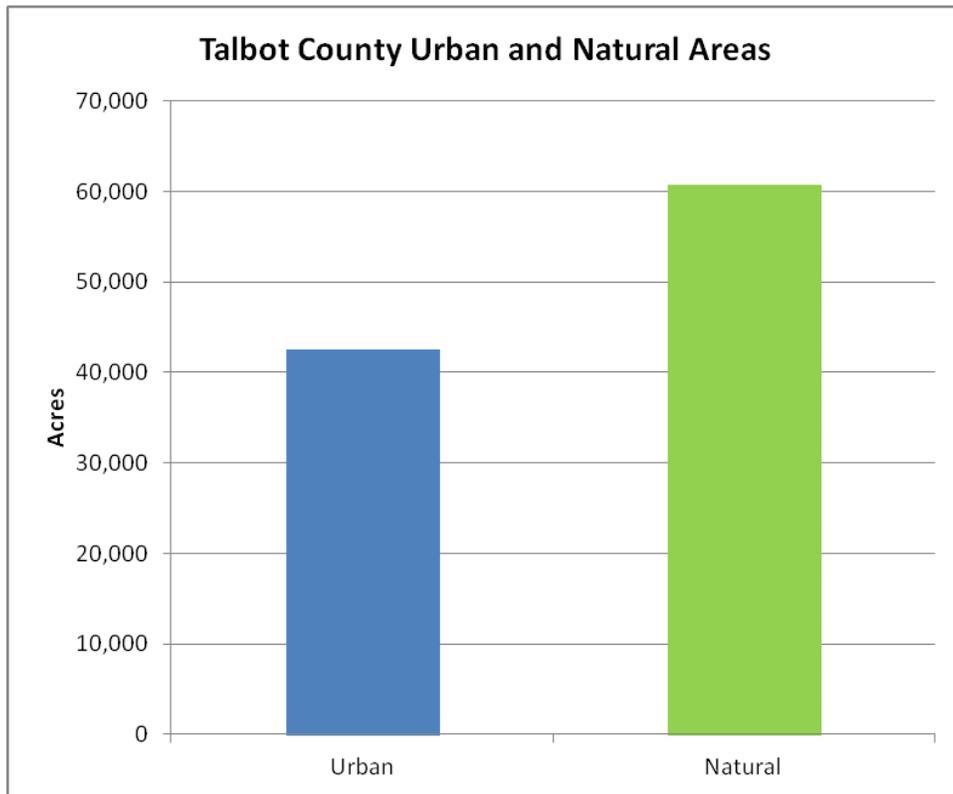
# MD Estimates for the Chesapeake Bay Phase 6 Watershed Model

## Land-Use, Version 1: Talbot 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.

### Talbot County Urban and Natural Areas by Segment

Land-River Segment	Urban (Acres)	Natural (Acres)
N24041EM0_4324_0000	3,194.4	6,795.7
N24041EM0_4551_0000	1,181.9	510.6
N24041EM0_4870_0000	2,990.1	5,499.1
N24041EM0_4871_0000	1,833.1	2,666.1
N24041EM0_4874_0000	9,144.1	8,488.3
N24041EM0_4875_0000	2,884.6	2,627.8
N24041EM0_4876_0000	3,030.9	1,787.7
N24041EM0_4882_0000	1,322.3	4,544.3
N24041EM2_4101_0000	1,935.0	3,838.0
N24041EM4_4740_0000	1,975.4	5,640.5
N24041EU0_4470_0000	573.5	1,113.0
N24041EU0_4474_0000	1,303.1	1,902.3
N24041EU0_4475_0000	2,088.0	3,288.1
N24041EU0_4550_0000	1,195.3	1,525.0
N24041EU0_4700_0000	3,705.4	5,699.6
N24041EU0_4873_0000	4,193.4	4,810.4
	<b>42,550.4</b>	<b>60,736.4</b>



## Talbot County Urban Area by Segment

Land-River Segment	Canopy Over Impervious (Acres)	Impervious - No Canopy (Acres)	Canopy Over Turf (Acres)	Turf - No Canopy (Acres)
N24041EM0_4324_0000	88	560	74	2,696
N24041EM0_4551_0000	17	72	23	511
N24041EM0_4870_0000	298	427	100	2,494
N24041EM0_4871_0000	82	190	55	1,053
N24041EM0_4874_0000	490	1,702	446	8,426
N24041EM0_4875_0000	137	347	92	2,309
N24041EM0_4876_0000	53	121	27	812
N24041EM0_4882_0000	82	268	31	941
N24041EM2_4101_0000	50	375	46	1,819
N24041EM4_4740_0000	78	318	35	1,794
N24041EU0_4470_0000	8	62	8	209
N24041EU0_4474_0000	58	89	6	519
N24041EU0_4475_0000	52	304	44	1,338
N24041EU0_4550_0000	57	95	24	1,083
N24041EU0_4700_0000	141	637	90	3,464
N24041EU0_4873_0000	226	480	176	3,843
	<b>1,916</b>	<b>6,047</b>	<b>1,277</b>	<b>33,310</b>

### **Method Summary**

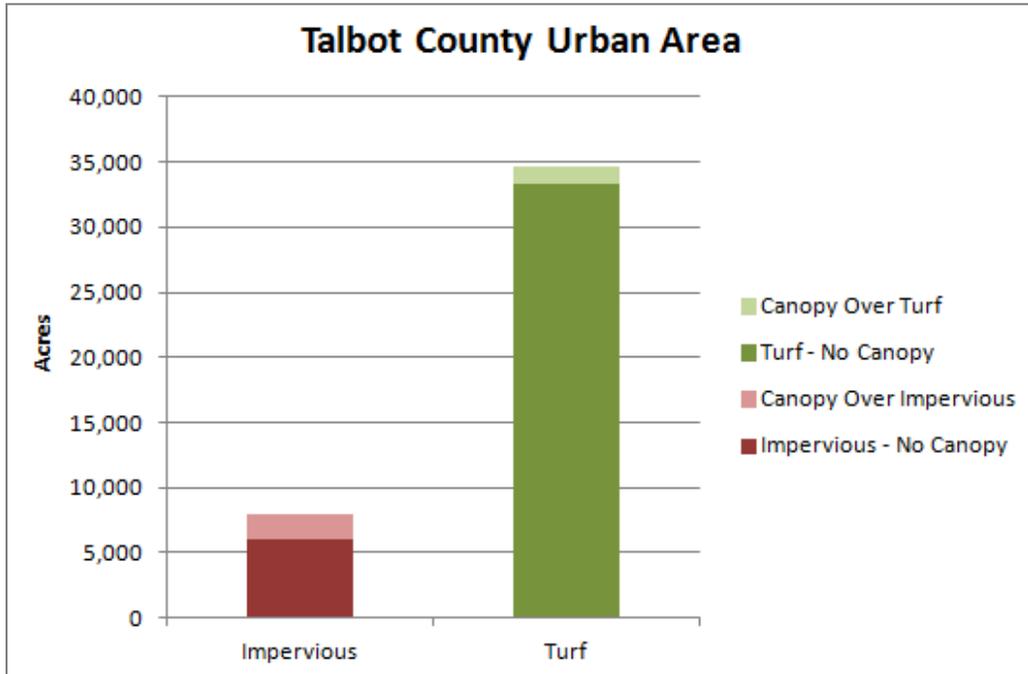
**Turf:** Calculated by applying the ratio of Chesapeake Bay Phase 5.3.2 Watershed Model urban pervious acres to impervious acres to the Phase 6 2012 impervious acres. MD acknowledges the inaccuracy of these turf acres. Turf estimates should be significantly improved upon in the final model Land Use,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

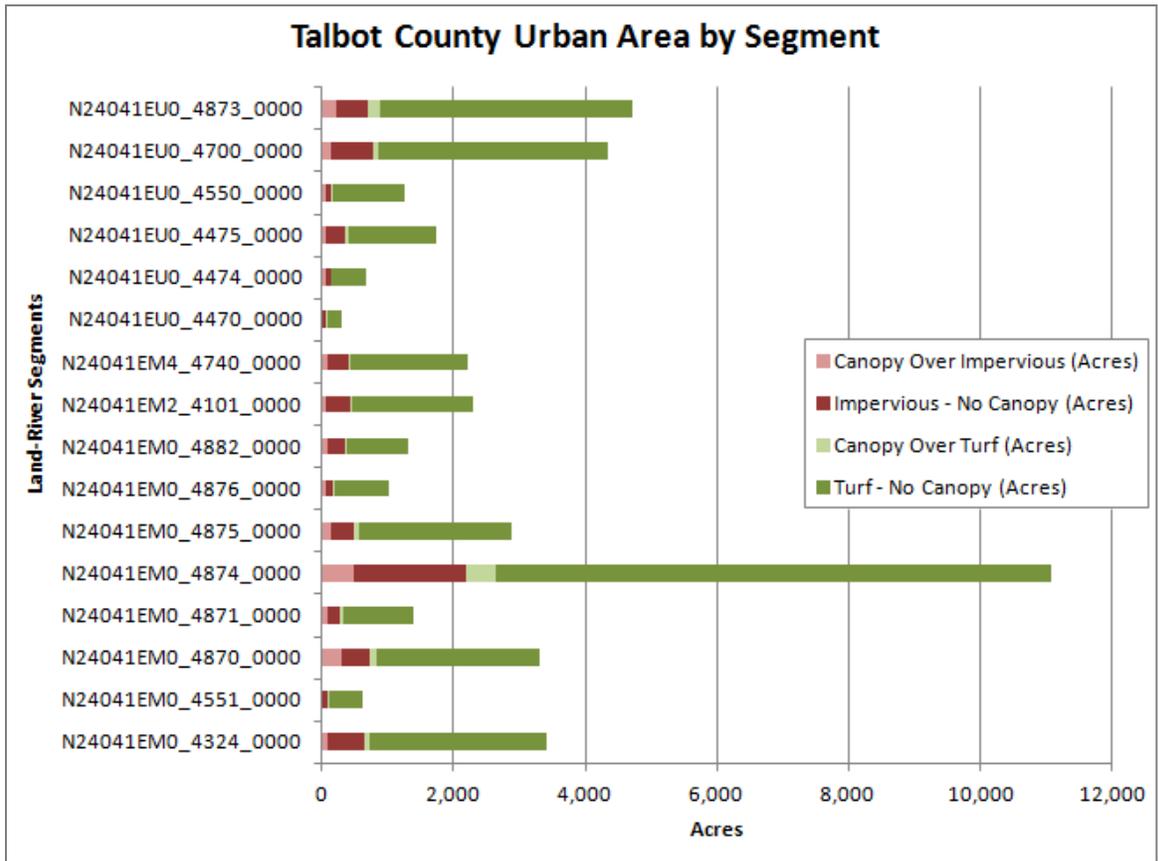
**Impervious:** Calculated using 2010 planimetric data provided by the County. Projected to 2012 conditions using 1) MDP data for residential and non-residential parcels developed between the data imagery year and 2012, and 2) NAVTEQ roads data. Coefficients were applied to correct for the features missing from the planimetric dataset: patios, recreational features, and sidewalks. 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.





### Talbot County Natural Area by Segment

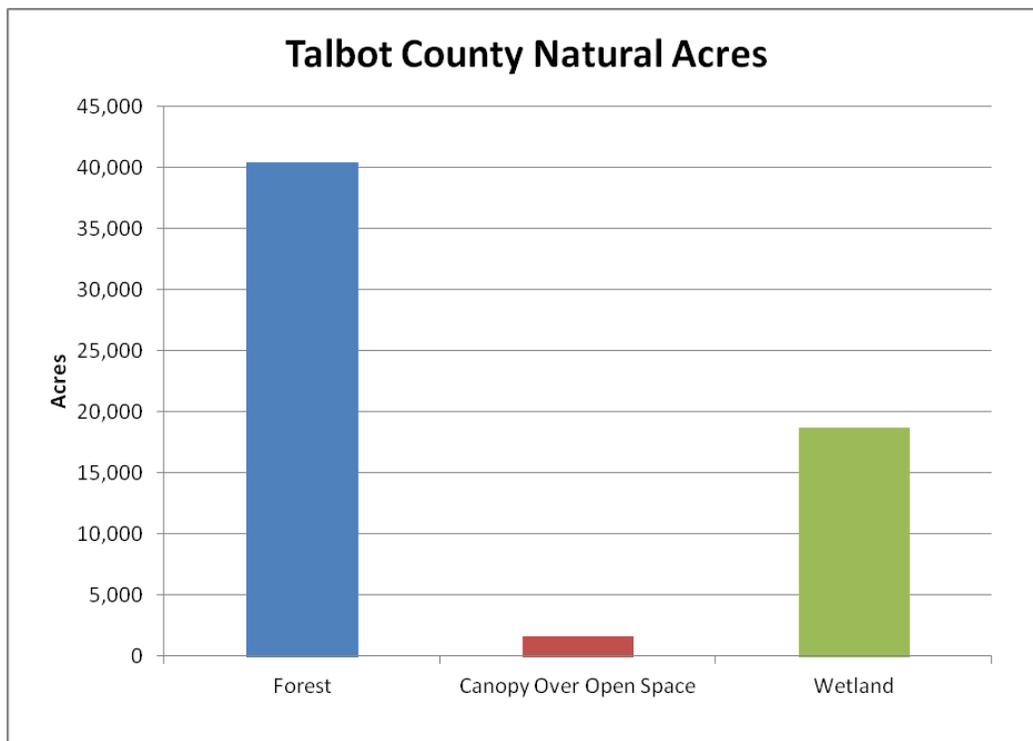
Land-River Segment	Forest (Acres)	Canopy over Open Space (Acres)	Wetland (Acres)
N24041EMO_4324_0000	3,997.6	112.4	2,685.7
N24041EMO_4551_0000	273.4	15.8	221.5
N24041EMO_4870_0000	4,262.4	197.9	1,038.8
N24041EMO_4871_0000	1,956.4	92.0	617.7
N24041EMO_4874_0000	6,301.9	263.9	1,922.5
N24041EMO_4875_0000	1,694.6	96.8	836.4
N24041EMO_4876_0000	1,320.7	66.0	401.1
N24041EMO_4882_0000	3,139.1	111.4	1,293.7
N24041EM2_4101_0000	2,077.5	74.5	1,685.9
N24041EM4_4740_0000	3,716.5	72.1	1,851.9
N24041EU0_4470_0000	736.1	26.0	350.9
N24041EU0_4474_0000	1,059.7	96.8	745.8
N24041EU0_4475_0000	2,094.8	60.3	1,133.1
N24041EU0_4550_0000	858.3	54.5	612.2
N24041EU0_4700_0000	3,987.7	127.5	1,584.4
N24041EU0_4873_0000	2,915.7	153.8	1,740.8
<b>Total</b>	<b>40,392.4</b>	<b>1,621.6</b>	<b>18,722.4</b>

## **Method Summary**

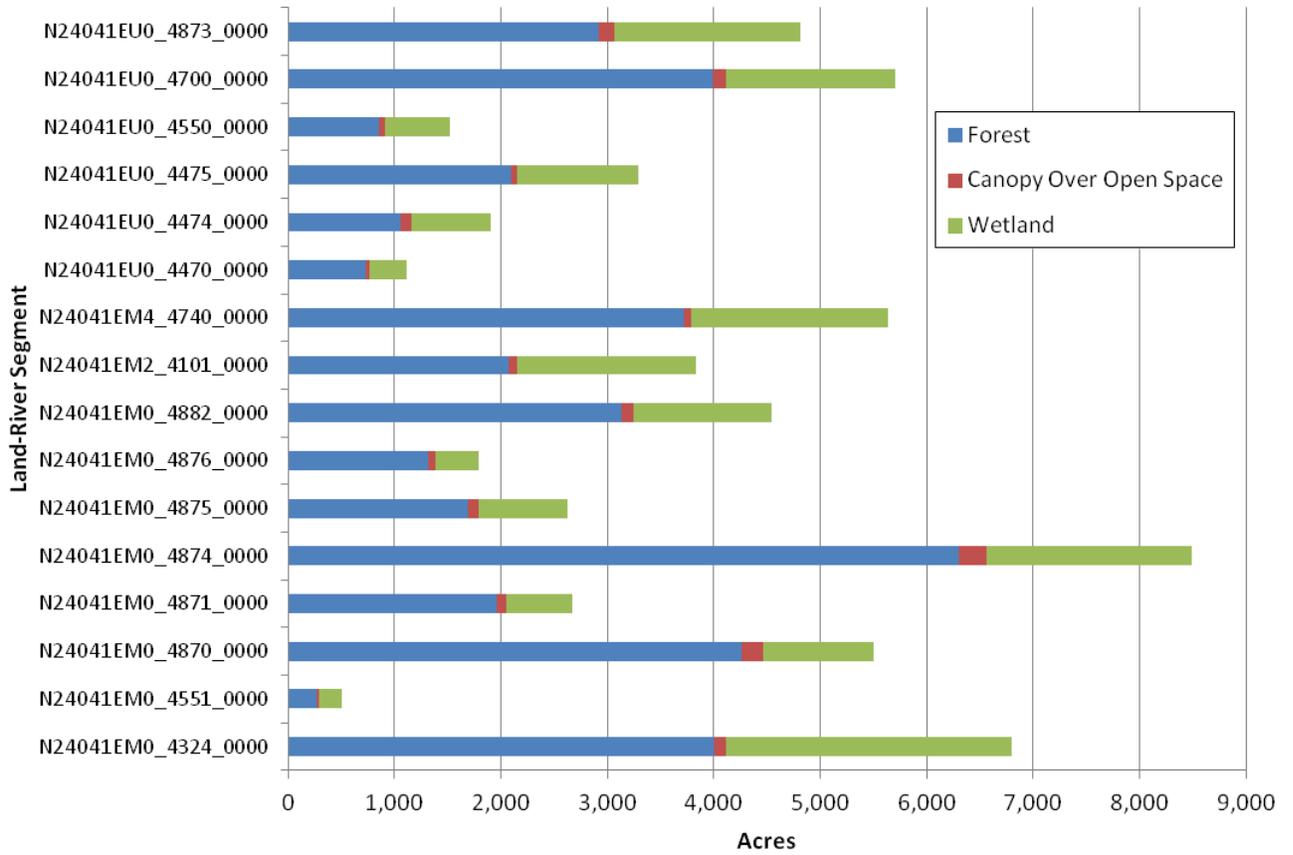
**Forest:** Contiguous tree canopy cover (University of Maryland’s 1 m resolution tree canopy cover data) that is greater than 1 acre in size and greater than 120 ft in width. This area excludes any canopy cover associated with wetlands.

**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.



## Talbot County 2012 Natural Area by Segment



# Talbot County Land-River Segments

