

# BMP CREDITING FOR TREE PANTING IN COG REGION

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COG staff information

Regional Tree Planting Stormwater Credit Potential Workshop  
June 25, 2019



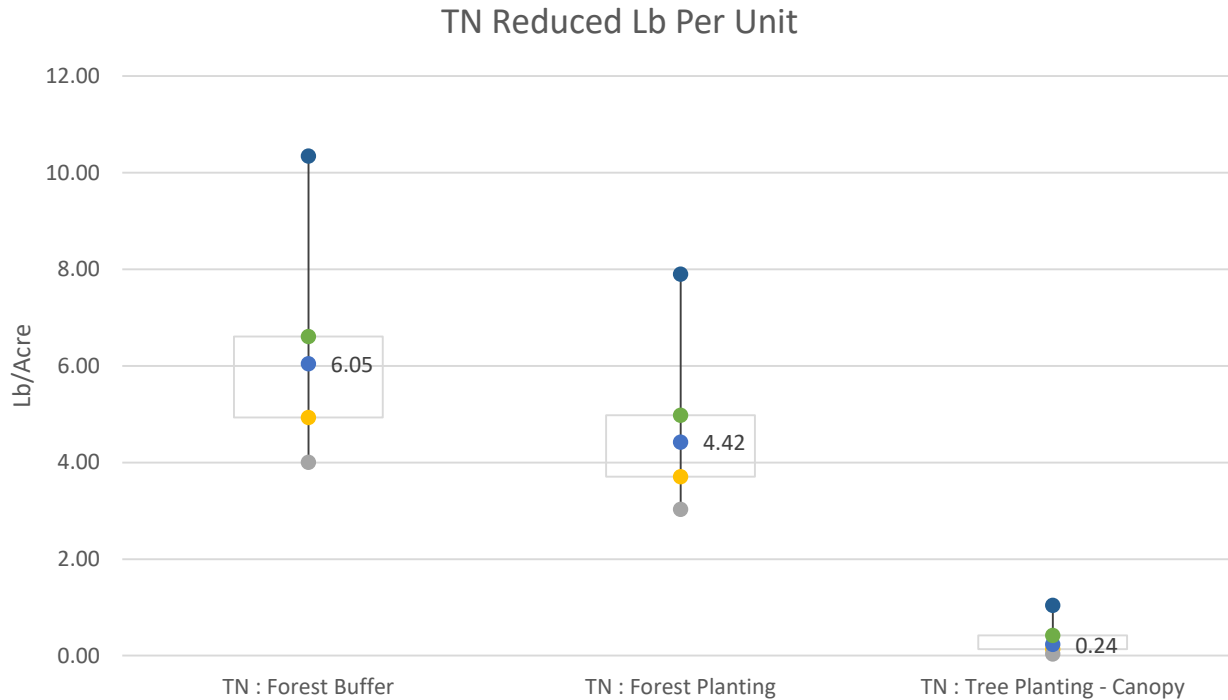
Metropolitan Washington  
Council of Governments

# Applicable CBP BMPs

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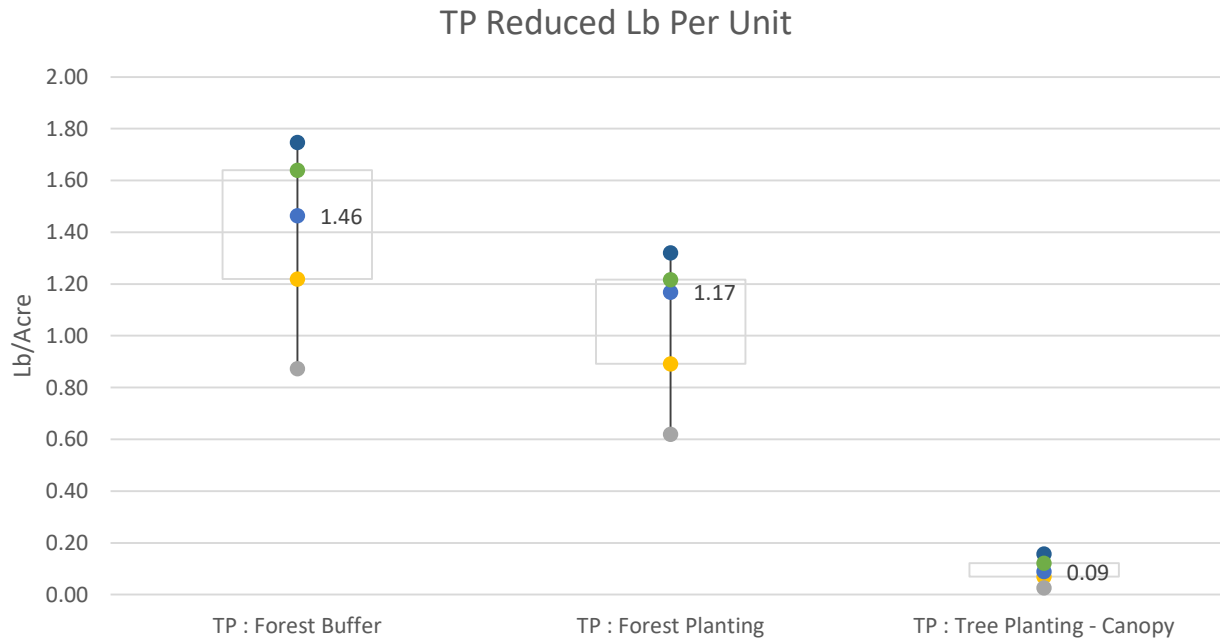
- Urban Forest Buffer
  - Linear wooded areas that help filter nutrients, sediments and other pollutants from runoff as well as remove nutrients from groundwater.
- Forest Planting
  - Planting trees in a contiguous area to establish forest-like conditions
- Tree Planting – Canopy
  - Individual tree plantings (e.g. street trees or trees planted on private property that result in an increase in tree canopy but not in forest-like conditions
- Generally, the crediting for all three of these practices is based on change in land use to a lower loading category

# Credit Values - Nitrogen



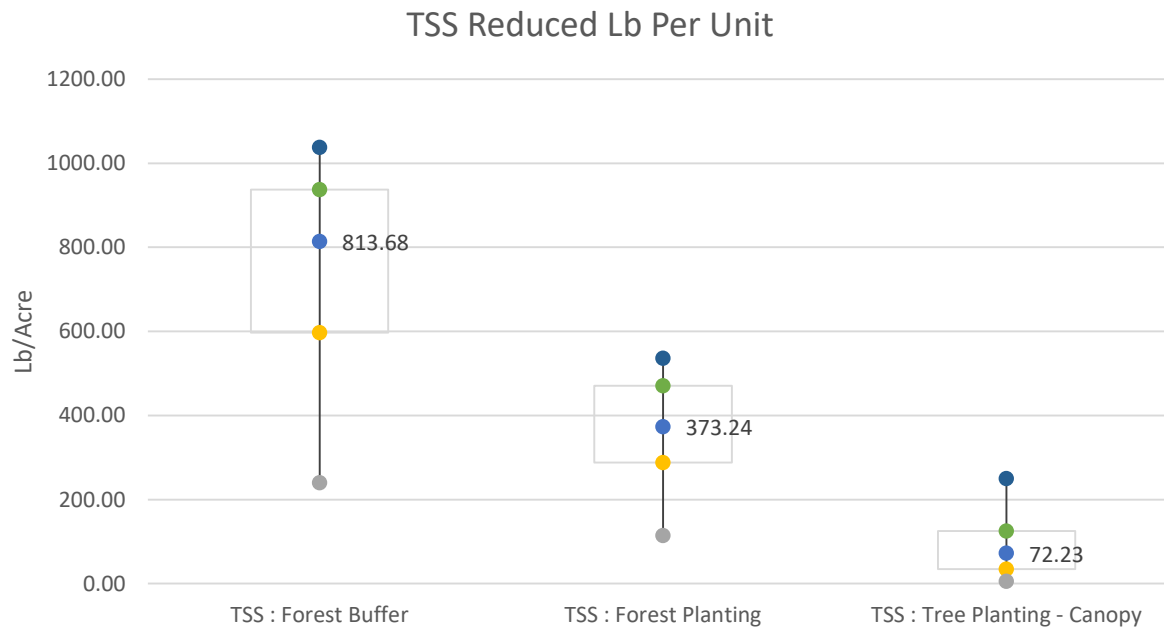
COG Region values computed from CAST

# Credit Values - Phosphorus



COG Region values computed from CAST

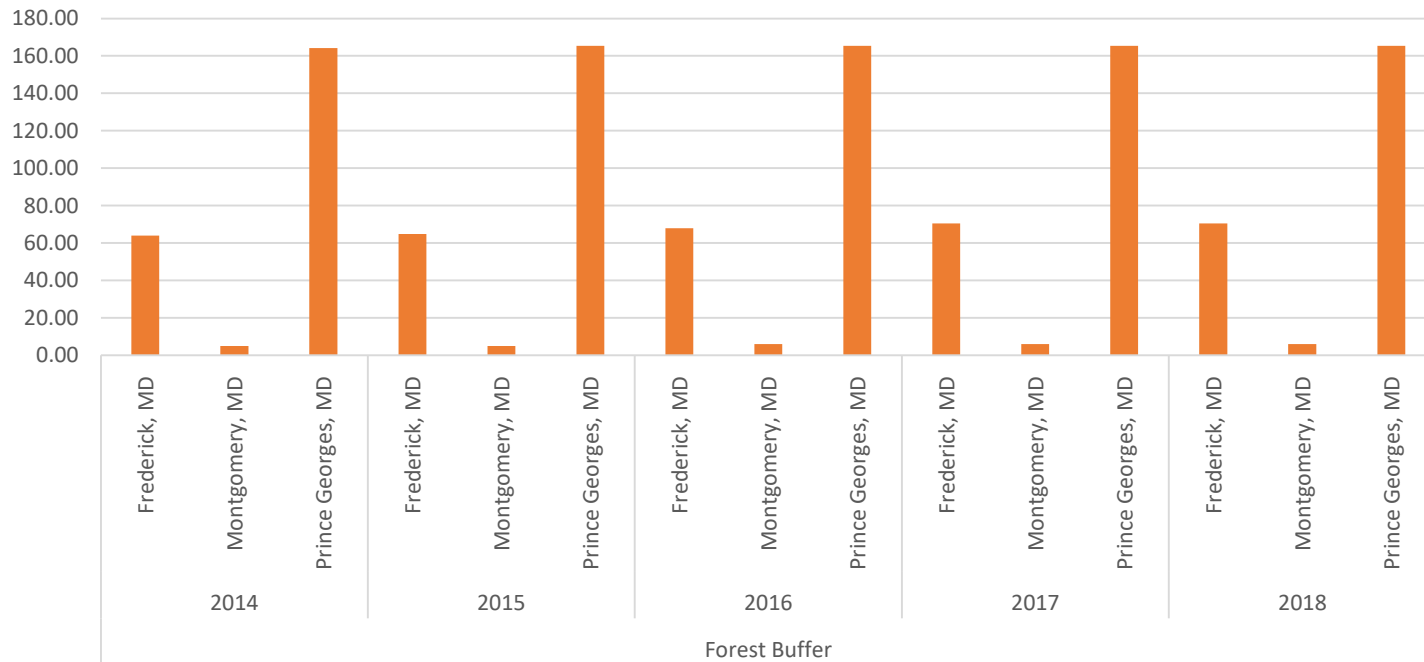
# Credit Values - Sediment



COG Region values computed from CAST

# Efforts to Date – Forest Buffers

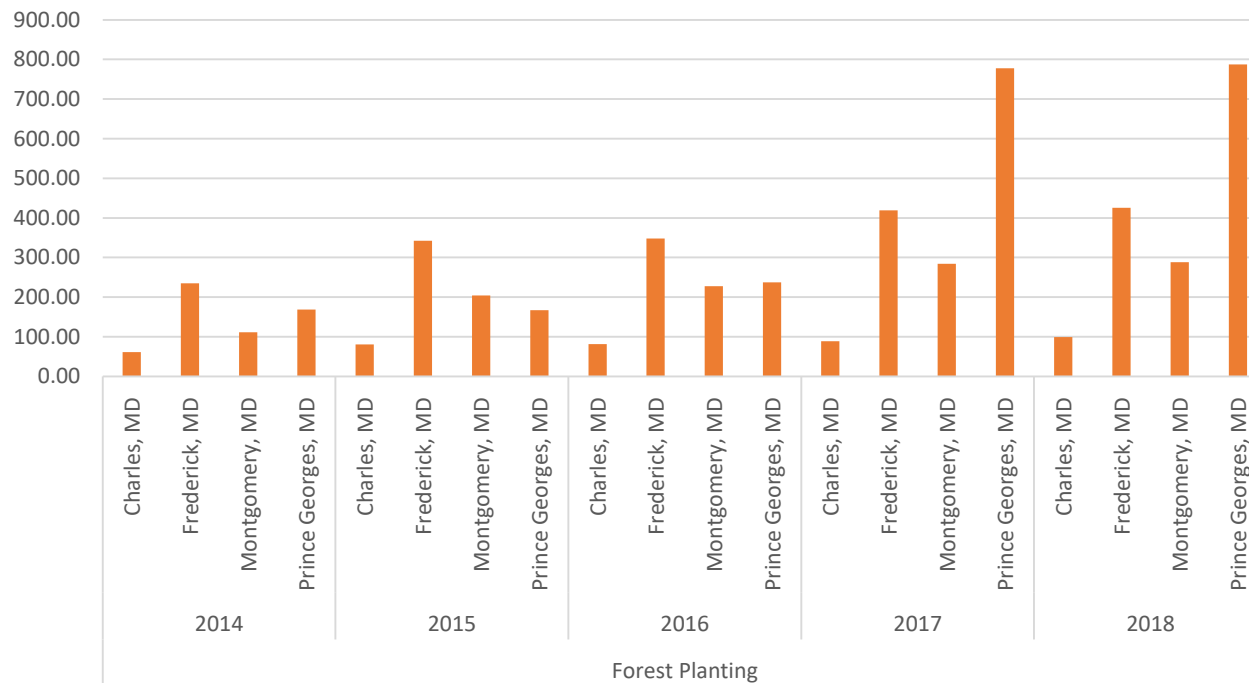
Riparian Forest Buffer Acres - COG Region Jurisdictions



COG jurisdiction totals computed from CAST

# Efforts to Date – Forest Planting

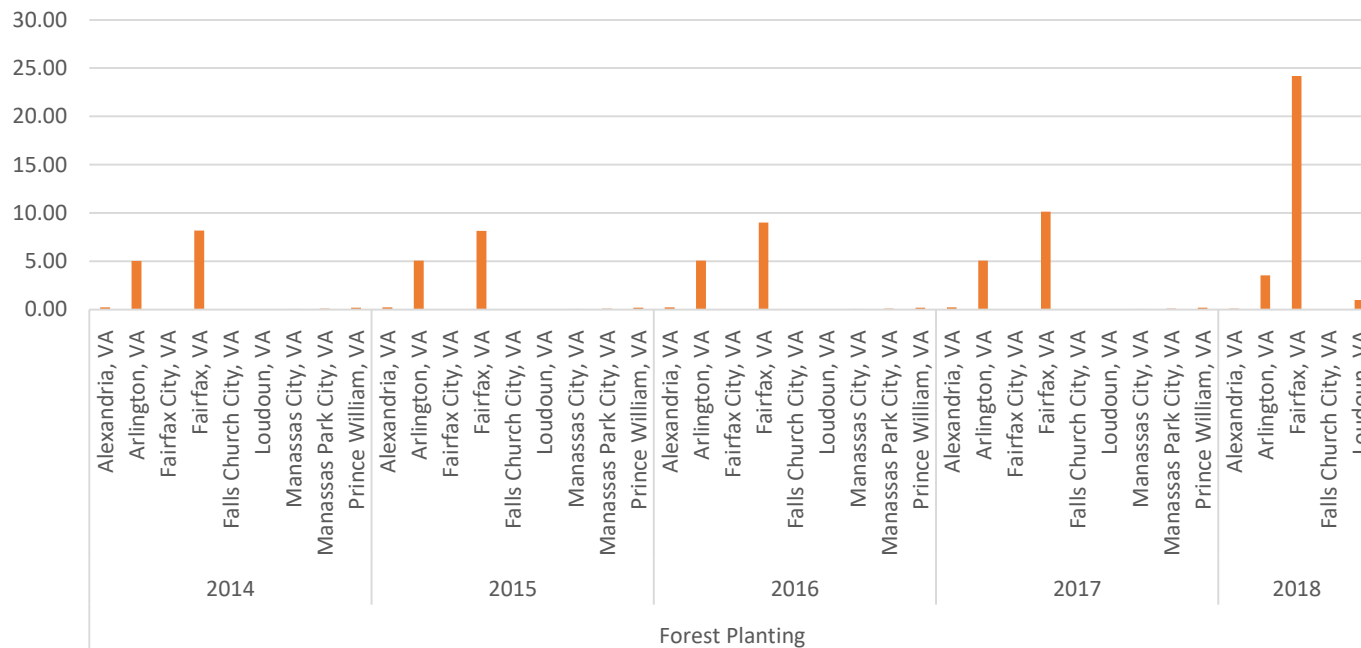
Forest Planting Acres - COG MD Jurisdictions



COG jurisdiction totals computed from CAST

# Efforts to Date - Forest Planting

Forest Planting Acres - COG VA Jurisdictions

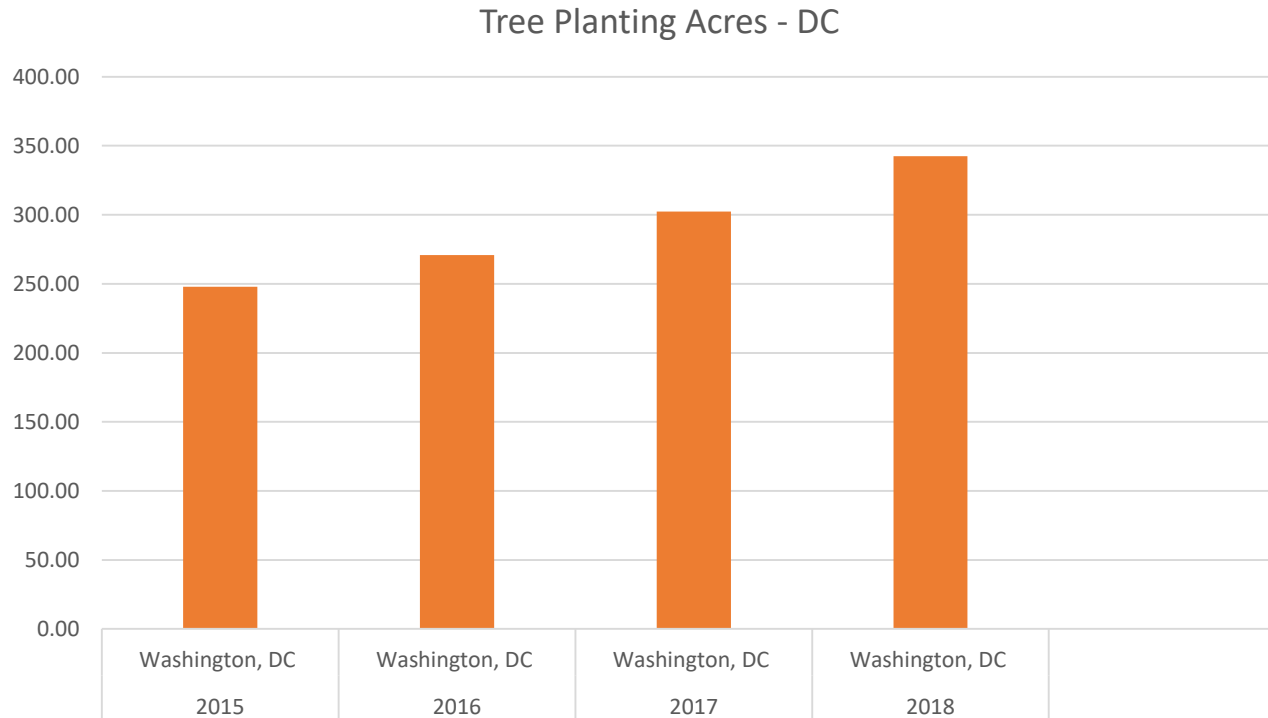


COG jurisdiction totals computed from CAST





# Efforts to Date – Tree Planting



COG jurisdiction totals computed from CAST

# Virginia Draft WIP – Emphasis on Tree Planting

Numbers are for NVRC Region Load Allocation Acres  
(not under MS4 permits)

<u>BMP</u>	<u>WIP II</u>	<u>WIP III Draft</u>	<u>Units</u>
Stream Restoration	24,491	168,786	Feet
Shoreline Management	0	2,003,605	Feet
Storm Drain Cleaning	0	308,120	lbs
Grey Infrastructure(IDDE)	0	17,301	Acres
Permeable Pavement	30	4,314	Acres
Storm Water Treatment Performance Standard	0	19,982	Acres
			Acres
Tree Planting - Canopy	0	19,463	Acres
Forest Buffer	1,420	13,043	Acres
Forest Planting	325	6,218	Acres
Septic Pumping	18,630	28,619	Systems

Plan strongly shifts towards BMPs that many localities have limited experience when it comes to review, reporting, inspection, and verification.

# Some Observations

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- Tree BMPs have not been the main drivers for restoration efforts
  - Tree BMPs account for 0 – 5 % of total reduction numbers to date
  - Stream restoration and wet pond retrofits account for most MS4 reduction credits to date
- Highly urban jurisdictions have limited opportunity for forest and forest buffer planting, but can credit tree planting
- Based on Maryland and the District's experience, there would appear to be more opportunity for tree credit in Virginia
- There are a lot of reasons to plant trees other than TMDL/MS4 credit (co-benefits)
  - If you're doing it anyway, consider credit opportunities