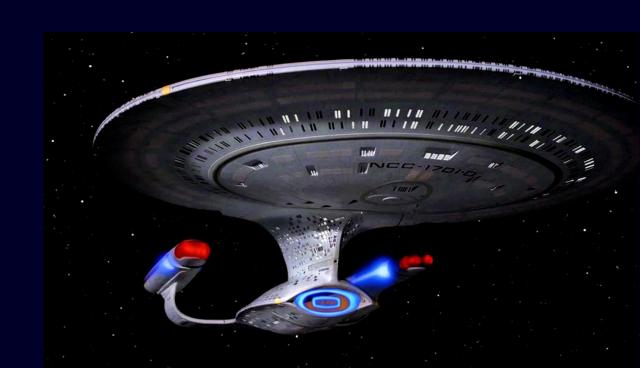


THE NEXT GENERATION

Peter Claggett, Coordinator CBP Land Use Workgroup

December 4, 2019 Joint Land Use and Forestry Workgroup Meeting

U.S. Department of the Interior U.S. Geological Survey



Local land use and parcel data

High-resolution land cover data

- Low-density Residential
- Recreation
- Agriculture
- Roads

- Impervious surfaces
- Tree canopy
- Low vegetation
- Water

Phase 6 Land Uses

- Impervious-Roads
- Forests
- Turf Grass
- Open Space



2013 Chesapeake Bay Watershed Land Cover/Use Data

1m Land Cover



1m Land Use



Agriculture

10m Land Cover/Use

Impervious Roads
Impervious Non-Roads
Tree Canopy Over Impervious
Tree Canopy Over Turf Grass
Turf Grass
Forest
Wetlands (Floodplain)
Wetlands (Other)
Wetlands (Tidal)
Water

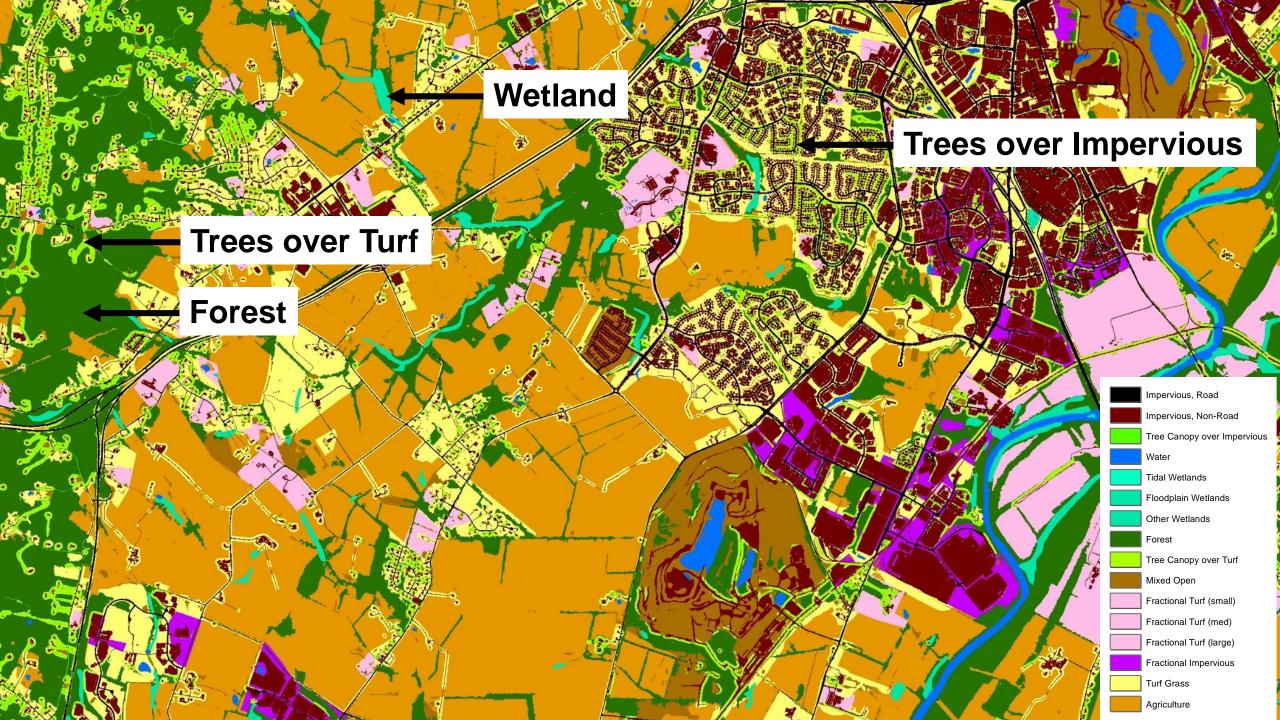


Cropland

Pasture

Mixed Open





New Land Uses Nested in Land Cover

Tree Canopy

- Tree Canopy Over Impervious
- Tree Canopy Over Turf Grass
- Forest
 - Non-Tidal Wetlands (Forested)
 - Floodplain
 - Headwater
 - Other
- Cultivated Trees (orchards, vineyards)

<u>Impervious</u>

- Roads
- Non-Roads
 - Buildings
 - Urban
 - Agricultural
 - Solar fields
 - Other (driveways, parking lots)

Water

- Tidal
- Non-Tidal Lotic (stream)
- Non-Tidal Lentic (pond)

Herbaceous/Barren/Scrub-shrub

- Turf grass
- Pasture
- Cropland
 - Center Pivot
- Mixed Open
 - Harvested Forest (0-3 yrs)
 - Managed succession (post harvest)
 - Natural succession (fallow)
 - Suspended succession (rights-of-way)
 - Extractive (active)
 - Construction (bare pre-development)
 - Bare shore
- Tidal Wetlands
- Non-Tidal Wetlands (Scrub/Herb/Bare)
 - Floodplain
 - Headwater
 - Other



^{*} White classes are current.

^{*} Yellow classes are proposed.

Land Use Overlays*

Existing

- Federal Lands
- MS4 Areas
- Sewer Service Areas
- FEMA Floodplains (HAZUS)
- Frequently Flooded Soils (gSSURGO)
- National Wetlands Inventory
- State Wetlands Inventories
- Cropland (Cropland Data Layer)
- Pasture (Cropland Data Layer)
- Parcels
- Land Use (County/City/State)
- Tidal/Estuarine Zone
- Surface Mines
- Landfills
- Roads

Proposed (new)

- Deciduous Trees (from land cover)
- Evergreen Trees (from land cover)
- Ground Elevation (1m, LiDAR DEM)
- Ground Elevation (1m, LiDAR DTM)
- Surface Elevation (1m, LiDAR DSM)
- Classified Point Cloud (normalized to the ground)
- Height (normalized DSM to ground elevation)
- Intensity (1m, LiDAR)
- Compound Topographic Index (3m, LiDAR)
- Poultry Houses (USGS polygons- for DelMarVA)
- Solar fields (points from VA-DEQ, other?)
- Center-Pivot Irrigated Fields (DE)
- Historical Land Cover Change (1985 2017; USGS-LCMAP)
- Agricultural business addresses (ESRI)
- Transmission Lines (TBD)
- Buildings (Microsoft)
- Marine/ Lentic/ Lotic shore



^{*} Overlays represent ancillary spatial data that are either used or could be used to inform the land use classification.

