



Land Use/Land Cover: Further Refining Classification Scheme for Forest and Tree Canopy Classes

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Introduction

- Chesapeake Conservancy (CC) and USGS are currently working on the 2024 Edition of Land Use/Land Cover (LULC)
- LUWG and FWG agreed on the proposed 68 classes at the joint meeting in January
 - 20 Forestry and Tree Canopy classes



CBP Land Use/Cover Classification (68 planned for 2024 Ed., agreed upon by FWG and LUWG)

1. Water (11)

- 1.1 Estuarine / Marine
- 1.2 Lentic (fresh)
 - 1.2.1 Lakes and reservoirs
 - 1.2.2 Riverine ponds
 - 1.2.3 Terrene ponds
- 1.3 Lotic (fresh)
 - 1.3.1 Channels (24K density)
 - 1.3.1.1 Open Channel
 - 1.3.1.2 Tree Canopy over Channel
 - 1.3.1.3 Culverted
 - 1.3.2 Ditches
 - 1.3.2.1 Open Ditch
 - 1.3.2.2 Tree Canopy over Ditch
 - 1.3.2.3 Culverted
 - 1.3.3 Other Channelized Flow Features (OCFF)
 - 1.3.2.1 Open OCFF
 - 1.3.2.2 Tree Canopy over OCFF
 - 1.3.2.3 Culverted OCFF

2. Developed (12)

- 2.1 Impervious
 - 2.1.1 Roads
 - 2.1.2 Structures
 - 2.1.3 Other Impervious
 - 2.1.4 Tree Canopy (TC) over Impervious
 - 2.1.4.1 TC over Roads
 - 2.1.4.2 TC over Structures
 - 2.1.4.3 TC over Other Impervious
- 2.2 Pervious
 - 2.2.1 Turf Grass
 - 2.2.2 Transitional Barren
 - 2.2.3 Suspended Succession
 - 2.2.3.1 Barren
 - 2.2.3.2 Herbaceous
 - 2.2.3.3 Scrub-shrub
 - 2.2.4 Tree Canopy over Turf Grass

3. Forested (7)

- 3.1 Forest
- 3.2 Other Tree Canopy
- 3.3 Harvested Forest
 - 3.3.1 Barren
 - 3.3.2 Herbaceous
- 3.4 Natural Succession
 - 3.4.1 Barren
 - 3.4.2 Herbaceous
 - 3.4.3 Scrub-shrub

4. Production (17)

- 4.1 Agriculture
 - 4.1.1 Cropland
 - 4.1.1.1 Barren
 - 4.1.1.2 Herbaceous
 - 4.1.2 Pasture/Hay
 - 4.1.2.1 Barren
 - 4.1.2.2 Herbaceous
 - 4.1.2.3 Scrub-shrub
 - 4.1.3 Orchard/vineyard
 - 4.1.3.1 Barren
 - 4.1.3.2 Herbaceous
 - 4.1.3.3 Scrub-shrub
 - 4.1.4 Animal Operations
 - 4.1.4.1 Impervious
 - 4.1.4.2 Barren
 - 4.1.4.3 Herbaceous
- 4.2 Solar fields
 - 4.2.1 Impervious
 - 4.2.2 Pervious
 - 4.2.2.1 Barren
 - 4.2.2.2 Herbaceous
 - 4.2.2.3 Scrub-shrub

4.3 Extractive (active mines)

- 4.3.1 Barren
- 4.3.2 Impervious

5. Wetlands and Water Margins (16)

5.1 Tidal

- 5.1.1 Barren
- 5.1.2 Herbaceous
- 5.1.3 Scrub-shrub
- 5.1.4 Other Tree Canopy
- 5.1.5 Forest
- 5.1.6 Harvested Forest

5.2 Riverine (Non-tidal)

- 5.2.1. Barren
- 5.2.2 Herbaceous
- 5.2.3 Scrub-shrub
- 5.2.4 Other Tree Canopy
- 5.2.5 Forest
- 5.2.6 Harvested Forest

5.3 Terrene/Isolated (Non-tidal)

- 5.3.1 Barren
- 5.3.2 Herbaceous
- 5.3.3 Scrub-shrub
- 5.3.4 Other Tree Canopy
- 5.3.5 Forest
- 5.3.6 Harvested Forest

5.4 Bare shore



Discussion Questions

1. Is it useful to map evergreen vs deciduous?
2. What are the implications of mapping evergreen vs deciduous on modelling?
3. What data can be used to map evergreen vs deciduous?
4. Add this in classification scheme (83 classes) or separate overlay layer?
 1. Produce for 2021/22 only, or make a time series?

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