High-resolution Land Use Mapping for 2017 and 2013 (revised)

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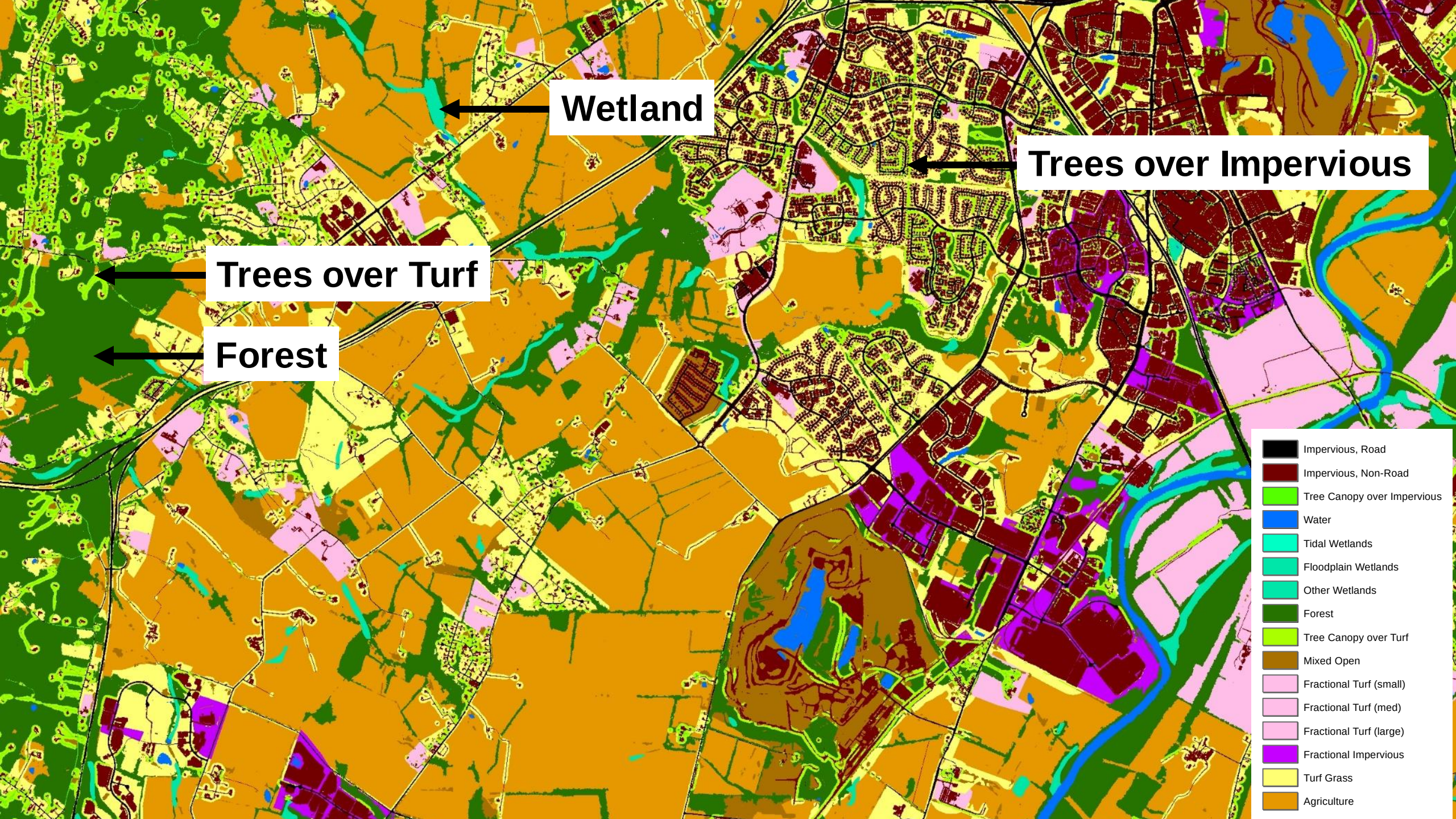
U.S. Geological Survey


Wetland
Trees over Impervious
Trees over Turf
Forest
Impervious, Road
Impervious, Non-Road
Tree Canopy over Impervious
Water
Tidal Wetlands
Floodplain Wetlands
Other Wetlands
Forest
Tree Canopy over Turf
Mixed Open
Fractional Turf (small)
Fractional Turf (med)
Fractional Turf (large)
Fractional Impervious
Turf Grass
Agriculture

Chesapeake Bay Program Land Use Classification (61 classes)

1. Water (8)
- 1.1 Lentic
  - 1.1.1 Estuary
  - 1.1.2 Lakes & Ponds
- 1.2 Lotic
  - 1.2.1 Streams
    - 1.2.1.1 Sunlit
    - 1.2.1.2 Shaded
    - 1.2.1.3 Culverted/ Buried
  - 1.2.2.Ditches
    - 1.2.2.1 Sunlit
    - 1.2.2.2 Shaded
    - 1.2.2.3 Culverted/ Buried

2. Developed (12)
- 2.1 Impervious
  - 2.1.1 Roads
  - 2.1.2 Structures
  - 2.1.3 Other Impervious (Parking lots, driveways)
- 2.2 Pervious
  - 2.2.1 Turf Grass
  - 2.2.2 Bare Construction
  - 2.2.3 Suspended Succession (rights-of-way)
    - 2.1.7.1 Barren
    - 2.1.7.2 Herbaceous
    - 2.1.7.3 Scrub-shrub
- 2.3 Tree Canopy (TC)
  - 2.3.1 TC over Roads
  - 2.3.2 TC over Structures
  - 2.3.3 TC over Other Impervious
  - 2.3.4 TC over Turf Grass

3. Forest (5)
- 3.1 Contiguous (> 1 acre)
- 3.2 Fragmented (< 1 acre)
- 3.3 Natural Succession (e.g., Fallow)
  - 3.3.1 Barren
  - 3.3.2 Herbaceous
  - 3.3.3 Scrub-shrub

4. Production (15)
- 4.1 Agriculture*
  - 4.1.1 Cropland
    - 4.1.1.1 Barren
    - 4.1.1.2 Herbaceous
  - 4.1.2 Pasture
    - 4.1.2.1 Barren
    - 4.1.2.2 Herbaceous
  - 4.1.3 Orchard/vineyard
    - 4.1.3.1 Barren
    - 4.1.3.2 Herbaceous
    - 4.1.3.3 Scrub-shrub
- 4.2 Timber Harvest
  - 4.2.1 Barren
  - 4.2.2 Herbaceous
- 4.3 Solar fields
  - 4.3.1 Barren
  - 4.3.2 Herbaceous
  - 4.3.3 Scrub-shrub
  - 4.3.4 Impervious
- 4.4 Extractive
  - 4.4.1 Barren
  - 4.4.2 Impervious

5. Wetlands and Water Margins (21)
- 5.1 Tidal
  - 5.1.2 Barren
  - 5.1.3 Herbaceous
  - 5.1.4 Scrub-shrub
  - 5.1.5 Contiguous Forest
  - 5.1.6 Fragmented Forest
- 5.2 Non-tidal
  - 5.2.1 Riverine (groundwater)
    - 5.2.1.1 Barren
    - 5.2.1.2 Herbaceous
    - 5.2.1.3 Scrub-shrub
    - 5.2.1.4 Contiguous Forest
    - 5.2.1.5 Fragmented Forest
  - 5.2.2 Riverine (surface water)
    - 5.2.2.1 Barren
    - 5.2.2.2 etc…
  - 5.2.3 Other
    - 5.2.3.1 Barren
    - 5.2.3.2 etc…
- 5.3 Bare shore

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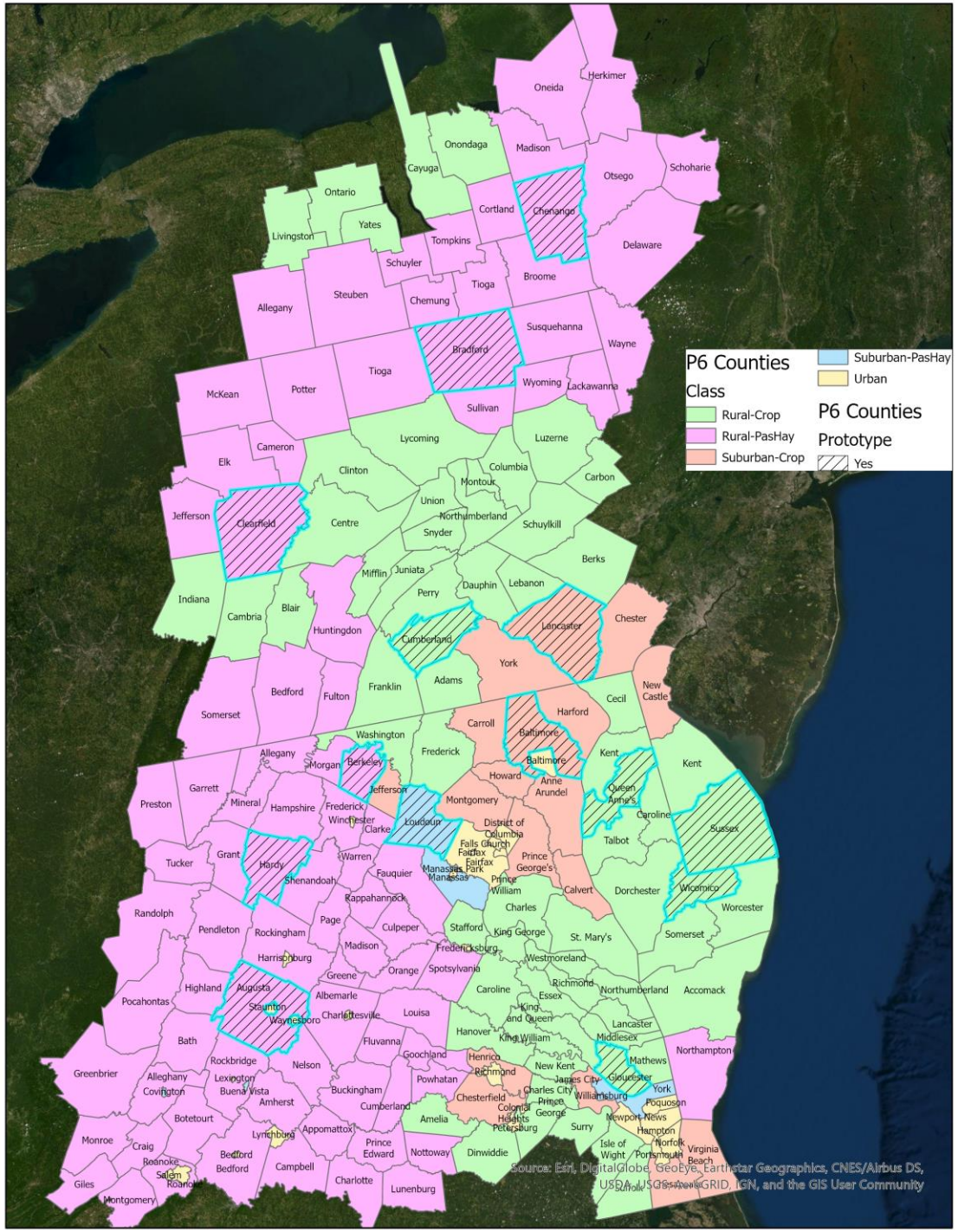
Fourteen Counties Selected to Prototype Development of the 2017 High-res Land Use Data

FIPS	CNTY_NAME	P_Crop	P_Dev	Class
10005	SUSSEX	97.4%	18.8%	Rural-Crop
24005	BALTIMORE	66.7%	38.6%	Suburban-Crop
24035	QUEEN ANNES	96.3%	14.2%	Rural-Crop
24045	WICOMICO	94.5%	20.6%	Rural-Crop
36017	CHENANGO	28.3%	5.8%	Rural-PasHay
42015	BRADFORD	39.2%	5.7%	Rural-PasHay
42033	CLEARFIELD	42.0%	8.1%	Rural-PasHay
42041	CUMBERLAND	65.8%	24.6%	Rural-Crop
42071	LANCASTER	68.2%	29.2%	Suburban-Crop
51015	AUGUSTA	27.1%	9.3%	Rural-PasHay
51073	GLOUCESTER	85.1%	12.6%	Rural-Crop
51107	LOUDOUN	33.1%	27.7%	Suburban-PasHay
54003	BERKELEY	33.1%	23.8%	Rural-PasHay
54031	HARDY	22.2%	6.4%	Rural-PasHay



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Land Use Production for CAST-21

2017 Land Use Production Schedule		2020			2021							
Order	Task	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1	Local review of 2017 Land Cover Data			LUWG			LUWG	LUWG				
2	Draft Hyper-resolution Hydrography			LUWG	gaps		LUWG	LUWG				
3	Cropland, Pasture, Orchards, and Turf Grass	AGWG										
4	Suspended Succession, Bare Shore, and Solar Fields	LUWG										
5	Tidal & NonTidal Wetlands	WWG										
6	Review ag and wetland mapping procedures, schedule		LUWG									
7	Forests, Tree Canopy, Timber Harvests, and Natural Succession			FWG								
8	Finalize Wetland Methodology			WWG								
9	Bare Construction, P6 Roll-up Decision Rules, FedFac Land Uses				LUWG, FedFac							
10	Prototype Land Use in 14 counties											
11	Approve 2017 Land Use Mapping and P6 Roll-up Methods					LUWG, AGWG, USWG, WWG, FWG, FedFac						
12	Complete 2017 Land Use Dataset									LUWG		
13	Revise 2013 Land Use (to match 2017)						LUWG			LUWG		
14	Update MS4s, Sewer, Septic, Zoning, and Population Estimates and Projections											
15	Revise Agricultural Forecast Methodology	AGWG					AGWG					
16	Update Land Use Forecasts									LUWG		
17	Update 2013, 2017, and 2025 CAST Inputs										LUWG	WQGIT

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