

Status of 2017 Land Use for CAST-21

Peter R. Claggett¹, Labeeb Ahmed², Jacob Czawlytco³, Sean MacFaden⁴, Jarlath O'Neil-Dunne⁴, and Rachel Soobitsky³

¹ Presenting Author, Lower Mississippi-Gulf Water Science Center, U.S. Geological Survey, Annapolis, MD 21403

² Attain LLC, Annapolis, MD 21403

³ Chesapeake Conservancy, Annapolis, MD 21403

⁴ University of Vermont Spatial Analysis Laboratory, Burlington, VT 05405

Water Quality Goal Implementation Team
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Chesapeake Bay Program Land Use Classification (57 classes)

1. Water (8)

1.1 Lentic

- 1.1.1 Estuary (tidal)
- 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 (13)

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 Developed
- 2.2.3 Suspended Succession (rights-of-way)
 - 2.2.3.1 Barren
 - 2.2.3.2 Herbaceous
 - 2.2.3.3 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
- 2.3.5 TC in Agriculture

3. Forest (6)

3.1 Forest (≥ 1 acre, 240-ft width)

3.2 Harvested Forest (≤ 3 years)

- 3.2.1 Barren
- 3.2.2 Herbaceous

3.3 Natural Succession (> 3 years)

- 3.3.1 Barren
- 3.3.2 Herbaceous
- 3.3.3 Scrub-shrub

4. Production (13)

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 Solar fields

- 4.2.1 Barren
- 4.2.2 Herbaceous
- 4.2.3 Scrub-shrub
- 4.2.4 Impervious

4.3 Extractive (active mines)

- 4.3.1 Barren
- 4.3.2 Impervious

5. Wetlands and Water Margins (17)

5.1 Tidal

- 5.1.1 Barren
- 5.1.2 Herbaceous
- 5.1.3 Scrub-shrub
- 5.1.4 Tree Canopy

5.2 Non-tidal

- 5.2.1 Riverine - Floodplain
 - 5.2.1.1 Barren
 - 5.2.1.2 Herbaceous
 - 5.2.1.3 Scrub-shrub
 - 5.2.1.4 Tree Canopy
- 5.2.2 Riverine - Headwater
 - 5.2.2.1 Barren
 - 5.2.2.2 Herbaceous
 - 5.2.2.3 Scrub-shrub
 - 5.2.2.4 Tree Canopy
- 5.2.3 Terrene / Isolated
 - 5.2.3.1 Barren
 - 5.2.3.2 Herbaceous
 - 5.2.3.3 Scrub-shrub
 - 5.2.3.4 Tree Canopy

5.3 Bare shore

CBP “Mixed Open” Land Use

(“Looks like Agriculture, Loads like Forest” ~ P. Claggett)

6. Mixed Open – MO (13)

2.2 Pervious Developed

2.2.2 Bare Developed

2.2.3 Suspended Succession (rights-of-way)

2.2.3.1 Barren

2.2.3.2 Herbaceous

2.2.3.3 Scrub-shrub

3.2 Harvested Forest (≤ 3 years)

3.2.1 Barren

3.2.2 Herbaceous

3.3 Natural Succession (> 3 years)

3.3.1 Barren

3.3.2 Herbaceous

3.3.3 Scrub-shrub

4.2 Solar fields

4.2.1 Barren

4.2.2 Herbaceous

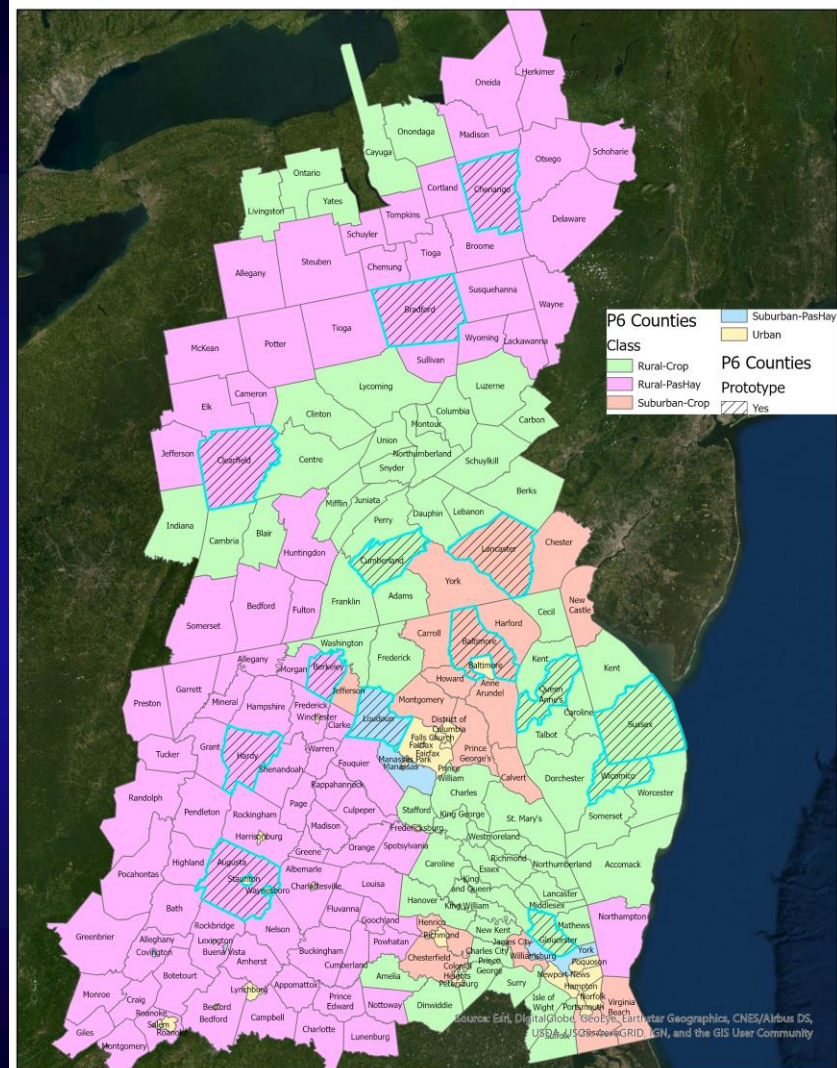
4.2.3 Scrub-shrub

4.3 Extractive (active mines)

4.3.1 Barren

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



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	SEP	OCT	NOV	DEC
1	Local review of 2017 Land Cover Data	University of Vermont Spatial Analysis Laboratory														
2	Draft Hyper-resolution Hydrography	UMBC, Chesapeake Conservancy Conservation Innovation Center (CIC)														
3	Cropland, Pasture, Orchards, and Turf Grass	AGWG		AGWG	AGWG	AGWG	AGWG	AGWG								
4	Suspended Succession, Bare Shore, and Solar Fields	LUWG				LUWG	LUWG	LUWG								
5	Tidal & NonTidal Wetlands	WWG		WWG		WWG		WWG								
6	Forests, Tree Canopy, Timber Harvests, and Natural Succession			FWG		FWG	FWG	FWG								
7	Bare Construction, P6 Roll-up Decision Rules, FedFac Land Uses				LUWG		USWG	FedFac, LUWG								
8	Prototype Land Use in 14 counties			Chesapeake Conservancy												
9	Approve 2017 LU Mapping and P6 Roll-up Methods (14 counties)						LUWG	LUWG, WQGIT								
10	Complete 2017 Land Use Dataset (all 206 counties)						CIC									
11	Revise 2013 Land Use (to match 2017 for all counties)						CIC			LUWG	CIC					
12	Update MS4s, Sewer, Zoning, and Population Projections						CBP Land Data Team									
13	Revise Agricultural Forecast Methodology	AGWG					AGWG		AGWG							
14	Update Land Policy BMPs (future LULC scenarios)										LUWG					
15	Update 2013, 2017, and 2025 data for CAST-21										LUWG	WQGIT				
16	Public release- with streams, potential wetlands, minor fixes													WWG	LUWG	WQGIT



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