Final Milestone (2020-2021) Land Use

November 6, 2019
LUWG Call

Peter Claggett
Coordinator, CBP Land Use Workgroup
Research Geographer, U.S. Geological Survey

2019 Milestone Land Use

<u>Updated Data</u>
Population Estimates (from 2016 ed. to 2018 ed.)

Population Projections (VA, NY, DE, MWCOG, and BMC)

Protected Lands (from 2016 ed. to 2018 ed.)

Sewer Service Areas (51 counties/cities)

MS4 Boundaries (VA only)

LUWG Majority Recommendation:

Update MS4s, Sewer Service Areas, 2025 Population Projections, and 2014 - 2017 Population Estimates
- Adjust 2025 population projections for all counties using population estimates.
- Postpone any updates to the land use until the summer of 2021 in preparation for the 2021-23 Milestones

Rationale:

- New and/or corrected MS4 and Sewer Service Areas were provided by local jurisdictions.

- The CBP Partners have always relied on the latest Census population data combined with the latest state-provided population projections as the foundation for 2025 land use scenarios and Land Policy BMPs used in CAST.

- Translating changes in land cover from either change "hot spots" (2013/14 – 2017/18) or the National Land Cover Database (2013-2016) into the Phase 6 land uses revealed a variety of equally-plausible decision rules.

- Data limitations prevented the development of change "hot spots" in Virginia.

- Recently produced data representing wall-to-wall 1m-resolution changes in tree canopy indicate much different trends compared to those derived from high-resolution change "hot spots" or from the 2001-2016 National Land Cover Database.

≋ **USGS**

LUWG Majority Recommendation:

Update MS4s, Sewer Service Areas, 2025 Population Projections, and 2014 - 2017 Population Estimates
- Adjust 2025 population projections for all counties using population estimates.
- Postpone any updates to the land use until the summer of 2021 in preparation for the 2021-23 Milestones

Population Projection Adjustments:

County Average = -1.3% (min= -8.2%; max= +5.0%)

Counties with large populations growing slower than expected:
- Spotsylvania, VA
- Indiana, PA
- Cambria, PA

Counties with large populations growing faster than expected:
- Alexandria, VA
- Arlington, VA
- Frederick, VA

Final (revised as per LUWG and WQGIT) 2019 Milestone Land Use

Land Use Change in CBW from 2013 - 2025	Development	Natural	Agriculture
2019 Milestones (revised)	223,060	(141,607)	(81,453)
2019 Milestones (original)	218,937	(176,576)	(42,360)
WIPS	239,402	(149,740)	(89,663)

Revised (no interim 2017 land use)					Original (with interim 2017 land use)			
State	DEV	NAT	AG		State	DEV	NAT	AG
DC	198	(198)	-		DC	252	(252)	(0)
DE	7,270	(2,159)	(5,111)		DE	5,010	(1,939)	(3,071)
MD	31,126	(20,079)	(11,047)		MD	38,347	(29,057)	(9,290)
NY	57	(40)	(17)		NY	329	(459)	130
PA	44,853	(19,812)	(25,041)		PA	60,686	(42,180)	(18,507)
VA	132,238	(95,818)	(36,421)		VA	107,406	(98,779)	(8,626)
WV	7,318	(3,502)	(3,816)		WV	6,906	(3,910)	(2,996)
Total	223,060	(141,607)	(81,453)		Total	218,937	(176,576)	(42,360)