

Updating the 2025 Urban Growth Forecast in CAST

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**Land Use Workgroup Meeting
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Update for CAST-21 (2021 Milestones)

Population Projections:

- Update population estimates for 2017 and 2020
- Update 2025 population and employment projections for Maryland, Delaware, and BMC and COG counties
- Adjust all 2025 projections by the ratio of projected to estimated population in 2020
- Refresh infill/redevelopment estimates for COG counties

Protected Lands:

- No update needed because projection period starts in 2017 and current protected lands represent 2018 conditions

MS4s:

- Update with revised MS4s provided to the Chesapeake Conservancy

Landcover:

- Update from 2011 to 2016 NLCD and exclude all developed lands in the 2017/18 high-res land use dataset (IR, INR, TCI, TG, and TCT).

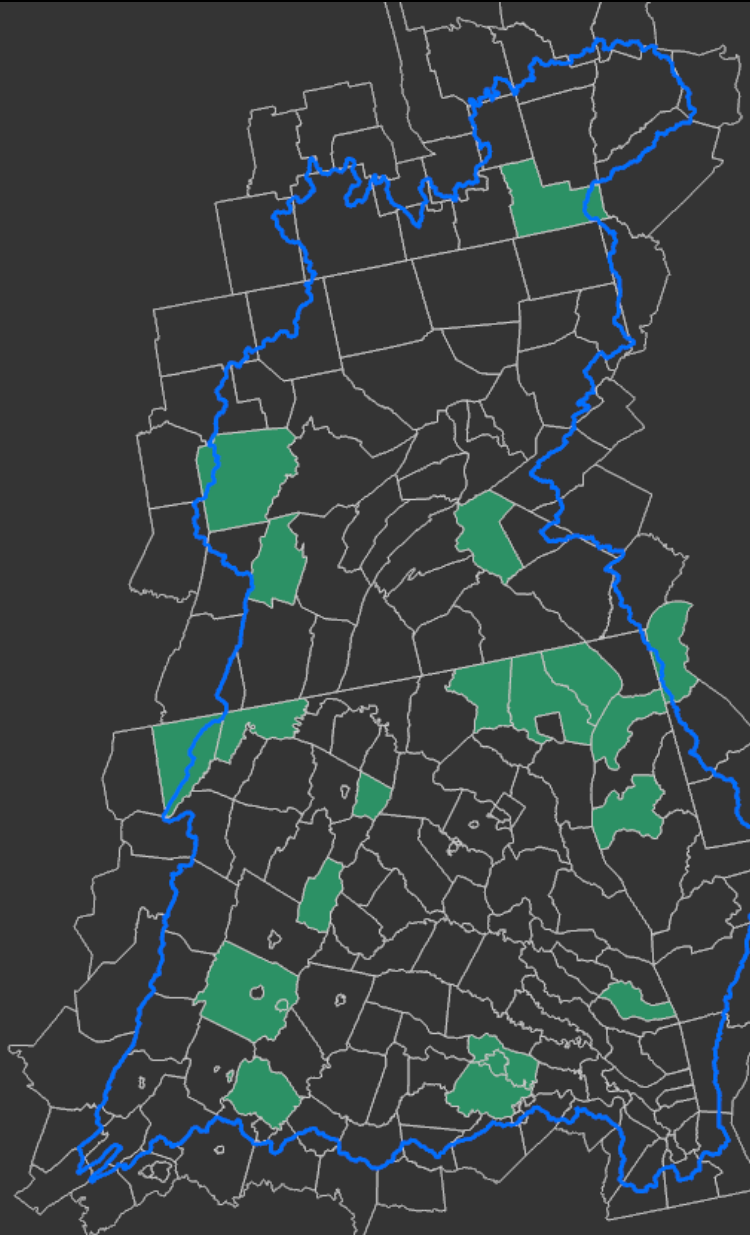
Sewer Service Area:

- Update with revised data provided to the Chesapeake Conservancy and NOVA sewer data provided to USGS.
- Update smart sewer expansion for state-custom scenarios (aka Land Policy BMPs) for DE, VA, and WV.
- Note that NOVA septic data will not yet be directly incorporated due to the large increase in the number of septic systems it will cause.

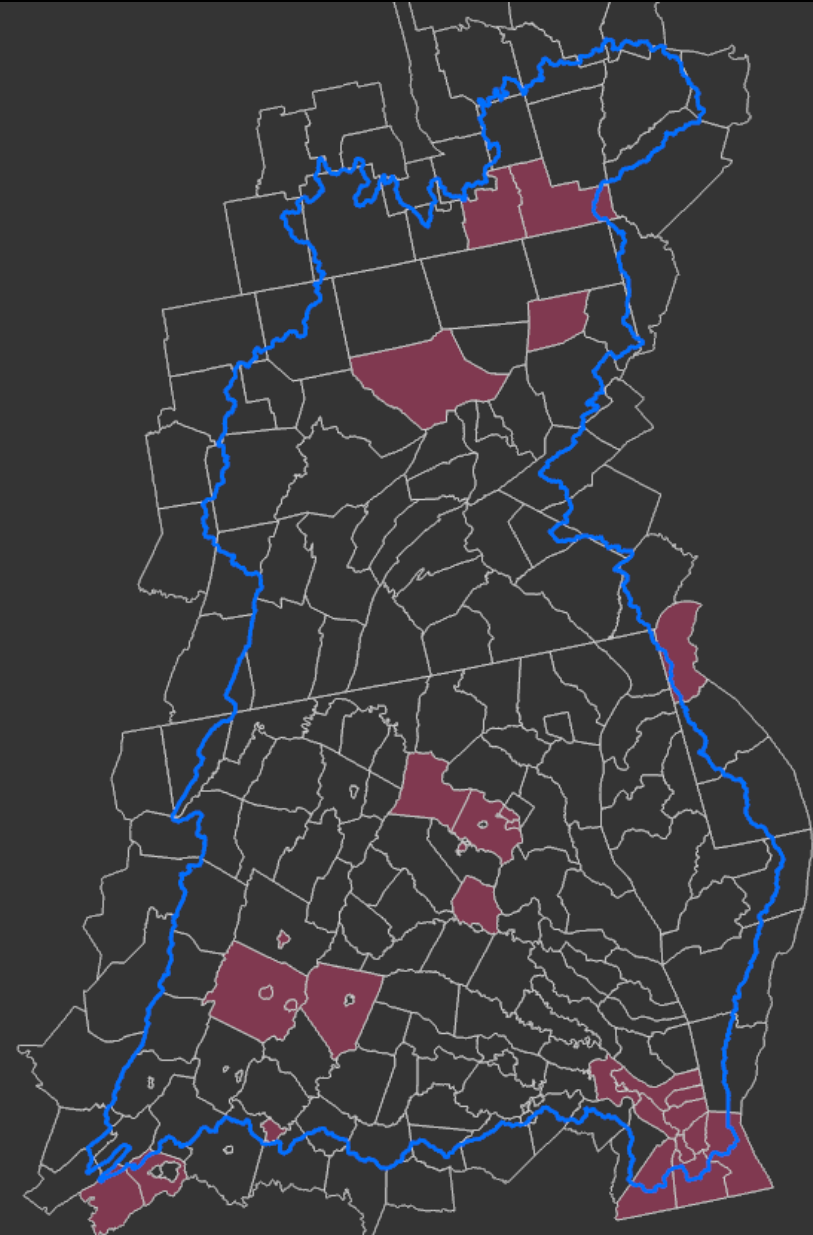
September 1st Delivery to CAST:

- Original 2013 high-res land use by revised CAST 2021 units (updated with new MS4s)
- Land Use change from 2013/14 to 2017/18 by revised CAST 2021 units
- 2025 Land Use for 9 scenarios (aka Land Policy BMPs)
- 2017 and 2025 populations on sewer, septic, and number of septic systems for 9 scenarios

Sewer Service Area Updates



MS4 Area Updates



Update for CAST-23 (2023 Milestones)

Population Projections:

Update population for 2020 and 2021 from 2020 Census and 2021 Population Estimates
Update and adjust 2025 population and employment projections where available

Protected Lands:

Update with 2020 or 2022 protected lands data.

MS4s:

Update based on 2020 Census Urbanized Areas and Urban Clusters and with data from jurisdictions.

Landcover:

Update with 2021/22 high-res land use and 2021 NLCD land cover.

Sewer Service Area:

Update where new data are available from jurisdictions.
Reconsider use of septic data from VA Dept. of Health and NOVA

Update CBLCM parameters:

Infill/redevelopment rates and development patterns, densities, and probabilities from high-res land use change data: 2013/14 – 2021/22

Increase simulated CBLCM land uses:

Simulate changes in bare construction and timber harvests

Reconcile trends in agricultural land in production (Census of Agriculture), reported BMPs, and high-res land use change



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