

PROJECTING 2014-2015 BASE CONDITIONS (LAND USES, ANIMALS AND SEPTICS)

Matt Johnston
University of Maryland
CBPO Non-Point Source Analyst

Data Sources

□ **Agriculture:**

- 2012 USDA NASS Census of Agriculture (projections were previously based on 2007 Ag Census)
- State-specific AFO/CAFO fractions (estimates were previously made based upon 2009 CAFO animal numbers submitted by states)

□ **Urban:**

- 2011 National Land Cover Dataset (NLCD) (projections were previously based on 2006 NLCD)
- State-specific population projections for MD, PA and WV
- WV sewer service area polygons
- Updated error in previous release that did not fully recognize presence of federal/protected lands in some land-river segments

□ **Harvested Forest:**

- State-specific permitted forest harvesting acres for progress year (Forestry Workgroup previously estimated 1% of all forest land was harvested; this estimate never matched well with the acres of harvested forest BMPs)

□ **Construction:**

- State-specific permitted construction acres for progress year (estimates were previously based on ratios of permitted acres to impervious change during the calibration period)

Reflecting Trends in Ag Census

□ **Crop-specific projection method**

- Over 120 crops were individually projected by county
- Captured trends (real or not) in each individual crop
- Moderately successful at capturing overall agricultural trends
- For example: This method might capture the trend in acres of corn for silage being converted to corn for grain, but might miss the overall trend of corn or row crops.

□ **Crop-group projection method**

- Groups of crops which correspond to CBPO major land use groups were projected by county
 - major land use groups are: alfalfa; hay with nutrients; hay without nutrients; nursery; pasture; row with manure and row without manure
- Acres of each crop estimated based upon relative distribution of crops within crop groups in 2012 Ag Census
- Not able to capture trends in individual crops
- Much better at capturing overall agricultural trends

Decision Timeline

- **September 12, 2014** – Jurisdictions to be provided with base conditions for 2014 Progress assessment
- **September 15, 2014** – Jurisdictions must provide estimates of CAFO/AFO animal splits, harvested forest acres and construction acres
- **October 8, 2014** – WQGIT must decide if new projections will be used for 2014 Progress
- **October 10, 2014** – Final approval of the 2014 pre-BMP base conditions by jurisdictions and CBPO