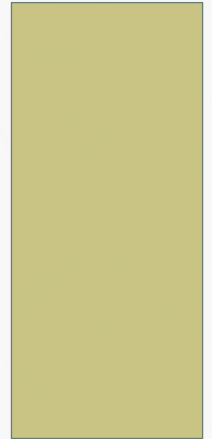


LAND USE WORKGROUP UPDATE

WQGIT CONFERENCE CALL - 4/14/2014
JENNIFER TRIBO, CO-CHAIR LAND USE WORKGROUP



LAND USE WORKGROUP

ROLES AND RESPONSIBILITIES

Mission : To ensure that scientifically and locally credible land use data informs the suite of Chesapeake Bay Program (CBP) models and accounting systems.

- Develop protocols and methods for using local LULC data to improve the CBP models.
- Increase the spatial, temporal, and categorical resolution of land use information used to inform CBP models.
- Improve the accuracy, plausibility, and usefulness of future land use scenarios to support TMDL implementation and maintenance.
- Evaluate the accuracy and utility of land use datasets, estimates, and scenarios used to inform CBP management decisions.
- Explore methods for reporting land use changes to evaluate 2-year progress runs and explore the use of land use projections to develop/assess 2-year milestones.

MAJOR ACTIVITIES

- Land Use Data Call.
- Task order for Tetra Tech to collect land use data.
- Development of draft Phase 6 land uses for review.
- Meetings with jurisdictions to discuss data availability and utility.

This map displays the 2010 population of Virginia counties, categorized by the amount of data submitted for the Chesapeake Bay watershed. The map uses a color-coded system to represent population ranges and data submission status.

Legend:

- CB Watershed:** Indicated by a black outline.
- Chesapeake Bay:** Shaded in blue.
- Data Received:** Purple shading.
- No Data Submitted:** Yellow shading.
- 2010 Population Ranges:**
 - 2,321 - 10,000 (Dark Green)
 - 10,001 - 20,000 (Medium Green)
 - 20,001 - 40,000 (Light Green)
 - 40,001 - 80,000 (Yellow-Green)
 - 80,001 - 160,000 (Yellow)
 - 160,001 - 320,000 (Orange)
 - 320,001 - 640,000 (Red-Orange)
 - 640,001 - 1,081,726 (Red)

The map shows that counties with higher populations (red/orange) are more likely to have submitted data (purple), while lower-population counties (green/yellow) are more likely to have no data submitted (yellow). Chesapeake Bay is located in the eastern part of the state, and the watershed boundary follows the coast and major river systems.

- Spring 2013.
- Led by Jurisdictions.
- Good coverage for MD and DE.
- Developing task order for Tetra Tech to collect data directly from localities.

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DRAFT PHASE 6 LAND USES

- April: Workgroup and WQGIT Review.
- May-June: LUWG review of comments.
- July: WQGIT approval of Land Uses.

LAND USE DECISION CRITERIA

1. Exhibits unique nutrient and sediment load/processing criteria.
2. Land use is associated with a particular type of BMP.
3. Land use is need to help target local implementation of BMPs.

MAPPING LEVELS

1. National or regional (30m resolution)
2. Local data (1-5m resolution)
3. Ideal approach involving a high level of analysis – not feasible to employ Bay-wide.

DEVELOPED LAND COVER/USE

- Impervious
- Pervious Developed
- Connected Impervious
- Connected Pervious Developed
- Urban Tree Canopy
- Construction
- Extractive

Overlays:

- Regulated Areas (MS4s and CSSs)
- Federal Lands
- Population on sewer
- Population on septic

NATURAL LAND COVER/USE

- Forest
- Disturbed Forest
- Mixed Open
- Riparian Forests
- Floodplains
- Wetlands
- Beaches
- Open Water

AGRICULTURAL LAND USES

- Farmsteads
- Cropland
- Pasture
- Nurseries, Orchards, and Sod farms
- Idle/Fallow Agricultural Land

REVIEW CONSIDERATIONS

- Do subclasses have water quality relevant characteristics that are unique from the parent land use?
- Is the land use relevant to estimating nutrient and sediment loads or just desired to inform policy decisions?