

# ***Upcoming MAST Training***

**(Maryland's Assessment and  
Scenario Tool)**

July 13, 2011

# Overview

- Invitation to MAST training
- Training Agenda
- Next Steps

# Preparation for Training

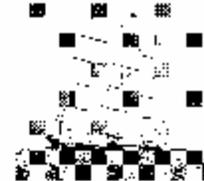
- Letter to WIP team lead
  - What are the advantages to using MAST? Can other tools be used as well?
  - How can we get access to MAST to develop a county scenario?
  - How does the County WIP scenario integrate with the EPA model?

# Invitation to WIP Team

- Where
  - MDE – Montgomery Park
- When
  - Webinar, July 19th
  - Hands-on, July 21, 26, 28, Aug 2
  - 9:45 am to 2:30 pm
- Contact
  - [nlyon@mde.state.md.us](mailto:nlyon@mde.state.md.us)
  - For any questions call  
Nan Lyon at 410-537-3325.



**MAST  
COMPUTER  
TRAINING at MDE**  
July 21, 26, 28 or August 2,  
2011 10AM-2PM



MDE will provide training for the Maryland Assessment and Monitoring Test (M-AMT) Field Team on July 21st and 26th and August 2nd. The purpose of the training will be to use MAST to create a county assessment data series and with the CHIP and E-roads. We ask that the representative from the Team attend together on this day.

Training will be at MDE's Business Office at Montgomery Park located off of Washington Blvd. There will be a morning session which will cover information concerning the M-AMT, the need to create M-AMT Test Data Tables, Data inputs to the Test, and the Outputs. The afternoon will be devoted to using the field input spreadsheet.

Please consider the date that the team representative will be available to attend the training as a first priority. Please e-mail that the training will be by 9:45 am so that the training can start promptly at 10:00 am.

Lunch is on your own (12 pm - 12:45 pm)

*Please respond by June 30, 2011*

Name \_\_\_\_\_  
 Organization \_\_\_\_\_  
 M-AMT Team \_\_\_\_\_  
 Email \_\_\_\_\_  
 Please check all available dates: July 21, July 26, July 28, August 2, 2011

Name \_\_\_\_\_  
 Organization \_\_\_\_\_  
 M-AMT Team \_\_\_\_\_  
 Email \_\_\_\_\_  
 Please check all available dates: July 21, July 26, July 28, August 2, 2011

Send to: [nlyon@mde.state.md.us](mailto:nlyon@mde.state.md.us) For any questions call Nan Lyon at 410-537-3325.

# MAST Training Agenda

## Section 1: Define expectations: What is the Phase II WIP attempting to accomplish?

- Clear, quantitative goals: Local area strategies to meet 2017 and 2020 target loads
- MD Phase II WIP Report
  - Revised statewide targets
  - Description of Phase II process – State, federal, local partnership
  - Local allocations and implementation strategies
- Input deck that demonstrates 24 local area strategies combined will meet State targets
- Schedule: Draft due to EPA – Dec. 1, 2011;  
Final due – March 30, 2012

## Section 2: EPA CBP Integrated modeling system (Webinar)

- History
- Current system
  - Airshed
  - Watershed
  - Tidal

# MAST Training Agenda

## Section 3: MAST Overview (Webinar)

- Why was MAST Developed?
  - Direct integration into the EPA modeling system
  - Rapid evaluation of alternative scenarios for WIP Phase II and 2-yr Milestone development
  - Compilation of local strategies into a single model input deck
- What does MAST Provide (Webinar)
  - Facilitates planning level decision making
  - Transparency in EPA modeling system
  - Consistency with EPA modeling results

# MAST Training Agenda

## Section 4: What data is in MAST (Webinar and Hands on Training)

- Land use
  - Acres
  - Nitrogen, phosphorus and sediment loading rates
- Point Source
  - NPDES permit number
  - Flows
  - Nitrogen, phosphorus and sediment loads
- Septic Systems
  - Number of systems in three zones
  - Nitrogen loading rates
- Air deposition of nutrients on land
- EPA approved BMPs
- Load delivery factors to the tidal waters
- Geography

# MAST Training Agenda

## Section 5: Outputs of MAST (Webinar and Hands on Training)

- Acres and percentages of BMPs from scenarios
- Estimate of nitrogen, phosphorus and sediment loading from each BMP
- Estimated loads from the land (EOS)
- Estimated loads to the Bay (DEL)
- Estimated load reduction from each source sector for comparison to targets
- Summary tables that will be used directly in the MD Phase II WIP document
- Inputs to Scenario Builder

# MAST Training Agenda

## Section 6: Data needed to use the tool (Webinar and Hands on Training)

- Geography
  - Location and scale of strategy input
- WIP loading targets
- List of BMPs available
- Percent (or acres) of land that the BMP will be applied to

# MAST Training Agenda

## Section 7: Load reductions in MAST (Hands on Training)

- Land use change BMPs
- Traditional BMPs
  - sequencing
  - Mutually exclusive
  - Overlapping
- Point Source load reduction strategies
- Septic system BMPs

# MAST Training Agenda

## Section 8: Demo the tool (Hands on Training)

- Step through each screen by entering a new scenario or modifying an existing scenario.
- Discuss tips and caveats for each BMP and selection (i.e.: how to make sure that BMPs you select are getting credited, which land use unit makes the most sense for each BMP type).
- Using MAST to answer questions
  - Q: Did I meet my allocation?  
A: View land use loads, which break out load by pollutant (N, P, and Sediment) and sector (Ag, Urban, Septic)
    - Caveat: Know which allocation you are comparing to: EOS or DEL
  - Q: What land use changes resulted from my BMPs?  
A: View Land use acres, which shows the pre-BMP land use acres and the post-BMP land use acres, regardless of sector
  - Q: How did the load change for each land use?  
A: View Land use loads, which shows the pollutant (N, P, and Sediment) for each land use, regardless of sector.
  - Other questions.....

# MAST Training Agenda

## Section 9: Strategy for Completing WIP Scenarios –An iterative process (Webinar and Hands on Training)

- Initial scenarios available in MAST
  - 2010 progress
  - 2017 WIP
- Iterative Process
- Timeline

# Next Steps

- WIP Teams
  - Work with your WIP team lead if you would like to attend the training
  - Attend the July 19<sup>th</sup> webinar
  - Send us other items that you would like the training to address (work through liaison)
- MAST Development Team
  - Populating inputs consistent with P5.3.2
  - Testing