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Open Session: Urban Tree Canopy Expert Panel

Public Stakeholder Forum
Wednesday, June 3rd, 2015
Annapolis, MD

Neely Law, Center for Watershed Protection, Panel Chair
Jeremy Hanson, Virginia Tech, Panel Coordinator

SOUND CHECK for webinar participants

- If you can't hear us right now, then make sure you connected your audio! WebEx gave you 3 options after you signed in—
 1. You call the webinar, using the conference line information provided by Webex when you select this option
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- Options 1 or 2 are recommended!
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Access code: 644 802 086

Agenda at a glance

- Welcome and introductions
 - Ground rules and logistics
 - Overview of the BMP expert panel process
 - Overview of UTC panel charge and timeline
- Stakeholder presentations
- Discussion
- Recap and next steps
- Adjourn

Ground rules and logistics

- **For those participating via webinar:**
 - **To avoid disruptions on the line you will be muted as you join the webinar.**
 - Tell us your name and affiliation in the chat box.
 - If multiple participants, please provide the names of others in the room so we have a more accurate attendance record.
 - Please enter your questions and comments into the chat box. Neely and Jeremy will monitor the chat and ask the questions for you.

Ground rules and logistics

- **For those in the room**

- Is your phone on silent?
- During the presentations, please save your questions until the speaker has finished.
- At all times please raise your hand and wait for Neely to acknowledge you before speaking.
- Please **speak loudly and clearly**, *especially* if you are seated around the edge of the room. Our friends on the webinar want to hear you too!
- The polycom can pick up side conversations around the table, so please step into the lobby (and close the door) to have any side conversations.
- Please sign-in if you did not do so already (sign-in sheet in the lobby)
- **...Is your phone on silent???**

What is a “BMP Expert Panel?”

- Best Management Practices (BMPs) are practices or technologies that reduce pollution when implemented or installed.
 - Structural, non-structural, programmatic
- Expert panels use the best available science and best professional judgment to inform the Chesapeake Bay Program Partnership how much a BMP reduces pollution
 - They write a report with a TON of information in it
 - They follow the BMP Protocol (more on this soon...)
- The expert panels focus on the water quality benefits – specifically, the nitrogen, phosphorus and sediment reductions – associated with BMPs. They consider ancillary effects, too.

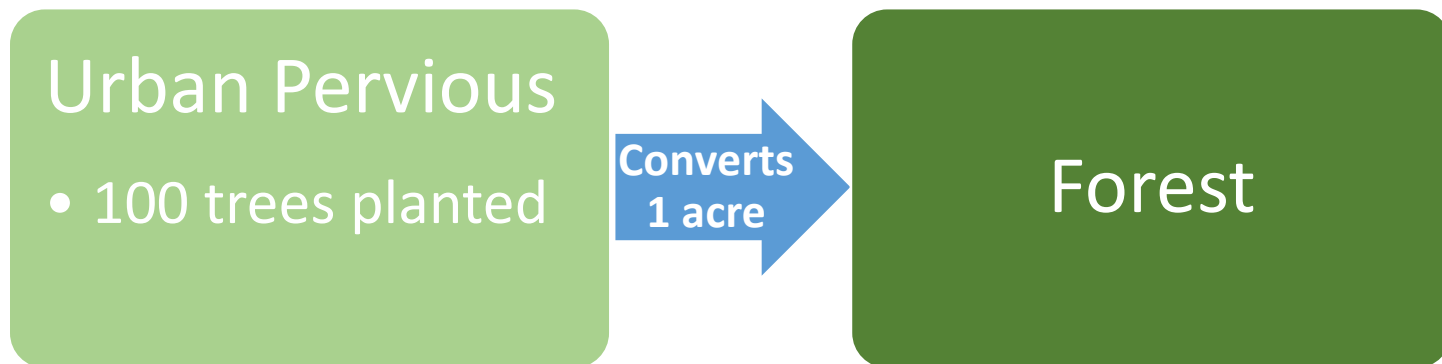
Why BMPs? Why N, P and sediment?

- Sorry, but the answer is more acronyms: WIPs and the Chesapeake Bay TMDL
 - TMDL = Total Maximum Daily Load
 - <http://www.epa.gov/chesapeakebaytmdl/>
 - WIPs = Watershed Implementation Plans

Pollutant loads from a BMP may be credited as:

1. A change in the land use (e.g. trees instead of turf grass)
2. an adjustment based on an estimate of effectiveness of a BMP (i.e. an “efficiency”)
3. a measured reduction in direct load to the land use (e.g. less fertilizer)
4. a measured reduction from a treatment process

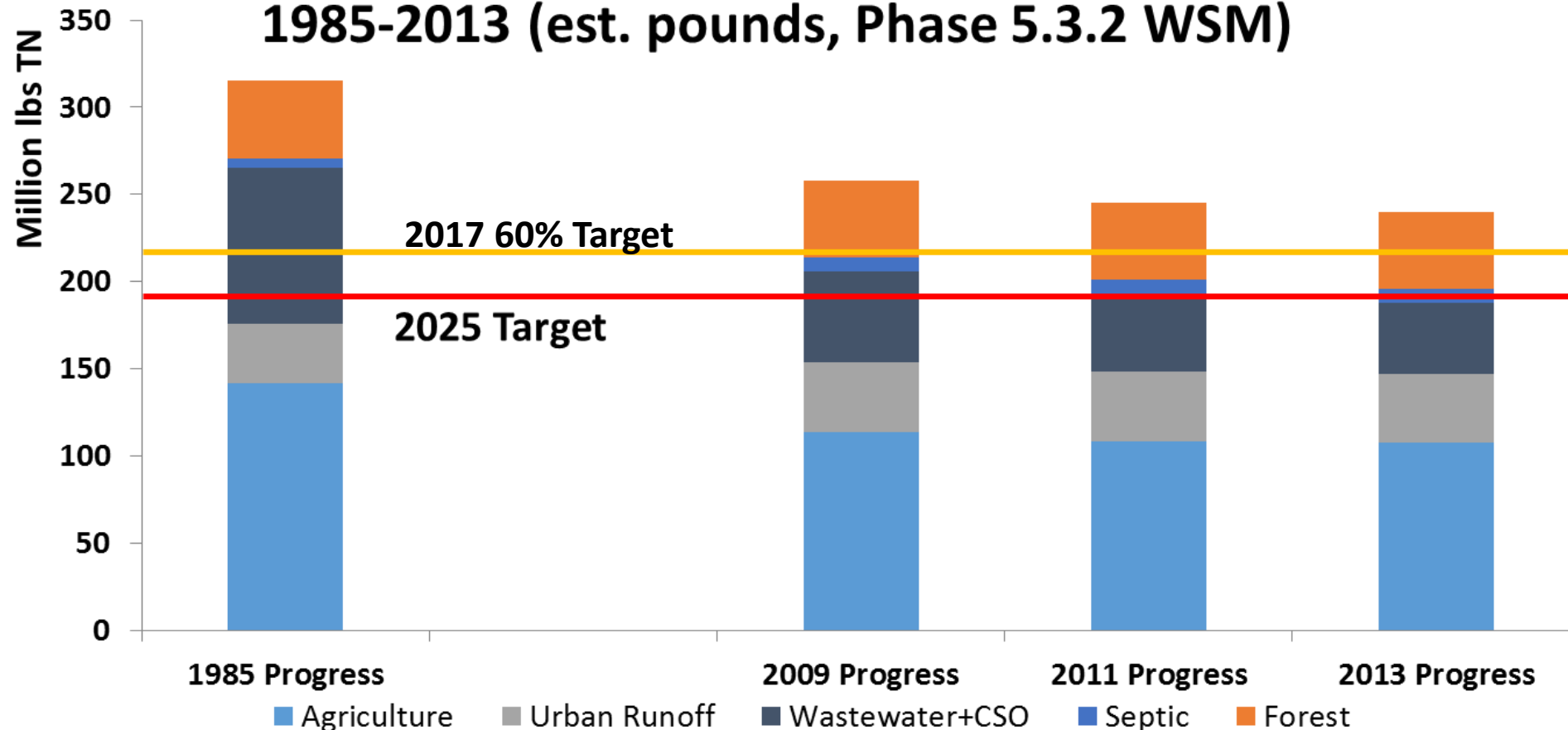
How Tree Planting is currently credited as a BMP



	Pervious Land Use Loading Rate (lb/ac/yr)	Forest Land Use Loading Rate (lb/ac/yr)
TN	11	3.6
TP	0.9	0.11
TSS	200	78

...or, to put it graphically (for nitrogen):

**Total Nitrogen Loads Delivered to Chesapeake Bay
from all non-deposition sectors, watershed-wide,
1985-2013 (est. pounds, Phase 5.3.2 WSM)**



BMPs: How the jurisdictions reduce their nonpoint source loads

- Each year the jurisdictions submit their BMP implementation data to the Chesapeake Bay Program Office
 - You can view and download the latest data here:
http://stat.chesapeakebay.net/?q=node/130&quicktabs_10=3
 - New and improved information about progress for BMP implementation and other efforts will soon be available at:
<http://www.chesapeakestat.com/chesapeakeprogress>
- Data includes elements such as:
 - Name of BMP
 - Appropriate location information (county, land-river segment,...)
 - Other fields depending on BMP (installation date, acres or unit of measurement, etc.)

The BMP Evaluation Process

- The Water Quality Goal Implementation Team (WQGIT) is responsible for approving the loading rate reductions, and percentage adjustments to these rates, used in the Chesapeake Bay Watershed Model (CBWM).
- The document that explains how it all works:
 - *Protocol for the Development, Review, and Approval of Loading and Effectiveness Estimates for Nutrient and Sediment Controls in the Chesapeake Bay Watershed Model, AKA the “BMP Protocol”*
 - http://www.chesapeakebay.net/publications/title/bmp_review_protocol

The BMP Evaluation Process, “simply” put



The Urban Tree Canopy Expert Panel

- Expert Panel Charge and Scope
 - Provide recommendations on nitrogen, phosphorus and sediment reductions for urban tree canopy available for credit for jurisdictions towards the Bay TMDL
 - BMP definition
 - Qualifying conditions for credit
 - Crediting method
 - Ancillary benefits
 - Recommendations to address future research and management needs

The Panel's current schedule

- 10 month timeframe
- March 2015 - December 2015
- Monthly meetings
- Begin Chesapeake Bay Program review process October 2015
- Final approval by Water Quality GIT 2015

Our esteemed panel of experts

Name	Role	Affiliation
Neely Law	Panel Chair	Center for Watershed Protection
Susan Day	Panel Member	Virginia Tech
Peter MacDonagh	Panel Member	Kestrel Design Group
Mike Galvin	Panel Member	SavATree
Karen Cappiella	Panel Member	Center for Watershed Protection
Sally Claggett	Panel Member	U.S. Forest Service, CBPO
Jessica Sanders	Panel Member	Casey Trees
Thomas Whitlow	Panel Member	Cornell
Qingfu Xiao	Panel Member	University of California - Davis
Keith Cline	Panel Member	Fairfax County (VA)
<i>Panel support</i>		
Jeremy Hanson	Panel and VT Coordinator	Virginia Tech, CBPO
Brian Benham	VT Project Lead	Virginia Tech
Marcia Fox	WTWG Representative	DE DNREC
David Wood	CBP Modeling Team Representative	CRC, CBPO
Ken Hendrickson	Regulatory Support	EPA Region 3
Ari Daniels	CWP Staff Support	CWP
Bill Stack	CWP Staff Support	CWP

Today's Stakeholder Presentations

- Dave Nowak, US Forest Service
- Neely Law, Center for Watershed Protection
- Steve Schofar, Montgomery County (MD)

Q&A to follow each presentation

Full group discussion following all presentations

Follow-up

Please complete our survey!

Jeremy will email the survey link to all participants following the meeting

All presentations will be uploaded to the CBP calendar, along with other materials:

<http://www.chesapeakebay.net/calendar/event/22656/>

Questions or comments about the panel can be sent to:

Jeremy Hanson

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