Improving Inorganic Fertilizer Data for the Watershed Model

Tom Butler, EPA 07/19/2022

Outline

Task

Process

Timeline

Task

What?

An evaluation of fertilizer sales data reported by state chemists.

Why?

Multi state request

Deliverables?

- Phase 7 inorganic fertilizer input
 - Status quo or new state reported data

Overview of Key Scoping Questions

Are there other data sources that can inform urban nutrient application rates?

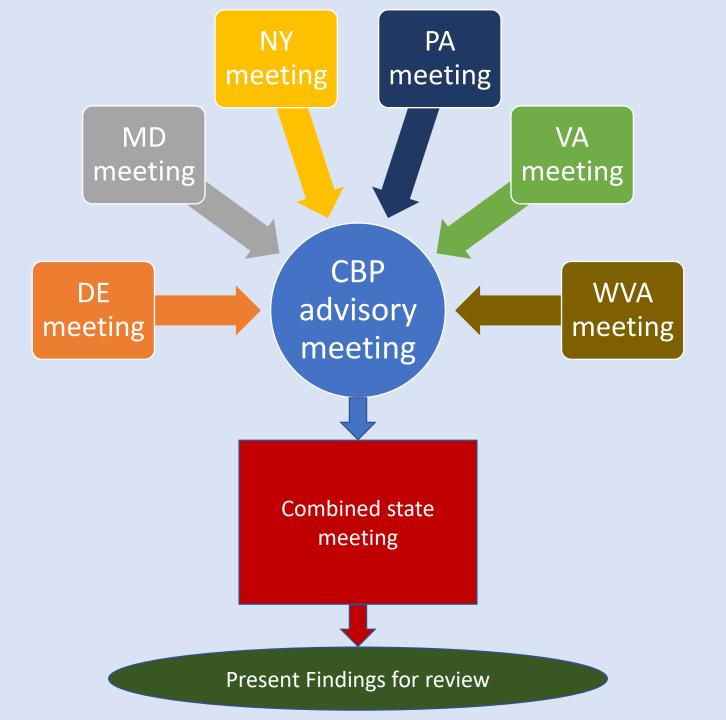
• Specifically, are there any new sources of state-generated data, as the expert panel originally hoped?

At what scale are fertilizer sales and use data available?

Are there streamlined methods of tracking and reporting without undue burden on the local and state agencies?

What improvements in urban nutrient data and application can we recommend for Phase 7

Process



Bay Program Commitments

Role	POC	
Lead	Tom Butler	
Agriculture	Mark Dubin, Loretta Collins, Ruth Cassilly	
CAST	Olivia Devereux, Jessica Rigelman	
Watershed Technical Workgroup	Vanessa Van Note, Jeff Sweeney	
Modeling Workgroup	Gary Shenk	
Urban Stormwater Workgroup	David Wood	

Jurisdiction Commitments

Jurisdiction	POC	Fertilizer Expert
MD	Elizabeth Hoffman	Tom Phillips
PA	Frank Schneider	David Dressler
NY	Greg Albrecht	Jan Morawski
VA	Seth Mullins	David Gianino
DE	Clint Gill	Justin Lontz
WVA	Dave Montali	Joshua Arbaugh

PROPOSED Timeline

Meet individually with jurisdiction to discuss data

July-Oct.

Hold group meeting with all fertilizer experts and representatives

Dec.-Jan.

Present findings to Bay Program workgroups

May - June

November

Discuss initial findings with CBP advisory group

Feb. - April

Formalize new data source or retain the status quo (AAPFCO)

July – Sept.

Gather and preprocess data for future versions of CAST

Summary

Inorganic fertilizer data in the Chesapeake Bay Watershed is a large source of pollution

And

Jurisdictions have proposed using their own reported data to improve this input to environmental models

BUT

Investigations require high coordination with jurisdictions.

THEREFORE

A single lead coordinating with each jurisdiction and the Bay Program partners will help to examine jurisdictional fertilizer data.

Questions?