#### Quarterly Progress Meeting – May 2018



# Riparian Forest Buffers

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Forestry Workgroup Chair

Through the Chesapeake Bay Watershed Agreement, the Chesapeake Bay Program has committed to...



#### Vital Habitats Goal

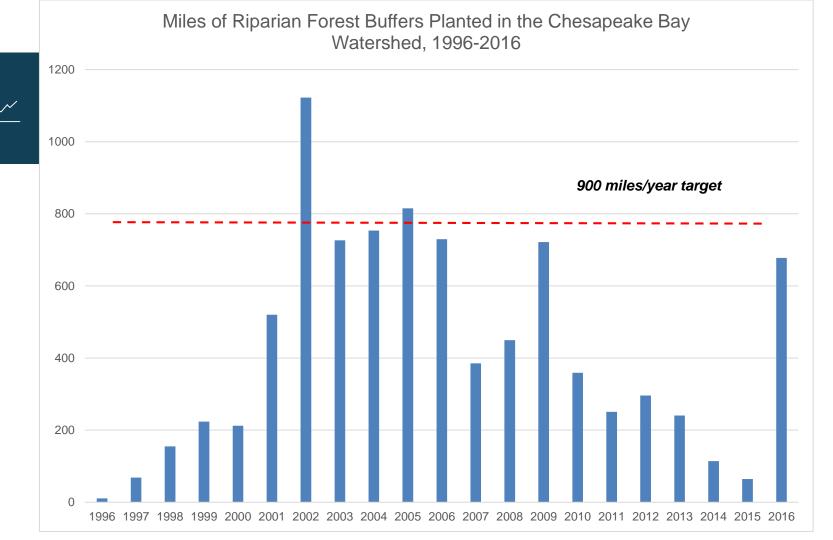
Riparian Forest Buffer Outcome: Restore 900 miles per year of riparian forest buffer and conserve existing buffers until at least 70 percent of riparian areas throughout the watershed are forested.

### Why Is Restoration of Forested Riparian Buffers So Important?

- For a watershed that was originally 95% forested, forest buffers are essential for maintaining ecological functions over time.
- In fact, the goals for forest buffers in the Phase II WIPs exceed the Outcome goal.
- While Phase III WIPs may be more realistic, forest buffers will still be needed in large numbers to restore Bay water quality.







## What Has Been Done to Meet the RFB Outcome Goal?

CREP brings \$\$ (75% federal match) and the USDA Farm Service Agency has <u>increased</u> its support to Bay states since 2015, BUT its complicated.

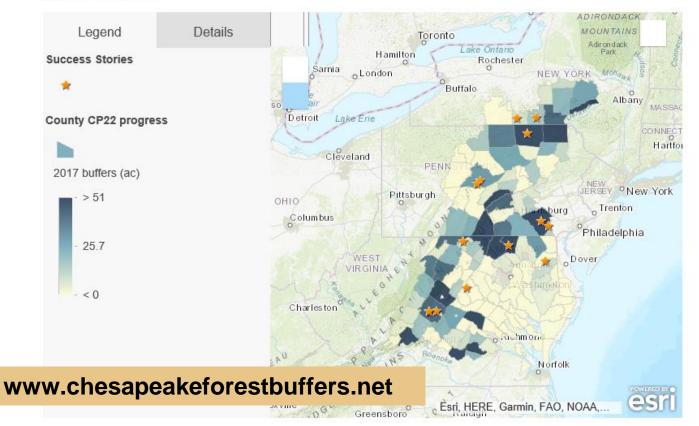
Riparian areas have competing uses, RFBs difficult to sell and specialists are required. BUT NRCS has other farm programs to administer, and doesn't give priority to CREP contracts.

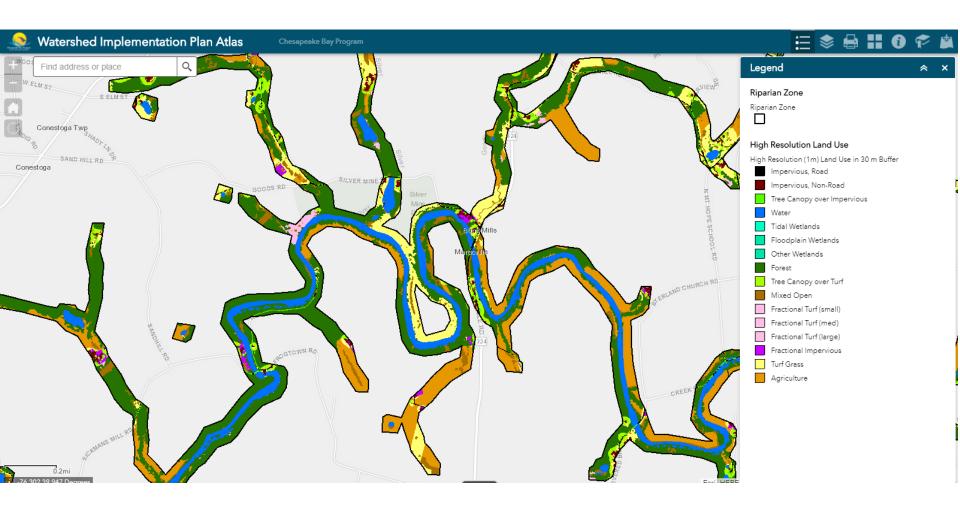
CREP contracts have begun to expire, and there is an added workload for re-enrollment + verification of buffer status for the Bay Program.



## Riparian Forest Buffer Progress in the Chesapeake Bay Watershed

Find out 2017's new acres of forest buffers in your county to date and learn about forest buffer initiative success stories from across the watershed.





New Analyses by ARS/PennState shows Buffer By-pass (aka concentrated flow): Need for improved whole farm planning.

## Site 2, Hydrology and Waters Quality Highlights

Catchment Analysis (Carlington Wallace)



Concentrated flowpaths reduced the potential contributing area to the buffer by 32% (18.4 ha - 12.4 ha).

#### SWAT Watershed Modeling (Tamie Veith)

Without CREP (hypothetical)



P, kg/ha 20 6.7

(reality)

With CP22



N P, kg/ha

Ag Buffer Builder Analysis (Erik Hagan)



As designed, CP22 buffer achieves 70% of potential trapping efficiency of sediment. Approx. 32% of buffer accounted for 49% of total sediment removal.

## Other Needs for Partnership Focus

- Conservation of buffers
- Need for new programs (non-CREP) including non-agricultural lands
- Better maintenance programs/direction
- More Technical Assistance
- Verification timing should align with reenrollment visits





#### What We Want



### Stronger State Leadership

- Expedite CREP processing
- Develop <u>non</u>-CREP options
- Consistent funding for permanent staffing
- Encourage management

# Institutionalize RFB as part of whole farm planning

- Prioritize conservation of RFBs
- Improve partner access to info
- Better understand partner priorities
- Increase TSPs

Align timing of Re-enrollment and Verfication