

# RIPARIAN FOREST BUFFER MAINTENANCE THROUGH TRAINED VOLUNTEERS

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### **ABOUT US**





#### **Vision**

Clean streams and rivers flowing through resilient landscapes, cared for by the people who live, work, and play in the Chesapeake Bay watershed.



# THE MAINTENANCE PROBLEM

- Forest planting sites need maintenance, or most trees will die
  - The recipe:
    - Mowing between trees 2-3x per year
    - Controlling veg around trees (herbicide typically) 1-2x per year
    - Doing tree-by-tree maintenance



10 year old buffer, no maint, 0% survival



1 year old buffer, excellent maint, 90% survival

# THE MAINTENANCE PROBLEM

- This is all a lot of work!!!!
- How are we going to take care of all the sites we want to plant?!?!









# THE SOLUTION: RIPARIAN RANGERS

- Luckily, a lot of people want to help!!!
- And buffer tending doesn't take much skill, just a little grit and a bit of training
- Riparian Rangers started in spring 2019

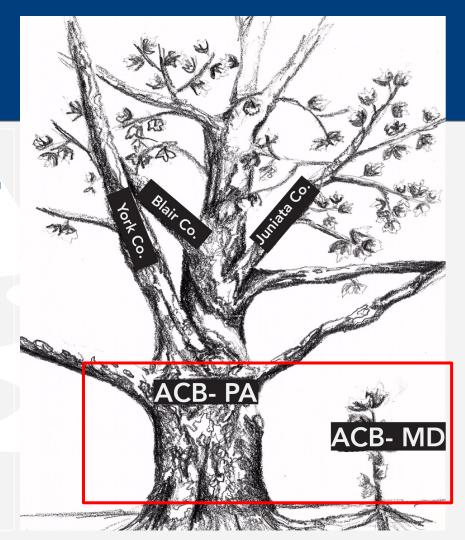




# PROGRAM STRUCTURE

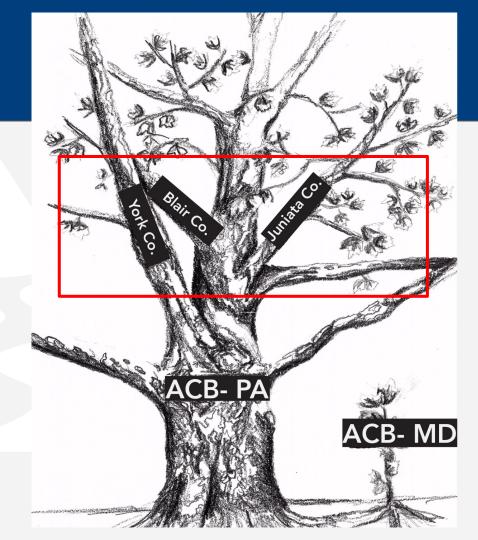
#### The "Trunk:"

- The Alliance and directly trained Riparian Rangers
- Maintain Alliance-planted sites (mostly)
- Directly trained
  - Group trainings
  - 1-on-1
- Volunteer base: local volunteer organizations, environmental stewardship groups, folks that sign up at Alliance events
- Lancaster, York, Chester, Lebanon,
   Cumberland, Adams, and Franklin
   Counties



# PROGRAM STRUCTURE

- The "Branches"
  - Regional based volunteers in expanded locations
  - Run by Branch Leaders that the Alliance trains to coordinate and train RR's
    - Branch in charge of volunteer recruitment
  - Current Branches: York, Juniata,
     Cumberland, Snyder/Union,
     Dauphin/Lebanon (soon)



# **EXPECTATIONS OF A RIPARIAN RANGER**

- Monthly sites visits, March-October
- Regular communication
- Required tasks:
  - Straightening stakes
  - Fixing tree shelters
  - Removing bird nets
  - Remove competing plants in shelters
  - Monitoring invasive species
  - Complete reporting form
- If possible:
  - Check on site after flood events
  - Assist with replanting
  - Remove invasive species

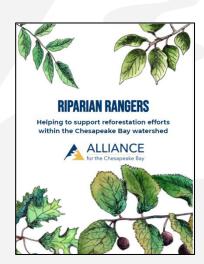


# TRAINING PROCESS

#### 1) Group Training

- a) Talk through the program
- b) Invasives species ID
- c) Native Tree ID
- d) Maintenance Demo
- e) Tree Shelter Removal Demo
- f) Receive Resources





#### 2) Meet on assigned site

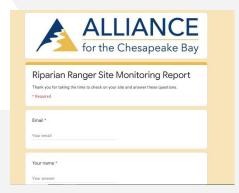
- a) Get the lay of the land/walk through the site
- b) Answer individual questions
- c) Connect with landowner if possible
- d) Additional training as needed



#### MONTHLY CHECKS

- Expectations, as previously stated:
  - Monthly sites visits,
     March-October
  - Required tasks:
    - Straightening stakes
    - Fixing tree shelters
    - Removing bird nets
    - Remove competing plants in shelters
    - Monitoring invasive species
    - Complete reporting form
  - If possible:
    - Check on site after flood events
    - Assist with replanting
    - Remove invasive species

- Monitoring Report Form
  - Questions:
    - Length of site visit?
    - Mowed and herbicide rings?
    - Invasive species?
    - Number of dead trees?
    - Animal damage?
    - Other damage?
    - Questions/ comments/ photos?



### RESOURCES PROVIDE

- In person trainings
- Riparian Rangers packet
- Training video
- Reporting form
- Landowner outreach packet
- Online photo guide
- Tree planting specific supplies
  - Stakes
  - Tubes
  - Zip ties
  - Bird nets











# RIPARIAN RANGER ASSISTANCE HIGHLIGHTS

Reporting livestock access





Fixing flood damage



Removing tree shelters



### **UPCOMING NEEDS AND PLANS**

- Currently 55 (trunk) Riparian Rangers taking care of Alliance Sites
- Need at least 50 more Riparian Rangers to take care of old sites, sites planted in Fall of 2021, and upcoming Spring 2022 sites!
- Working to start more Branches in neighboring counties
- Working to recruit a wider variety of volunteers



