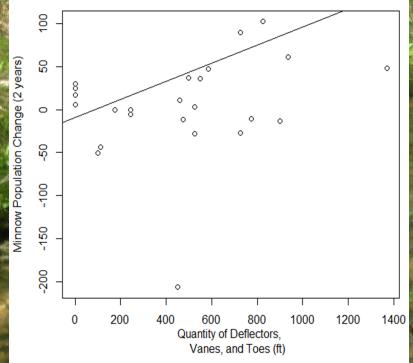


#### Farm Streams Research

Worked in collaboration with NPC, DEP, PFBC, and Conservation Districts to monitor BMP's and bank stabilization structures at 30+ sites

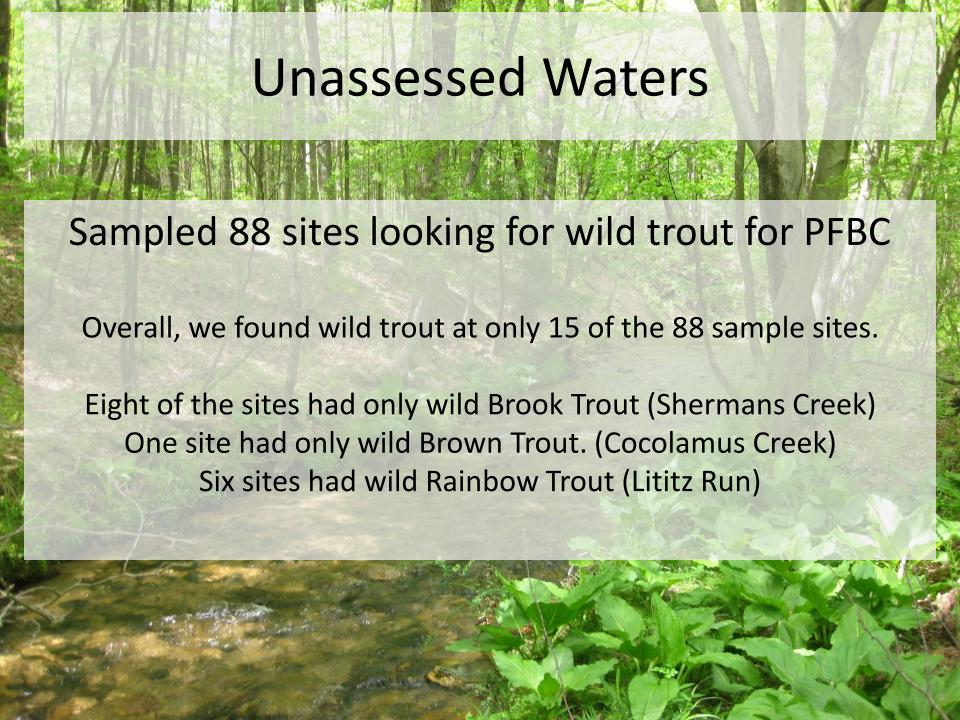






Sampled 88 sites looking for wild trout for PFBC

South Branch Towanda Creek (Bradford County)
Shermans Creek (Perry County)
Cocolamus Creek (Juniata County)
Lititz Run (Lancaster County)
Conewago Creek (Adams County)
A few other locations



# **Unassessed Waters** Wild Rainbow Trout in Lititz Run

#### **Unassessed Waters**





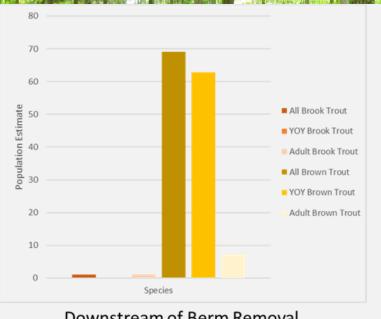
Worked in collaboration with NPC, PA Game Commission, Loyalsock Creek Watershed Association, and Foundation for Pennsylvania Watersheds to evaluate existing conditions for trout on Plunketts Creek at SGL 134

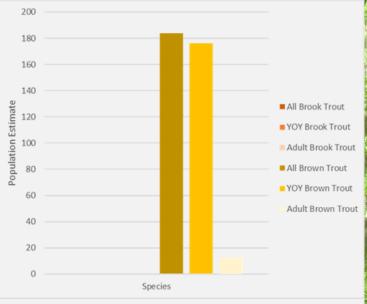
## Plunketts Creek Berm Removal Study





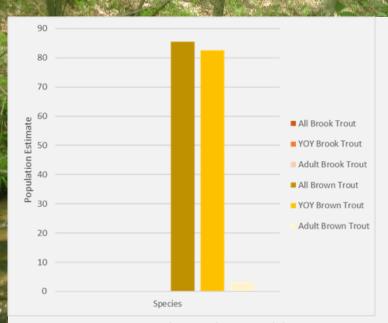


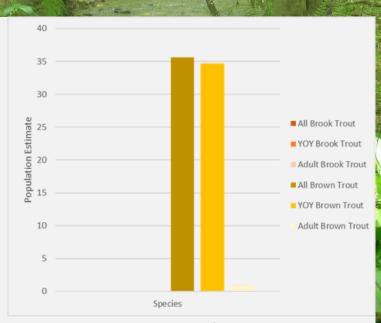




Downstream of Berm Removal

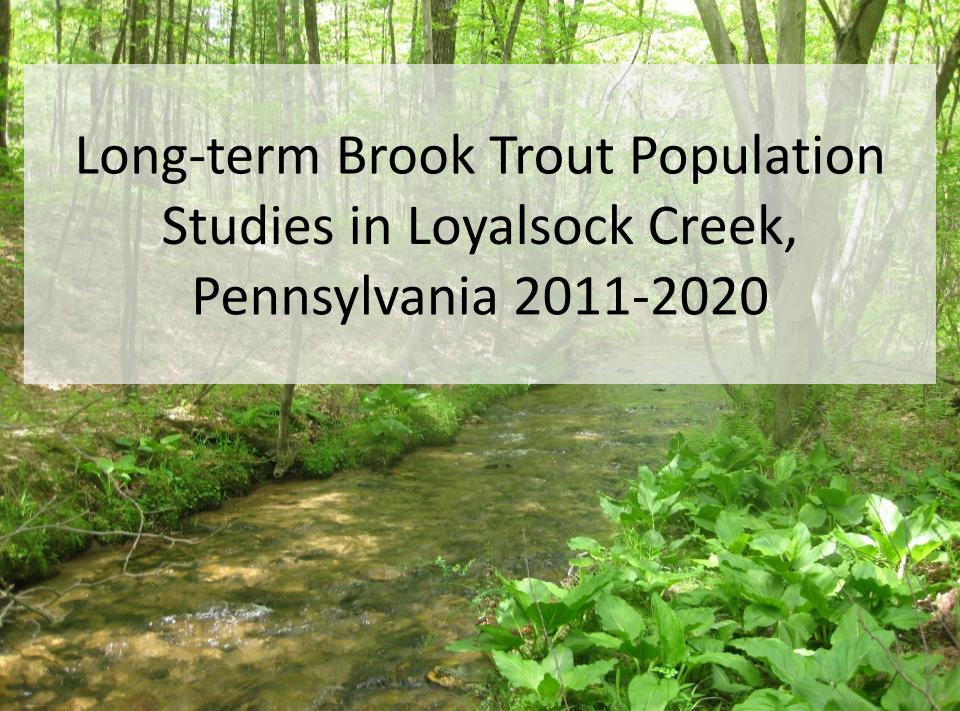
Berm Removal



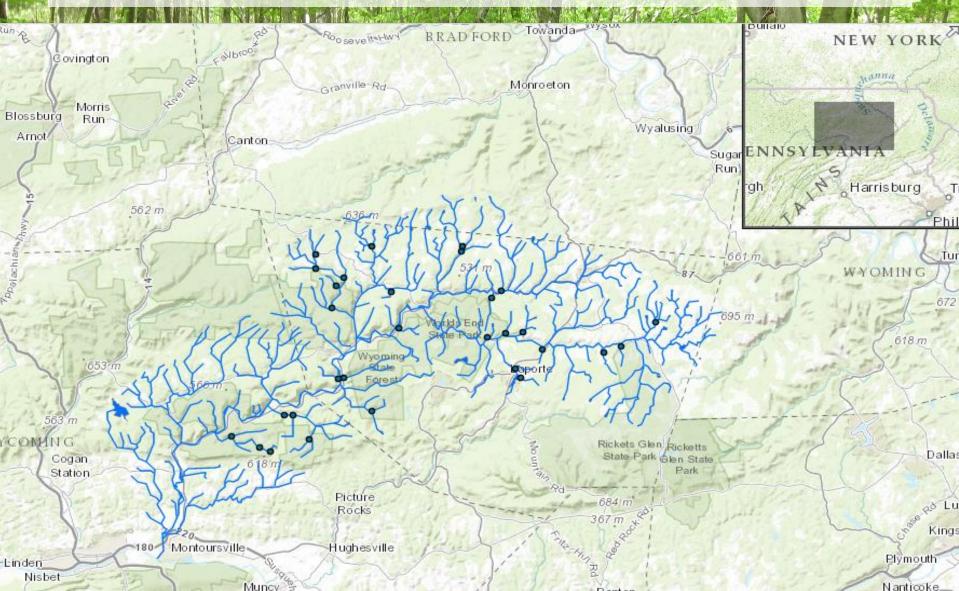


Berm Removal & Habitat Addition

Upstream reference



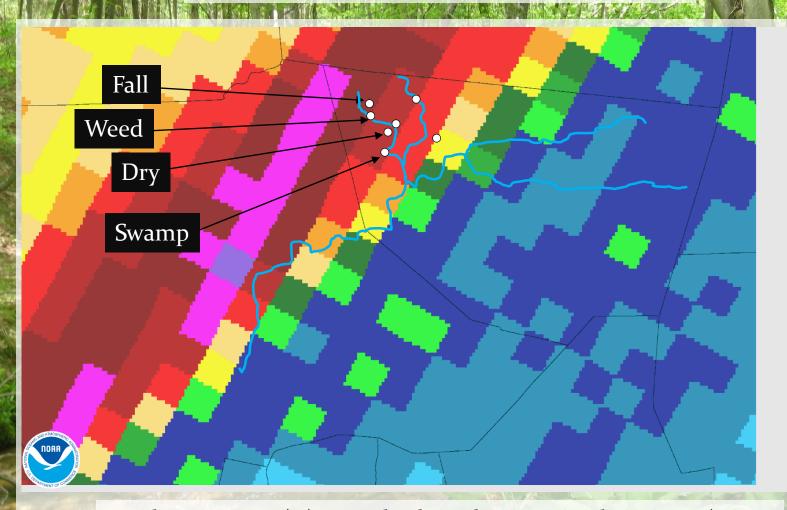
# Study Sites





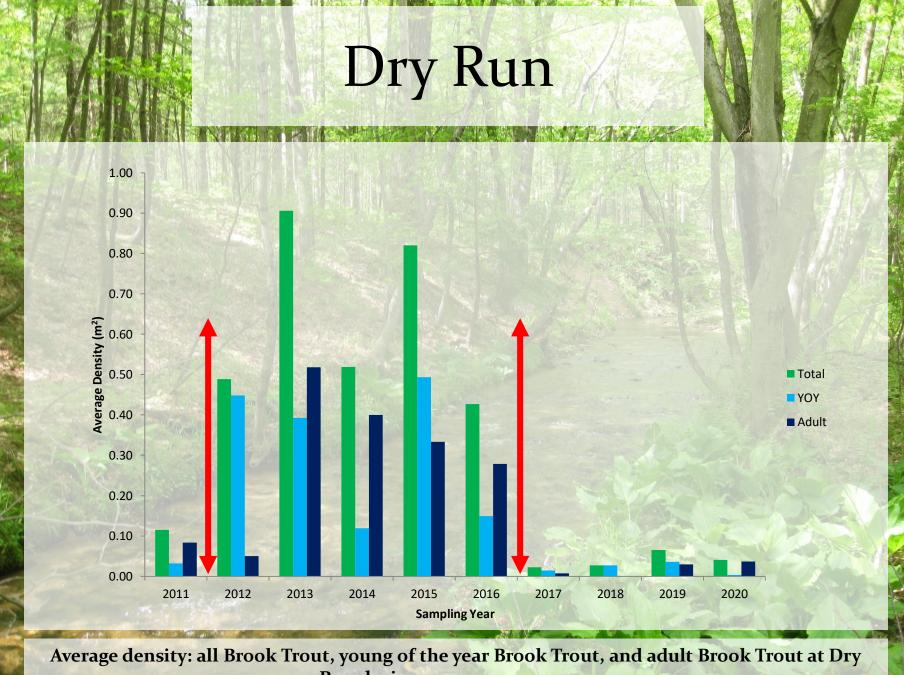
- 30 sites
- 1st and 2nd order streams
- 100 m length
- Triple pass collection
- Total length (mm)
- Weight (g)

### October 2016 Flood

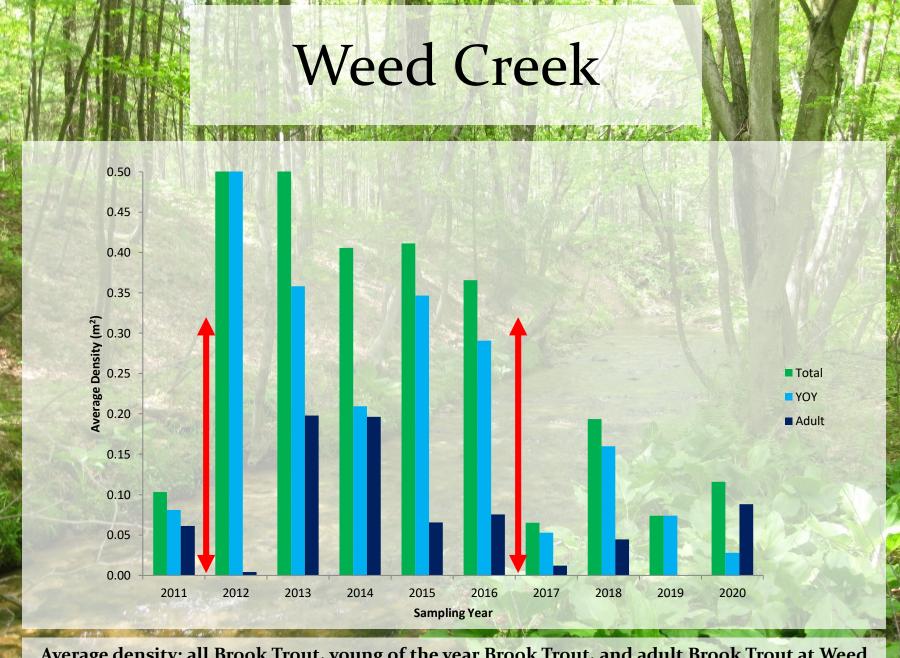


10 - 8.0 - 6.0 - 5.0 - 4.0 - 3.0 - 2.5 - 1.5 - 1.0 - .75 - .50 - .25 - .10 - .01 - 01 - 01

Total precipitation (in) in Loyalsock Creek area on October 21, 2016. (NOAA data). Mainstream Loyalsock Creek in light blue.



Run during summers 2011-2020.



Average density: all Brook Trout, young of the year Brook Trout, and adult Brook Trout at Weed Creek during summers 2011-2020.

