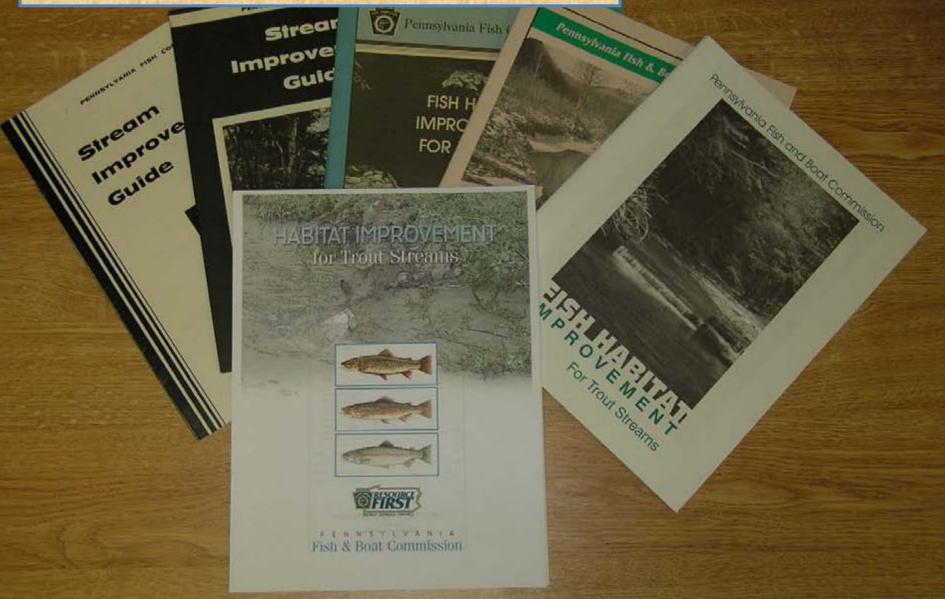


The Fish & Boat Commission has been doing fish habitat improvement since at least the 1950's.





Managing the whole stream ecosystem is the key......



....a healthy ecosystem will support all of these organisms.....

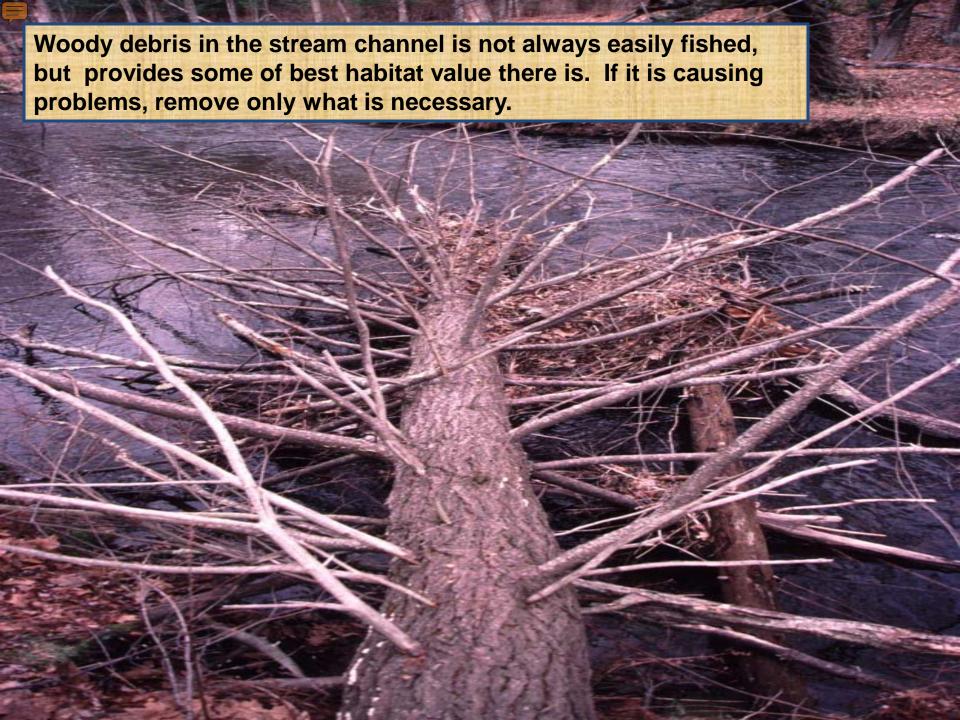


....including trout!!









Fish habitat improvement structures are required to be permitted by DEP and the USACOE. Some typical structures used by the PFBC are shown in the following slides.

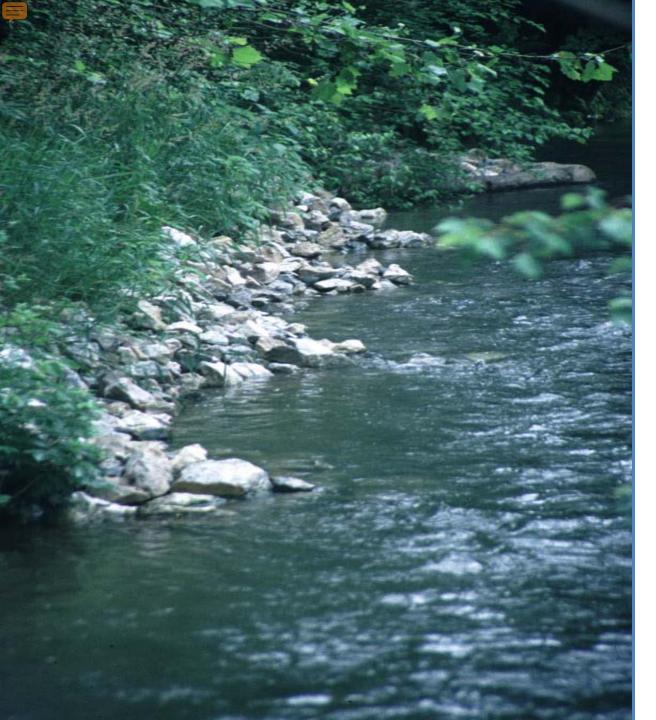
## PERMITS: General Permit – 1 Fish Enhancement Structures (Issued by DEP)



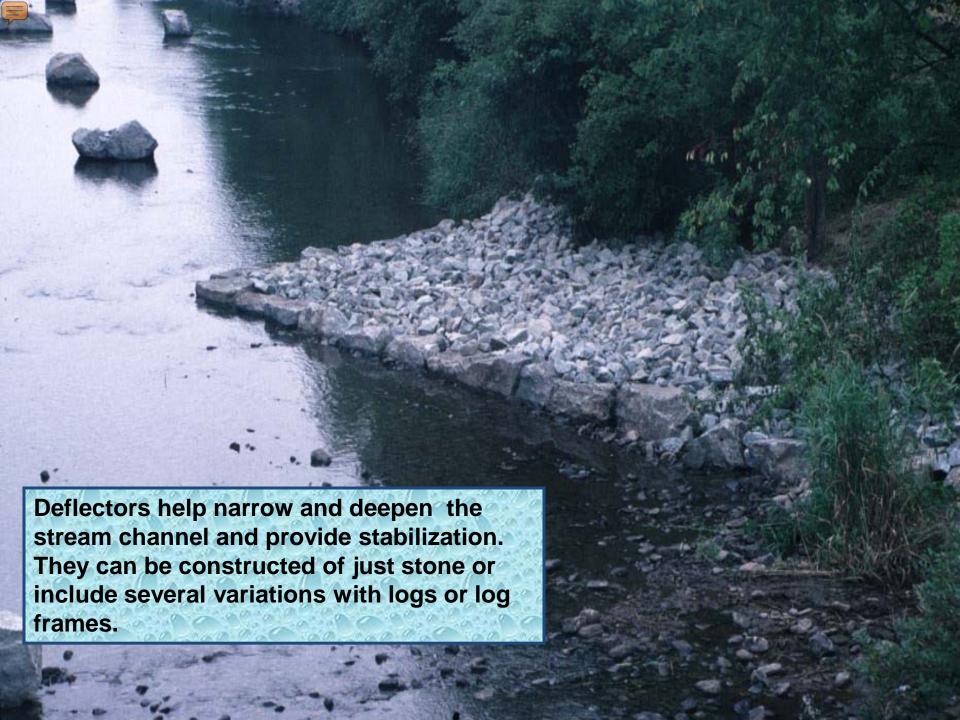








Saw-tooth deflectors are a good alternative to straight rip-rap, providing more edge effect and some backwater resting areas for fish.

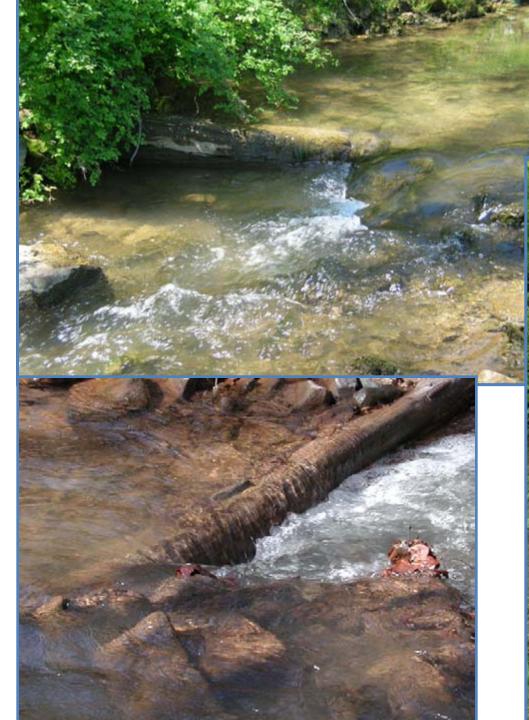












Single log vanes help turn flows away from the bank providing plunge-pool habitat as well as stabilization.

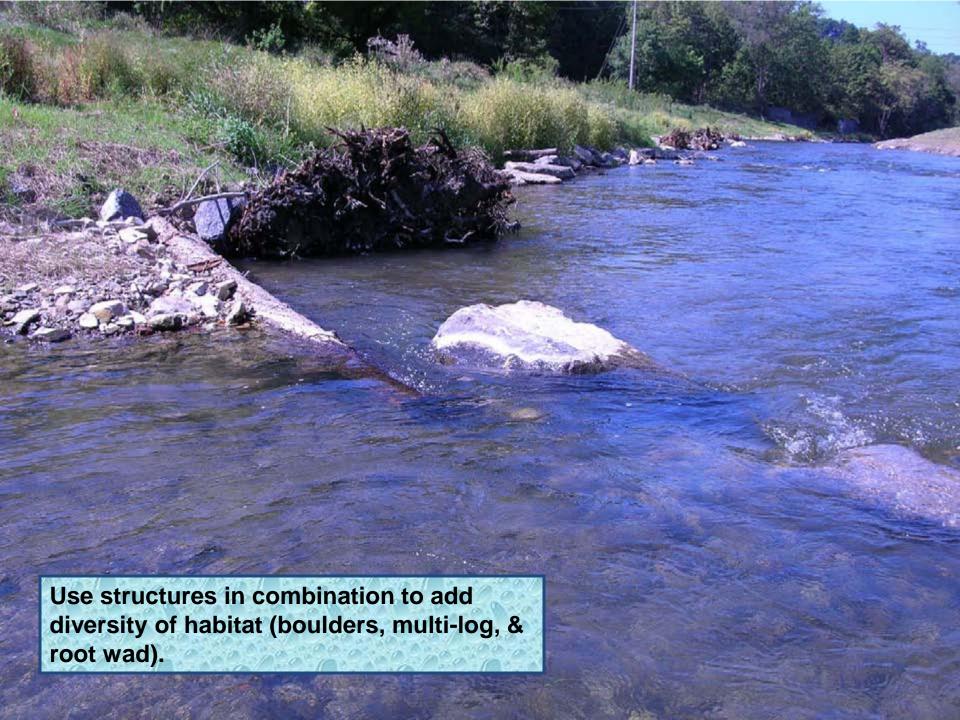








Multi-logs serve the same purpose as single logs or can be arranged more randomly for added habitat.





Mud sill cribbing will provide a stable undercut bank and can help reclaim outside bends in the channel (during & after).









## Good habitat makes good fishing!!

**Wild Brown Trout** 

Wild Brook Trout



