

Today's Agenda

- •What is a healthy stream?
- •Why are macroinvertebrates good indicators of stream health?
- •How do we sample benthic macroinvertebrates?
- •Where do we sample?
- •How can you participate?
- •Introduction to Macroinvertebrate Identification

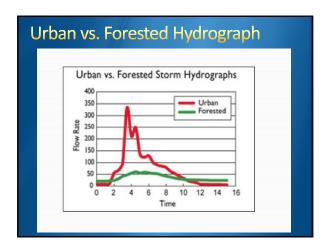
Activity - Macroinvertebrate Identification



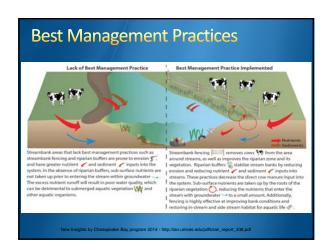
















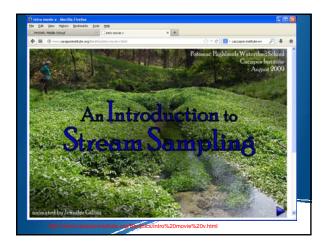
What is a Benthic Macroinvertebrate?

Benthic = lives on the bottom

Macro = visible without magnification

Invertebrate = no backbone





Help and practice in the field with an existing team Sign-up sheets Check our calendar: http://www.tinyurl.com/loudounstreammonitor

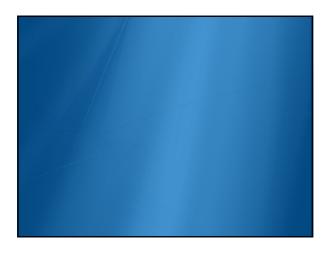


Break

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Loudoun Wildlife Conservancy
Loudoun Watershed Watch

Stream Sampling Exercise



Why are they good indicators?

- •Spend up to one year in the stream.
- Have little mobility
- Generally abundant
- ■Primary food source for many fish
- ■Wide variety of tolerances to pollution

Pollution Tolerances Group 1 - Pollution sensitive (require higher DO, neutral pH, cold water) Ex. mayflies, stoneflies, caddisflies Group 2 - Somewhat pollution tolerant Ex. scuds, dragonflies, damselflies Group 3 - Pollution tolerant (can tolerate low oxygen, lower/higher pH, warmer water) Ex. aquatic worms, midge larva

