

AQUATIC MACROINVERTEBRATES

MODULE CONTENTS

BOOKS / BOOKLETS / FIELD SHEETS / VISUAL AIDS / VIDEOS

- ___ 1 *Aquatic Entomology* by W. Patrick McCafferty (white book)
- ___ 1 *Pond and Stream Safari* by Cornell Cooperative Extension (blue binder)
- ___ 1 *How to Know the Aquatic Insects* by Dennis M. Lehmkuhl (white wire spiral bound book)
- ___ 6 *Freshwater Invertebrates* by J. Reese Voshell, Jr. (yellow book)
- ___ 1 *Guide to the Study of Freshwater Biology* by Needham and Needham (white/greenish book)
- ___ 1 *Pond and Brook: A Guide to Nature in Freshwater Environments* (black book)
- ___ 1 *An Anglers Guide to Aquatic Insects and Their Imitations* by Hafele and Roederer (light blue book)
- ___ 3 *Pond Watchers: Guide to Ponds and Vernal Pools* (laminated, folded, field guide)
- ___ 1 *Monitor's Guide to Aquatic Macroinvertebrates* by Loren Larkin Kellogg (white booklet)
- ___ 1 VIDEO - *S.O.S. For America's Streams: A Guide to Water Monitoring* (white cardboard case)
- ___ 1 *Leaf Pack Flash Cards* by LaMotte (laminated set of index cards)
- ___ 1 *Pond Life (Golden Guide)* by George K. Reid (little blue book)
- ___ 2 *A Volunteer Monitor's Field Guide to Aquatic Macroinvertebrates* by the Isaak Walton League of America (blue and white folded, laminated brochure)
- ___ 1 *Insects in the Pond* by Hidetomo Oda (green book)
- ___ 1 *Dragonflies of the World* by Jill Silsby
- ___ 1 *Dragonflies & Damselflies and Introduction to Familiar, Widespread North American Species*
A Pocket Naturalist Guide
- ___ 1 *Strange Beginnings* by Karen Needham and Launi Lucas
- ___ 1 disk- *Aquatic Macroinvertebrates PowerPoint Presentation* (also on Creek website)
- ___ 1 DVD – *Common Dragonflies and Damselflies of Eastern North America* by Richard K. Walton and Greg Dodge
- ___ 1 DVD – *Common Bugs of the Underworld* by Ralph & Lisa Cutter
- ___ 2 Nature Circles Pond and Stream Life Card Set – Acorn Naturalists

ACTIVITY ENVELOPES

- Aquatic Insect Parts & Pieces - 1 Envelope
 - ___ Visual aids
- Aquatic Insect Life Cycle Activity - Envelope 1 of 2
 - ___ Connect Four or Three Game Boards
- Aquatic Insect Life Cycle Activity - Envelope 2 of 2
 - ___ Small envelopes of Life Cycle Stages Game Pieces
- Life at the Surface - 1 Envelope
 - ___ wire cutters, wire, Forks and Paper Clips
- Pollution Tolerance Index – Bag of Bugs Activity Envelope - 1 Envelope
 - ___ 4 bags (at minimum) of bug scraps of paper and Answer key chart
- Create An Aquatic Macroinvertebrate - 1 Envelope
 - ___ Blank art pages, examples, visual aids, adaptation cards
- Aquatic Insect Lab Practical Activity - 1 Envelope
 - ___ Station # cards, Question cards
- Aquatic Macroinvertebrates Creek Geek Knowledgey (Jeopardy) - Envelope 1 of 2
 - ___ 3 columns of paper version of game
- Aquatic Macroinvertebrates Creek Geek Knowledgey (Jeopardy) - Envelope 2 of 2
 - ___ 3 columns of paper version of game

- ❑ 12 *Pond and Stream Study Guide* by PA Fish and Boat Commission (11x17 color sheets)
- ❑ 6 Aquatic Macroinvertebrate Match Games with accompanying game pieces in large sealable bag
- ❑ 9 Aquatic Macroinvertebrate Anatomy Match Games with accompanying game pieces in large sealable bag
- ❑ MACRO (bingo) game sheets to play when sampling macros

In Bucket

- ❑ 8 Multi-Plate Samplers (MPASS)
- ❑ Bundle of Leaf Pack Bags (onion sack bags)
- ❑ Sealable Bags
- ❑ Rope, String, Flagging
- ❑ Twist Ties and/or Zip Ties
- ❑ Carry Case of Macroinvertebrate Sorting/Viewing Equipment
 - __ 12 forceps
 - __ 12 magnifying glasses
 - __ droppers
 - __ spoons and a small ruler
 - __ magnifying boxes
 - __ Petri dishes
 - __ set of identification cards
- ❑ 3 White trays for macroinvertebrate collection
- ❑ 1 Small tackle box to use for macro sorting
- ❑ Macro cups (cups with photos used for sorting and identification)
- ❑ 1 Macroinvertebrates Reference Collection (identified) – petri dishes
- ❑ 1 Macroinvertebrates Unidentified Collection – petri dishes
- ❑ 1 Plastic Box
 - __ 12 Macroinvertebrate PlastoMounts (or these in a separate black box)
 - __ Small box of Mosquito (Culex) lifecycle PlastoMount and microscope slides
 - __ Dragonfly Life Cycle PlastoMount
- ❑ 2 Brock Microscopes in cardboard boxes
- ❑ Macroinvertebrate Mayhem Game Materials in box
 - __ Colored, Laminated Game Pieces
 - __ Paper Plates
 - __ Orange, Predator vests
 - __ 3 Burlap Sacks
 - __ Field Markers
 - __ Whistle

ADDITIONAL LOOSE EQUIPMENT

- ❑ 3 Kick nets
- ❑ 3 D-frame nets

