

# Supported sample collection methods and protocols

## In-depth Lists of Methods and Protocols by Community

This page lists the community sample collection procedures (methods and protocols) that are supported by the BioData System. BioData uses the **National Environment Methods Index (NEMI)** as a repository for collection procedure documentation.

For an in-depth listing of methods by community, use the following links:

- [Fish sample collection methods and protocols](#)
- [Macroinvertebrate sample collection methods and protocols](#)
- [Algae sample collection methods and protocols](#)

All community and physical sample data in the BioData Input System must be associated with a sampling method reference which describes the field methods used to collect the sample. These references must be added to BioData **before** samples are entered.

Please [Contact Us](#) if you -

- Don't see your method listed? [Contact us](#) so we can do something about that.
- Need more help
- Have any questions

## Fish Methods and Protocols

- **USGS NAWQA Fish (NEMI)**
  - Moulton and others, 2002
  - Meador and others, 1993
- **AFS Coldwater Fish 2009 (NEMI)**
  - Dunham and others, 1999
- **AFS Warmwater Fish 2009 (NEMI)**
  - Rabeni and others, 2009
- **EPA RBP (Fish) 1999 (NEMI)**
  - Barbour and others, 1999
- **Price and Peterson 2010 (NEMI)**
  - Price and Peterson, 2010
- **NRSA Fish, wadable (NEMI)**
  - USEPA, 2009
- **NRSA Fish, boatable (NEMI)**
  - USEPA, 2009
- **USGS New York, Multipass Depletion (2008)**
  - Baldigo and others, 2008

## Invertebrate Methods and Protocols

- **USGS NAWQA Invertebrate Targeted Habitat (NEMI)**
  - Moulton and others, 2002
  - Cuffney and others, 1993
- **USGS NAWQA Invertebrate Multiple Habitat (NEMI)**
  - Moulton and others, 2002
  - Cuffney and others, 1993
- **EPA RBP Invertebrate Single Habitat (Inverts SHAB)(NEMI)**
  - Barbour and others, 1999
- **EPA RBP Invertebrate Multiple Habitat (Inverts MHAB) (NEMI)**
  - Barbour and others, 1999
- **CABIN 2012 (Inverts)(NEMI)**
  - Environment Canada, 2012
- **PIBO-EMP(NEMI)**
  - Archer and others, 2012
- **PNAMP Invertebrate Collection (NEMI)**
  - Hayslip, 2007
- **EPA NRSA Invertebrate, wadable, reach-wide benthos (NEMI)**
  - USEPA, 2013 (wadable)
  - USEPA, 2009
- **EPA NRSA Invertebrate, wadable, low-gradient benthos (NEMI)**
  - USEPA, 2009
- **EPA NRSA Invertebrate, boatable, transect benthos (NEMI)**
  - USEPA, 2013 (boatable)
  - USEPA, 2009
- **CDPHE Riffle-run invertebrate 2010**
  - Colorado Department of Public Health and Environment, Water Quality Control Division, 2010
- **CDPHE Multihabitat invertebrate 2010**
  - Colorado Department of Public Health and Environment, Water Quality Control Division, 2010
- **GADNR Invert 2007**
  - Georgia Department of Natural Resources, Environmental Protection Division, Watershed Protection Branch, 2007
- **HBMP 2012 Multihabitat Invert**
  - Stone and others, 2012
- **Marion Invert 1999-2001**
  - Voelker, 2004
- **MDNR 2003 Invert multihabitat**
  - Sarver, 2003
- **School Branch Creek Hester-Dendy**
  - personal communication

## Algae Methods and Protocols

- **USGS NAWQA Periphyton Richest Targeted Habitat (NEMI)**
  - Moulton and others, 2002
  - Porter and others, 1993
- **USGS NAWQA Periphyton Depositional Targeted Habitat (NEMI)**
  - Moulton and others, 2002
  - Porter and others, 1993
- **USGS NAWQA Periphyton Multiple Habitat (NEMI)**
  - Moulton and others, 2002
  - Porter and others, 1993
- **USGS NAWQA Phytoplankton (NEMI)**
  - Moulton and others, 2002
  - Porter and others, 1993
- **EPA: NRSA Periphyton (wadable & boatable)**
  - USEPA, 2013 (wadable) ([NEMI](#))
  - USEPA, 2013 (boatable) ([NEMI](#))
  - USEPA, 2009 ([NEMI wadable](#) ; [NEMI boatable](#))