

## Appendix G: Equipment

All the equipment needed for these lessons is available for check out from USU Water Quality Extension. Macroinvertebrate collection equipment such as kicknets, magnifying glasses, pipettes, and petri dishes are also available at each county extension office throughout the state of Utah. Please visit our website for contact information for your county extension office:

[Equipment and Supplies - Water Quality - extension.usu.edu](http://extension.usu.edu)

You can also purchase and/or make your own supplies for collecting macroinvertebrates.

### Make your own Kicknet

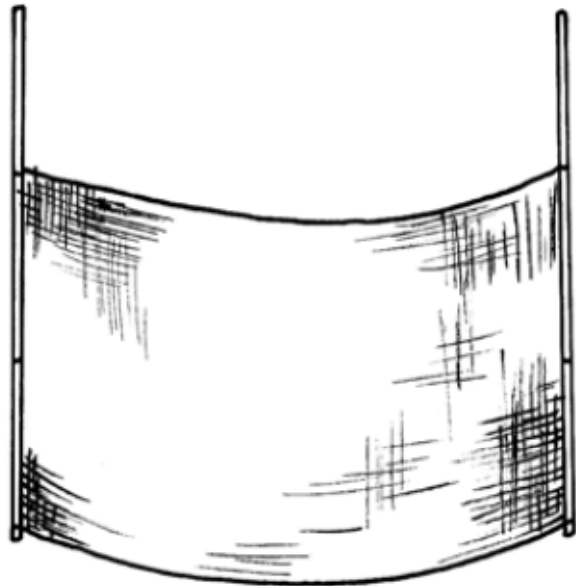
Kick nets, which consist of screening material stretched between two poles, are used for sampling macroinvertebrates. Sampling is done by pushing the two poles into the substrate until the edge of the screen rests on the bottom. Organisms are dislodged by disrupting the substrate on the upstream side of the net, allowing them to be carried by the current into the screen.

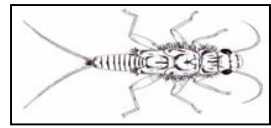
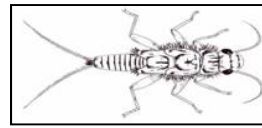
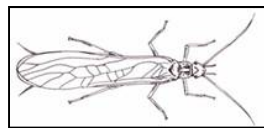
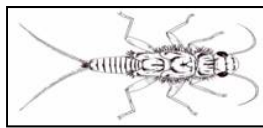
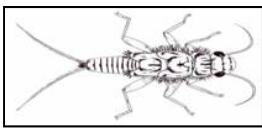
#### Materials

- two 3 ft x 5/8 in sections of wooden dowel
- one 3 ft x 2 ft section of fiberglass window screen
- staple gun
- duct tape (optional)

#### Directions

1. Stretch window screen length-wise between dowels
2. Wrap end of window screen around dowel once and staple along length of dowel. Wrap screen around the dowel a second time and staple again. You can repeat a third time if necessary and/or secure window screen to dowel with duct tape.





## Purchasing supplies

The following is a table of suggested places to purchase equipment.

Item	Part number	Source	Cost	Quantity
Thin Stem Pipette	15 V 2091	Ward's Natural Science <a href="http://wardsci.com/">http://wardsci.com/</a>	\$20.95	100
Petri dish	18 V 7101	Ward's Natural Science <a href="http://wardsci.com/">http://wardsci.com/</a>	\$6.00	20
Dual magnifying glass	24 V 1112	Ward's Natural Science <a href="http://wardsci.com/">http://wardsci.com/</a>	\$2.79	1
Plastic tray		Buy locally	\$4-10.00	1
Hip waders		Buy locally	\$25-50.00	1
Professional kick-net	77676	Forestry Suppliers.com	\$189.00	1
Macroinvertebrate ID book	ISBN 21	Borders or other bookstore	\$34.95	1

For more equipment see our website:

<http://extension.usu.edu/waterquality/hm/educator-resources/equip/list/>