

EQUIPMENT LIST

Each school participating in the program has been given or has acquired through Trout Unlimited (TU) the equipment needed for conducting all the activities associated with raising the Atlantic salmon eggs to their release as fry. New schools should arrange through contacting Charlie Olchowski of TU the purchase of their package. The special chiller units will be delivered directly to the school and the balance of all the equipment will be delivered at the time Charlie and other ASERP partner members visit your school to properly set up the system. The chiller unit must be ordered well in advance to assure timely delivery. Please contact Charlie for the current time frame, but do so no later than the end of October. TU has secured some good relationships with a number of suppliers in the Valley who offer the materials at a discount. TU buys supplies in bulk and divides the order up for delivery to each school. This fact in turn keeps the package cost for each school reasonable.

Supplies for the coming year will be available through Charlie, at fry pickup or through your liaison. This would include new charcoal filters for your filter pump, a new supply of ammo-chips for placement in the filter pump when brine shrimp are fed to the fry (please save ammo-chips as they can be reactivated by a simple procedure outlined below), and an ammonia and a pH testing kit (if yours has been used up). Anything that is missing from the following list will be replaced within reason. In future years, you must contact Charlie by the third week in September in order to assure your yearly supplies and replacements are available at the workshop.

Non-iodized salt and fresh brine shrimp eggs will be mailed to you just prior to the feeding stage. The eggs must be stored properly and freshness assures a greater hatching rate. If you are not going to feed, please let Charlie know so he does not supply you with them (they are expensive).

Here is the list. Do not wait to do an inventory. Missing items need time to be ordered in advance.

Each School:

- A sturdy table or counter space (that can hold at least 300 pounds) and is at least four feet long and two feet wide.

Basic:

- 30 Gallon Aquarium
- Insulation (this is cut to size from 4' X 8' sheets by TU members)
- Glacier Corporation Aquarium Chiller
- Emperor 280 Pump/Filter (with 1 Bio-Wheel)
- Power Strip
- Floating Thermometer
- 3" Net
- Nylon Baster
- Siphon Kit Consisting of 6' of 3/8" ID Vinyl Hose and a 24" Pickup Tube
- Ammonia Test Kit
- pH Test Kit
- 2" Wide Roll of Duct Tape
- 2 – 5 Gallon Food Grade Buckets for Siphoning and Water Replacement

- 1 Quart Household Chlorine Bleach (to sanitize aquarium and filter parts)

Brine Shrimp Setup:

- 125 Watt Infrared Lamp
- Clamp Lamp
- Wooden Stand (made by TU members)
- Rubbermaid 4 Gallon Tray with Lid
- 2 – 1 Quart Wide Mouth Canning Jars @ \$1.00 ea.
- Air pump
- 3 – Way Electrical Plug
- Air Line Tubing
- Check Valve
- T-Valve
- 2 Air Stones (aggregate or plastic types – check for condition)
- Brine Shrimp Net
- Measuring Spoons
- Small Floating Thermometer
- Sponge
- Plastic Wrap
- Rubber Bands

Supplies:

- Filter Media – 1) Charcoal Filters (2 for 280s, 4 for 330s)
2) Ammo-Chips
- Brine Shrimp Eggs
- Non-Iodizes Salt

Supplies will be made available to you each year by the most convenient means possible (U.S. Mail, at workshop, etc.)

New Schools: Do not wait for the setup team to arrive to open up your Chiller shipping box and to inspect for transit damage. Save the packaging (its complex) for service work shipping, if it is ever needed. If there is a sign of serious damage, you must work quickly to report it to UPS and to get a backup unit from ASERP. You may be brave enough to read the instructions, plug it in and test it. If you do this out of water, please do it for only a very brief time. The most common shipping injury is that the cooler fins get pushed into the fan and prevents the fan from moving. So if you do the test run and there is no fan noise, let Charlie know and it will be fixed by the team when you are set up.

Bio-Wheels harbor beneficial bacteria that break down ammonia. **DO NOT CLEAN** the Bio-Wheels! For the period of time we use them each year, they should last indefinitely. Place the charcoal filters in the pump/filter as soon you start chilling the water. It will clarify the tank, if there is any cloudiness. Put a new set in when you start introducing brine shrimp.

You can reactivate the Ammo-Chips by soaking them in a salt solution. Prepare a salt solution with ¼ cup of salt dissolved in ½ gallon of water for every 12 oz. of Ammo-Chips you plan to recharge. Soak them for two hours, then rinse them under tap water and either use or dry and store for the next time you change the Ammo-Chips.

You will also need a supply of paper or wax-coated cups for fry stocking day. Good luck and call for any questions you may have.