

# Cooling your Salmon Aquarium

- Salmon eggs and alevin must incubate in water from 6 to 10C.
  - The temperature must remain stable and must not fluctuate more than 2 degrees.
- For example, if you begin incubation at 7C do not allow the temperature to rise above 9C within a 24 hour period.

## USING COLD TAP WATER THROUGH COILED TUBE

The tap water should flow at a minimum 1 litre per minute (this is a trickle) to maximum 2 litres/min (a small flow).

To calculate this flow:

- 1) Fill a 1 litre container in 1 minute. Use the water which is discharging into the sink from the cooling tubing.
- 2) Measure the time with a clock/watch. Adjust the water flow (up or down) until you can fill the 1 litre container in 1 minute.
- 3) Monitor the tank temperature. If above 10C then adjust flow to 2 litres/minute. To make this adjustment, repeat Step 1 and Step 2 using a 2 litre container.
- 4) If this flow will not cool your tank below 10C, augment with ice.

## USING ICE IN 2 LITRE POP BOTTLES

A 2 litre bottle of ice (replaced every 4 hours) will usually cool a 20 gallon tank.

1. Fill 1 or 2 litre pop bottles with de-chlorinated water and freeze. Remove labels, use plastic caps, leave room at the top for ice to expand.
2. Add bottles to tank in the morning, at noon, and after school. Water temperature should not fluctuate beyond 2 degrees up or down (for example 7C to 9C or 10C to 8C etc.)
3. Add additional bottles on Friday evening (have 3 or 4 in tank). Use a thicker styrofoam (2") covering to stabilize temperatures longer.
4. The aquarium water level must always cover the power filter motors. If you remove a bottle then always replace immediately with another frozen bottle.
5. Practise this method one week before the salmon eggs arrive. Monitor the temperatures carefully -fluctuations in temperature are very harmful to developing eggs.