



# Great Lakes Sea Lamprey: From Crisis to Control

## Video worksheet



### Section 1: What are sea lampreys? (fill-in-the-blank)

**Word Bank:** cartilaginous      one      jawless      blood      2.5  
40      walleye      invasive      lake trout

1. Sea lampreys are an \_\_\_\_\_ species in the Great Lakes, meaning they are not native to this ecosystem.
2. Sea lampreys feed on the \_\_\_\_\_ of other fish.
3. Two species of native Great Lakes fish that sea lampreys parasitize are \_\_\_\_\_ and \_\_\_\_\_.
4. In some cases, only \_\_\_\_\_ out of seven fish will survive a sea lamprey attack.
5. A sea lamprey kills up to \_\_\_\_\_ pounds of fish in its life.
6. Before control began there were approximately \_\_\_\_\_ million sea lampreys in the Great Lakes.
7. A sea lamprey's mouth is \_\_\_\_\_.
8. Sea lampreys have a \_\_\_\_\_ skeleton, like sharks, which makes them highly flexible.

### Section 2: History (matching)

- |   |                                   |
|---|-----------------------------------|
| 1. Lampreys are "living fossils" and have been around since before the:           | A. Great Lakes                    |
| 2. Sea lampreys are native to the:  | B. decreased                      |
| 3. Man-made shipping canals allowed sea lampreys to invade the:                   | C. dinosaurs                      |
| 4. Sea lampreys invaded all of the Great Lakes by the late:                       | D. eliminated                     |
| 5. In 4 out of the 5 Great Lakes, lake trout were:                                | E. 1930s                          |
| 6. Research station where sea lamprey control research began:                     | F. Atlantic Ocean                 |
| 7. Since control began in the Great Lakes, sea lamprey numbers have dramatically: | G. Hammond Bay Biological Station |

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### Section 3: Life cycle (multiple choice)

1. Sea lampreys spawn in the:  
(a) fall                      (b) winter                      (c) summer                      (d) spring
2. Sea lampreys use their \_\_\_\_\_ to move rocks around and build a nest.  
(a) tails                      (b) gills                      (c) mouths                      (d) fins
3. The sea lamprey's scientific genus, *Petromyzon*, means:  
(a) rock sucker    (b) fast swimmer    (c) blood loving    (d) good smeller
4. A sea lamprey spawns how many times in its life?  
(a) 40                      (b) 1                      (c) 4                      (d) 100
5. Each female sea lamprey can produce up to how many eggs?  
(a) 1                      (b) 100                      (c) 1,000                      (d) 100,000
6. Sea lampreys undergo a metamorphosis and then swim out into the larger lakes to feed on:  
(a) algae                      (b) fish blood                      (c) plankton                      (d) mussels
7. The control program mainly targets the adult and \_\_\_\_\_ life stages.  
(a) larval                      (b) parasitic                      (c) egg                      (d) newly metamorphosed

### Section 4: Control (choose the answer)

1. The sea lamprey control program is one of the \_\_\_\_\_ invasive species control programs in the world. (best/worst)
2. Larval sea lampreys are controlled through the application of \_\_\_\_\_. (detergent/lampricides)
3. Lampricides are \_\_\_\_\_, meaning they target sea lamprey larvae without harming other organisms. (durable/selective)
4. The ultimate goal of the control program is to maintain \_\_\_\_\_ populations of fishery species in the Great Lakes. (stinky/healthy)
5. Biologists tested over 6,500 different chemicals and found \_\_\_\_\_ selective lampricides. (2/2,500)
6. The main lampricide used in sea lamprey control is \_\_\_\_\_. (TFM/ABC)
7. A network of \_\_\_\_\_ around the Great Lakes blocks adult sea lampreys from accessing spawning areas in streams. (mazes/barriers)
8. \_\_\_\_\_ is a control method in development. (trapping/measuring)
9. Control efforts have reduced sea lamprey populations by \_\_\_\_\_ across the Great Lakes. (90%/10%)



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- Sea lampreys are an invasive species in the Great Lakes, meaning they are not native to this ecosystem.
- Sea lampreys feed on the blood of other fish.
- Two species of native Great Lakes fish that sea lampreys parasitize are walleye and lake trout.
- In some cases, only one out of seven fish will survive a sea lamprey attack.
- A sea lamprey kills up to 40 pounds of fish in its life.
- Before control began there were approximately 2.5 million sea lampreys in the Great Lakes.
- A sea lamprey's mouth is jawless.
- Sea lampreys have a cartilaginous skeleton, like sharks, which makes them highly flexible.

### Section 2: History (matching)

- |   |                                   |
|---|-----------------------------------|
| 1. Lampreys are "living fossils" and have been around since before the: (C)           | A. Great Lakes                    |
| 2. Sea lampreys are native to the: (F)  | B. decreased                      |
| 3. Man-made shipping canals allowed sea lampreys to invade the: (A)                   | C. dinosaurs                      |
| 4. Sea lampreys invaded all of the Great Lakes by the late: (E)                       | D. eliminated                     |
| 5. In 4 out of the 5 Great Lakes, lake trout were: (D)                                | E. 1930s                          |
| 6. Research station where sea lamprey control research began: (G)                     | F. Atlantic Ocean                 |
| 7. Since control began in the Great Lakes, sea lamprey numbers have dramatically: (B) | G. Hammond Bay Biological Station |

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- Sea lampreys use their \_\_\_\_\_ to move rocks around and build a nest.  
(a) tails (b) gills (c) **mouths** (d) fins
- The sea lamprey's scientific genus, *Petromyzon*, means:  
(a) **rock sucker** (b) fast swimmer (c) blood loving (d) good smeller
- A sea lamprey spawns how many times in its life?  
(a) 40 (b) **1** (c) 4 (d) 100
- Each female sea lamprey can produce up to how many eggs?  
(a) 1 (b) 100 (c) 1,000 (d) **100,000**
- Sea lampreys undergo a metamorphosis and then swim out into the larger lakes to feed on:  
(a) algae (b) **fish blood** (c) plankton (d) mussels
- The control program mainly targets the adult and \_\_\_\_\_ life stages.  
(a) **larval** (b) parasitic (c) egg (d) newly metamorphosed

### Section 4: Control (choose the answer)

- The sea lamprey control program is one of the \_\_\_\_\_ invasive species control programs in the world. (**best**/worst)
- Larval sea lampreys are controlled through the application of \_\_\_\_\_.  
(detergent/**lampricides**)
- Lampricides are \_\_\_\_\_, meaning they target sea lamprey larvae without harming other organisms. (durable/**selective**)
- The ultimate goal of the control program is to maintain \_\_\_\_\_ populations of fishery species in the Great Lakes. (stinky/**healthy**)
- Biologists tested over 6,500 different chemicals and found \_\_\_\_\_ selective lampricides. (**2**/2,500)
- The main lampricide used in sea lamprey control is \_\_\_\_\_. (**TFM**/ABC)
- A network of \_\_\_\_\_ around the Great Lakes blocks adult sea lampreys from accessing spawning areas in streams. (mazes/**barriers**)
- \_\_\_\_\_ is a control method in development. (**trapping**/measuring)
- Control efforts have reduced sea lamprey populations by \_\_\_\_\_ across the Great Lakes. (**90%**/10%)