Introduction to Grass Carp





Introduction











Grass Carp (Ctenopharyngodon idella)

Description:

- Oblong-shaped body covered in large overlapping scales
- Eyes located in the center of the head
- Scales are outlined by pigment giving a crosshatched effect
- Coloration varies from blackish to olive-brown with silvery-white on the sides and belly

Size:

- Matures in 2 years
- 80+ lbs.
- 1.5 meters long!

Diet: Primarily consumes aquatic plants

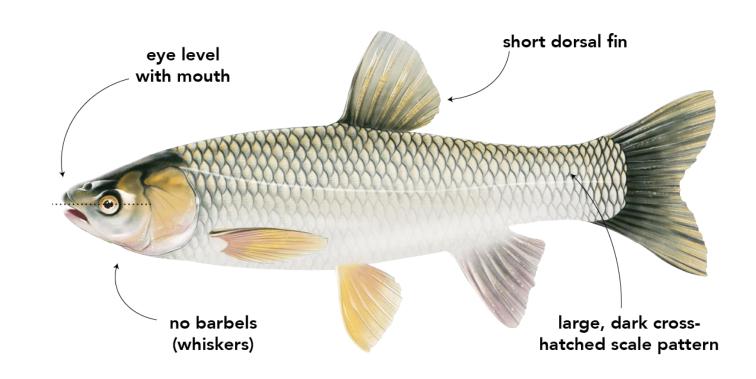








Grass Carp





Why Should We Care?

- Grass Carp threaten Canada's ecological, recreational and economic environments.
- Grass Carp prefer cold or moderate water temperatures, like that of the Great Lakes.
- Reproduce very quickly and grow more than 25cm during their first year.
- Grass Carp grow large quickly, meaning they can outgrow the mouth size of native predators. This makes it unlikely that a population of Grass Carp in the Great Lakes would be controlled.









Ecological Impacts

- Grass Carp can consume up to 40% of their body weight in food each day! That's like a person eating 40 large pizzas, 430 cups of lettuce, or 180 burgers.
- They can alter habitat, reduce food and resource availability, and act as carriers for diseases or parasites that could spread to native fishes.
- Threaten wetland habitats and the native species that rely on them.
- High impacts estimated for over 30 native freshwater fish species and at least 18 native wetland bird species.







Economic Impacts

Impacted Industries May include:

Commercial Fishing:

- Reduction in commercial native fish catches.
- Increase in operational costs by having to expand harvesting locations.

Recreational Fishing:

- Reductions in populations of popular angling species such as Smallmouth Bass, Walleye, Yellow Perch, Northern Pike, Muskie and more!
- Anglers contribute a large amount of money to the economy via fishing licenses, purchasing of fishing equipment and gear, and through tourism

Waterfowl Hunting:

- Decreased hunting opportunities due to the loss of wetlands that many popular hunting species depend on for food and habitat.







Social Impacts

Beaches & Lakefronts:

 The presence of Grass Carp is known to decrease water quality and increase the presence of toxic algae.

Could discourage recreational opportunities such as swimming, kayaking, canoeing, paddle boarding, boating, etc.

Wildlife Viewing:

- Reductions in water quality and an increase in algae pose a health risk to Great Lakes users while participating in wildlife viewing activities.
- Decreased participation in wildlife viewing activities, like birdwatching due to a reduction in native species that depend on wetland habitats.





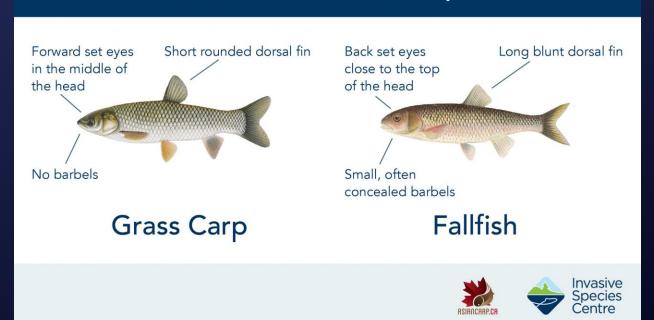




Confused with Carp – Common Carp



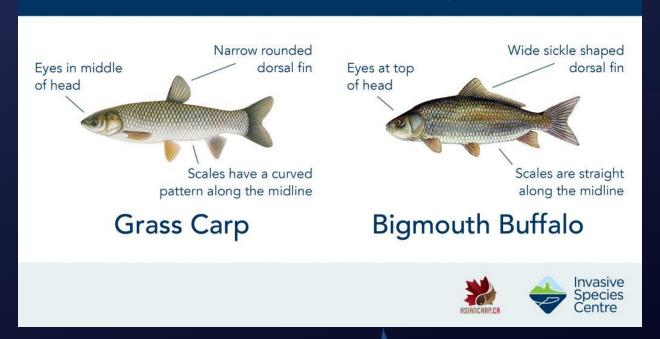
Confused with Carp - Fallfish



Confused with Carp – Creek Chub



Confused with Carp – Bigmouth Buffalo





What you can do to Help

ldentify!



- Learn how to identify Grass Carp
- Learn how to differentiate Grass Carp apart from their common look-alike species

Report!

- Report all Grass Carp sightings and captures to the Invading Species Hotline at 1-800-563-7711, or online via EDDMapS.org
- Follow the steps found in the Grass Carp Identification and Reporting Guide

Prevent Spread!



- Never trade, sell, buy, transport or release Grass Carp. In Canada, it is illegal!
- Never dump live bait within 30 meters of any body of water!



INVASIVE GRASS CARP OR A LOOK-ALIKE?

Grass Carp is an invasive fish that has been found in the Great Lakes in small numbers, but are not established in Canada. If you think you have caught a Grass Carp, follow these steps:

- Report it to the Invading Species
 Hotline: 1-800-563-7711, or email
 info@invadingspecies.com, or report via
 EDDMapS.org/Ontario;
- 2. Work through this ID sheet;
- 3. If your fish matches ALL of the features of Grass Carp, go to step 4. Otherwise, if the fish cannot be lawfully kept, release it immediately to the waters where it was caught, in a manner that causes the least harm to the fish. OR, if the fish can be lawfully kept, you can either practice catch and release or keep it;
- Take photographs of the fish from multiple angles with adequate lighting and note your geographic location (e.g. latitude and longitude);
- If you were unable to reach someone directly in step #1, avoid unintentionally killing native fishes by being certain



Photo Credit: Jeff HTL University of Hartda - ERG Tracked Association Lations

of your identification before killing a suspected Grass Carp. Ensure you are abiding by all of the laws highlighted in the Ontario Recreational Fishing Regulations Summary; and

6. IMPORTANT: Do NOT release the Grass Carp alive. Kill the fish without damaging the head or eyes. Gut the fish and keep it in a cooler, with its head above the ice. Fisheries and Oceans Canada will collect it! They learn a lot about the fish by conducting analyses on the head and eyes, such as whether or not the fish is fertile or sterile and where it came from.



INVASIVE Grass Carp with SHORT dorsal fin and LARGE SCALES



Common Carp with LONG dorsal fin and LARGE SCALES



Fallfish with SHORT dorsal fin and MODERATE SCALES. Eyes sit relatively high on head



JAWED mouth and NO BARBELS (whiskers). Eyes are low and sit in line with mouth



Common Carp with SUCKER mouth and BARBELS (whiskers). Eyes sit relatively high on the head



Sucker species (e.g. Write Sucker, pictured) with SUCKER mouth and NO BARBELS (whiskers). Eyes sit high on the head



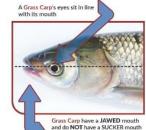
INVASIVE Grass Carp with SLENDER head and body



Common Carp with DEEP body



Smallmouth Buffalo with DEEP body





giving a cross-hatched appearance







