



Invasive
Species
Centre



Asian Carp Exhibit at the Toronto Zoo

ICAIS

23 October 2017

Lauren Tonelli



Pêches et Océans
Canada

Fisheries and Oceans
Canada



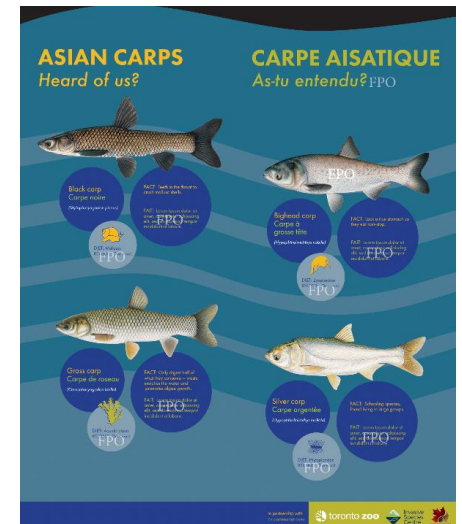
Concept

- Shedd Aquarium
- Hands-on learning on the size and rate of growth
- Hopefully the only place in Canada you will see live Asian carps



Development

- Began in 2014
- Forming partnerships
- Information and graphics
- Tank design



Hurdle #1

Water Filtration for eDNA



Permitting

- US Fish and Wildlife
- State boarder transport
- Canadian Food Inspection Agency
- Fisheries and Oceans Canada
- Ontario Ministry of Natural Resources



Hurdle #2

Ontario Invasive Species Act

November 2016

Prohibited invasive species

It is illegal to import, possess, deposit, release, transport, breed/grow, buy, sell, lease or trade these prohibited invasive species:

Fish

- Asian carp
 - bighead carp *Hypophthalmichthys nobilis*
 - black carp *Mylopharyngodon piceus*
 - grass carp *Ctenopharyngodon idella*
 - silver carp *Hypophthalmichthys molitrix*

AUTHORIZATIONS AND AGREEMENTS

Authorizations

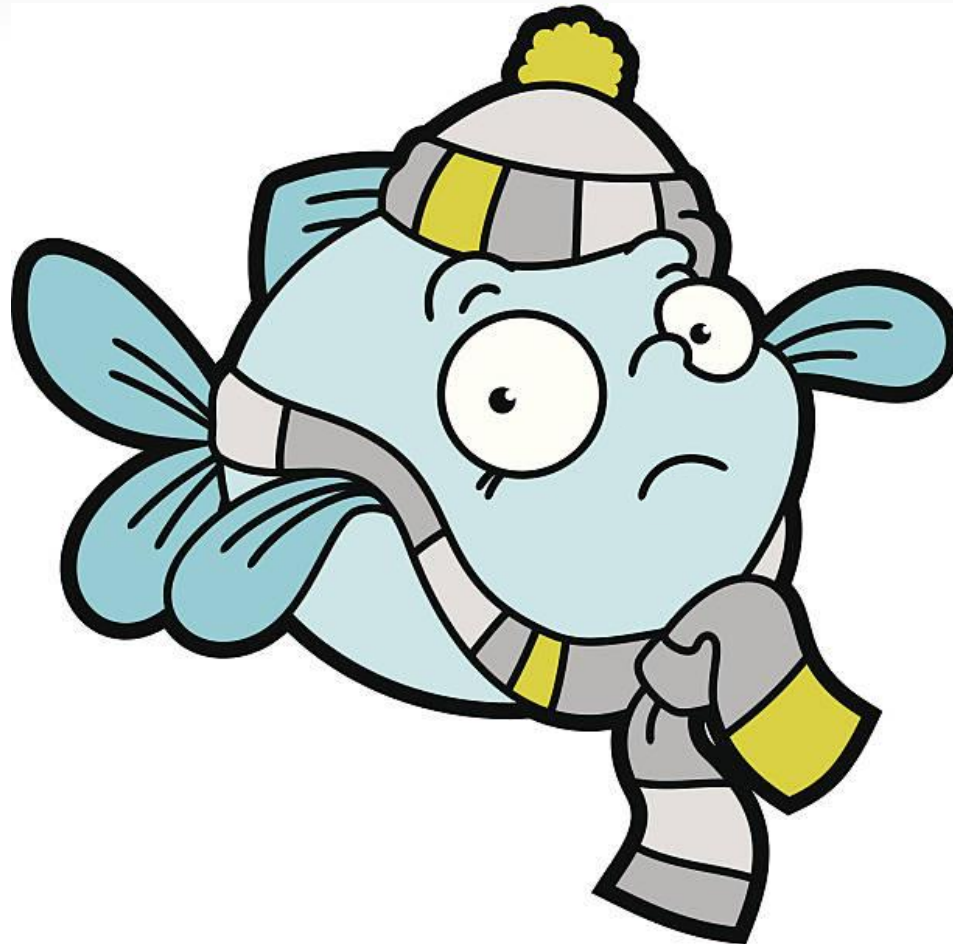
10. (1) The Minister may authorize a person in writing to engage in any activity specified in the authorization that would otherwise be prohibited under section 7 or 8 if the Minister is of the opinion that the activity is for any of the following purposes:

1. Research or education.
2. Prevention, control or eradication of an invasive species.
3. A purpose that is prescribed by regulation.

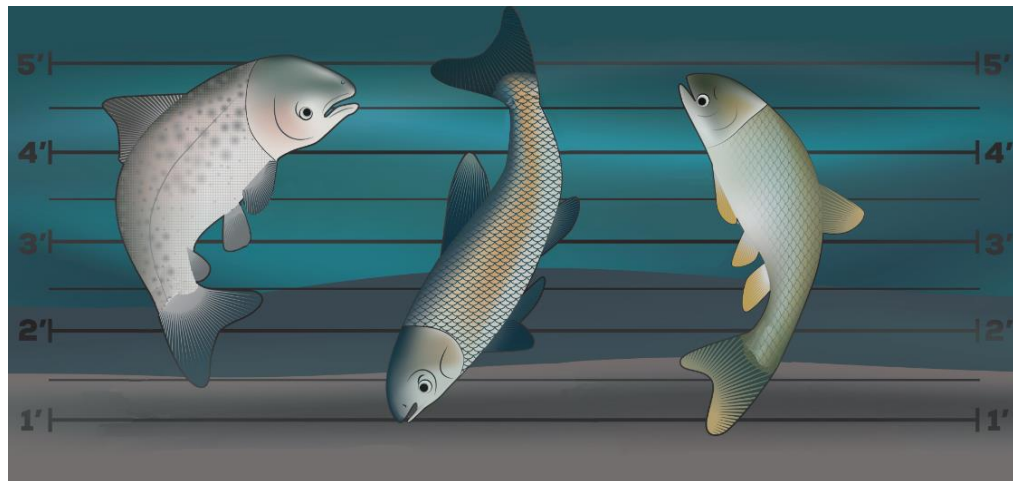
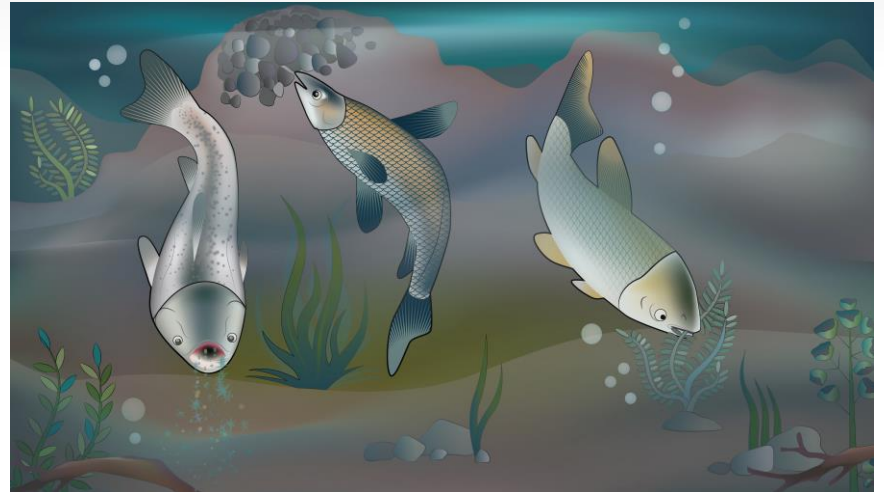


Hurdle #3

Winter



Messaging Coordination



Hurdle #4

Toronto Zoo Strike



Hurdle #5

Zoo Lead Retires



Hurdle #6

Permit Expiration and Renewal



Fish!



Hurdle #7

Shipping of Grass and Black Carps



Plan for the Future

