



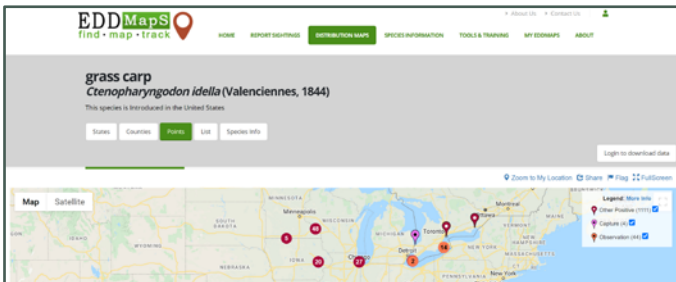
MONITORING ASIAN CARP

EDDmapS uses citizen science to identify, report, and track invasive species across North America. Grass carp are one species of Asian carp that pose the most immediate threat to the Great Lakes. Let's see what we can learn about them using the *EDDmapS* website!

Activity 1: Scavenger Hunt!



Go to: www.eddmaps.org and click on the DISTRIBUTION MAPS button at the top of the page. Scroll down to the 'Search: Search Species Name' textbox (on the right side of the page) and type in *grass carp*. Click on the text that says **grass carp** underneath the 'Subject Name' heading.



Now, we can see the map of all grass carp that have been reported across North America! Clicking on a single pin on the map will bring up the information about that report.

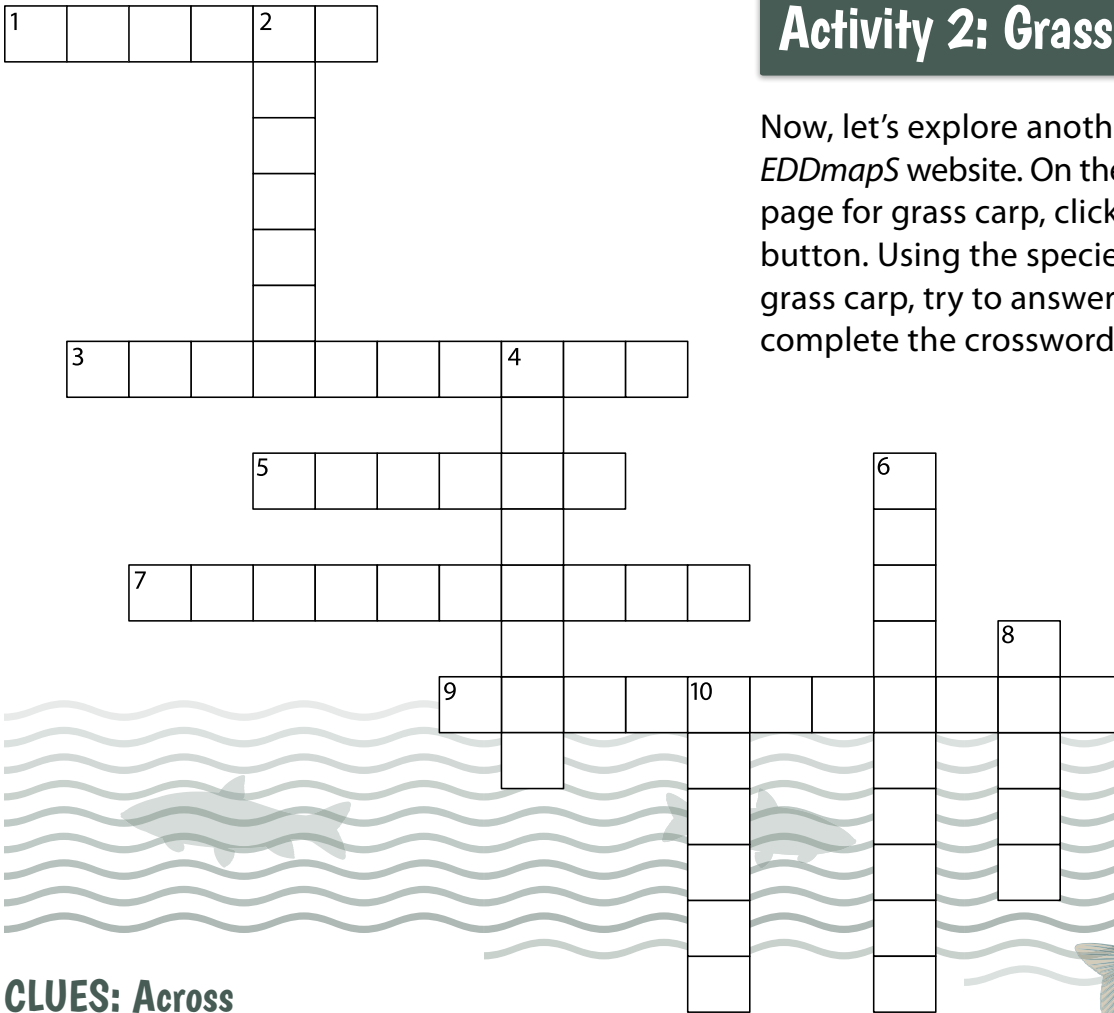
Using this map, try to answer some of the questions below:

1. What is the farthest west observation of a grass carp? List the record ID: _____
2. What year was it when five grass carp were reported around the Toronto Islands and Tommy Thompson Park? _____
3. There is one observation (*orange pin*) reported to the north-east of Toronto, close to Belleville. Who reported this observation? _____
4. There is one capture (*purple pin*) reported to the west of Toronto, close to Sarnia. What year was this grass carp captured? _____

ANSWERS: 1. 3194782 2. 2015 3. Allison Morris 4. 2017

Activity 2: Grass Carp Crossword

Now, let's explore another feature of the *EDDmapS* website. On the DISTRIBUTION MAPS page for grass carp, click on the **Species Info** button. Using the species information about grass carp, try to answer the clues below and complete the crossword!



CLUES: Across

1. Grass carp have been recorded in a total of 45 _____.
3. Grass carp larvae migrate into lakes and as juveniles, they migrate up or _____.
5. Feeding behaviour of grass carp may promote algal blooms, reduce water quality, and lower dissolved _____ levels in the water.
7. Grass carp were intentionally stocked for _____ management.
9. During floods, grass carp escaped from aquaculture ponds into the _____ river watersheds.

CLUES: Down

2. Grass carp are native to _____ Asia, from southern Russia to northern Vietnam.
4. _____ barriers can be installed to prevent the spread of grass carp.
6. Possession of live grass carp was _____ in Ontario in 2005.
8. Adult grass carp _____ in fast-moving rivers at temperatures 68–86 degrees F.
10. The scientific name for grass carp is: *Ctenopharyngodon* _____.

ANSWERS: Across: 1. States 3. Downstream 5. Oxygen 7. Vegetation 9. Mississippi 10. Spawn Down: 2. Eastern 4. Electric 6. Prohibited 8. Spawn 10. Idella