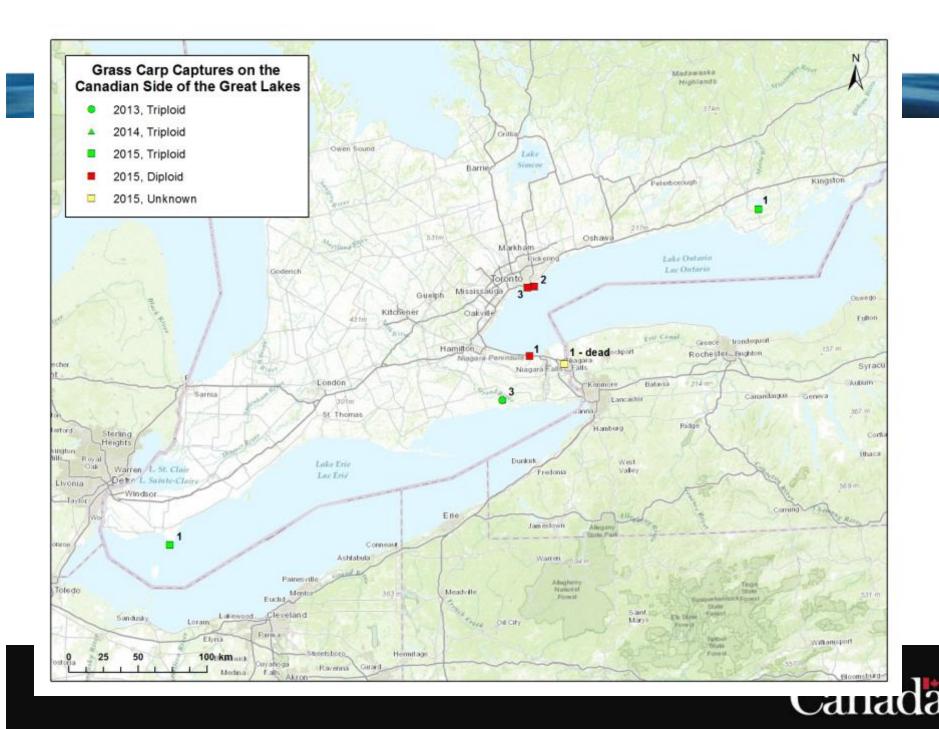
Canadian Grass Carp Update

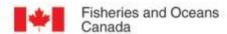




The 2015 Tally

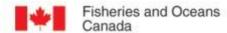
- Diploids first ever recorded in Canada
 - 6 (5 males, 1 female)
- Triploids 2 females
- Unknown 1 (found dead)
- > 9 individuals in lakes Erie and Ontario





Toronto Capture Locations





Tommy Thompson Park

October 2014



May 2015





Incident Command System

- DFO/MNRF co-lead under AC protocol
- Incident Commander, Chiefs, Officers, Field Teams...
- Example for July Grass Carp:
 - 3 agency participation
 - Maximum of 7 boats and up to 20 staff onsite per day
 - Over 550 man hours of <u>onsite</u> activity conducted
 - ~19 hours of electrofishing; over 10km of trammel net deployed; 14 trap net sets; 11 fyke net sets
 - Significant public interest Invading Species Hotline (28 reports)
 - Significant media coverage







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Lessons Learned

- Immediate knowledge of what to do
- Preparation is important found real life small incidents more useful than table top
- Getting people to understand ICS reporting structure, not usual lines of briefing
- Can't plan for everything must be flexible and move immediately into short-term Plan B, C, D.... And think about long-term corrections later
- Important to hold a "hotwash"

Current Status

- Results from analyses coming in pieces over time
- Will take several months before all pieces are in to see big picture.
- Hope for some conclusive evidence to eliminate some hypotheses.









Grass Carp Risk Assessment

- Draft completed and peer reviewed (Canada)
- Include information only up to 2014 (ra's baseline year)
- Currently in US federal review
- Plan to hold a meeting of management agencies (federal, state, provincial) to discuss results. Jan-Mar 2016?



Blac

Postponing at and....



nent

Carp delay



Tommy Thompson Park, Toronto ON July 27, 2015

- Toronto & Region Conservation Authority, efish
- Weight: 14.7kg
- Total length: 1020mm
- Diploid male (no evidence of spawning behaviour or activity)
- 14 years (pectoral spine aging)



Tommy Thompson Park, Toronto ON July 28, 2015

- DFO, trammel net
- Weight: 10.2kg
- Total length: 970mm
- Diploid male (no evidence of spawning behaviour or activity)
- 15 years (pectoral spine aging)



Jordan Harbour, St. Catharine's ON August 26, 2015

- DFO; trammel net
- Weight: 16.68kg
- Total length: 1048mm
- Diploid male



Toronto Islands, Toronto ON September 1, 2015

- Toronto & Region
 Conservation Authority; efish
- Weight: 10.640kg
- Total length: 910mm
- Diploid male inactive gonads





Toronto Islands, Toronto ON September 1, 2015

- Toronto & Region Conservation Authority; efish
- Weight: 16.556kg
- Total length: 1018mm
- Diploid female eggs were noted to be green – indicated she did not spawn and was in the process of reabsorption of eggs back into body





Toronto Islands, Toronto ON September 2, 2015

- DFO; efish
- Weight: 9.096kg
- Total length: 893mm
- Diploid male (no evidence of spawning behaviour or activity)





Bay of Quinte, near Big Island ON September 14, 2015

- Commercial fisher; trap net
- Weight: 12.7kg
- Total length: 1037mm
- Triploid female



Lake Erie, West Side of Point Pelee September 17, 2015

- Commercial fisher; trap net
- Weight: 10.614kg
- Total Length: 976mm
- Triploid female



Lower Niagara River September 19, 2015

- Angler; found dead on bank
- Weight: 8.1kg
- Total length: 950mm*



*approximate measure because fish frozen in a curve

