Invasive Species Order
Michigan Commission of Agriculture and Rural Development

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Context

- Aquatic Invasive Species (AIS) Threat
- Part 413 requirements for listing AIS
- Governor’s “Least Wanted Species” list
- Additional considerations
Aquatic Invasive Species

A species that is not native and whose introduction causes or is likely to cause harm:

- Economic
- Environmental
- Human health
 Costs of management and control of AIS

$20M/year

$25M/year

$10M/year

Total = over $2.5 billion over 20 years
What are we doing?

• AIS State Management Plan
• QOL AIS Core Team
• Focus:
  ➢ Prevention
  ➢ Early Detection
  ➢ Control/Eradication

*Terrestrial invasive species Team recently formed
Prevention - Process

• List species as Prohibited or Restricted under Part 413 of NREPA
  – Species must meet certain criteria
  – Commission of Agriculture & Rural Development has authority for plants and insects
  – DNR has authority for all other organisms
  – To list a species: consultation between DNR and Commission of Ag. & Rural Dev.
Regional Commitment

2013 Council of Great Lakes Governors & Premiers

• AIS Task Force
• Agreed to a “least wanted species” list

Agreement
• Prevent intro and spread of AIS
• Foster mutual aid for responses
• Prohibit 16 species across GLs Basins
### Least Wanted List

<table>
<thead>
<tr>
<th>Fish</th>
<th>Aquatic invertebrates</th>
<th>Plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Bighead carp*</td>
<td>• Killer shrimp</td>
<td>• Hydrilla*</td>
</tr>
<tr>
<td>• Silver carp*</td>
<td>• Yabby (crayfish)</td>
<td>• Brazilian elodea*</td>
</tr>
<tr>
<td>• Grass carp*</td>
<td>• Golden mussel</td>
<td>• Water soldier</td>
</tr>
<tr>
<td>• Black carp*</td>
<td></td>
<td>• European water chestnut*</td>
</tr>
<tr>
<td>• Northern snakehead*</td>
<td></td>
<td>• Parrot feather*</td>
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<tr>
<td>• Stone moroko</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Zander</td>
<td></td>
<td></td>
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<tr>
<td>• Wels catfish</td>
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</tr>
</tbody>
</table>

- * denotes species is currently listed under Part 413 as Prohibited
- 7 species not currently listed
Least Wanted Species

- These 7 species are **not** currently in live trade
- All 7 species are climate matches to MI
- 6 fall under DNR authority and 1 under the Comm. of Ag. and Rural Dev.
- Governor committed to listing
Water Soldier

- Native to Europe/NW Asia
- Detected in Trent River, Ontario in 2008
- Forms dense mats
- Sharp serrated leaves that will cut through skin
Additional Consideration

Red Swamp Crayfish

• Native to Gulf Coast up Miss. River to S. Illinois

• Where is the concern:
  – Food: imported live
  – Pet shops
  – Bait purchased from markets
Red Swamp Crayfish

- Virtually impossible to eradicate
- Consulted with MI Restaurant Association
- There is a surrogate crayfish native to MI that is also raised for food export
Rusty Crayfish

- Currently Prohibited under Part 413
- Now considered widespread and naturalized
- Recommend listing as Restricted Species
  - “naturalized and widely distributed...”
Thank You!!!!