



Partnering with the DNR on boat wash stations

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Invasive species are those that are *not native* to Michigan and *cause harm* to the environment, economy, or human health.



Invasive species do not obey boundary lines!

A coordinated and collaborative approach to management will be most successful.



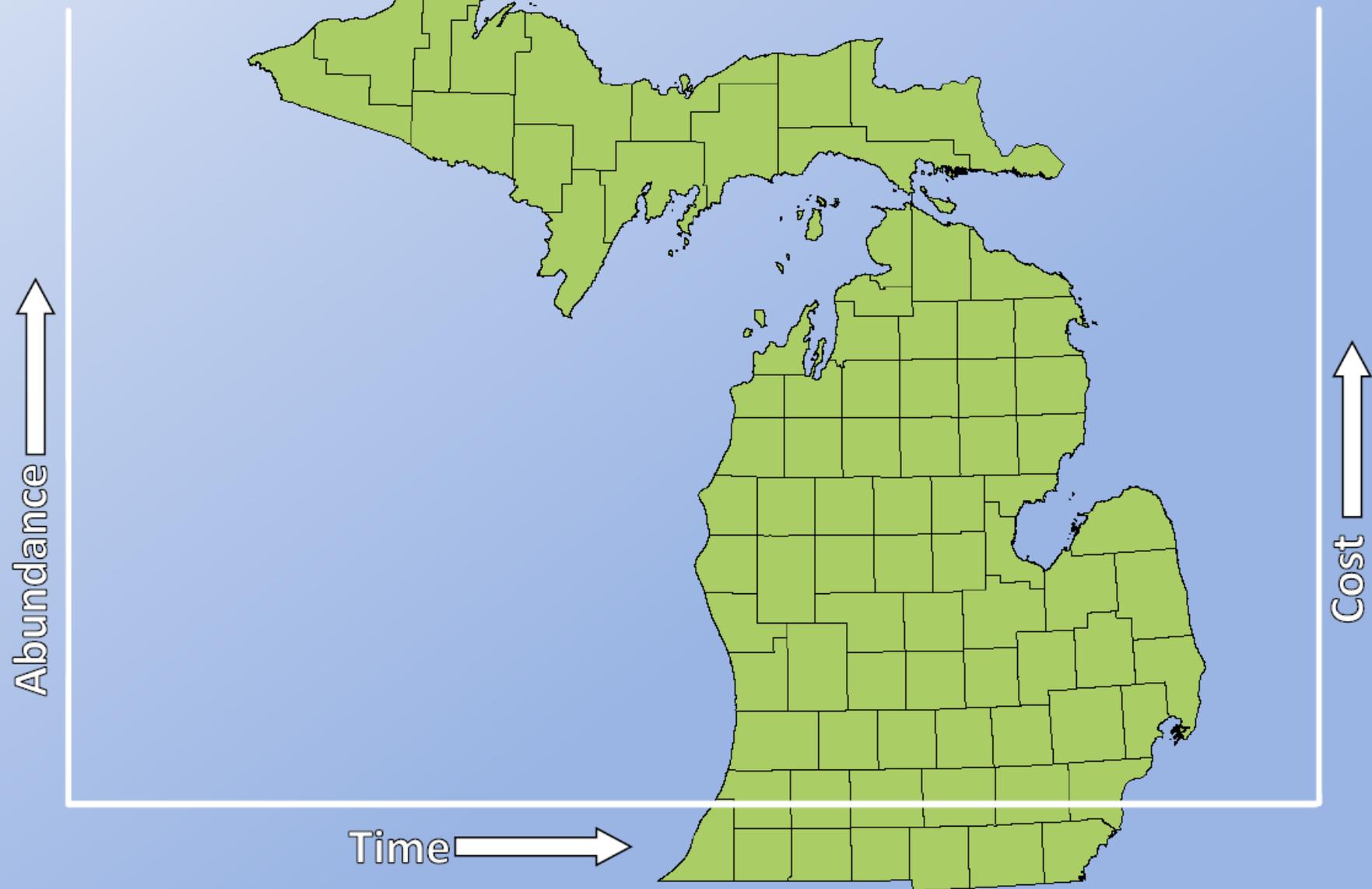
North American species invasive in Europe and Asia

- Gray squirrel
- Black locust
- American lobster
- Canada geese
- Pumpkinseed sunfish
- Louisiana crayfish
- Canadian pondweed
- Common ragweed
- Rainbow trout
- Black bullhead (catfish)
- Largemouth bass
- Common raccoon
- American mink
- North American bullfrog
- Colorado potato beetle

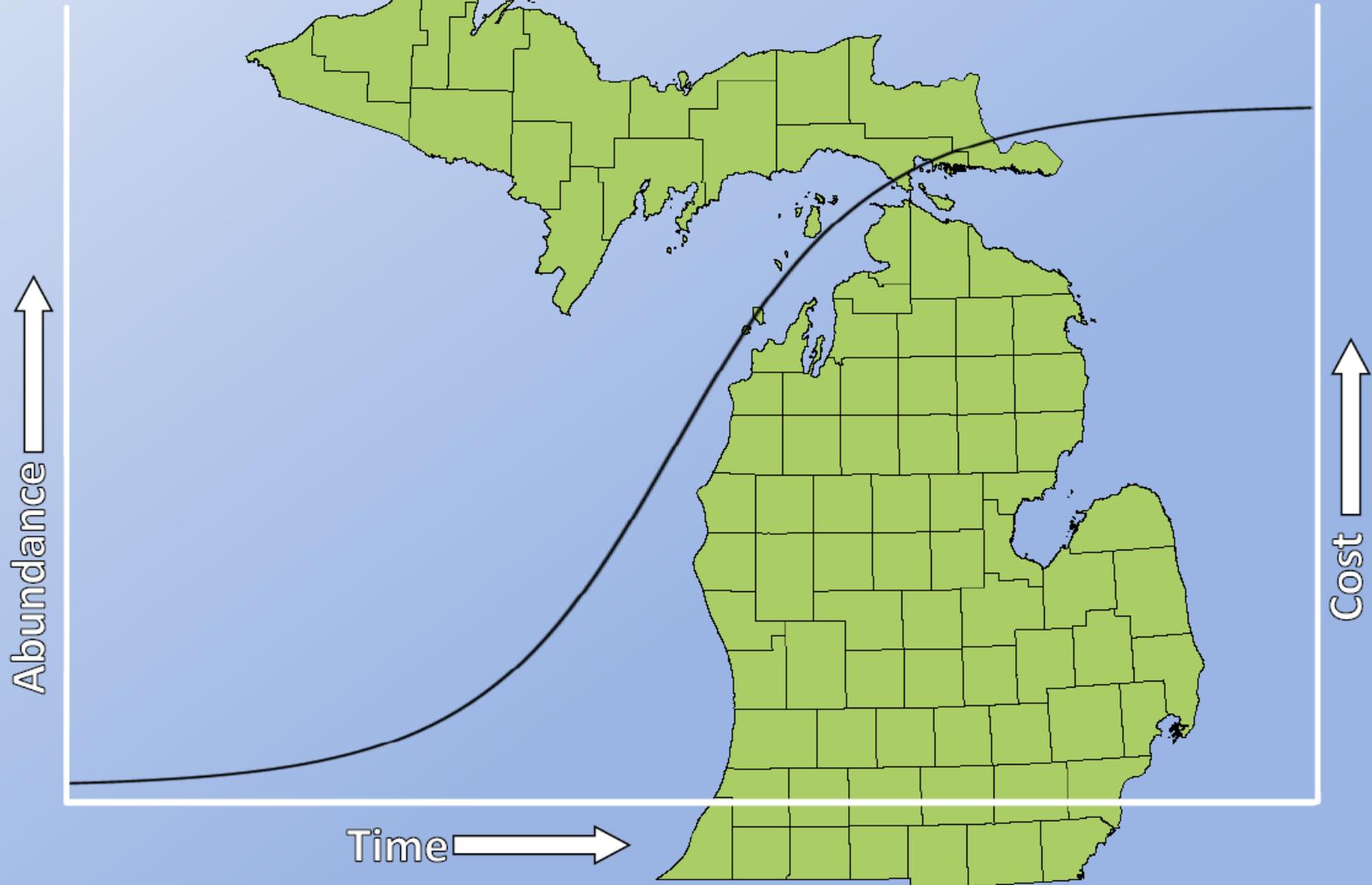


Michigan's Natural Resources

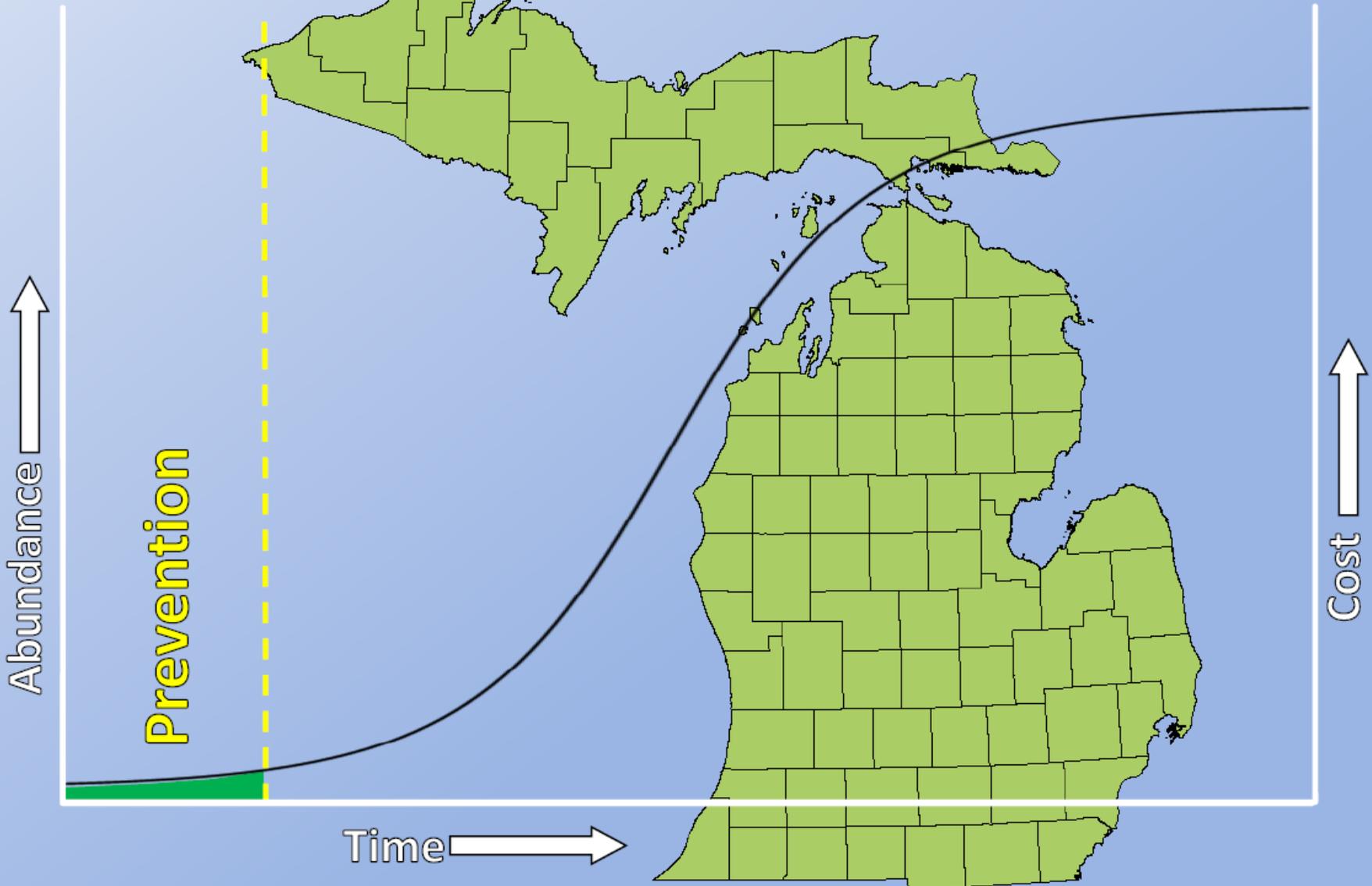
Invasion Curve



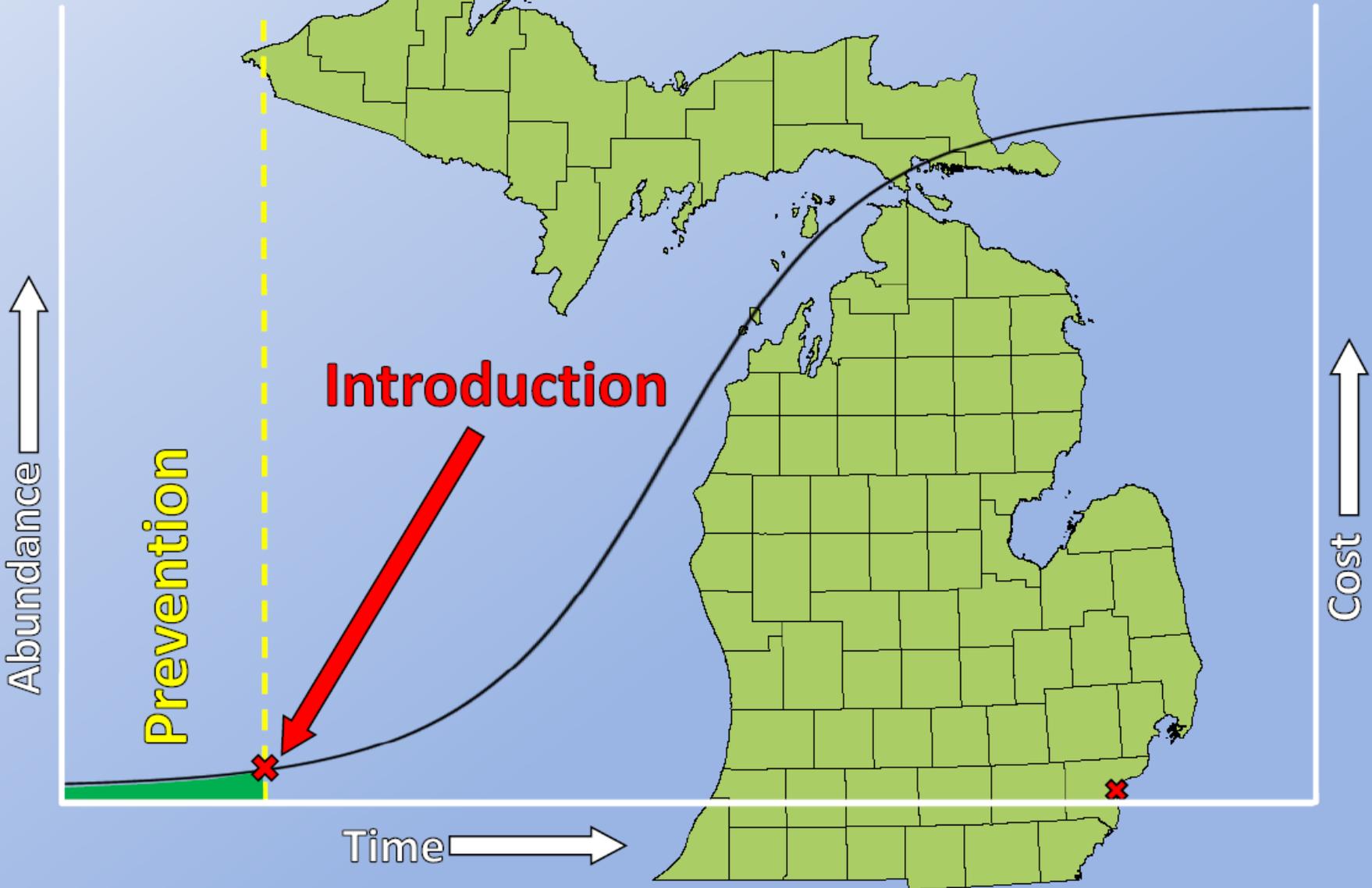
Invasion Curve



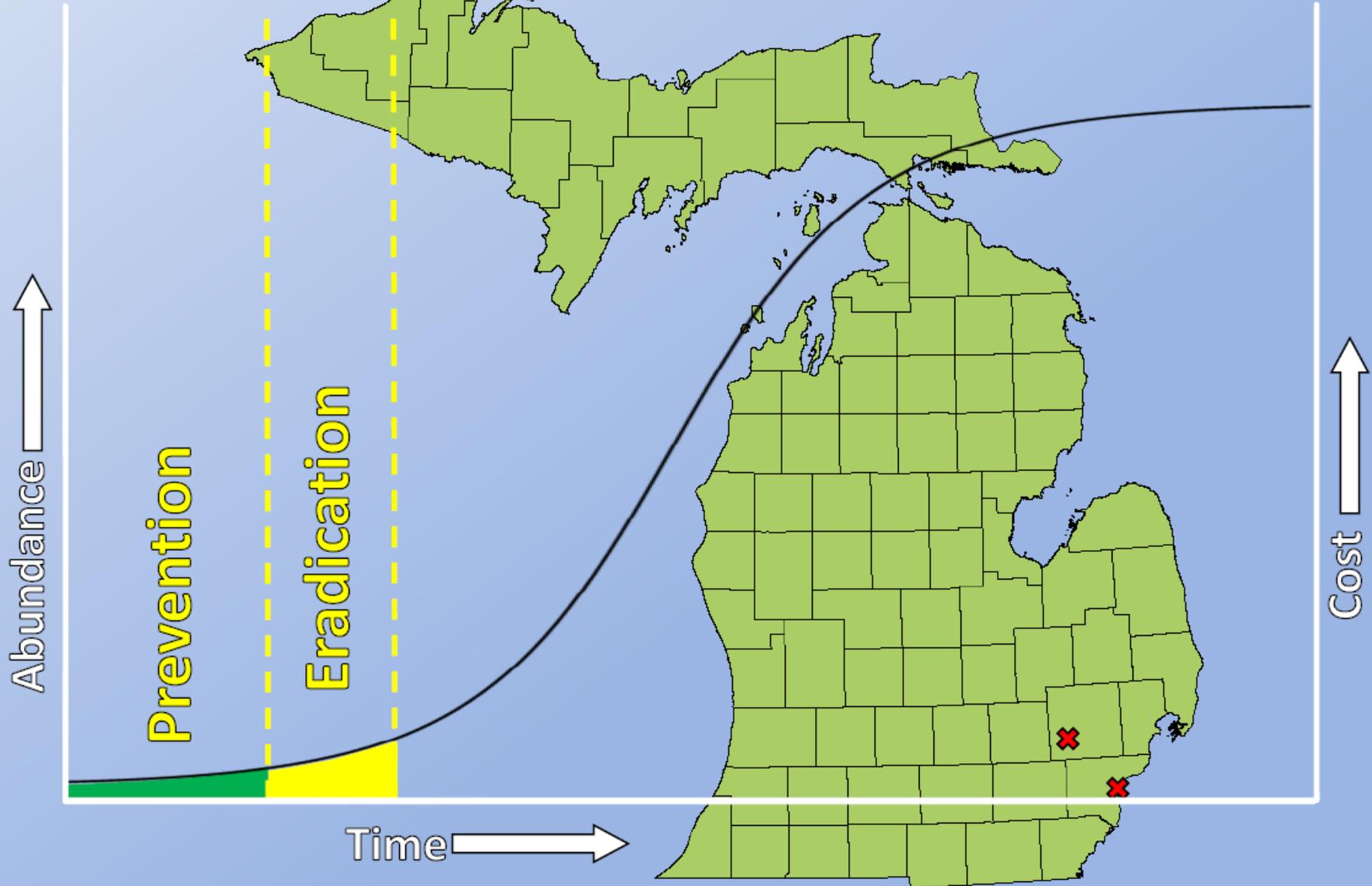
Invasion Curve



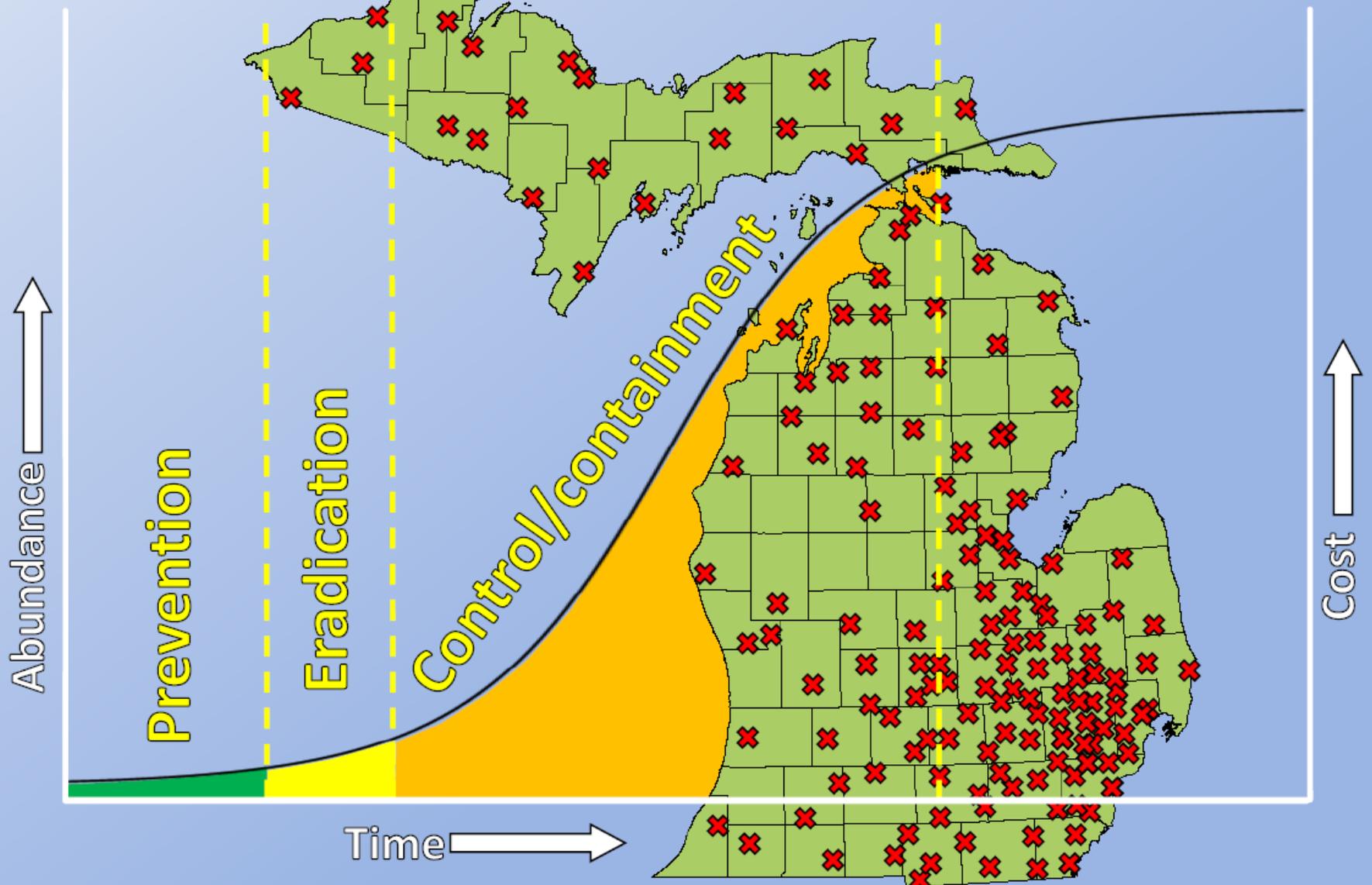
Invasion Curve



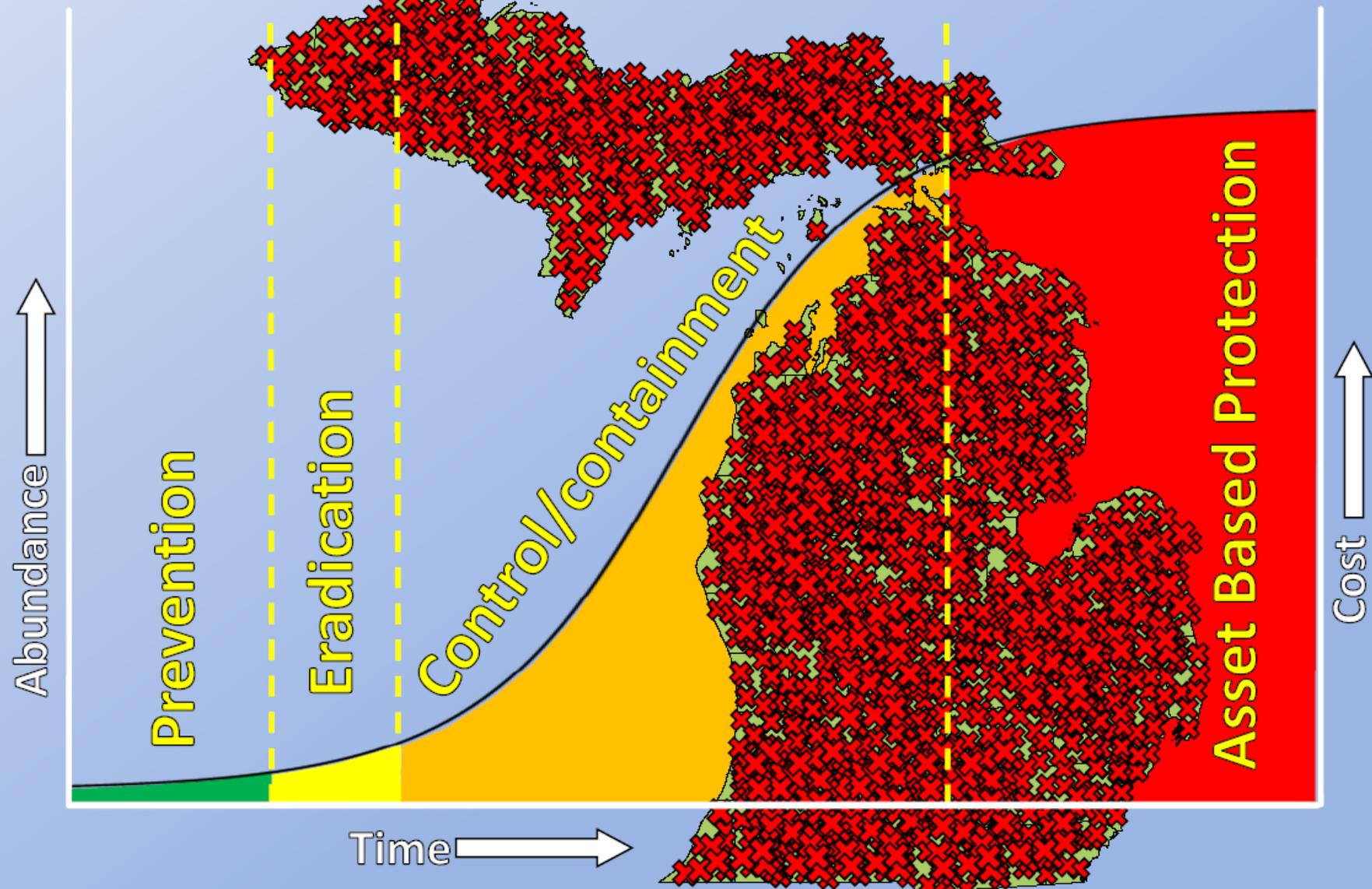
Invasion Curve



Invasion Curve



Invasion Curve



How do invasive species spread?

Wildlife movement

Shipping

Storms

Recreationalists

- ❖ Boaters and anglers
- ❖ Campers
- ❖ Hunters and trail users
- ❖ Gardeners and pond owners



BOATING PATHWAY



DNR-administered boating access sites

Signage

- Clean, Drain, Dry, Dispose
- Boating laws

Stenciling

- Reminders to boaters on pavement

Boat cleaning stations

- Permanent, CD3, signs with tools



Permanent
boat wash
stations





CD3 Stations



BOAT AND TRAILER CLEANING STATION HELP STOP INVASIVE SPECIES!

FOLLOW THESE STEPS

- ▶ **CLEAN** boats, trailers and equipment.
- ▶ **DRAIN** live wells, bilges, ballast tanks and all water by pulling drain plugs.
- ▶ **DRY** boats and equipment.
- ▶ **DISPOSE** of unwanted bait in the trash.

SEARCH THESE AREAS FOR INVASIVE SPECIES



IT'S THE LAW

- VIOLATION OF THE LAW IS A CIVIL INFRACTION. VIOLATORS MAY BE SUBJECT TO FINES.
- ▶ **DO NOT** launch or transport watercraft or trailers unless they are free of aquatic organisms, including plants.
 - ▶ **DO NOT** transport a watercraft without removing all drain plugs and draining all water from bilges, ballast tanks, and live wells.
 - ▶ **DO NOT** release unused bait into the water.

TOOLS

- ▶ Use tools to remove vegetation from boats and trailers.
- ▶ Place vegetation in the trash.
- ▶ These tools help protect our lakes. We have confidence in the honor system. Please return them.



Signage with tools

Considerations for lake associations



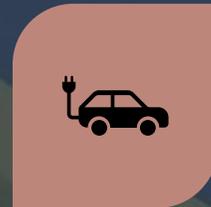
BUDGET FOR THE
PURCHASE OF THE
STATION



ANNUAL
MAINTENANCE
COSTS



WIDTH OF TRAVEL
LANES



UTILITIES –
ELECTRIC, WATER



LOCATION –
INBOUND VS
OUTBOUND



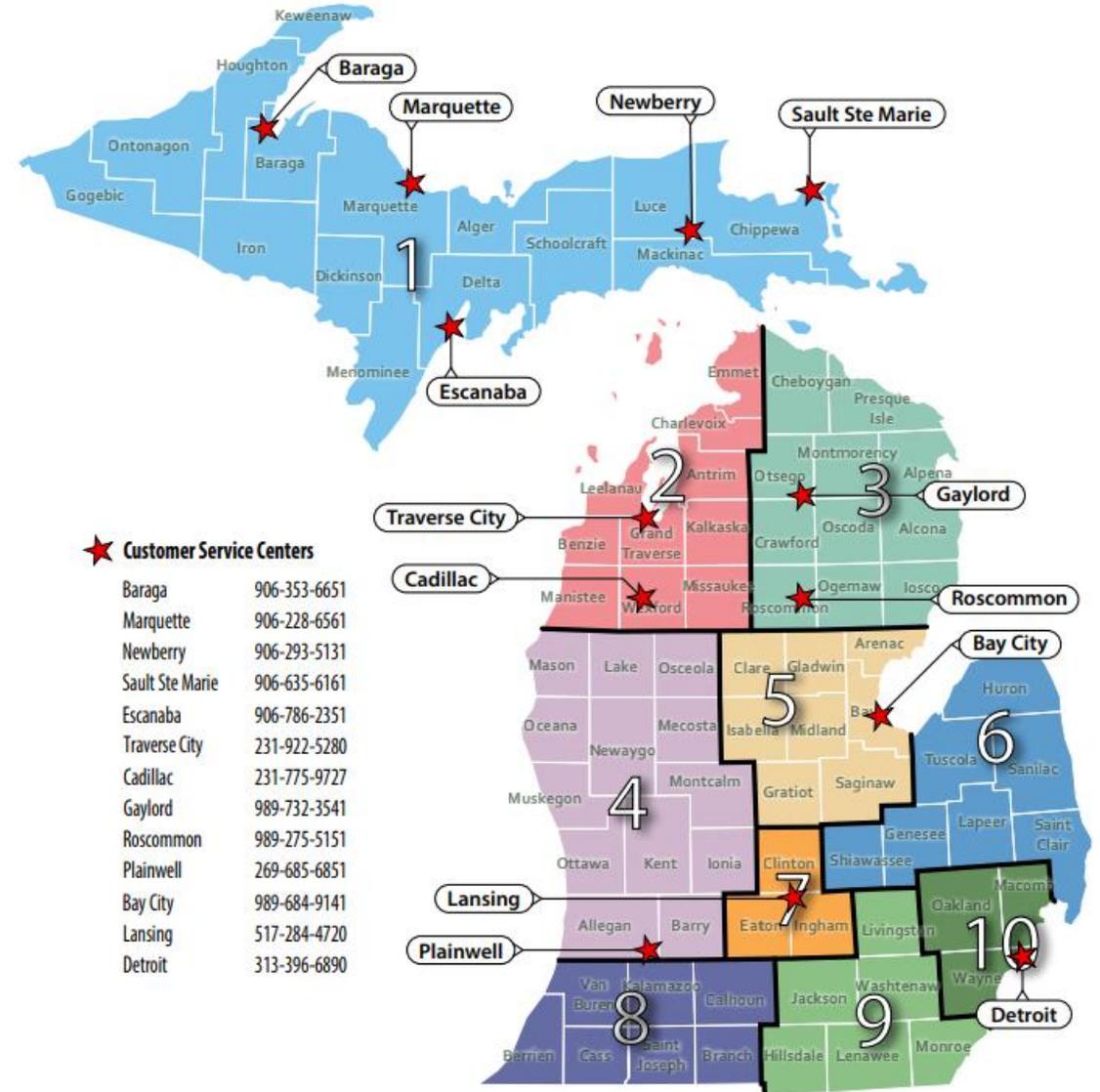
SITE USAGE –
AVERAGE # BOATS

Working with the DNR

1. Get to know the local staff
2. Local staff will give initial approval for the project
3. Lansing admin will draft up a work agreement outlining responsibilities
4. Local DNR field planners will give final approval

Keweenaw
(Isle Royale)

State of Michigan Regions & Customer Service Centers Department of Natural Resources





Case Study: Higgins Lake



Case Study: Dowagiac River

Questions?

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