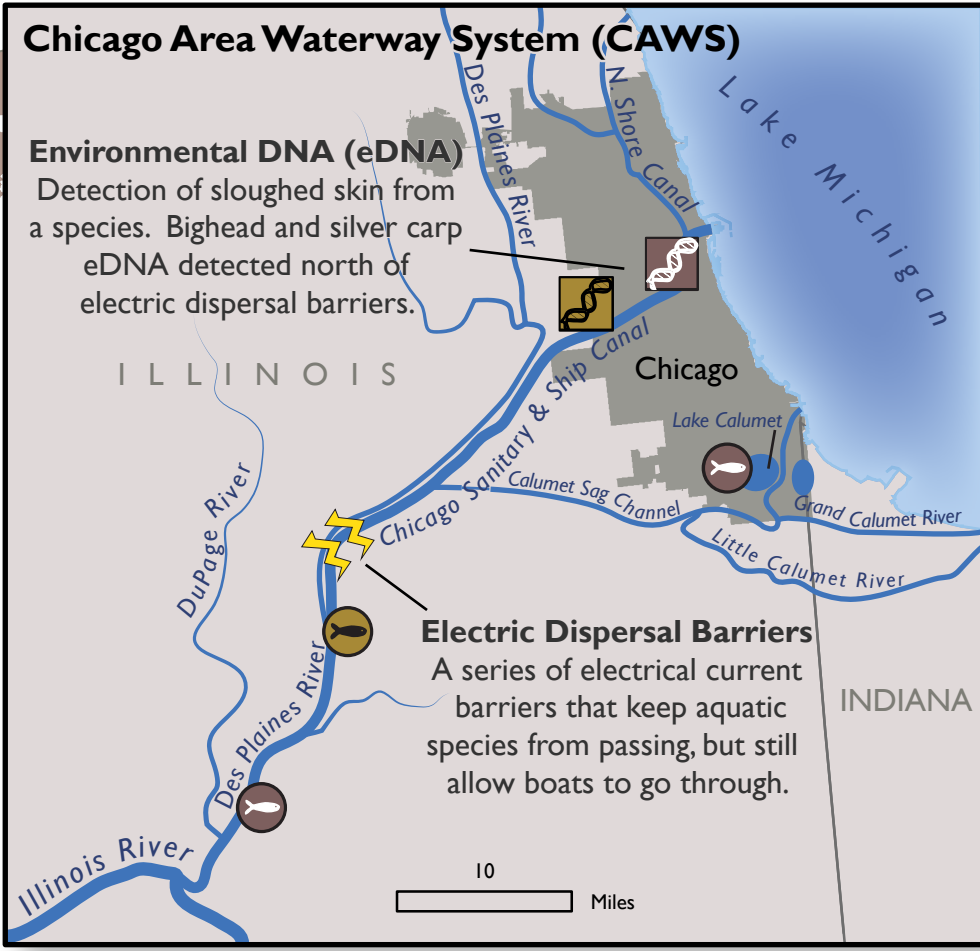
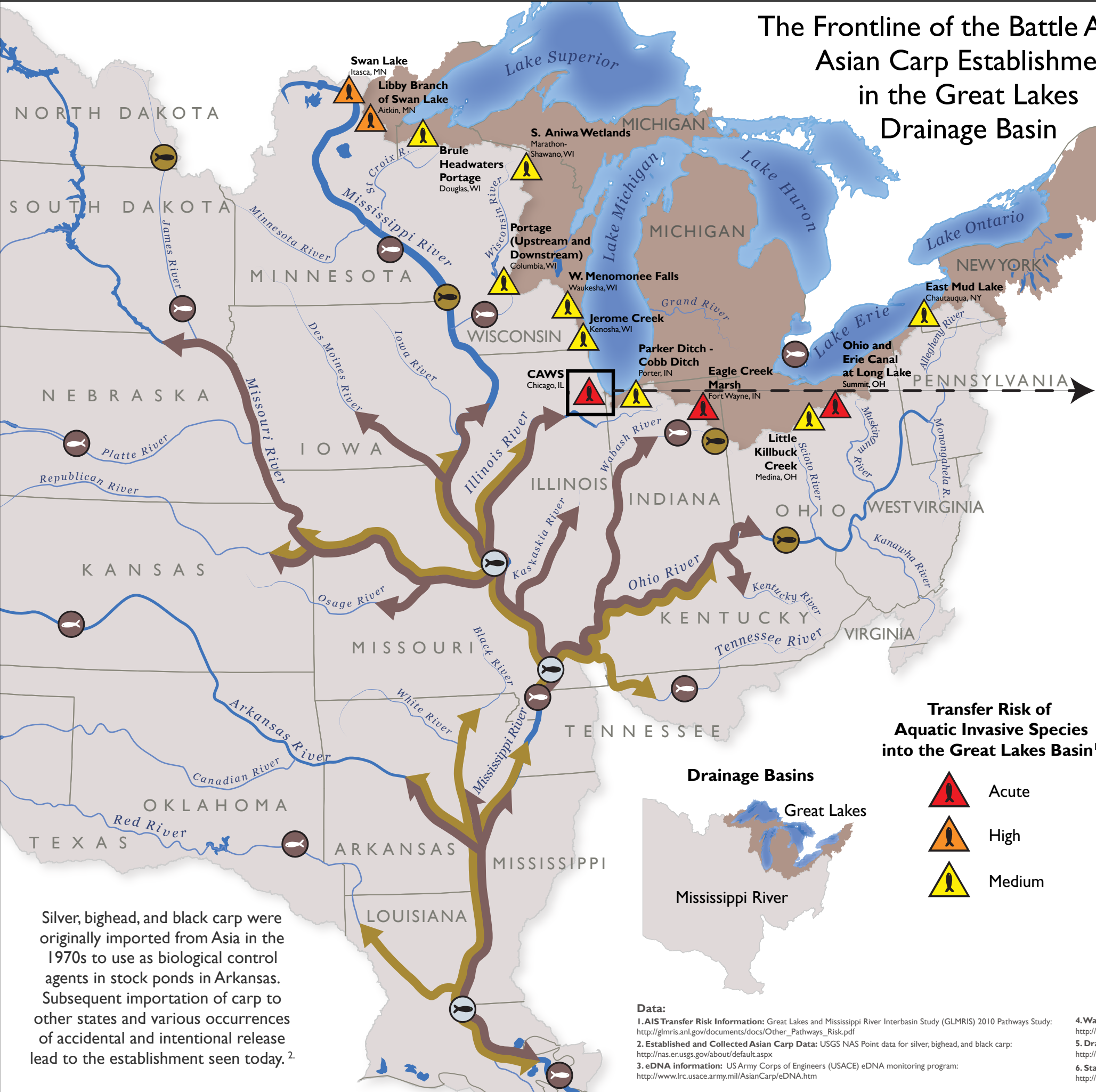









The Frontline of the Battle Against Asian Carp Establishment in the Great Lakes Drainage Basin



Silver, bighead, and black carp were originally imported from Asia in the 1970s to use as biological control agents in stock ponds in Arkansas. Subsequent importation of carp to other states and various occurrences of accidental and intentional release lead to the establishment seen today.²

Data:
1. AIS Transfer Risk Information: Great Lakes and Mississippi River Interbasin Study (GLMRIS) 2010 Pathways Study: http://glmr.is.anl.gov/documents/docs/Other_Pathways_Risk.pdf
2. Established and Collected Asian Carp Data: USGS NAS Point data for silver, bighead, and black carp: <http://nas.er.usgs.gov/about/default.aspx>
3. eDNA information: US Army Corps of Engineers (USACE) eDNA monitoring program: <http://www.lrc.usace.army.mil/AsianCarp/eDNA.htm>
4. Water Features: Natural Earth 1:10m river and lake data: <http://www.naturalearthdata.com/downloads/10m-physical-vectors/>
5. Drainage Basin Data: Modified from USGS 250K HUC shapefile: <http://water.usgs.gov/GIS/metadata/usgswrd/XML/huc250k.xml>
6. State Boundaries: US Census Bureau Tiger Line State Files 2010: <http://www.census.gov/cgi-bin/geo/shapefiles/2010/main>
7. Chicago City Boundary: City of Chicago GIS, 2010: <http://data.cityofchicago.org/Facilities-Geographic-Boundaries/Boundaries-City/q38j-zgre>
Projection: US Contiguous Albers Equal Area Conic
Map by: Erin Hamilton, 2011

Asian Carp			
	Bighead Carp	Silver Carp	Black Carp
Positive eDNA ³			None Detected
Recorded Capture ^{2,*}			
Established Population ^{2,*}			Not Established

*Only the accurate category of USGS NAS point data was used to determine these locations. Established population refers to a known reproducing population occurring in these areas. Recorded capture refers to one or more captures of a species, but no known establishment.

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