

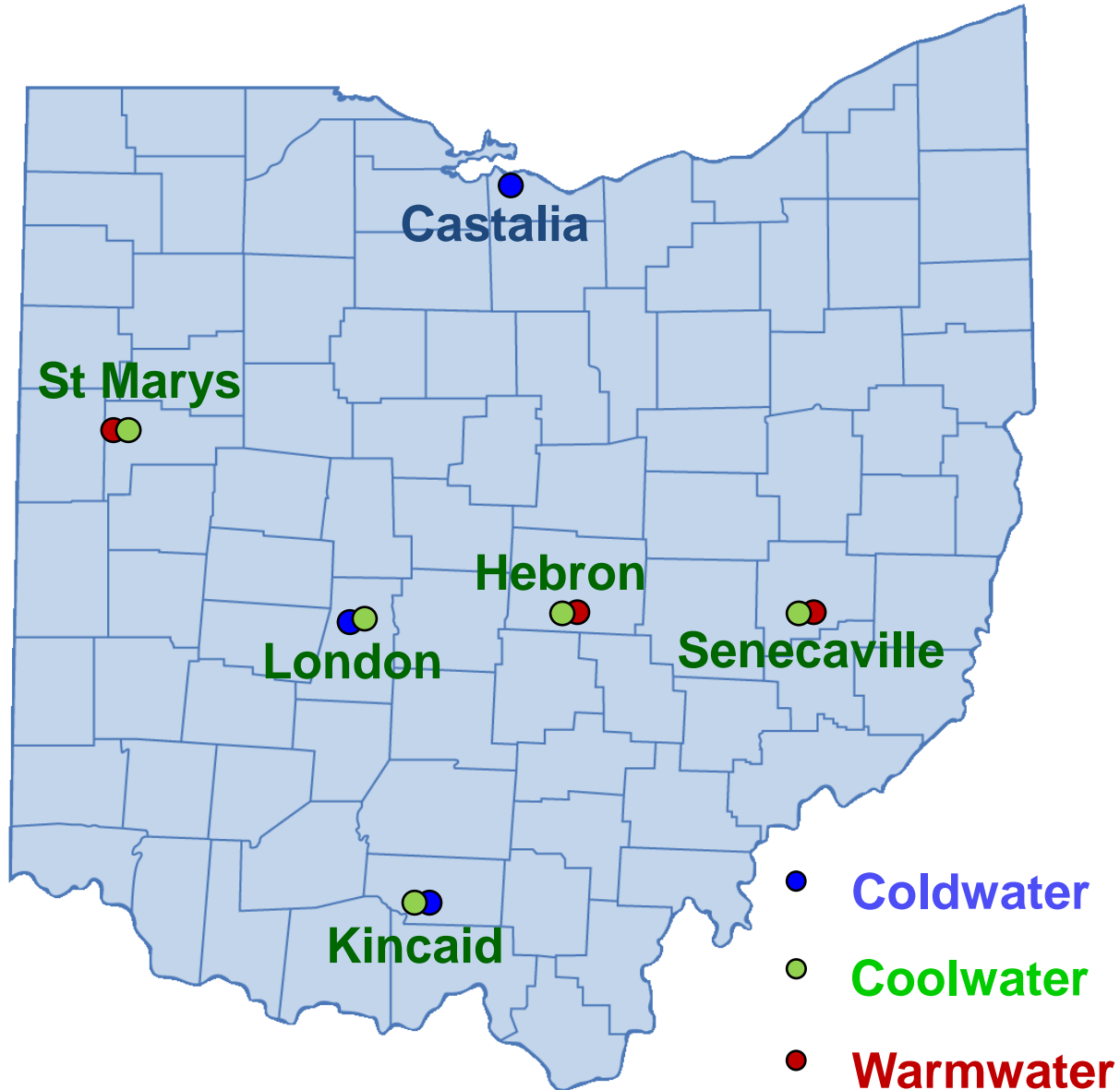


Ohio Fish Hatchery Program - Aquaculture & AIS Monitoring and Management

Chris French
Fish Hatchery Program Administrator



State Fish Hatcheries



Stocked Species

Coldwater



Rainbow Trout

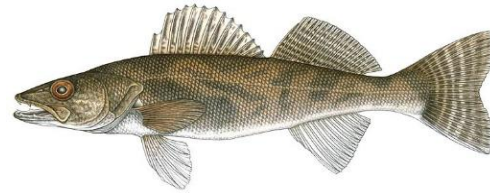


Brown Trout

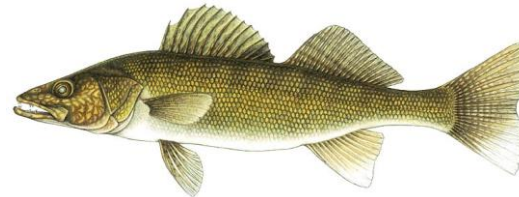


Steelhead Trout

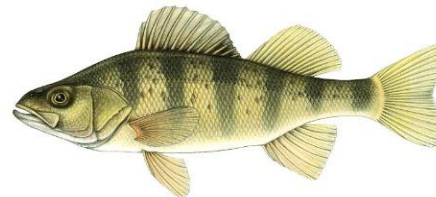
Coolwater



Saugeye



Walleye

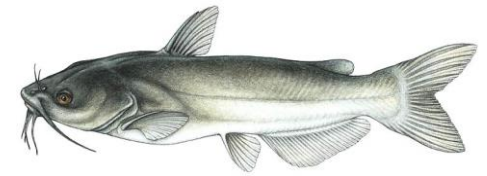


Yellow Perch

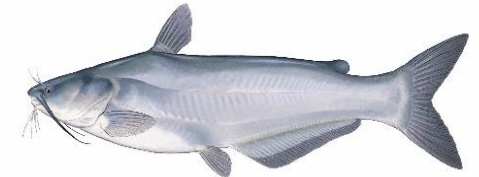


Muskellunge

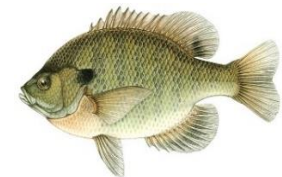
Warmwater



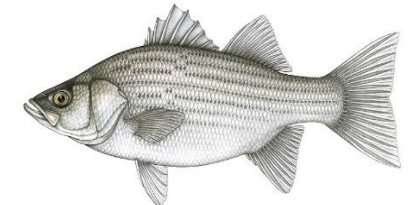
Channel Catfish



Blue Catfish



Bluegill



Hybrid Striped Bass

AIS of Concern

Plants



Hydrilla



Curly-leaf Pondweed



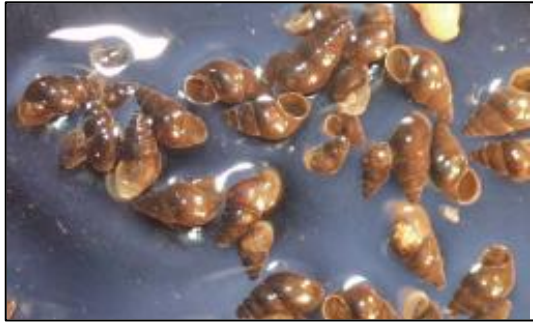
Yellow Iris



Purple Loosestrife

AIS of Concern

Invertebrates



New Zealand Mudsnail



Rusty Crayfish



Spiny Waterflea



Zebra Mussel

Lake Erie, Ohio River, Alum Creek Lake (Delaware Co.) Alum Creek (Downstream of Lake in Delaware, Franklin Co.) Delaware Lake (Delaware Co.) Hoover Reservoir (Delaware, Franklin Co.) Hargus Lake (Pickaway Co.) Circleville Quarries (North of Circleville Pickaway Co.) Long Lake (Fairfield Co.) Big Walnut Creek (Franklin, Pickaway Co.) Scioto River (Pickaway Co.) Indian Lake (Logan Co.) Killdeer Plains WA Reservoir (Wyandot Co.) Tymochtee Creek (Downstream of Killdeer Res. Wyandot Co.) New London Reservoir (Huron Co.) Outhwaite Reservoir (Bucyrus Res. #4 Crawford Co.) White Star Quarries (Sandusky Co.) Portage Quarry (Portage Co.) Gilboa Quarry (Putnam Co.) Maumee River (Henry, Wood, Lucas Co.) Auglaize River (Defiance Co.) Clear Fork Reservoir (Richland/Morrow Co.) Pickerel Creek Wildlife Area (Sandusky Co.) Norwalk #3 (Huron Co.) Sandusky River (Sandusky Co.) Pleasant Hill Reservoir (Richland/Ashland Co.) Findlay Reservoir #1 (Hancock Co.) Findlay Reservoir #2 (Hancock Co.) Willard Reservoir (Huron Co.) Wauseon Reservoir #1 (Fulton Co.) Wauseon Reservoir #2 (Fulton Co.) Mosquito Creek Lake (Trumbull Co.) Berlin Reservoir (Stark, Mahoning, Portage Co.) West Branch Reservoir (Portage Co.) Wellington Upground Reservoir (Lorain Co.) Hinckley Lake (Medina Co.) Wallace Lake (Cuyahoga Co.) Shadow Lake (Cuyahoga Co.) Springfield Lake (Co.) Pleasant Hill Lake (Richland Co.) Lake Milton (Mahoning Co.) East Reservoir (Summit Co.) Long Lake (Summit Co.) North Reservoir (Summit Co.) Turkeyfoot Lake (Summit Co.) West Reservoir (Summit Co.) Grand River (Lake Co.) Chagrin River (Lake Co.) Rocky River (Cuyahoga Co.) Clendening Lake (Harrison Co.) Nimisila Lake (Summit Co.) Roosevelt Lake (Scioto Co.) Turkey Creek Lake (Scioto Co.) Lower Hocking River (Athens Co.) Muskingum River (Washington Co.) Piedmont Lake (Belmont Co.) **Seneca Lake (Noble Co.)** Plum Run Quarry (Adams Co.) Caesar Creek Lake (Warren Co.) Little Miami River @ RM 13.0 (Clermont, Hamilton)

AIS of Concern

Fish



Gambusia



Carp



Goldfish



Green Sunfish

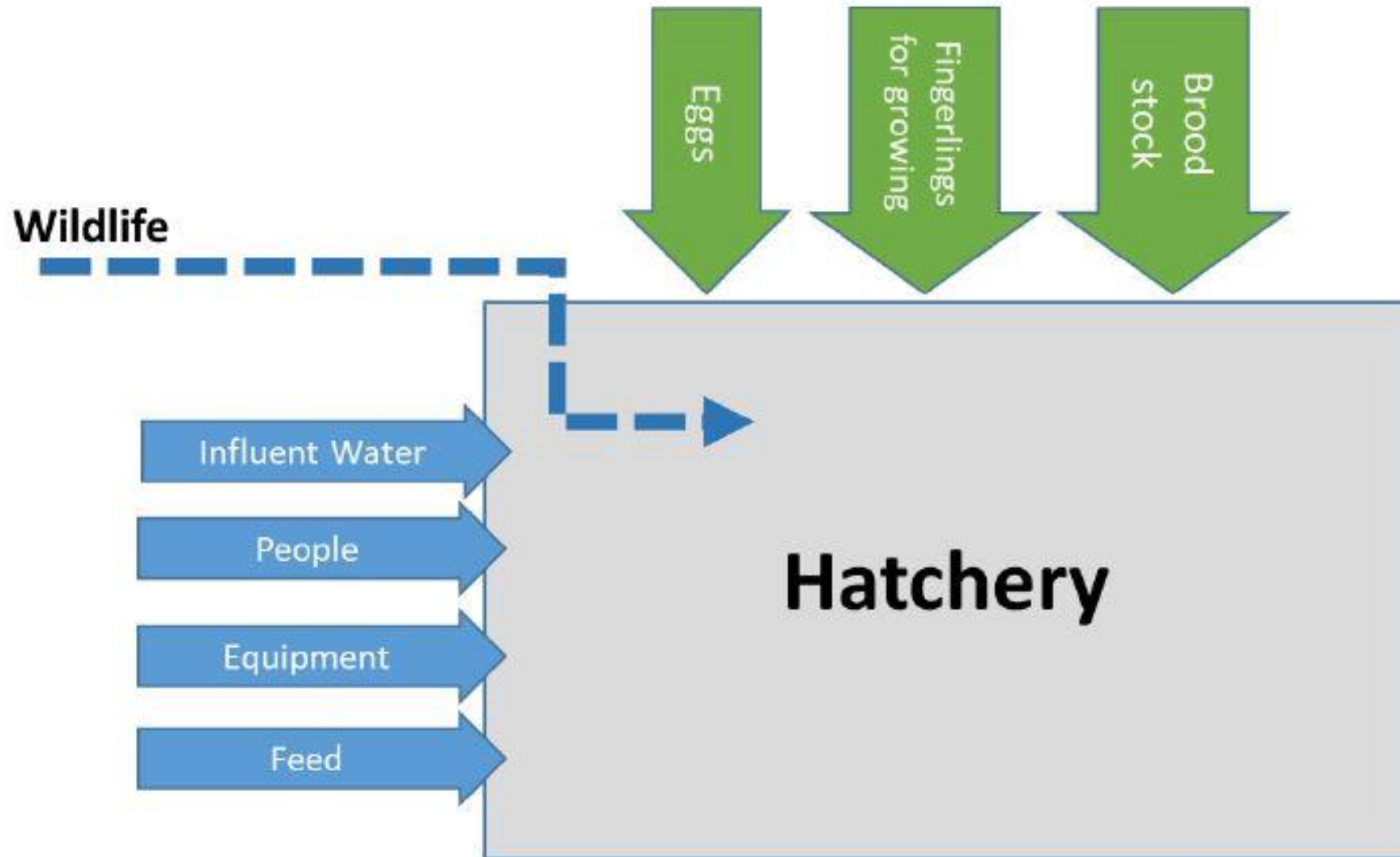
Fish Pathogens

VHS ALERT

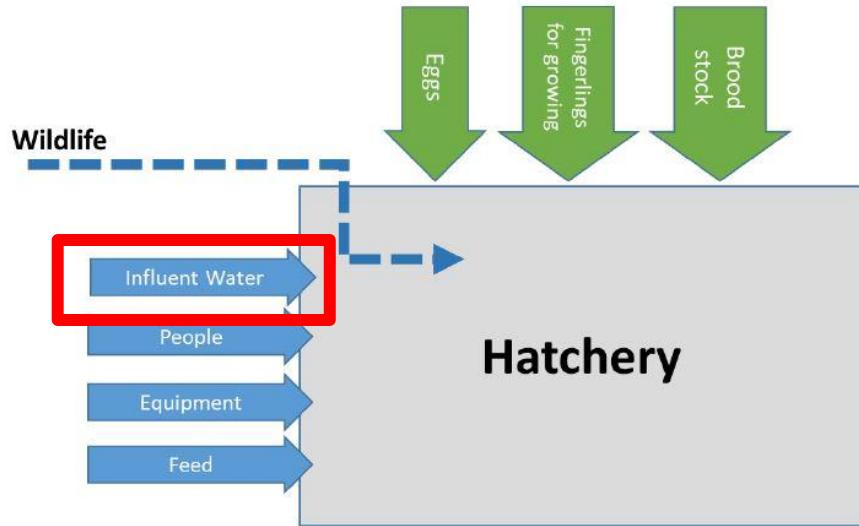


Gill Lice

Entry Pathways

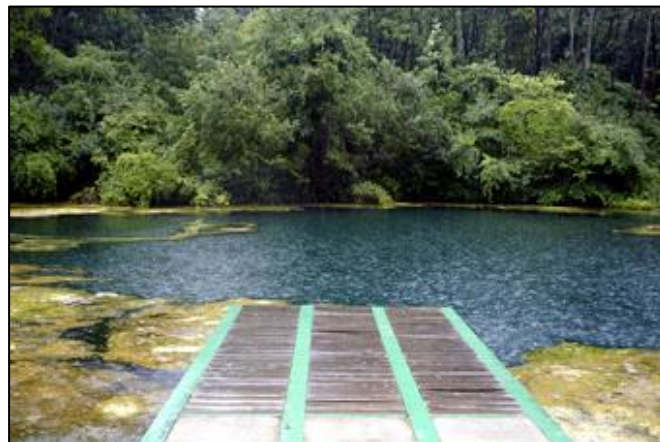


Entry Pathways

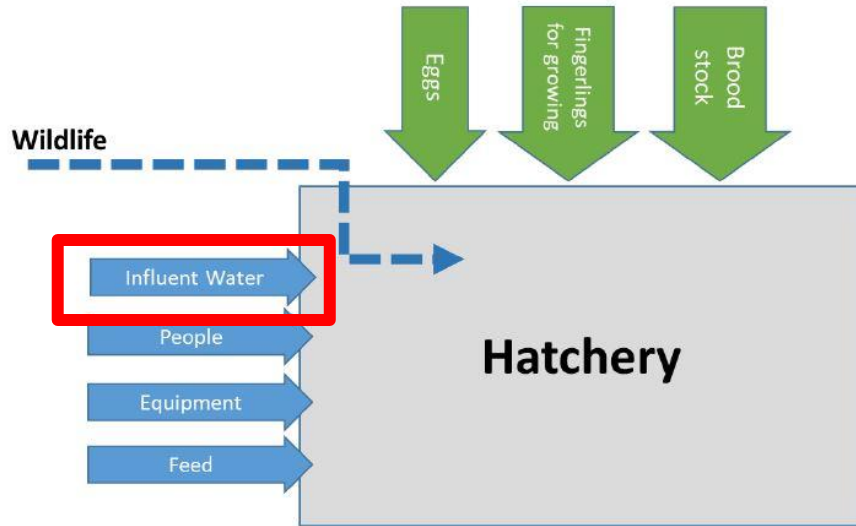


Water Source

- Well Water
- Spring Fed
- Surface Water



Entry Pathways

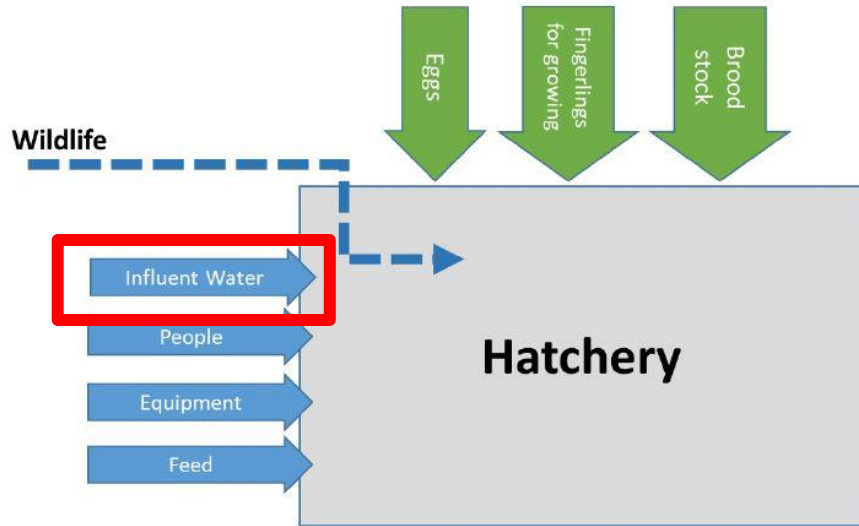


Water Source

- Well Water
- Spring Fed
- Surface Water
 - Hebron Hatchery - Buckeye Lake

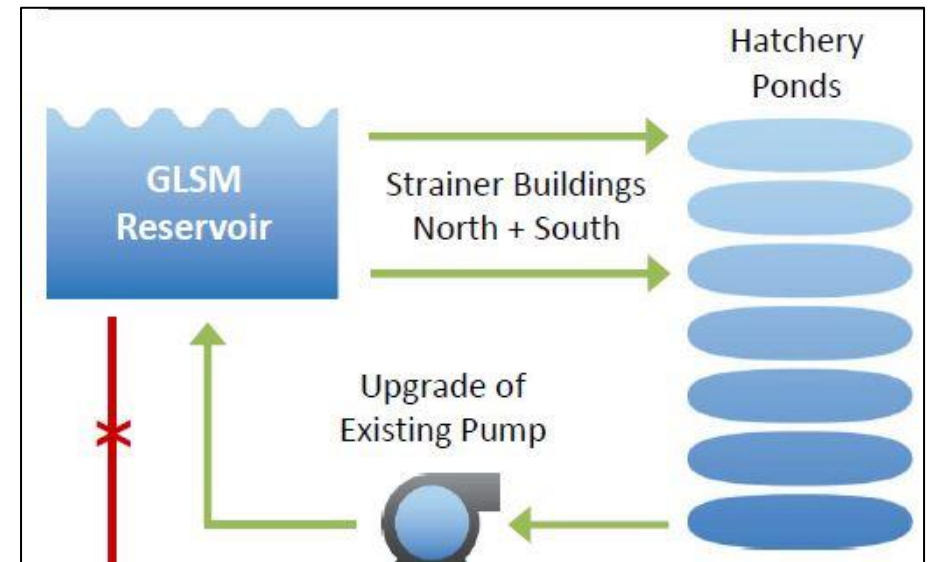


Entry Pathways

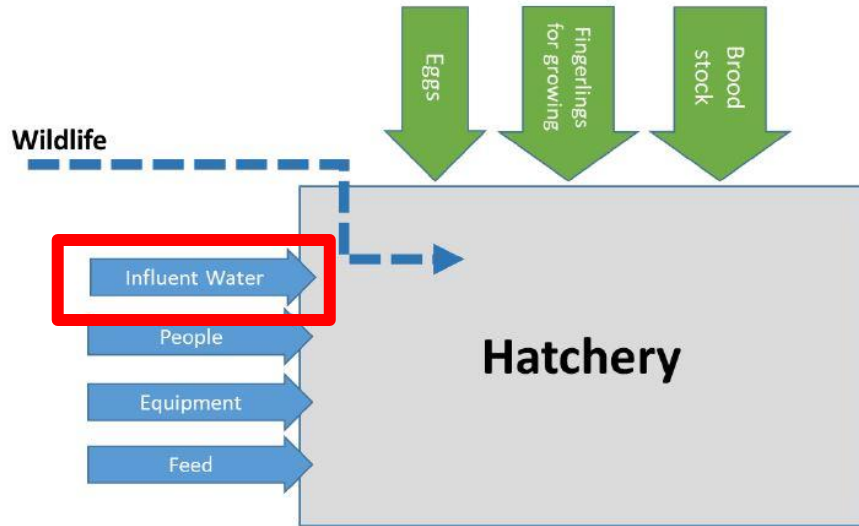


Water Source

- Well Water
- Spring Fed
- Surface Water
 - St. Marys Hatchery – Grand Lake St. Marys



Entry Pathways



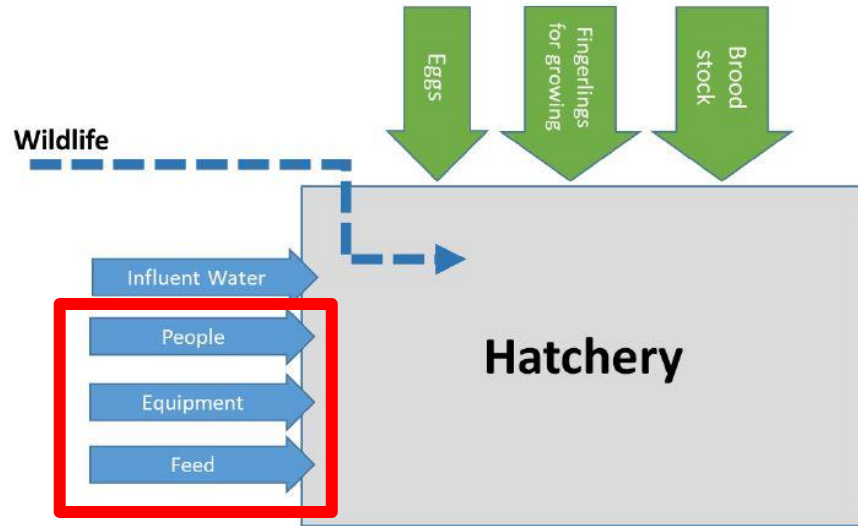
Water Source

- Well Water
- Spring Fed
- Surface Water
 - Senecaville Hatchery – Seneca Lake



- Stock in other Zebra Mussel positive waterbodies
- Treat before stocking via Edwards Protocol
 - Fish sit in potassium chloride solution for 1h
 - Add formalin and sit for additional 2h

Entry Pathways



People, Equipment, Feed

People

- Keep people out – set visitation hours, staff on site, indoor production
- Keep people informed – signage, guided tours, information sheets
- Keep people disinfected – hand sanitizer, foot baths

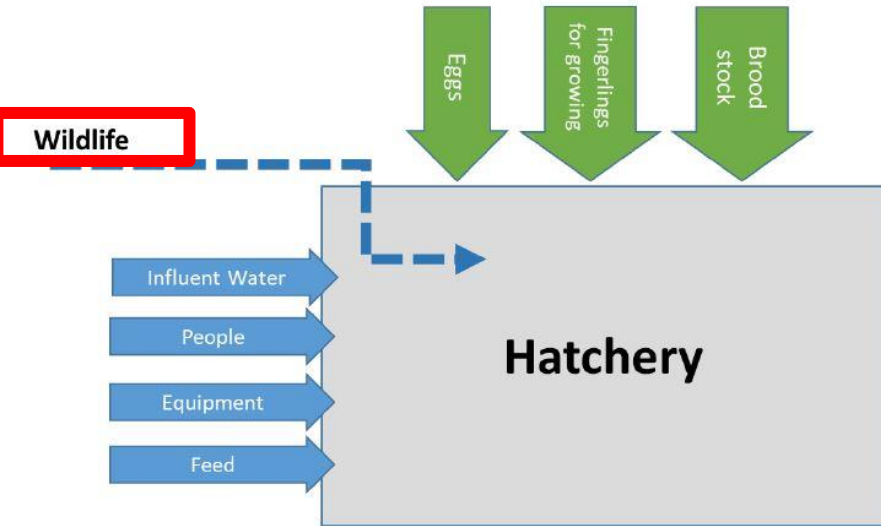
Equipment

- Disinfection: between stocking events and fish transfers
- Dedicated equipment for certain species and tasks.
- Keep logs / documentation

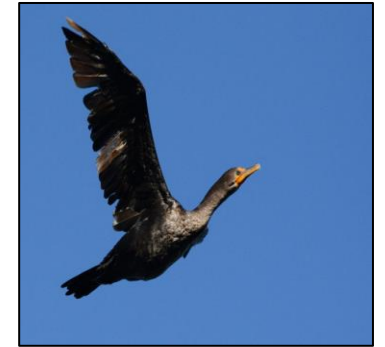
Feed

- Trusted Source
- Identify loading / unloading area
- Keep in cool, secure room

Entry Pathways



Wildlife



FWS Form 3-200-13 (Rev. 01/2020)
U.S. Department of the Interior



FEDERAL FISH AND WILDLIFE PERMIT APPLICATION FORM

Migratory Bird Depredation
(Migratory Bird Treaty Act, 50 CFR 21.41)
U.S. Fish and Wildlife Service
Division of Migratory Bird Management

OMB Control No. 1018-0022
Expires 08/31/2023

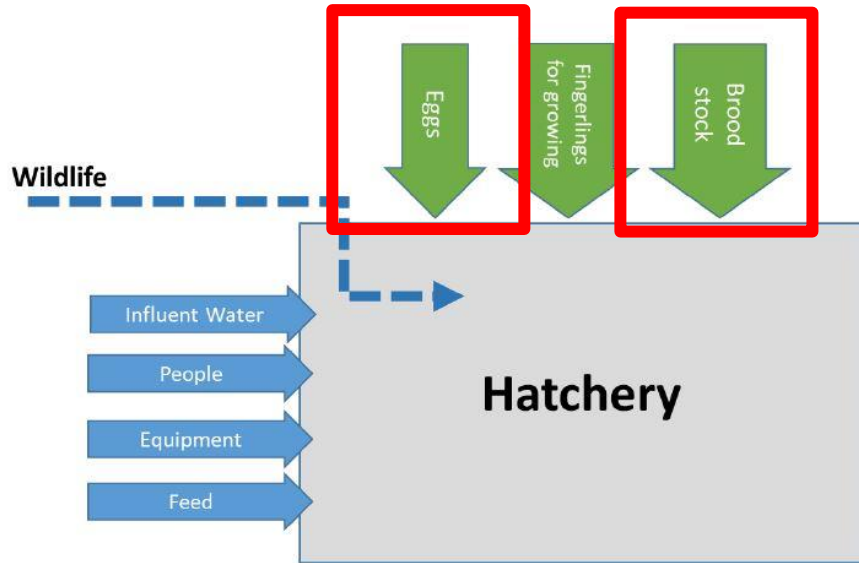


- TYPE OF REQUEST**
- New Application
 - Renewal
 - Amendment

BEFORE FILLING OUT THIS FORM, please access the [Return Addresses](#) (to obtain the email/postal mail addresses where this form can be returned), and read the [Frequently Asked Questions](#) and [Instructions](#). Please retain the "NOTICES" page for your records.



Entry Pathways



Eggs and Broodstock

Sources

- Other Agencies / Private Producers
- On Site Broodstock

Other Agencies / Private Producers

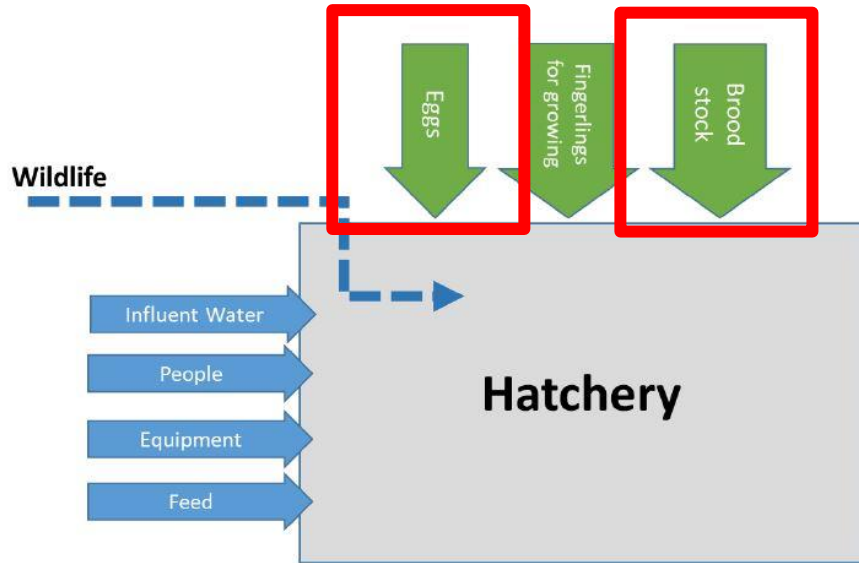
- Reputable source & certified disease free
 - Dept of Ag. Import permit
- Contract requirements
- In-house inspection and health testing

On Site Broodstock

- In-house inspection and health testing



Entry Pathways



Eggs and Broodstock

Sources

- Other Agencies / Private Producers
- On Site Broodstock
- Wild Broodstock



Wild Broodstock

- Testing disease status of broodstock locations
 - Avoidance of collection in areas of concern
- Use of hatchery well water during collection process
- Disinfection of eggs before bringing back to hatchery
- Isolation facility
- Regular testing of hatchery raised fish



Aquaculture Permitting

Class A Permit

- Less restrictive
- Native species
- Not concerned about escape

Class B Permit

- More restrictive
- Nonnative species
- Concern about escaping
- Requires facility inspection
 - Several layers of escapement protection

Stocking Permit

- Required to stock fish into public waters
- Review by DOW Fish Management, signed by Chief, issued by Law Section

Chris French

Fish Hatchery Program Administrator

Chris.French@dnr.ohio.gov

614-265-6721



Wabash River, Illinois