I am an Eastern Hemlock Tree (A Native Species)



- I am a native tree.
- The invasive species called, <u>Hemlock Woolley</u> <u>Adelgid</u> kill me.
- I provide shelter & food for birds, deer and other wildlife. I provide shade for salamanders, as well as, trout and salmon who live in rivers and streams where I grow.

These species also lose a resource chip when hemlock woolly adelgid is present.

I am an Eastern Hemlock Tree (A Native Species)



- I am a native tree.
- The invasive species called, <u>Hemlock Woolley</u>

 <u>Adelgid</u> kill me. *I lose a resource chip when they enter my habitat.*
- I provide shelter & food for birds, deer and other wildlife. I provide shade for salamanders, as well as, trout and salmon who live in rivers and streams where I grow.

These species also lose a resource chip when hemlock woolly adelgid is present.

I am a Hemlock Woolley Adelgid (HWA) (an invasive species)



Pair with native hemlock trees and wildlife cards

I am an invasive forest pest from Asia.
 I kill hemlock trees.

I Take Resources From:

- Hemlock trees
- Birds
- Salamanders
- Stream/River Fish (salmon, trout...)
 If you are one of these species
 you lose a resource chip.
- I am easily spread by birds or through the nursery trade.
- Signs of my presence: white masses that look like cotton balls on hemlock tree needles.

I am a Hemlock Woolley Adelgid (HWA) (an invasive species)



Pair with native hemlock trees and wildlife cards

I am an invasive forest pest from Asia.
 I kill hemlock trees.

I Take Resources From:

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 If you are one of these species
 you lose a resource chip.
- I am easily spread by birds or through the nursery trade.
- Signs of my presence: white masses that look like cotton balls on hemlock tree needles.

I am an Ash Tree (A Native Species)







- I am a native tree.
- The invasive species
 called, the Emerald Ash
 Borer has kills me. I lose
 a resource chip when
 this insect enters my
 habitat.
- I provide food and shelter for wildlife, such as birds, deer, squirrels
 & chipmunks. These species also lose a resource chip when emerald ash borer is present.
- My wood is used for lumber and baseball bats. I am also a common urban tree.

I am an Ash Tree (A Native Species)

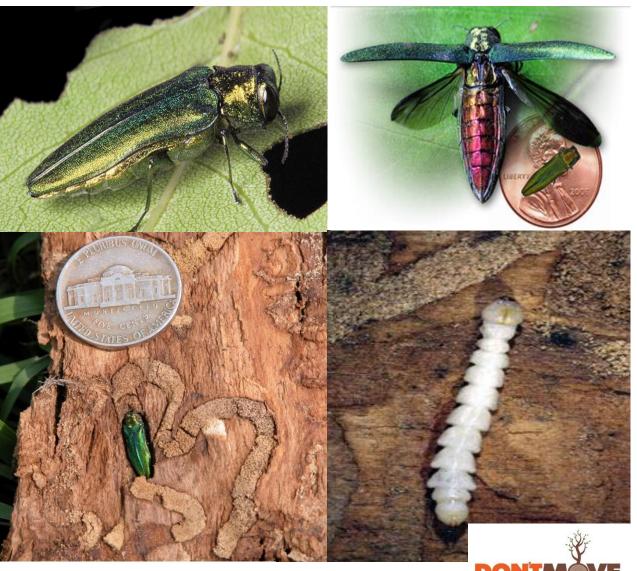






- I am a native tree.
- The invasive species
 called, the Emerald Ash
 Borer has kills me. I lose
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 & chipmunks. These species also lose a resource chip when emerald ash borer is present.
- My wood is used for lumber and baseball bats. I am also a common urban tree.

I am an Emerald Ash Borer (EAB) (an invasive species)



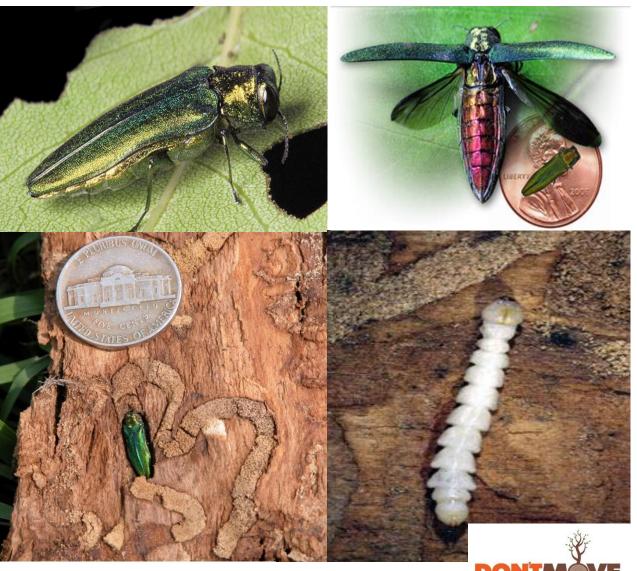
Pair with ash tree and wildlife cards.
Show specimen if available

I am an invasive forest pest native to Asia. I kill ash trees.

I Take Resources From:

- Ash Trees
- Birds
- Squirrels, chipmunks, deer, racoons
 - If you are one of these species you lose a resource chip.
- I am easily spread by the movement of infested wood.
- Signs of my presence:
 woodpecker damage on
 ash trees, loss of leaves or
 yellowing of leaves in the
 summer, D-shaped exit
 holes in bark.

I am an Emerald Ash Borer (EAB) (an invasive species)



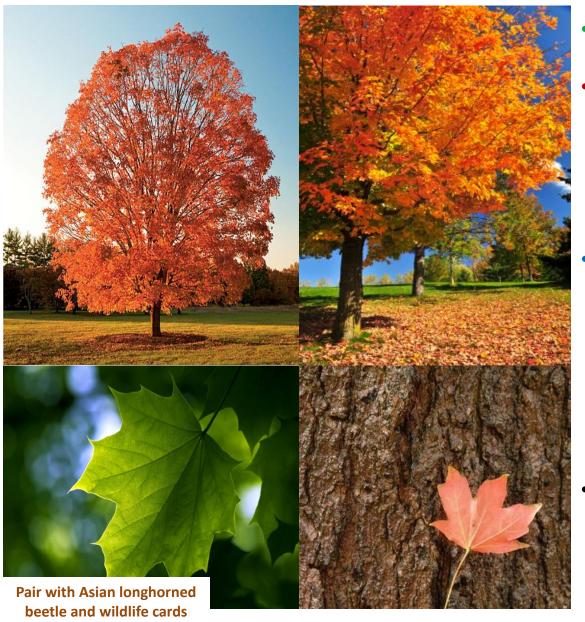
Pair with ash tree and wildlife cards.
Show specimen if available

I am an invasive forest pest native to Asia. I kill ash trees.

I Take Resources From:

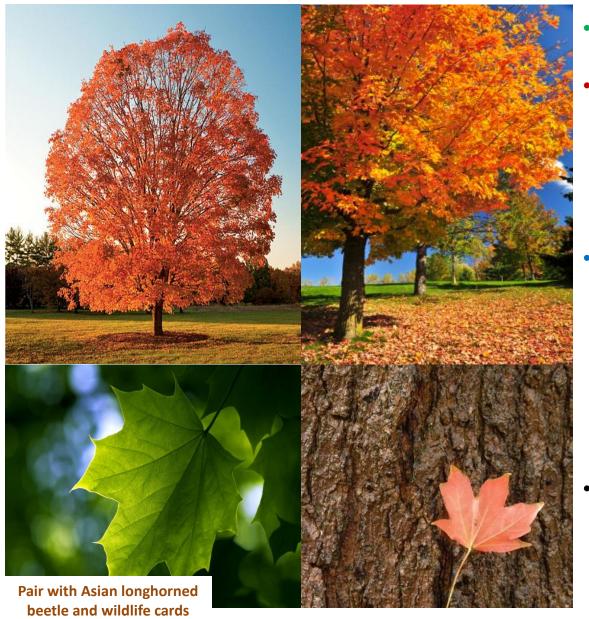
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 woodpecker damage on
 ash trees, loss of leaves or
 yellowing of leaves in the
 summer, D-shaped exit
 holes in bark.

I am a Maple Tree (A Native Species)



- I am a native Tree.
- The Invasive Species called, the <u>Asian Long Horned Beetle</u> kills me. I lose a resource chip when this insect enters my habitat.
- I provide food and habitat for wildlife. Such as birds, deer, racoons, squirrels& chipmunks. These species also lose a recourse chip when Asian longhorned beetle enters our habitat.
- I produce maple syrup and am famous for my beautiful leaf color in the fall.

I am a Maple Tree (A Native Species)



- I am a native Tree.
- The Invasive Species called, the <u>Asian Long Horned Beetle</u> kills me. I lose a resource chip when this insect enters my habitat.
- I provide food and habitat for wildlife. Such as birds, deer, racoons, squirrels& chipmunks. These species also lose a recourse chip when Asian longhorned beetle enters our habitat.
- I produce maple syrup and am famous for my beautiful leaf color in the fall.

I am an Asian Longhorned Beetle (ALB) (an invasive species)





Pair with maple/ ash tree and wildlife cards. Show specimen if available.

 I am an invasive wood boring insect that is native to Asia. I kill hardwood trees, such as maple.

I Take Resources From:

- Maple, Ash and other hardwood trees
- Wildlife such as: birds, deer, squirrels, chipmunks &racoons
 If you are one of these species you lose a resource chip.
- I am easily spread by infested wood.
- Signs of my Presence:
 Exit holes that are the shape and size of a dime, chewed wood fragments on and around trees (like sawdust).



I am an Asian Longhorned Beetle (ALB) (an invasive species)





Pair with maple/ ash tree and wildlife cards. Show specimen if available.

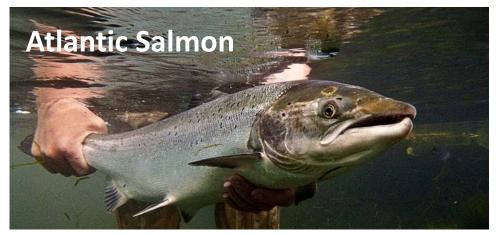
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 Exit holes that are the shape and size of a dime, chewed wood fragments on and around trees (like sawdust).



Large Game-Fish (Native Species)





Pair with sea lamprey, round goby and zebra/quagga mussel and hemlock woolly adelgid cards

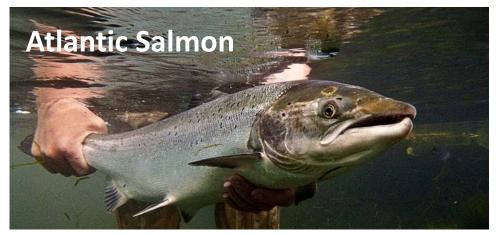
 I am an important <u>native</u> sportfish and predator.

My populations can be reduced by the following invasive species:

- Sea lamprey which suck my blood
- Round Goby which eat my fish eggs
- Zebra/Quagga mussels which eat the food of my prey
- Hemlock Woolly Adelgid take away hemlocks that shade my streams

I lose a resource chip every time one of these invasive species enters my habitat.

Large Game-Fish (Native Species)





Pair with sea lamprey, round goby and zebra/quagga mussel and hemlock woolly adelgid cards

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I am a Sea Lamprey (an invasive species)



Pair with fish cards/show specimen if available

I am a blood sucking invasive fish native to the Atlantic Ocean

I take resources from:

Native Fish (salmon, trout, walleye, perch, bass...)

If you are one of these species you lose a resource chip.

 I entered the Great Lakes through shipping canals and ballast water of ships

I am a Sea Lamprey (an invasive species)



Pair with fish cards/show specimen if available

I am a blood sucking invasive fish native to the Atlantic Ocean

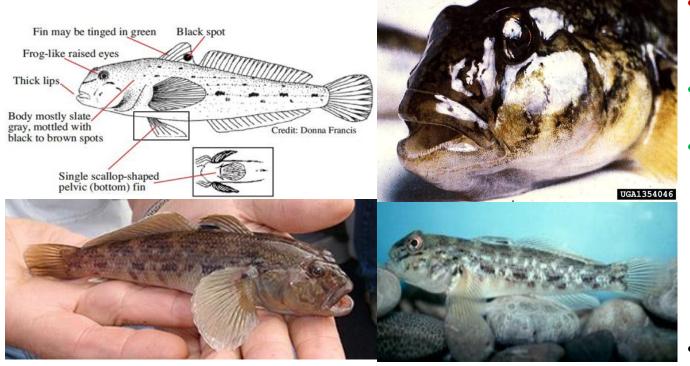
I take resources from:

Native Fish (salmon, trout, walleye, perch, bass...)

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 I entered the Great Lakes through shipping canals and ballast water of ships

I am a Round Goby (an invasive species)



I'm an invasive fish.

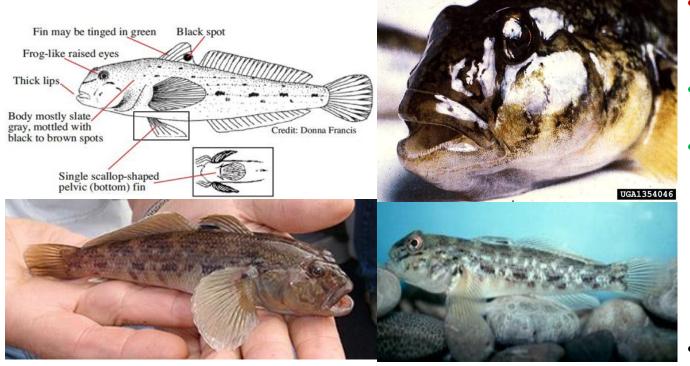
I take resources from:

- Fish-I love to eat fish eggs
- Zebra/quagga mussels are also a tasty snack
- If you are one of these species you lose a resource chip.
- I'm easily spread by bait use and by ballast water and boats.



Pair with fish & zebra/quagga mussel cards & show specimen if available

I am a Round Goby (an invasive species)



I'm an invasive fish.

I take resources from:

- Fish-I love to eat fish eggs
- Zebra/quagga mussels are also a tasty snack
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- I'm easily spread by bait use and by ballast water and boats.



Pair with fish & zebra/quagga mussel cards & show specimen if available

Popular Sport Fish (Native Species)





 I am a popular native sportfish and predator

My populations can be reduced by the following invasive species:

- Round gobies eat my fish eggs and can make me sick
- Zebra mussels eat the food of my prey
- Sea lamprey suck my blood

I lose a resource chip every time one of these invasive species enters my habitat.

Pair with zebra/quagga mussel, round goby and sea lamprey cards

Popular Sport Fish (Native Species)





 I am a popular native sportfish and predator

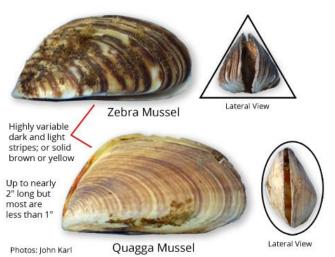
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- Sea lamprey suck my blood

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Pair with zebra/quagga mussel, round goby and sea lamprey cards

We are Zebra & Quagga Mussels (invasive species)









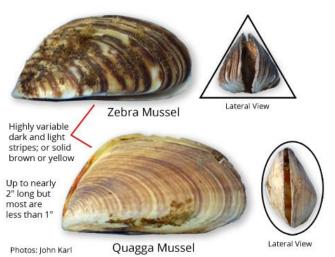
We're invasive mollusks

We take resources from:

- Zooplankton
- Phytoplankton
- I can also make fish that
 eat me sick because I can
 spread a bacterial
 infection called Botulism
 If you are one of these
 species you
 lose a resource chip.
- We can be spread by boats, ballast water and bait.

Pair with plankton, round goby, fish cards. Show specimen if available

We are Zebra & Quagga Mussels (invasive species)









We're invasive mollusks

We take resources from:

- Zooplankton
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- I can also make fish that
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- We can be spread by boats, ballast water and bait.

Pair with plankton, round goby, fish cards. Show specimen if available

I am Purple Loosestrife (an invasive species)



I'm an invasive plant that invades wetlands

I take resources from:

- Cattails
- Red winged black birds
- Amphibians/reptiles
- Mallards

If you are one of these species you lose a resource chip.

 My seeds can be spread by hikers, animals, water currents and wind.

Pair with cattails, redwing black bird, amphibian/reptiles, mallard cards

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 My seeds can be spread by hikers, animals, water currents and wind.

Pair with cattails, redwing black bird, amphibian/reptiles, mallard cards

I am a cattail (A Native Species)



Pair with purple loosestrife, mallards, redwing black birds, amphibians/reptiles cards

- I am a native wetland plant
- Invasive purple loosestrife can outcompete me for resources. I lose a resource chip when it is in my habitat.
- I protect inland areas from storm surges and provide resources for redwing black birds, mallards, amphibians, reptiles. These species also lose a resource chip when purple loosestrife enters our habitat.

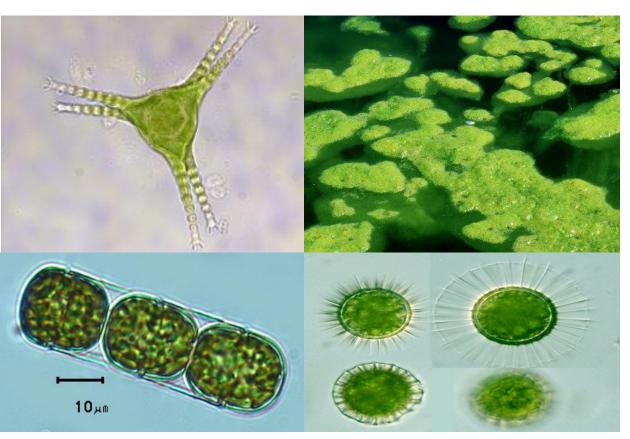
I am a cattail (A Native Species)



Pair with purple loosestrife, mallards, redwing black birds, amphibians/reptiles cards

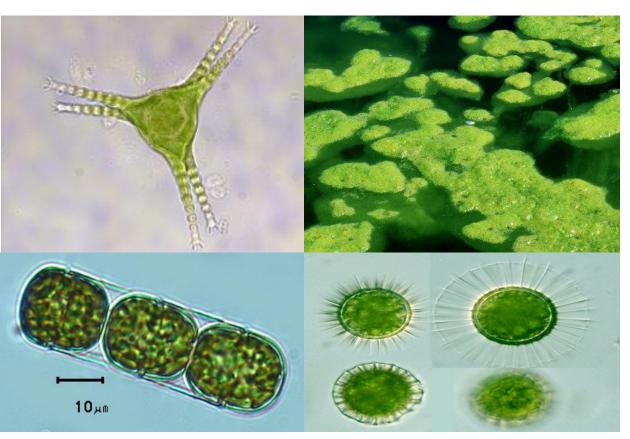
- I am a native wetland plant
- Invasive purple loosestrife can outcompete me for resources. I lose a resource chip when it is in my habitat.
- I protect inland areas from storm surges and provide resources for redwing black birds, mallards, amphibians, reptiles. These species also lose a resource chip when purple loosestrife enters our habitat.

I am Phytoplankton (A Native Species)



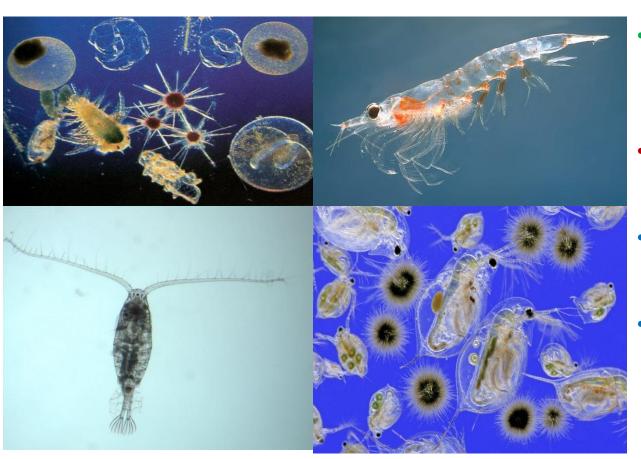
- I am a native aquatic microscopic algae
- Zebra/quagga mussels reduce my populations
- I use sunlight to make energy and am a major food source for aquatic animals.
- Native fish & mallards also lose resources when zebra/quagga mussels are in our habitat.

I am Phytoplankton (A Native Species)



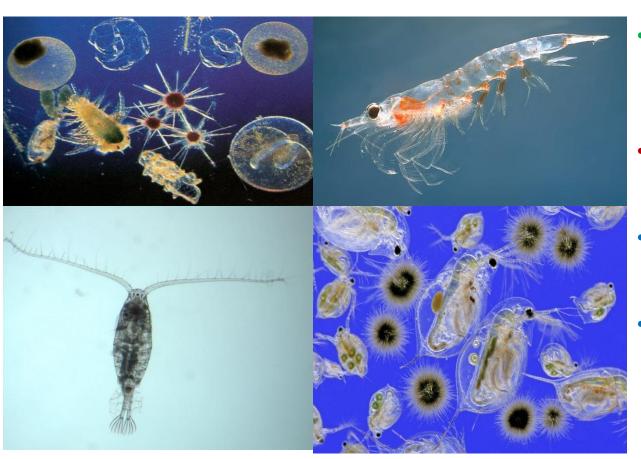
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- Native fish & mallards also lose resources when zebra/quagga mussels are in our habitat.

I am zooplankton (A Native Species)



- I am a form of plankton consisting of very small aquatic animals
- Zebra mussels reduce my populations
- I'm a major food source for aquatic life.
- Native fish & mallards
 also lose resources when
 zebra/quagga mussels
 are in our habitat.

I am zooplankton (A Native Species)



- I am a form of plankton consisting of very small aquatic animals
- Zebra mussels reduce my populations
- I'm a major food source for aquatic life.
- Native fish & mallards
 also lose resources when
 zebra/quagga mussels
 are in our habitat.

I am a Red-winged Black Bird (Native Species)







- I am a native bird that lives in freshwater wetlands and marshes
- Invasive species
 <u>Purple Loosestrife</u>
 take resources
 from me. I lose a
 resource chip
 when they are in
 my habitat.
- I like to use cattails to make my nest.
 And hunt for food in wetland habitats.

Pair with purple loosestrife

I am a Red-winged Black Bird (Native Species)



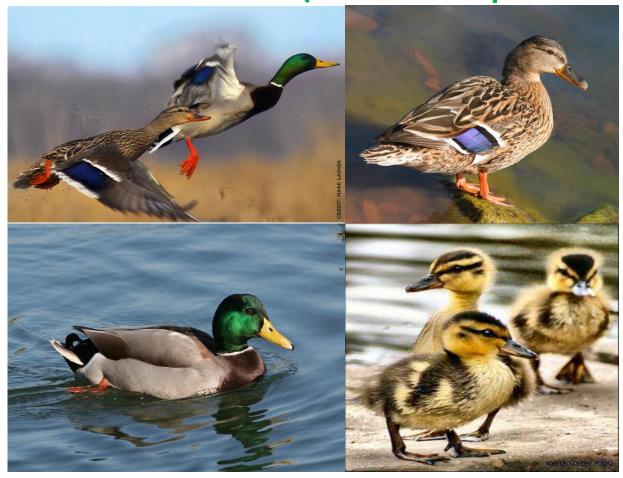




- I am a native bird that lives in freshwater wetlands and marshes
- Invasive species
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Pair with purple loosestrife

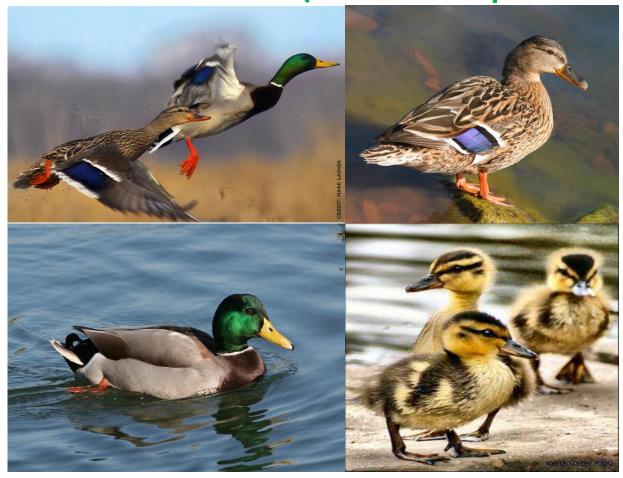
I am a mallard (Native Species)



- I'm a native duck.
- Invasive <u>Purple Loosestrife</u> impact me by taking away my natural habitat. *I lose a* resource chip when they are present.
- I use cattail stands for shelter and nesting.

Pair with purple loosestrife

I am a mallard (Native Species)



- I'm a native duck.
- Invasive <u>Purple Loosestrife</u> impact me by taking away my natural habitat. *I lose a* resource chip when they are present.
- I use cattail stands for shelter and nesting.

Pair with purple loosestrife

I am a water chestnut (an invasive species)



I am an invasive aquatic plant.

I take resources from:

- Native aquatic plantsbecause I outcompete them
- Native fish- because I take away their habitat
 These species lose a resource chip.
- I'm easily spread by boats and boat trailers.

I am a water chestnut (an invasive species)



I am an invasive aquatic plant.

I take resources from:

- Native aquatic plantsbecause I outcompete them
- Native fish- because I take away their habitat
 These species lose a resource chip.
- I'm easily spread by boats and boat trailers.

I am a native aquatic plant (A Native Species)





- I am a native aquatic plant
- Invasive water chestnut outcompetes me. I lose a resource chip when it is in my habitat.
- I get my energy from the sun and provide food and habitat for many aquatic animals.
- Native fish also lose a resource chip when water chestnut is in our habitat.

Elodea

I am a native aquatic plant (A Native Species)





- I am a native aquatic plant
- Invasive water chestnut outcompetes me. I lose a resource chip when it is in my habitat.
- I get my energy from the sun and provide food and habitat for many aquatic animals.
- Native fish also lose a resource chip when water chestnut is in our habitat.

Elodea

Native Woodland Wildlife (Native Species)







Pair with hemlock woolly adelgid, emerald ash borer



- We are native species
- Invasive forest pests like hemlock woolly adelgid and emerald ash borer take away our habitat. We lose a resource chip when they are in our habitat.

Native Woodland Wildlife (Native Species)







Pair with hemlock woolly adelgid, emerald ash borer



- We are native species
- Invasive forest pests like hemlock woolly adelgid and emerald ash borer take away our habitat. We lose a resource chip when they are in our habitat.

Common Native Birds (Native Species)







- We are native species
- Invasive forest pests like hemlock woolly adelgid and emerald ash borer take away our habitat. We lose a resource chip when they are in our habitat.

Common Native Birds (Native Species)







- We are native species
- Invasive forest pests like hemlock woolly adelgid and emerald ash borer take away our habitat. We lose a resource chip when they are in our habitat.

Native Amphibians/Reptiles (Native Species) · We are native species





- Invasive hemlock woolly adelgid kills hemlock trees that keep our habitat cool
- Invasive Emerald Ash borer kills ash trees which are part of our habitat



ash borer, purple loosestrife



Invasive purple
 loosestrife invade
 wetland areas we like
 to find food and
 reproduce

We lose a resource chip when these invasive species are in our habitat.

Native Amphibians/Reptiles (Native Species) · We are native species





- Invasive hemlock woolly adelgid kills hemlock trees that keep our habitat cool
- Invasive Emerald Ash borer kills ash trees which are part of our habitat



ash borer, purple loosestrife



Invasive purple
 loosestrife invade
 wetland areas we like
 to find food and
 reproduce

We lose a resource chip when these invasive species are in our habitat.

Pale & Black Swallow Worts (Invasive Species)







Pair with monarch butterfly/pollinators & native birds, wildlife, reptiles/amphibians

- We are invasive plants
- I outcompete native plants such as milk weed which impacts pollinator populations & other wildlife. I am also toxic to livestock.

I take resources from:

- Monarch butterflies & other pollinators
- Native birds & animals that rely on the plants I outcompete (squirrels, racoons, deer, amphibians...)

These species lose resources when I enter their habitat.

Pale & Black Swallow Worts (Invasive Species)







Pair with monarch butterfly/pollinators & native birds, wildlife, reptiles/amphibians

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These species lose resources when I enter their habitat.

Monarch Butterfly & Other Pollinators (Native Species)







Pair with invasive swallow-worts & native birds, wildlife, reptiles/amphibians



Painted Lady Butterfly



- We are native species
- We pollinate flowers, many food crops and other plants. We are also a source of food for predatory insects and some animals such as frogs and other amphibians.
- Llose resources when invasive black & pale swallow-worts enter my habitat.

Monarch Butterfly & Other Pollinators (Native Species)







Pair with invasive swallow-worts & native birds, wildlife, reptiles/amphibians



Painted Lady Butterfly



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- We pollinate flowers, many food crops and other plants. We are also a source of food for predatory insects and some animals such as frogs and other amphibians.
- Llose resources when invasive black & pale swallow-worts enter my habitat.

Japanese Knotweed (Invasive Species)





Pair with monarch butterfly/pollinators & native birds, wildlife, reptiles/amphibians, fish

- I'm an invasive species
- I outcompete native plants and take away habitat for pollinators and other wildlife. I like to grow along streams replacing plants that provide shade which impacts fish populations that need cool water to survive.

I take resources from:

Pollinators

Wildlife (squirrels, deer, amphibians, reptiles...)

Fish

I'm easily spread if my branches are broken off.

Japanese Knotweed (Invasive Species)





Pair with monarch butterfly/pollinators & native birds, wildlife, reptiles/amphibians, fish

- I'm an invasive species
- I outcompete native plants and take away habitat for pollinators and other wildlife. I like to grow along streams replacing plants that provide shade which impacts fish populations that need cool water to survive.

I take resources from:

Pollinators

Wildlife (squirrels, deer, amphibians, reptiles...)

Fish

I'm easily spread if my branches are broken off.

Native Plants (Native Species)



Native milkweed attracting butterfly's

Forest trees



Stream-side vegetation



- We're native species
- We provide habitat & food for pollinators and wildlife
 - Invasive Japanese knotweed, black/pale swallow-worts,& purple loosestrife take away resources from native plants and the species that depend on them.

Native Plants (Native Species)



Native milkweed attracting butterfly's

Forest trees



Stream-side vegetation



- We're native species
- We provide habitat & food for pollinators and wildlife
 - Invasive Japanese knotweed, black/pale swallow-worts,& purple loosestrife take away resources from native plants and the species that depend on them.