

Players involved: Invasive Hemlock woolly adelgid & Native hemlock trees, wildlife, stream salmon/trout.

Scenario: A bird that has the invasive forest pest called hemlock woolly adelgid stuck on its foot has landed on a hemlock tree to rest. Now the forest is infested with this invasive forest pest.

Instructor prompt: Have the student holding the hemlock woolly adelgid card read off their card (provide guidance if needed). Have player(s) with the impacted native species announce what their species is/are and put one of their resource chips in the basket. **(if the player is down to 3 chips they are considered endangered and have them read off their card)**

Native species impacted by hemlock woolly adelgid: hemlock tree or a type of wildlife such as a bird, amphibian/reptile, woodland creature or a stream/river fish will lose one of their resource chips.

Players involved: Sea lamprey, native fish species (trout, salmon, walleye....)

Scenario: A ship has sea lamprey in its ballast water and releases that water into the St. Lawrence River causing the waterbody to become infested with this invasive parasitic fish.

Instructor prompt: Have the student holding the sea lamprey card read off their card (provide guidance if needed). Have player(s) with the impacted native species announce what their species is/are and put one of their resource chips in the basket. **(if the player is down to 3 chips they are considered endangered and have them read off their card)**

Native species impacted by sea lamprey: native fish (salmon, trout, walleye, perch bass...) will lose a resource chip.

Players involved: Asian longhorned beetle, emerald ash borer, maple tree, ash tree, woodland creature

Scenario: wooden crates used for shipping materials from overseas have invasive Asian longhorned beetle and emerald ash borer larvae hidden deep inside the wood. These crates eventually make their way to stores throughout the area and grow to be adults and escape into nearby urban and forested areas.

Instructor prompt: have the players holding the Asian longhorned beetle and the emerald ash borer card read them off one at a time. Have players with the impacted native species cards announce what their species is/are and put one of their resource chips in the basket. **(if the player is down to 3 chips they are considered endangered and have them read off their card)**

Native species impacted by these invasive forest pests: maple tree or a type of wildlife such as a bird/woodland creature will lose one of your resource chips.

Players involved: invasive black/pale swallow-worts, pollinators, native wildlife.

Scenario: The wind has carried the seeds of invasive black and pale swallow wort into a meadow where it quickly outcompeted the beautiful flowers that once provided a vast pollinator habitat. Over time, the invasive swallow-wort spread to a nearby forest where it grew up into the trees shading out needed sunlight causing the trees to die off.

Presenter Prompt: have the player with the pale/black swallow wort card read it off. Prompt impacted native species players to announce their species and give up a chip. **(if the player is down to 3 chips they are considered endangered and have them read off their card)**

Native species impacted by swallow-worts: monarch butterfly (mistake swallow wort for milkweed laying their eggs on swallow wort causes their larvae to die), other **pollinators** that lose native pollen sources, **amphibians/reptiles** as they prey on pollinators, **woodland animals** such as squirrels and deer as they rely on native vegetation for habitat.

Players involved: round goby, native fish

Scenario: A fisherman unknowingly dumped round goby fish eggs into the water when he dumped his unused bait. This introduction led to the development of a large round goby population in that waterbody.

Presenter prompt: Have the player with the round goby card read it off. Prompt impacted native species players to announce their species and give up a chip. **(if the player is down to 3 chips they are considered endangered and have them read off their card)**

Native Species impacted by round goby: fish or a zebra mussel will be impacted by this and will lose a resource chip. *(this is an example where an invasive species impacts another invasive species)*

Players involved: All native species

Scenario: A new construction site has created the perfect habitat for invasive species.

Presenters prompt: have all native species give up a chip (except for aquatic native species). If a player is down to 3 chips they are considered endangered and have them read off their card)

Players involved: Purple loosestrife, native cattail, red winged black bird, mallard, native fish

Scenario: The seeds of the invasive plant called purple loosestrife attached to an unknowing hiker and was spread to a wetland area.

Presenters prompt: Have player with the purple loosestrife card read it off. Prompt impacted native species players to announce their species and give up a chip. (if the player is down to 3 chips they are considered endangered and have them read off their card)

Native species impacted by purple loosestrife: cattail, fish or red winged black bird, or mallard will lose a resource chip.

Players involved: invasive Japanese knotweed, pollinators, woodland creatures, fish

Scenario: Fishermen cut through a Japanese knotweed infestation to get to the river's edge and fish. Fragments of the branches brake off the plant and fall into the river where they are carried downstream to a new area which later become infested with this invasive plant.

Presenter prompt: have the player with the Japanese knotweed card read it off. Prompt impacted native species players to announce their species and give up a resource chip. **(if the player is down to 3 chips they are considered endangered and have them read off their card).**

Native species impacted by Japanese knotweed: pollinators & woodland creatures lose their habitat. **Fish** are impacted because Japanese knotweed replaces streamside vegetation that would shade the stream keep it cool for fish.

Players involved: Zebra and quagga mussels, birds, fish, phyto/zooplankton, mallards

Scenario: A boat with zebra/quagga mussels attached to it was put into a lake and over time the lake became infested with these invasive mussels.

Presenter Prompt: Have player with the zebra/quagga mussel card read it off. Prompt impacted native species players to announce their species and give up a chip. **(if the player is down to 3 chips they are considered endangered and have them read off their card)**

Native species impacted by invasive mussels: mallards, phyto & zoo plankton, fish will lose one of a resource chips.

Players involved: water chestnut, aquatic pants, native fish

Scenario: Water chestnut seeds were spread by the water currant to a new area where they grew and establish a new population.

Presenter prompt: Have player with water chestnut card read it off. Have native aquatic plant, bird or fish give up a resource chip. **(if the player is down to 3 chips they are considered endangered and have them read off their card)**

Players involved: emerald ash borer, ash trees, woodland creatures, native birds

Scenario: Some campers unknowingly brought firewood that has emerald ash borer in it to their campsite to burn and ended up not burning all their wood leaving it at the site. Eventually the emerald ash borer emerged from the wood and was able to infest the nearby ash trees.

Presenters prompt: if not done so already, have player with EAB read off their card. Have impacted native species give up a chip. **(if the player is down to 3 chips they are considered endangered and have them read off their card)**

Players involved: native aquatic plant and animal life

Scenario: Someone dumped their unwanted aquatic plants and fish into a nearby waterway, little did they know that invasive plants and fish were in that aquarium and are now able to infest the new waterbody they were dumped into.

Presenter prompt: Have players with native aquatic plant or animal cards put a chip in the basket. **If any players are down to 3 chips have them take turns reading off their cards.**

Players involved: All players

Scenario: The spread of invasive species continues to reduce native vegetation and wildlife.

Presenters prompt: have all native species of any kind give up one of your resource chips and all invasives gain a chip. **(if a player is down to 3 chips they are considered endangered and have them take turns reading off their card)**

Players involved: native aquatic plant and animal life

Scenario: Someone dumped their unwanted aquatic plants and fish into a nearby waterway, little did they know that invasive plants and fish were in that aquarium and are now able to infest the new waterbody they were dumped into.

Presenter prompt: Have players with native aquatic plant or animal cards put a chip in the basket. **If any players are down to 3 chips have them take turns reading off their cards.**

Scenarios where native species get back resources:

Players involved: aquatic native plants and animals

Scenario: Someone who had an invasive plant on their boat noticed it and cleaned their boat before entering another body of water that didn't have that invasive plant in it.

Presenters prompt: have native aquatic plant or animals take back a resource chips. **If any of these species were once endangered have them read off their card if they haven't already.**

Players involved: Trees, woodland creatures, amphibians/reptiles

Scenario: A hiker used a boot brush station at their favorite hiking spot, because of this they were able to remove some seeds of an invasive plant that would have easily spread to the forest they were about to enter!

Presenter prompt: Have trees, woodland creatures, amphibians and reptiles take back a resource chip. **If any of these species were once endangered have them read off their card if they haven't already.**

Players involved: native woodland species, native trees, native birds, amphibians/reptiles

Scenario: A citizen scientist reports seeing an invasive species to the Department of Environmental Conservation which results in the treatment and extermination of the invasive forest pest.

Presenters prompt: have native woodland creatures, trees, common native birds, amphibian/reptile take back a resource chip. **If any of these species were once endangered have them read off their card if they haven't already.**

Players Involved: pollinators & native plants, native trees, native birds, amphibians/reptiles

Scenario: people start a project to promote habitat for wildlife by planting native species throughout the community. As time passes more and more pollinators such as butterflies, and wildlife like deer, birds and frogs visit the new gardens.

Presenters prompt: have all native woodland wildlife, pollinators, birds, amphibians/reptiles take back a resource chip. **If any of these species were once endangered have them read off their card if they haven't already.**