PHYLO: The Trading Card Game Invasive Species Edition

Invasive species are among Canada's greatest threats to the survival of our wild animal and plant life. They arrive, often accidentally, and in the absence of natural predators they kill, crowd out or otherwise devastate native species and their ecosystems. Learn more about ecosystems and the dangers of invasive species in this exciting, points-based game! **DURATION:** 20 - 30 minutes **AGE:** 8+

Watch the instruction video on our YouTube channel!

SETUP

Sit across from your opponent. Place two **HOME** cards adjacent to each other in the centre of the table, one facing each player.

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Shuffle the deck and split into two **PICK UP** piles, one for each player. Reserve a spot for a communal **DISCARD** pile. Draw **5 cards** to form your hand.

PLAY

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The youngest player begins. On each turn, **DRAW** one card from the pick-up pile and make **ONE** of the following moves:

- 1) **PLAY** a card from your hand.
- 2) **DISCARD** one card and **PICK UP** three cards.
- 3) **MOVE** a card already on the table the number of spaces indicated on the card.

Remember to play your cards facing you so that you can tally your points at the end!

The last round starts when a player draws the last card from their pick up pile. This player gets **THREE** final moves in their last turn, and so does their opponent.

SPECIES

- Build your ecosystems like a game of dominos, with each card building off of another.
- You can build off of your own cards, or your opponent's.
- New cards added to the table must have at least one matching TERRAIN and must be of equal or greater SIZE to at least one adjacent card.
- Species **DIETS** must be compatible:
 - 1) **Autotrophs*:** These cards can be placed anywhere around the **HOME** cards.
 - 2) **Herbivores, omnivores, other:** These cards can only be played next to an autotroph or another level 2 species of smaller size.
 - 3) **Carnivores:** These cards can only be placed next to other level 2 or 3 species.

*A species that produces its own food.

EVENTS

- Play event cards according to instructions on card.
- The opposition has their next turn to react to an event card. They can:
 - 1) Play a **SPECIES PROTECTION** card.
 - 2) Replace the affected card with a new species.
 - 3) Move a species card that will be affected.
 - If the affected card cannot be protected, replaced, or moved, this card and all other cards supported by the affected card are removed.

Tally your points. The player with the most points, wins!



SET UP EXAMPLE

Remember: Cards are always played facing the direction of the player who placed them. This makes it easy to tally points at the end.





This deck is modeled to be a part of the official Phylo Trading Card Game. More information about this project and additional decks can be found at https://phylogame.org/.

Invasive Species Centre Home Card



Invasive Species Centre

About us: The Invasive Species Centre prevents the spread of invasive species in Canada by connecting stakeholders with knowledge and technology. Incorporated as a non-for-profit in 2011, the Invasive Species Centre is a hub for collaboration and knowledge sharing between stakeholders and has grown into a respected partner and leader in invasive species science, education, and action in Canada, and beyond.



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FACT: Depending on the species, sphagnum

moss may hold water up to 16 – 26 times their dry weight.

Image by: Katja Schulz From URL: flickr.com/bhotos/treegrow

POINTS





FACT: Black eyed Susans are pioneer plants, and are often one of the first plants to grow after a natural disaster.

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Image by: Jim Lillicotch From URL: http://lillicotch.com/





several animals. ()S=

Image by: Momentmal















PLAY: Phytoplankton has a MOVE of 1

FACT: Phytoplankton remove carbon dioxide from sea water, release oxygen as a by-product, and store the carbon in the form of organic materials.





From URL https://en.wikipedia.org/wiki/File:Diatoms_through_the_microscope.jpg

















FACT: A moose can dive more than 5 meters underwater when searching for food

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Image by: Pexels From URL: https://pixabay.com/en/bee-blur-close-up-flora-flower-1850116/







From URL:





() () Image by: skeeze





() (S) Image by: Wild Turkey From URL: flickr.com/photos/wildturkey530

















From URL: http://hooklineandsinker.ca/rock-bass/



Pacific salmon species, the world record standing at 57.27 kilograms (126 pounds)

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PLAY: Place this card on any Oak tree species.

Effect: The Oak tree species must IMMEDIATELY be removed. You may leave this card on the table to show this space is invaded by oak wilt, and no other oak tree play be played here.



Image by: Wayne Baumgarten From URL: http://wimberleywebdesign.com/





PLAY: Place this card on any ocean or fresh water based SPECIES card.

Effect: The SPECIES card must IMMEDIATELY be removed. You may leave this card on the table to show this space is now invaded by Carp, and no other ocean or freshwater species may be played here.



Image by: United States Geological Survey employee From URL: https://en.wikipedia.org/wiki/User:Carptracker





PLAY: Place this card on any ocean or fresh water based SPECIES card.

Effect: The SPECIES card must IMMEDIATELY be removed. You may leave this card on the table to show this space is now invaded by Carp, and no other ocean or fresh water species may be played here.



Image by: Ryan Hagerty of US Fish and Wildlife Servic From URL: https://www.flickr.com/photos/acrcc/





PLAY: Place this card on any terrestrial or grassland plant species, excluding trees.

Effect: The plant species must IMMEDIATELY be removed. You may leave this card on the table to show this space is invaded by phragmites, and no other terrestrial or grassland plant species (excluding trees) may be played here.



Image by: Mabel Amber

From URL: pixabay.com/en/users/MabelAmber

Emerald Ash Borer

Event Card





PLAY: Place this card on any ash tree species.

Effect: The ash tree must IMMEDIATELY be removed. You may leave this card on the table to show this space is invaded by emerald ash borer, and no other ash species may be played here.

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Image by: UACESCOMM From URL: flickr.com/photos/uacescomm/



Event Card Asian Longhorned Beetle Anoplophora glabripennis



PLAY: Place this card on any hardwood tree species (maple, willow, oak).

Effect: The tree must IMMEDIATELY be removed. You may leave this card on the table to show this space is invaded by Asian longhorned beetle, and no other hardwood species may be played here.



Image by: U.S. Department of Agriculture From URL: flickr.com/photos/usdagov/



Event Card

Habitat Loss



PLAY: Place this card on any species card and change it's habitat to URBAN permanently.

Effect: The species card must be IMMEDIATELY removed. You may leave this card on the table to show this place is now an URBAN terrain.

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Image by: H.-J. Sydow From URL: commons.wikimedia.org/wiki/File:Holzstaemme.JPG

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Image by: H.-J. Sydow From URL: commons.wikimedia.org/wiki/File:Holzstaemme.JPG



Event Card

Event Card

Oil Spill

Event Card



PLAY: Place this card on any ocean or fresh water based species card.

Effect: This species card must be IMMEDIATELY removed.

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Wildfire



PLAY: Place on top of any species card of grassland or forest terrain.

Effect: The species card beneath the Wildfire must be IMMEDIATELY removed.



Image by: U. S. Department of Agriculture From URL: flickr.com/photos/usdagov/



Wildfire

Event Card



PLAY: Place on top of any species card of grassland or forest terrain.

Effect: The species card beneath the Wildfire must be IMMEDIATELY removed.

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Image by: U. S. Department of Agriculture From URL: flickr.com/photos/usdagov/



Climate Change



PLAY/EFFECT: Place this card on top of any species card to immediately remove. In the same action, this event card then moves to an adjacent species card. A game of rock-paperscissors determines whether this card is also discarded. Continue moving this event card and removing species card until you lose. Card can only be played once per game.





PLAY: Place this card on any species you would like to protect from a development or destruction event.

Effect: The species of your choice is protected for this play.



Image by: Thompsma From URL:commons.wikimedia.org/wiki/User:Thompsma



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Event Card





