









and early successional habitats, such as:

grasslands

shrublands

and young forests



Succession is the natural process where one group of plants is replaced by another group of plants over time.





1. Bare ground is colonized by

2. grasses and wildflowers.

3. Scattered shrubs and trees sprout and grow into

4. a dense shrubland, which will continue to grow into

forest and ultimately into a

6. mature forest

Each stage in the process of succession is important to Scarlet tanager different species of wildlife. Ruffed Early successional habitats grouse New England cottontail Blue-winged warbler Bluebird Killdeer

Bare ground

Grassland

Old field

Shrubland

Young forest

Mature forest

Some animals use multiple stages of succession.



The American woodcock requires deciduous forest with adjacent grassland habitat.

























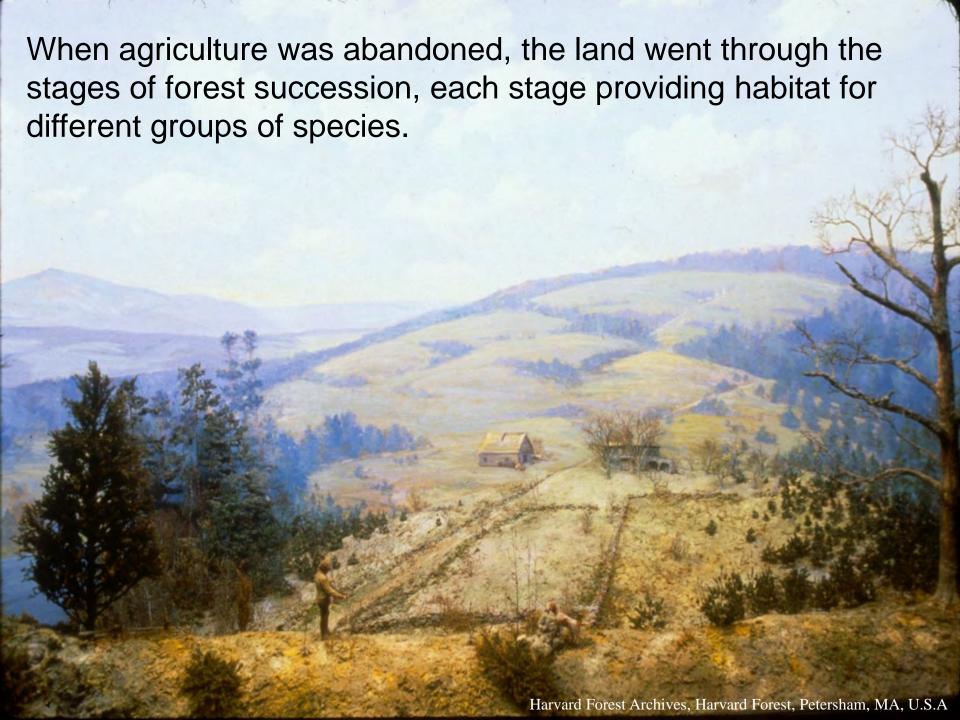
The New England cottontail has lost more than 80% of its habitat since 1960. For more information on the New England cottontail, visit New England Cottontail.org (link at end of slideshow).

But why should we care? Wasn't Connecticut all mature forest before the settlers arrived?



The forests that the settlers encountered were cleared to make way for agriculture. While this was bad news for forest species, it benefitted grassland species. Farming back then moved more slowly, allowing grassland birds to raise their young in pastures and hayfields.







So, why worry about species that are dependent on early successional habitats? Connecticut is just growing back into the forest that it always was, right?

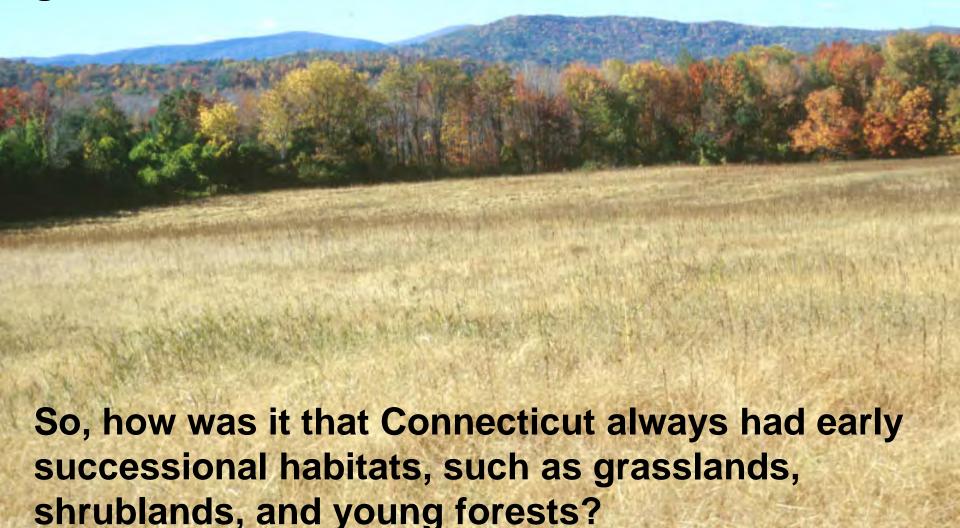




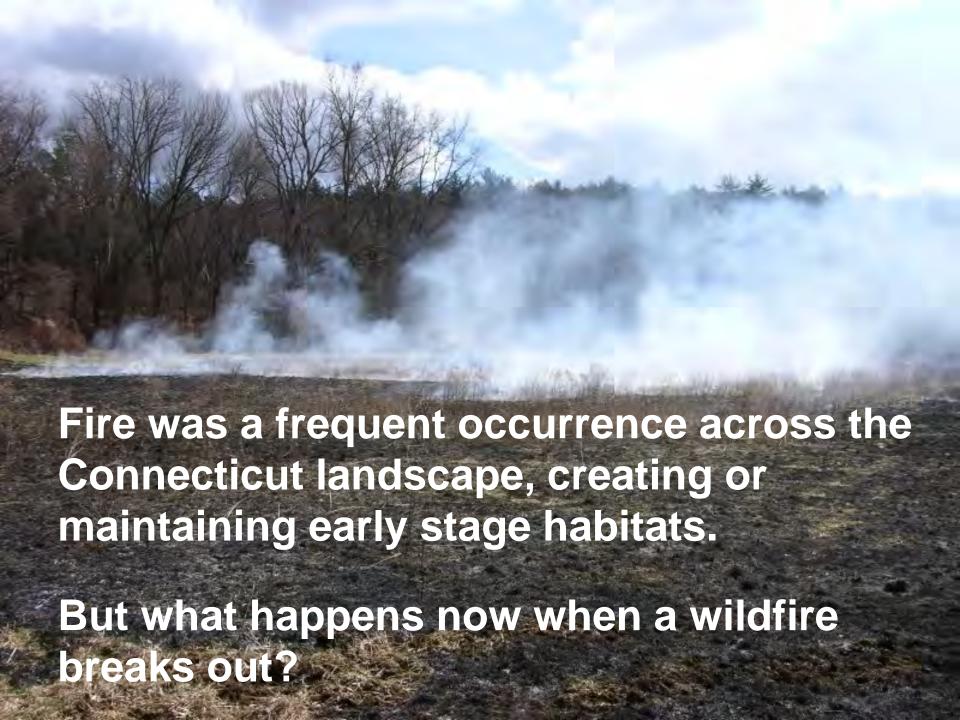




Wrong! It is estimated that we now have less grassland habitat than when the settlers arrived.









In such a highly developed state such as Connecticut, it is not long before a wildfire is knocking at someone's front door.



Fire suppression is one reason for the decline in early successional habitats, fire-dependent species, and other disturbance-dependent species.

But, it wasn't just fire that created or maintained early successional, or "disturbance-dependent," habitats.

What else played an important role in shaping











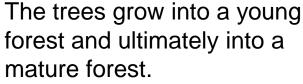




After they eat themselves out of house and home, the beavers move on. The pond that they have left behind fills in with sediment. The sediment becomes exposed as the dam deteriorates and the stream finds its course. Grasses and wildflowers grow on the exposed sediment and a beaver meadow is born.

After several years, shrubs and tree seedlings begin to grow in the beaver meadow.

The tree seedlings grow into young trees.









Succession!

Eventually, when the forest grows back, the beavers can move in and begin the whole process all over again



For more information, view or download the booklet *Beavers in Connecticut: Their Natural History and Management*. Link is available at end of the slideshow.







Other natural disturbances that influence succession include ice storms, hurricanes, tornadoes, blowdowns, and seasonal flooding.











Eastern bluebirds can survive in relatively small patches of open habitat with abundant insects.





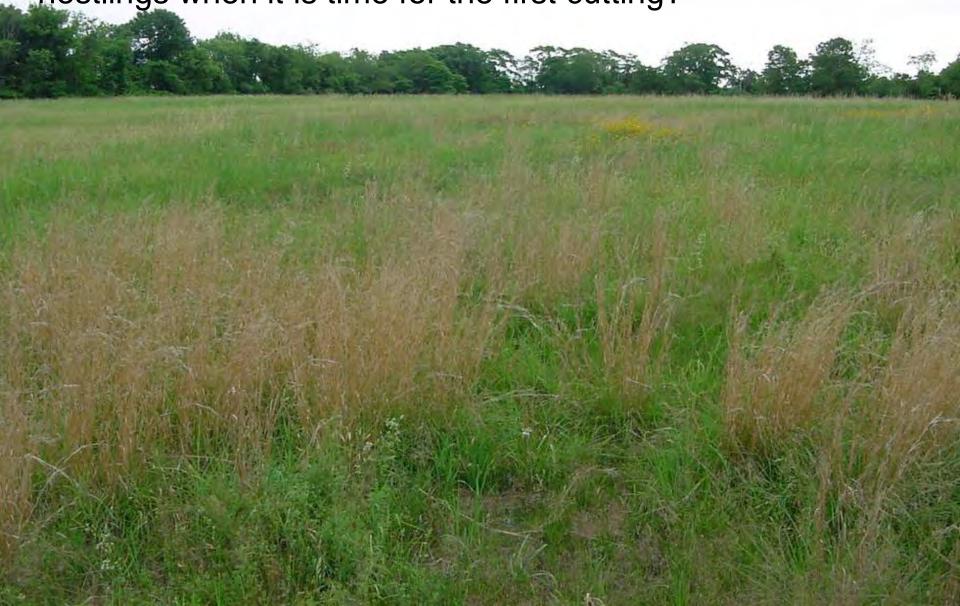
The bobolink requires at least 10 acres of grassland habitat.

The eastern meadowlark requires at least 20 acres.





Although you can still find some 10- or 20-acre grasslands in Connecticut, many are hayfields. What happens to bird nestlings when it is time for the first cutting?



Populations of many grassland species are plummeting. The bobolink and meadowlark are now listed as species of special concern in Connecticut.







The upland sandpiper (left) and the grasshopper sparrow (right) require 100 acres or more of contiguous grassland habitat. Both of these species are endangered in Connecticut.





All animals have four basic requirements (their biological needs).

WATER

FOOD

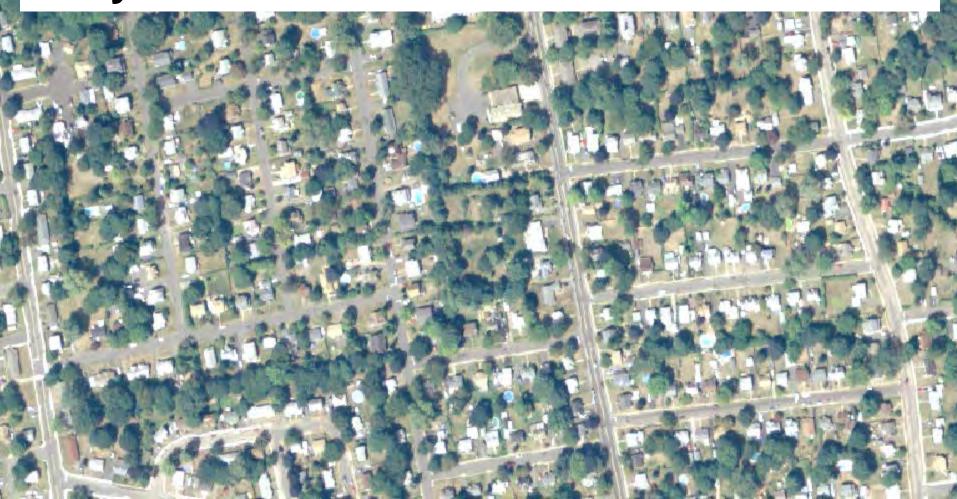
SHELTER

SPACE



All animals need enough SPACE in order to find all of the FOOD, WATER, and SHELTER that they need to survive AND reproduce.

As land is converted to buildings, roads, and lawns, the food, water, shelter, and space that animals need to survive is taken away.



The #1 threat to wildlife . . .







So, how is Connecticut's DEEP Wildlife Division creating early successional habitats: grasslands, shrublands, and young forest?











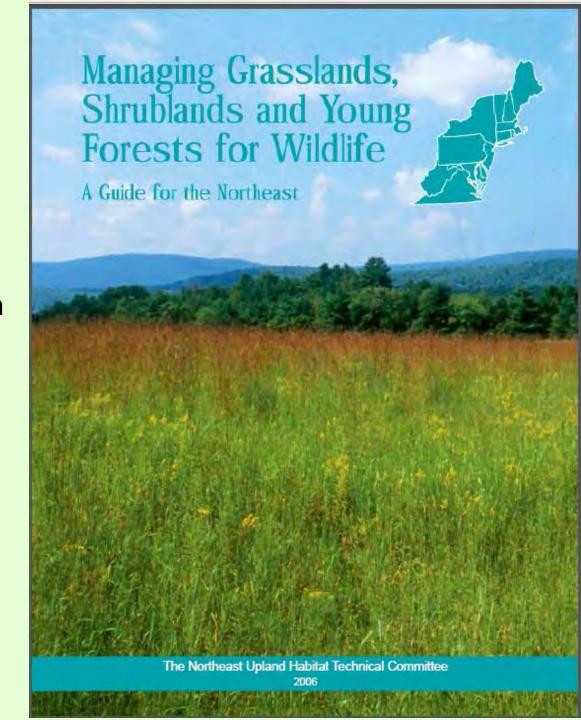


Mowing after nesting season is also used to maintain grasslands.





For more information on managing early successional habitats, view or download the publication Managing Grasslands, Shrublands and Young Forest Habitats for Wildlife: A Guide for the Northeast. The link is provided at end of slideshow.





Many habitats have been taken over by nonnative invasive plants, such as Asiatic bittersweet, Japanese barberry, and multiflora rose. Animals have a harder time surviving in habitats that have been degraded by invasive plants.



While this looks like great shrubland habitat with thick cover, these non-native plants outcompete our native plants, and do not provide food for insects, which are an important source of food for many animals.





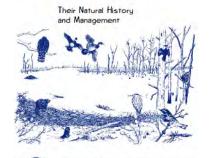


View more information on the

New England cottontail

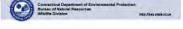






View or download the booklet

Beavers in Connecticut



View or download the guide

Managing Grasslands, Shrublands, and Young Forest Habitats for Wildlife: A Guide for the Northeast

