# Gardening with climate-smart native plants in the Northeast





Regional Invasive Species & Climate Change

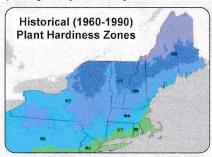


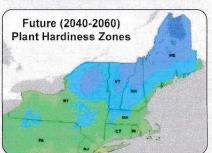




#### **Climate-Smart Gardening**

Rapidly warming temperatures mean that native species will have to move hundreds of miles in coming decades just to keep up. Our gardens can help native species shift their ranges and adapt to climate change. Native plantings today seed ecosystems of the future.





Average	Ann	ual Minimur	n Te	mperature (	°F)
-40° to -35°	3a	-20° to -15°	5a	0° to 5°	7a
-35° to -30°	3b	-15° to -10°	5b	5° to 10°	7b
-30° to -25°	4a	-10° to -5°	6a	10° to 15°	8a
-25° to -20°	4b	-5° to 0°	6b	15° to 20°	8b



#### **Definitions**

USDA Plant Hardiness Zone: Zones based on minimum temperature that are used to determine where plants can grow.

Non-native: A species unlikely to have arrived without human assistance.

Invasive: A species that is established and spreading with negative impacts to native species and ecosystems.

Climate-smart gardening: Planting for present and future conditions using native species adapted to both current and future hardiness zones.

> Learn more about invasive species & climate change at:

risccnetwork.org

https://doi.org/10.7275/mvej-dr35

#### Sources

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Ten Tough New Native Shrub Alternatives for Barberry and Burning Bush. J. Lubell USDA 2012 Plant Hardiness Zones Map, USDA-ARS

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Why Native? Benefits of planting native species in a changing climate.

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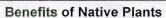
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### Why Native?

An estimated 80% of ornamental plants for sale are non-native. This means that the average yard does a poor job of supporting native flora and fauna. By shifting our plantings towards natives, we can dramatically increase the diversity of bees, butterflies, birds and other animals. In contrast, non-native plants do not support local food webs and can become invasive. Native plants increase biodiversity and reduce risks associated with invasive species, which supports resilient ecosystems in the face of climate change. Look inside for some ideas!





50% higher abundance of native birds



9x higher abundance of rare

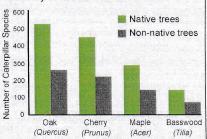


3x more butterfly species



2x higher abundance of native

Native trees support twice the caterpillar diversity of related non-native trees



More caterpillars in your yard might sound alarming, but most are eaten by nesting birds, and many later become butterflies.



## **Costs of Non-native Plants**

Non-native plants are 40x more likely to become invasive than native garden plants.

Invasive plants cost the U.S. an estimated \$20 billion per year to manage and control.





Invasive Japanese barberry supports 3x more deer ticks, which carry Lyme disease.

Common plantings that have become invasive and should be replaced:





For a full list, contact your state's extension program

