Landscape Choices Inspired by Nature

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Habitat Loss and Ecosystem Function

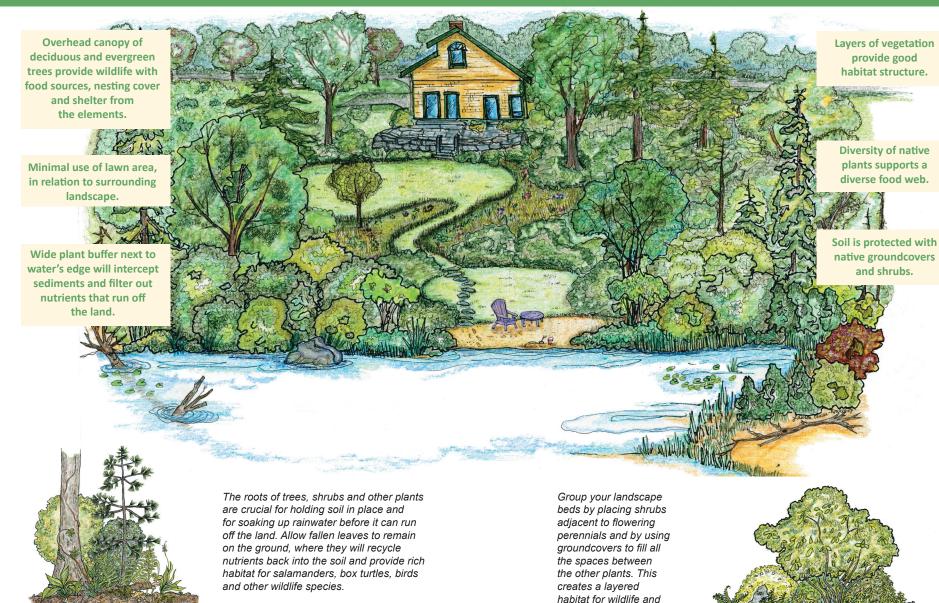
Wildlife needs our help more than ever. Over 884 species are currently listed in the Virginia Wildlife Action Plan as "Species of Greatest Conservation Need," including species we've probably taken for granted as being very common, such as the gray catbird, eastern box turtle, brook trout, tiger salamander, carpenter frog, little brown bat and rusty-patched bumblebee.

Almost 70% of the species listed in the Action Plan are invertebrates, a group that includes mollusks, spiders and many insect families like ants, bees and butterflies. Populations of these species of greatest conservation need—and indeed of all other wildlife species that aren't yet listed in the Action Plan—are increasingly being threatened by extensive habitat alteration and losses that can be directly linked to the everyday choices we make across the landscape.

The challenge is that too many of us seldom consider the ecological function of our own yards. An ecosystem is a functional system of continuous energy exchange, made up of diverse plant and animal communities, as well as the non-living elements in the environment, like soil, water and sunlight. Ecosystems provide us with all the "services" we need to survive, such as oxygen in the air we breathe, or food and water. Healthy ecosystems contain robust, interactive assemblages of plant and animal species that co-evolved together, called natural communities.



Unfortunately, today's urban and suburban landscapes provide very limited support of natural communities. Instead, we've replaced the complexity of forest, grassland and wetland ecosystems with vast artificial constructs of mostly non-native plant communities made up of exotic species we affectionately call "ornamentals." Non-native landscapes are one of the greatest factors contributing to habitat loss, because non-native plants have very little to no value for wildlife.



Excerpt from the publication - Native Plants for Virginia's Capital Region

Learn more about regional native plants at www.PlantVirginiaNatives.org

also minimizes the

amount of exposed

mulch where weeds

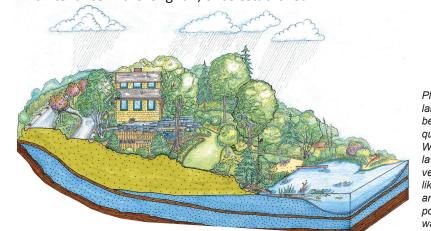
can invade.

Re-Thinking Landscape Choices

You can make a difference! There are so many places around our homes, neighborhoods and towns where we can make simple changes to improve habitat quality for a broad diversity of wildlife species. Here are just a few tips, to get you started:



- 2) Replace other non-native trees, shrubs and groundcovers in your landscape with some of the native plants shown in this guide.
- 3) Recycle the leaves that trees give you for free in the fall by shredding them up with a leaf shredder or lawn mower, and use these as mulch around your landscape beds to build up organic matter and support a greater diversity of soil organisms.
- 4) Be strategic in reducing the size of your lawn; transition your landscape by gradually adding native shrubs and groundcovers in patches, which will require much less maintenance in the long run, once established.



Plants across the landscape provide the best protection for water quality and aquatic wildlife. When we shrink the lawn by adding layers of vegetation, we reduce the likelihood that soil particles and nutrients will end up in ponds, streams and other waterways.

Illustrations by Lauren Chase-Rowell, used with permission from Landscaping at the Water's Edge, an Ecological Approach, c. 2007, University of New Hampshire Cooperative Extension (https://extension.unh.edu/resource/landscaping-waters-edge-book).