

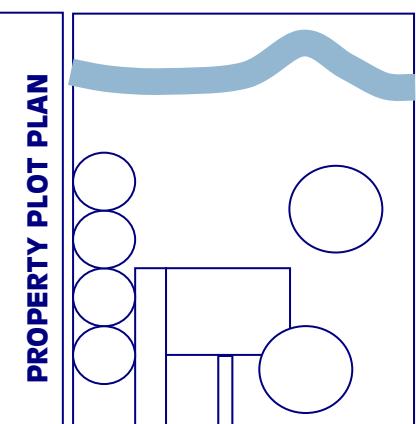
HOW TO CREATE A STREAMSIDE BUFFER GARDEN

Size Up Your Streamside Buffer Garden

To design your buffer garden start with a property plot plan. A plot plan is usually available at town hall, or you can create one by measuring the distances between your house, driveway, garage, etc. and the stream.

On the plot plan roughly sketch how much lawn you need for family activities and draw in existing trees and landscaping. The remaining yard area, adjacent to the stream, is your potential buffer garden.

To determine the best size for your buffer garden consider the length you have available alongside the stream, as well as the width available on one or both sides of the stream.

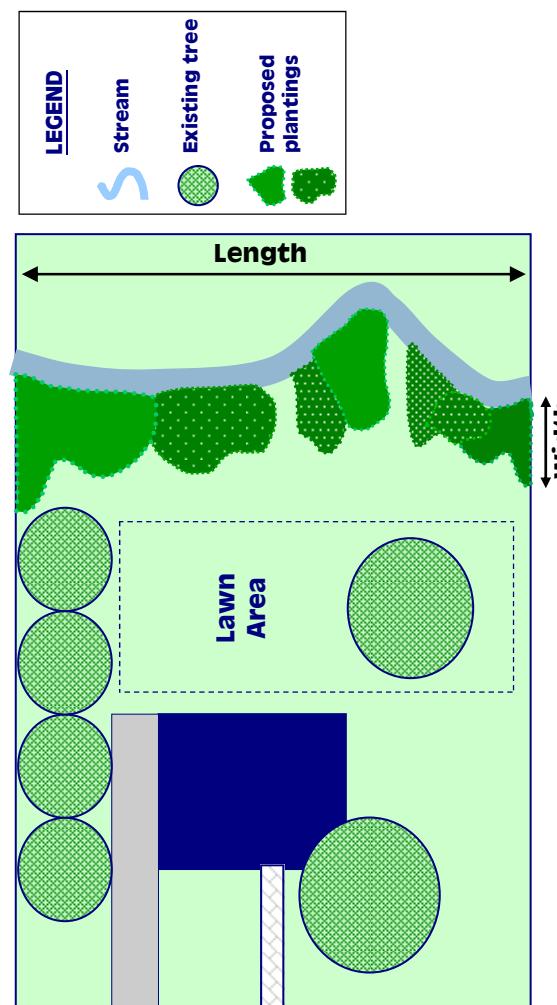


LENGTH is important. Wildlife travel along streamsides corridors seeking food and shelter. Try to create a buffer garden along the entire stream length on your property. Paths through the buffer garden can provide access and views of the stream.

WIDTH is also important. The wider the buffer, the more effectively it will intercept and filter runoff, stabilize the soil to prevent erosion, and support wildlife. Conservationists recommend at least a 35-foot wide buffer, but a narrower buffer is better than no buffer at all!

If you have limited time or a limited budget start small. Plant as much buffer garden next to the stream as possible, and in subsequent years you can add plantings to lengthen, or widen, your buffer garden.

BUFFER GARDEN DESIGN SKETCH



Design for Everyday Beauty and Pleasure

If you are like most people, you have access to a stream because you enjoy the sight and sound of the water on your property. Your buffer garden should preserve and enhance this relationship with the stream. It should also include plants with shapes, blooms, colors and fragrances that are pleasing to you as well as the local birds, bees, and butterflies.



AN EXAMPLE OF HOW TO FRAME A VIEW OF THE STREAM WITH A BUFFER GARDEN

SKETCH A DESIGN on your plot plan showing your planting areas and where you want to put trees, shrubs, flowers, meadow grasses and ferns. Also sketch in walking paths and views of the stream. A good way to preserve views of the stream is to put shorter plants along the paths and taller plants at the outer "frame" of view.

Before deciding what to plant consider the environmental conditions in the buffer garden. You will need an idea of the soil moisture and light regime. Note how wet or dry the planting area is, and how sunny or shady it is. Also note areas that are seasonally wet or flooded.

Now you can choose plants that are right for your garden. Refer to any one of the excellent websites referenced on the other side, or peruse a good garden book. Consider species native to southern New England first. They are adapted to our climate and are tolerant of the local soils and pests. Native plants also attract native wildlife, and can be essential to native bird and butterfly survival.

Diversify your buffer garden by choosing a variety of trees, shrubs, grasses and flowering perennials. A mixture of plant heights and colors will add visual interest, and different plant types work together to better protect the stream. Tree and shrub roots grow deeply, preventing undermining of stream banks, while perennials and meadow grasses intercept runoff and help keep surface soil from eroding. And of course, flowering and fruit-bearing plants help feed a wide variety of wildlife species throughout the year.

Implement Your Design

Using your design sketch, mark out the planting areas either by eye or with a measuring tape. Stakes, flags, flagging tape or temporary spray paint can help you demarcate planting areas and visualize your buffer garden.

TO PREPARE FOR PLANTING you will need to clear any weeds or other vegetation and turn the soil. You may also choose to lay down a layer of mulch before you plant, although it can be added afterwards.

If you are planting an area that is lawn you can use a sod-stripper or rototiller, or you can use a smothering technique. To smother, lay a thick layer of newspapers (up to 12 sheets!) on the grass and cover with 4-6" of mulch. Grass can also be smothered by covering it completely with black plastic or cardboard until it turns brown and dies (this takes some time).

GRASS PATHS ALLOW ACCESS AND VIEWS OF THE STREAM

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Also make sure to look for, and remove, any non-native invasive plants since they can overrun your new garden (to learn more about invasives go to www.hort.uconn.edu/cipwg/).

Now you are ready to plant!

Generally, each plant species has a preferred soil acidity and soil fertility. Ask a professional at the garden center or nursery where you purchase your plants for planting information and plant care recommendations. And remember, leave enough space between the plants so they have room to grow to their full mature size!



