

Look deep into nature, and then you will understand everything better.

Why not begin with plant communities, a simple guiding concept of habitat gardening in which the objective is to copy what exists naturally? he soil in a forest is made up of a series of distinct layers, ranging from the bedrock to the rich organic layers near the surface. Each layer contains its own mix of organisms from bacteria and fungi to larger animals such as beetles and earthworms. This rich mix of organisms cycle nutrients through a system that supports the growth of the plants we see above ground.

The topsoil may have been stripped away from your garden when the building or subdivision was constructed. The remaining soil may be compacted and damaged, containing much clay and often eroded by years of water flow. With some groundwork, you can bring your soil back to productivity: leave the fallen leaves of autumn in place, allow sticks and branches to decompose, and add



Fallen autumn leaves.

compost to the soil in order to bring back essential nutrients and the microorganisms that will continue the nutrient cycle.

Once you have stabilized and enriched your soil with decayed organic matter, determine which plants to use for maximum wildlife value and garden success. The geology and landforms in this region (known as physiographic provinces), predominantly the Piedmont and the Coastal Plain, contain a mindnumbing variety of plants. Why not begin with plant communities, a simple guiding concept of habitat gardening in which the objective is to copy what exists naturally?

On page 72 you'll find samples of plant groups, natural communities that were part of the dominant historical landscapes of southeastern Pennsylvania. The plants that grow in these communities have evolved with each other over many thousands of years and complement each other's growth patterns and needs. Planted together, they will form a familiar structure, one that birds and other wildlife will recognize.

These sample packages provide a one-stop shopping list to begin a habitat garden and help connect to the natural environment of the region.



Decaying tree stump.



TREES

Northern red oak Quercus rubra Red maple Acer rubrum White ash Fraxinus americana

SHRUBS

Group A. Mixed hardwood Plant commit Smooth serviceberry Amelanchier laevis Witch-hazel Hammamelis virginiana

HERBACEOUS LAYER

False Solomon's seal Smilacina racemoso Ferns Droyopteris species

TREES

Red maple Acer rubrum Black gum Nyssa sylvatica Yellow birch Betula alleghaniensis Eastern hemlock Tsuga canadensis

SHRUBS

Highbush blueberry Vaccinium corymbos Winterberry llex verticillata Dogwood species Comus species HERBACEOUS LAYER

black gum plant community Skunk cabbage Symplocarpus foetidus Cinnamon fem Osumunda cinnamomea Sedges Carex species American dog violet Viola conspersa

Group C. Red maple

TREES

map

le plant community

Group B. Tuiptree-beech Red maple Acer rubrum Tuliptree Liriodendron tulipfera American beech Fagus grandifolia

SHRUBS

American hornbeam Carpinus caroliniana Flowering dogwood Cornus florida Spicebush Lindera benzoin

HERBACEOUS LAYER

Mayapple Podophyllum peltatum Dutchman's breeches Dicentra cucullaria Spring-beauty Claytonia virginica Blood-root Sanguinaria canadensis

Reference: Fike, J. (1999). Terrestrial and Palustrine Plant Communities of Pennsylvania. Pennsylvania Department of Conservation and Natural Resources.