

Home & Garden Mimeo # HG20

## Introduction to Herbaceous Perennials

### Using Perennials

Enthusiasm for perennials has been on the increase in this country since the late seventies. This is due in part to the wide selection of herbaceous perennials available today, their ornamental appeal and their ability to thrive with minimal care. Fortunately, there are many perennials that are not susceptible to insects and diseases which is another advantage in their favor. Many perennials offer a wide range of color, texture and form, all of which contribute to the beauty of a landscape. Many are also ideal for fresh cut or dried flowers. Perennials are indeed very appealing. They are best utilized as part of a total design incorporating trees and shrubs. A well-planned perennial border will provide that special seasonal interest that so many landscapes need.

To begin, follow a few basic design principles and add your imagination to create a visually rewarding garden. The following is a description of some basic principles used by professional designers that will help in the creation of a perennial garden with long-lasting seasonal interest. Don't be afraid to copy successful ideas that you like in other people's gardens.

### Seasonal Display and Color

The primary reason people grow flowering plants is for the color and beauty of their flowers. Next is for the form and texture of the foliage. Some perennial plants may be selected exclusively for their unique foliage interest. When it comes to color there are different aspects to consider when planning a perennial garden. Consider not only the blossoms but also the color of surrounding features such as the background, other plants, fences, etc. Color can also set moods for the observer. Consider a garden backed by evergreens or woodlands which would lose blue and purple colors in the foreground, but would look very striking with yellows, white or silver. For example, red, yellow and orange are bright, warm and cheering while blue and white are calming and cooling. A romantic old fashioned look is achieved with pastels. If uncertain about choice of a color, use a color wheel. There are basically three successful combinations.

### A Selection of Perennials for a Succession of Bloom

#### Early Spring (February - March)

Lenten Rose *Helleborus*

#### Late Spring (April-May)

Bergenia	<i>Bergenia</i>	Globeflower	<i>Trollius</i>
Barrenwort	<i>Epimedium</i>	Iris	<i>Iris</i>
Bleeding Heart	<i>Dicentra</i>	Lady's Mantle	<i>Polygonum</i>
Creeping Buttercup	<i>Ranunculus</i>	Lungwort	<i>Pulmonaria</i>
Candytuft	<i>Iberis</i>	Peony	<i>Paeonia</i>
Columbine	<i>Aquilegia</i>	Pinks	<i>Dianthus</i>
Coralbell	<i>Heuchera</i>	Poppy	<i>Papaver</i>
Gas Plant	<i>Dictamnus</i>	Sea Pink	<i>Dianthus</i>

#### Summer (June-August)

Japanese Anemone	<i>Anemone</i>	Coralbell	<i>Heuchera</i>
Stoke's Aster	<i>Stokesia</i>	Coreopsis	<i>Coreopsis</i>
Astilbe	<i>Astilbe</i>	Gas Plant	<i>Dictamnus</i>
Baby's Breath	<i>Gypsophila</i>	Goldenrod	<i>Solidago</i>
Balloon Flower	<i>Platycodon</i>	Ligularia	<i>Ligularia</i>
Butterfly Weed	<i>Asclepias</i>	Lupine	<i>Lupinus</i>
Cardinal Flower	<i>Lobelia</i>	Garden Phlox	<i>Phlox</i>
Black-eyed Susan	<i>Rudbeckia</i>	Perennial Sunflower	<i>Helianthus</i>
Shasta Daisy	<i>Chrysanthemum</i>	Yarrow	<i>Achillea</i>
Daylily	<i>Hemerocallis</i>		

#### Fall (September-Frost)

Hardy Ageratum	<i>Eupatorium</i>	Coralbell	<i>Heuchera</i>
Japanese Anemone	<i>Anemone</i>	Big Blue Lily Turf	<i>Liriope</i>
Aster	<i>Aster</i>	Mallow	<i>Malva</i>
Chrysanthemum	<i>Chrysanthemum</i>	Stonecrop	<i>Sedum</i>

**Monochromatic** - combines all shades of the same color.

**Complementary** - Includes colors that are exactly opposite such as blue with orange.

**Analogous** - colors that are next to each other on the color wheel such as all the shades of blue plus all the shades of violet, etc.

Two additional hints are helpful: white flowers and grey foliage are considered neutral and always blend easily with any other color; secondly, varying the intensity of different colors will also provide additional vitality. The nice thing about perennials is that even if the finished planting does not turn out exactly as you like, it is usually easy to transplant them to a new spot. Try to select plants that, when combined, will provide a succession of bloom throughout the season. This takes some thought because most perennials have a limited season of bloom. Also, annuals can be successfully integrated into the garden to provide bloom between the times when perennials are not in full bloom.

When developing the garden, avoid putting all of the plants that bloom at the same time in the same place. Instead, spread them out in groups to achieve balance in the garden. Intermixing plants according to their time of bloom may seem complicated, but the job is actually fairly simple if you draw the plan out on paper first. Of course changes can be made from year to year as you see any problems or you find new plants that you want to add.

### **Form and Texture**

Form and texture are characteristics of plants that many gardeners overlook when considering a perennial garden design. In reality, some plants are included in the garden solely for the texture of their foliage. Many of these types of plants include ferns, hostas, sedums and ornamental grasses.

Even blossoms will vary in form and texture, ranging from the delicate blossoms of baby's breath to the heavy coarse blossom of the foxtail lily. By choosing perennials with different forms and texture, the garden can become more interesting. Examples of different plant forms include: low ground hugging forms, tall spike types, arching types and rounded types. Some examples of texture include feathery leaved plants and coarse types with large bold foliage. It is best to contrast foliage forms next to each other for textural interest.

Some plants can provide interest with their uniquely patterned foliage or blossoms. These include spots, stripes or splotches of color on leaves or blossoms. Be careful not to overuse them because too much becomes distracting rather than complimentary to the design.

### **Maintenance**

Most perennials are tolerant of a range of soil types as long as they drain. Some perennials will even tolerate wet soils. Unlike annuals or vegetable gardens, perennial gardens are not tilled each year. Once planted they usually are not disturbed except for some routine care. Therefore, the initial work of incorporating liberal amounts of organic matter when the garden is planted will certainly pay off in the long run. Once the garden is established it requires minimal seasonal care. However, it is an important point that all gardens need some maintenance.

Basically, there are four tasks that should be performed on a regular basis throughout the growing season. These are: watering, weeding, fertilizing and removing spent blossoms. Occa-

sionally insect control is needed to protect the aesthetic quality of a plant, although insect pests seldom destroy the entire plant. Every 3 to 8 years most perennials will need dividing because they will have grown too crowded. Perennials that are too crowded have greatly reduced vigor and bloom. Division of perennials is usually done in early spring or fall. Some perennials need to be divided during a specific season. If uncertain about dividing then check one of the suggested references.

### **Watering**

In the absence of regular rainfall, irrigation will be very important during the first year the garden is established. Infrequent, deep irrigation is better than frequent shallow irrigation which only encourages shallow roots and will encourage weed growth. To avoid wasting water and spreading foliar diseases, apply the water with a hose or soaker hose directly to the soil in the early morning hours of the day. Dig into the soil to make sure that the soil is wet to a depth of six inches. Mulching will help to conserve soil moisture as well as reduce weed growth.

### **Weeding**

The best method for weed control is the use of an organic mulch, periodic hand pulling and to have the desirable plants shade as much of the ground (soil) as possible. Lay the mulch to a depth of 2 inches soon after planting. Cultivation is not desirable because it cuts many roots and brings dormant weed seeds to the surface. Another alternative for weed control is to apply a pre-emergent herbicide to kill the weeds as they germinate. You can select from different brands on the market. Follow the label instructions for rates of application. This technique should not be used in areas where seeds or very young transplants are grown. Wait until the plants are 4 to 6 inches tall before applying these chemicals.

### **Fertilization**

General purpose fertilizers are formulated in a combination of three primary nutrients: N, P, K. N represents the percentage of nitrogen, P is the phosphorus and K is the potassium. Fertilizers are helpful to correct nutrient deficiencies in the soil. Always start with a soil test to determine the soil's nutritional and liming needs. Plants consume soil nutrients as they grow and rainfall can deplete nutrients by leaching. To help monitor the changing nutrient levels in a perennial garden a soil test should be performed once every three years. Many perennials are very easy to grow on any average, well-drained soil without additional fertilization. However, additional feeding will yield much better results. Since perennials are flowering plants, a good source of phosphorus (ie 5-10-5) is beneficial for quality color and abundant blossoms.

Ordinary granular types of fertilizer should also be applied once a month throughout the growing season unless specified otherwise by the fertilizer's manufacturer. Another choice is a slow-release fertilizer which will provide a time-release feeding over a longer period of time. Powdered fertilizers, which are diluted in water, may be chosen. These are applied as a foliar treatment.

Some perennials actually produce better flowers under lower soil fertility and should not be fertilized regularly.

**Suggested References:**

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