Daylilies show how well-placed, colorful flowers can beautify golf courses.

FLOWER POWER ON THE GOLF COURSE

More golf courses are coming alive with colorful trees, shrubs, perennials and bulbs.

by Lois Berg Stack, Ph.D., University of Maine

A golf course is more than a broad swath of turf with plantings of trees and shrubs between fairways. More and more, today's modern golf course is being embellished with splashes of color—flowering trees and shrubs, and striking beds of flowering annuals, perennials and bulbs.

Annual flowers like geraniums and impatiens, perennials like Siberian irises and daylilies, and spring bulbs like daffodils and crocuses, have much to offer the golf course landscape.

The most obvious attribute is color. Flowers offer an endless array of shades, hues and tints from the crocuses of early spring through the chrysanthemums of late fall.

A second attribute is variety. Flowers vary tremendously in texture, color, size, shape, habit, season of flowering and foliage interest.

A third and perhaps more subtle attribute of flowers is the effect of their variety on the landscape. Flowers change dramatically from one season to the next. A landscape of trees and shrubs can be quite constant, particularly if they are evergreen. But a landscape that contains flowers changes constantly.

Each season has its own look: a touch of color brightens the spring landscape; full color develops in summer; textures emerge in autumn; and the color of flowers gives way to the architecture of trees and shrubs in winter. This change can be a great asset on a golf course, relieving the monotony of looking at the same view from one
Annual vinca is an ideal flower for the golf course because it produces flowers all season yet requires almost no maintenance.

**PLAN BEFORE YOU PLANT**

Hardiness is the first consideration when choosing flowers for the golf course.

This is not a factor in choosing annuals, but it is the single most important factor in selecting perennials and bulbs. Visit perennial nurseries and observe public and residential plantings to see what plants are reliably hardy in your area. Check with a landscaper, garden designer, or long-time local gardener.

Catalogs can be quite misleading, since they classify plants by generalized hardiness zones. Be aware that some “hardy” plants require mulching over the winter to survive, while others are reliably hardy with no protection at all.

Match the flowers to the environment. There is a flower for every location, from dry shade to wet sun, but there is no single flower that is adaptable to all environments.

Consider soil factors such as pH, soil temperature, nutrient levels, moisture levels and drainage; temperature factors such as frost dates, reflection of heat off buildings, and diurnal fluctuation; light factors such as intensity and duration of sunlight; wind; precipitation; and problems such as insects, weeds and diseases. Remember the old rule: choose the right plant for the location, because it’s hard to change a location for a plant.

Select plants that are rated “low-maintenance.” Remember that low maintenance does not mean no maintenance. Most flowers require more work than trees and shrubs. Still, with all the annuals, perennials and bulbs that are available, you can easily avoid those that require almost constant care.

Aim for full-season annuals that will provide maximum color all season, and long-lived perennials and bulbs that will perform well for many years.

Also, consider how long and at what time of year flowers are effective. Some annuals, like impatiens, flower the whole season with very little if any maintenance. Most perennials, on the other hand, flower for less than a month, but may have excellent foliage all season. Match your needs with what the plant offers.

Finally, always consider function before beauty. Remember that a golf course exists above all for the game of golf. Flowers should not interfere with the game. Flower beds and borders should be placed near the clubhouse where the public can observe their beauty, or between holes and out of play. You might want to concentrate your flowerbeds in one or two areas of the course, to maximize your crew’s efficiency.

On the other hand, the course can be beautified through the judicious placement of low-maintenance bulbs and perennials among shrub and tree borders, along fences and near benches.

—Dr. Stack

**Perennials or bulbs?**

Perennials need less labor, but they are generally more expensive per plant, and each perennial provides color for a limited number of weeks each season.

Flowering bulbs extend the season of color by flowering before most other plants, but they offer a limited period of effect, and many do not perform well after the first season.

The challenge facing golf course superintendents is selecting plants that give the greatest impact for the least amount of money and labor. Choose plants of good quality and plant them correctly to insure success. Design flower beds that are effective and yet do not interfere with the game. With the variety of plants available, this can be quite a challenge.

The accompanying chart of annuals, perennials and bulbs lists reliable flowers for golf courses. These plants were selected for their outstanding color for extended periods, durability throughout the season, lack of disease and insect problems, general low maintenance and availability. The suggested cultivars are not an exhaustive list, but they have proved to be successful in open landscape settings like golf courses.

**Find a reliable source**

After you have selected individual flowers for golf course gardens, select a source of plants. Whenever possible, buy locally to insure that the plants will be adaptable to your general location, and visit the production site before placing an order.

Inspect the plants. They should be compact, well-branched and vigorous. The plants should also be uniform. If looking at a flat of annuals, for example, they should be of the same height, vigor, color, general size and stage of development. A flat of variable-sized plants is hard to interpret. Are some of the plants just not as vigorous as others? Or did some plants get more fertilizer than others? Whatever the reason, if the plants are not uniform in the flat, they will probably not be uniform in the landscape.

One last factor to look at is plant health. Good foliage color is a sign of a good fertilizer regime. Pale green leaves may be a sign of low nitrogen. Yellowish, weak foliage can indicate overwatering. Check the plants’ roots to make sure they are vigorous and white. Look for new growth and vigor.

**Prepare to plant!**

Prepare garden areas well by testing the soil and amending it as needed. If
you are using a pre-emergence herbicide, rototill and rake out the bed, you are using a pre-emergence her-
bage when new roots grow into the soil layer. It is important that plants get off to a
avoid the stress of midday sun.

Many transplants suffer root dam-
age when new roots grow into the soil layer contains herbicide granules. It is
important that plants get off to a
best root system development. The
first style of flower bed, and
which lends great impact to the
landscape, is a free-standing garden of
one annual, such as geraniums or can-
nas, surrounded by a lower-growing an-
nual such as sweet alyssum or dusty
miller. The design might be round, oval,
star-shaped or free-form. The plant ma-
material list is almost endless.

A second style of annual flower
bed is just as simple, but perhaps
elegant. Use annuals to accentu-
called, it will be harder to plant and
maintain, and people will have to
study it to appreciate it (it’s not always
appropriate to have people stopping
along the paths on a golf course).

A more sophisticated style of
garden uses both annuals and peren-
nials. The annuals in such a garden
insure good color all season, while the
use of perennials reduces the planting
labor each year. Also, the use of a pe-
renial that flowers either early or
in the season increases the length of
time the garden produces color.

Whenever possible, buy locally to
insure that the plants will be
adaptable to your

One effective combination is a
garden with Siberian iris in the back-
round, daffodils planted in front of the
iris and annuals planted in the front.
Another combination, to be planted at
the edge of a wooded area, is shade-
tolerant daffodils, with hostas behind
them and impatiens in front.

Remember that there are no limits,
except for your imagination. Visit
public gardens and read gardening
and landscape books for inspiration.
Develop a list of reliable plants, and
add a few “experimental” items each
year.

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mental horticulture and associate professor
of landscape horticulture at the University of
Maine.

<table>
<thead>
<tr>
<th>Botanical name¹</th>
<th>Common name</th>
<th>Cultivars — height, color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tall annuals (over 30&quot; tall):</td>
<td>Canna x generalis</td>
<td>Canna</td>
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<tr>
<td>Canna x generalis</td>
<td>Spider Flower</td>
<td>Helen Campbell — 48&quot;, white</td>
</tr>
<tr>
<td>Cleome hassleriana</td>
<td>&quot;Spider Flower&quot;</td>
<td>Gold Coin — series — 36&quot;, gold, yellows</td>
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<tr>
<td>Tagetes erecta</td>
<td>&quot;African Marigold&quot;</td>
<td>&quot;Summer Pastels&quot; — 24&quot;, pastels</td>
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<tr>
<td>Coreopsis hybrid</td>
<td>&quot;Coreopsis&quot;</td>
<td>Early Sunrise — 18&quot;, gold</td>
</tr>
<tr>
<td>Impatiens walleriana</td>
<td>&quot;Impatiens&quot;</td>
<td>Super Elin' — series — 10&quot;, various</td>
</tr>
<tr>
<td>Nicotiana alata</td>
<td>&quot;Flowering Tobacco&quot;</td>
<td>Nicki — series — 24&quot;, red, pink, white</td>
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<tr>
<td>Oenothera biennis</td>
<td>&quot;Evening Primrose&quot;</td>
<td>Purple Ruffles — 20&quot;, dark purple Ivs</td>
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<tr>
<td>Pelargonium x hortorum</td>
<td>&quot;Geranium&quot;</td>
<td>Orbit — series — 18&quot;, various</td>
</tr>
<tr>
<td>Tagetes erecta</td>
<td>&quot;African Marigold&quot;</td>
<td>Ringo — series — 18&quot;, various</td>
</tr>
<tr>
<td>Low-growing annuals (under 12&quot; tall):</td>
<td>Begonia x semperflorens</td>
<td>&quot;Wax Begonia&quot;</td>
</tr>
<tr>
<td>&quot;Begonia x semperflorens&quot;</td>
<td>&quot;Wax Begonia&quot;</td>
<td>Many cvs — 8-12&quot;, pinks, white</td>
</tr>
<tr>
<td>Cataranthus roseus</td>
<td>Annual Vinca</td>
<td>'Little' — series — 10&quot;, pinks, white</td>
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<tr>
<td>Chrysanthemum x superbum</td>
<td>Shasta Daisy</td>
<td>'Snow Lady' — 10&quot;, white</td>
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<tr>
<td>Lobularia maritima</td>
<td>&quot;Sweet Alyssum&quot;</td>
<td>'Wonderland' — series — 4&quot;, pinks, white</td>
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<tr>
<td>Sanvitalia procumbens</td>
<td>&quot;Creeping Zinnia&quot;</td>
<td>Mandarin Orange — 10&quot;, orange</td>
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<tr>
<td>Senecio cineraria</td>
<td>&quot;Dusty Miller&quot;</td>
<td>Silver Lace — 8&quot;, lacy silver Ivs</td>
</tr>
<tr>
<td>Tagetes patula</td>
<td>&quot;French Marigold&quot;</td>
<td>Boy — series — 6&quot;, golds, yellows</td>
</tr>
</tbody>
</table>

¹ All plants listed perform best in full sun unless otherwise noted.
² These specific cultivars of these perennials flower well their first season, and are excellent when treated as
annuals. They may overwinter, depending on location. Most other cultivars of these are perennials, and do not
flower well their first season in the garden.
³ These plants do well in full sun or partial shade.
⁴ These plants perform best in partial shade.