Control T&O

Invasive weeds spreading into turf or ornamental beds can wreak havoc on your control strategies. Here are the products that work well in both locations, without harming non-target plants.

'crossover' weeds

Are you frequently responsible for maintaining both lawn areas as well as landscape ornamental beds on the same property? Weed control is a major maintenance concern for both of these areas. In some cases, you might be dealing with the same weed species in turf as well as in tree, shrub and flower bed areas.

The tendency for creeping perennials to move from one area to the other can make the success of a weed management program in lawns have an impact on weed severity in beds, and vice versa. Also, certain weed species will be more common in one area or the other.

Ideally, you would probably like to use the same weed control program in both areas. This is especially important in regards to chemical control. Weed control programs would be much simpler if you could use the same products in both lawns and beds. You could purchase fewer products and would be less concerned about plant injury.

As you plan ahead for next year’s control programs, remember some product crossover is possible for certain herbicides but not for others. Some herbicides used in lawns would injure ornamentals. Alternatively, certain herbicides well tolerated by ornamentals can injure turfgrass. If you
As you plan ahead for next year’s control programs, remember that some product crossover is possible for certain herbicides, but not for others.

treat both of these areas, you should know the tolerance of turf and ornamentals to the herbicides being used. You may actually favor one product over another if greater safety exists in both lawns and beds. By knowing plant tolerance, you can use extra caution when applying herbicides that, potentially, could cause injury in non-target plants.

Crossover weeds to watch

Some weed species cannot tolerate mowing, so they will be more common in ornamental beds. Other species thrive when mowed, and are less common in beds. Goosegrass, for example, is more troublesome in turf. Common groundsel is primarily an ornamental bed weed. However, many of the weed species landscape firms must control are found in both lawns and nursery beds.

Several of our most common weed species infest both lawns as well as flower and shrub beds:

- Large crabgrass is a common summer annual grass in lawns and ornamental beds.
- annual bluegrass is a winter annual growing in a variety of locations;
- spotted (prostrate) spurge is a summer annual common in turfgrass and ornamentals;
- common chickweed is a winter annual infesting both areas;
- creeping perennial grasses, such as bermudagrass and quackgrass, will invade lawns and beds and spread from one area to the other;
- yellow nutsedge (a perennial sedge) is a troublesome weed that spreads vegetatively;
- wild onion and wild garlic are difficult to control in ornamentals and turf;
- dandelion is a simple perennial that grows in a range of sites; and

warm-season grasses but not cool-season ones. Certain herbicides can be used in woody ornamentals (trees and shrubs) but not on herbaceous species like bedding plants and perennial flowers.

Preemergence annual grass control

A number of chemicals can be used to control annual grasses like crabgrass, foxtails and goosegrass in both lawn areas as well as ornamentals. Most in this class are root inhibitors. Once a lawn or an ornamental has a well established root system, they will tolerate these products quite well.

Preemergents that can be used on turfgrass and both herbaceous and woody ornamentals include: pendimethalin (Pendulum, others); benisulide (Betasan); benefin plus trifluralin (Team Pro); and dithiopyr (Dimension). DCPA (Dacthal) also fits this group but is no longer available.

There are advantages to selecting of one of these chemicals. You can purchase one chemical for preemergence crabgrass control and apply it to lawns as well as flowerbeds, trees and shrubs. A good choice would be a granular formulation of one of these products. Sprayable formulations of certain herbicides can cause stunting in certain annual flowers.

Oryzalin (Surflan) can be applied to many ornamentals, as well as to warm-season turfgrass species. Granular formulations of oxadiazon (Ronstar 2G) can be applied to many woody ornamentals, as well as a range of turfgrass species. The list of labeled species is more limited for the wettable powder formulation of oxadiazon, due to the greater injury potential in ornamentals and turfgrass species.

Postemergence grass controls

There are few herbicides that can be
COMPARISON OF CHEMICAL WEED CONTROL STRATEGIES IN LAWNS AND ORNAMENTAL BEDS.

Is Selective Control Possible?

<table>
<thead>
<tr>
<th>WEED GROUP</th>
<th>PREemergence</th>
<th>POSTemergence</th>
</tr>
</thead>
<tbody>
<tr>
<td>TURF</td>
<td>ORNAMENTALS</td>
<td>SIMILAR</td>
</tr>
<tr>
<td>TURF</td>
<td>ORNAMENTALS</td>
<td>SIMILAR</td>
</tr>
<tr>
<td>Annual grasses</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Annual broadleaves</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Perennial grasses</td>
<td>No</td>
<td>Limited</td>
</tr>
<tr>
<td>Perennial broadleaves</td>
<td>No</td>
<td>Limited</td>
</tr>
<tr>
<td>Yellow nutsedge</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Wild garlic</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

used in both lawns and ornamentals for postemergence grass control. Dithiopyr will control emerged crabgrass in both situations, but it will not control emerged plants of most other weedy grasses. Fenoxaprop (Acclaim Extra) can be applied to many broadleaf ornamentals and can also be used in certain cool-season grasses to control emerged annual grasses, as well as to suppress bermudagrass.

There are several other postemergence grass herbicides that can be used in broadleaf ornamentals. Most turfgrass species will not tolerate these compounds, but there may be a degree of tolerance in specific turfgrass species. For example, fluazifop (Fusilade/Ornamec) can be applied to a wide range of broadleaf ornamentals and can also be used in tall fescue. However, application rates are much less for tall fescue due to the limited tolerance to this herbicide.

Handling broadleaf problems

Preemergence — Isoxaben (Gallery) can be applied to many turfgrass species, as well as woody ornamentals and certain herbaceous perennials. Isoxaben controls annual weeds such as common chickweed that infest lawns and beds. It also controls weeds like dandelion and plantain from seed, but will not control established plants of these perennials. Simazine (Princep) can be used in certain warm-season grasses and in selected trees and shrubs for preemergence broadleaf control. The preemergence crabgrass herbicides listed above will also control some broadleaf weeds from seed.

Postemergence — Most herbicides used for postemergence broadleaf control in turf cannot be used in ornamentals due to potential for severe injury. Clopyralid (Lontrel) can be used in turf, as well as a limited list of ornamentals. It controls members of the legume and composite families and therefore must be kept away from species such as locust, redbud and sunflowers. Imazaquin (Image) can be applied to certain warm-season turfgrass species, as well as a limited number of woody ornamentals. Imazaquin will injure cool-season turfgrass species, as well as many ornamental species. Besides controlling broadleaf weeds, imazaquin will suppress sedges, wild onion and wild garlic.

Nutsedge, garlic problems

Yellow nutsedge — In most cases, yellow nutsedge cannot be controlled preemergently in turf. Halosulfuron (Manage) and bentazon (Basagran) can be used in a wide range of turfgrass species for postemergence yellow nutsedge control. Both of these chemicals can be used as a directed spray in established woody ornamental species. Take care when applying halosulfuron or bentazon around ornamentals, as injury can occur in some species.

Wild onion/wild garlic — There are no herbicides providing selective control of these two weeds that can be used in both cool-season grasses and ornamentals.

As you can see, you have several options for controlling weeds in lawns and ornamental beds with the same herbicide. Check the respective label to ensure that the species you will be treating tolerates that herbicide.

The author is professor of weed science for Virginia Tech, Virginia Beach, VA.