Postemergence Weed Control in Landscapes:
What do I need to know?

- Weed Species
- Ornamental species (and occasionally the cultivar)
- Available options

Postemergence Weed Control “Tools”

- Labor
- Selective Herbicides
- Non-Selective Herbicides
  - Directed applications
  - Wiper applications

Postemergence Weed Control “Tools”

- Labor
  - Well, it looked like a weed to me

Hand Weeding and Hoeing

- Seedling weeds controlled
- Not effective for perennial weeds

Selective Postemergence Weed Control

- Grass control
- Sedge control
- Limited broadleaf weed control options

POST grass control

- Selective control of most annual and perennial grasses in most ornamental beds
Postemergence Control of Weedy Grasses

**Selective** (physiological selectivity)
- Acclaim, Envoy, Fusilade, Vantage

**Non-Selective** (positional selectivity)
- Contact: Reward, Scythe
- Systemic: Finale, Roundup-Pro

Postemergence Gramicinicides

- **Aryloxyphenoxy propionate (FOPS)**
  - fenoxaprop (Acclaim)
  - fluazifop (Fusilade & Ornamec)

- **Cyclohexanedione (DIMS)**
  - sethoxydim (Vantage and Poast)
  - clethodim (Envoy)

Acclaim Extra

- **Class:** FOP
- **AI:** fenoxaprop-p
- **Controls** summer annual grasses
- **Does not control** sedges or perennial grasses or annual bluegrass
- **Used mainly in turf**
  - clethodim (Envoy)
  - sethoxydim (Vantage)

Fusilade

- **Class:** FOP
- **AI:** fluazifop-p
- **Controls** annual and perennial grasses
- **Does not control** sedges or annual bluegrass
- **Weak on** some fescues, Sweet Vernal Grass,

Vantage

- **Class:** DIM
- **AI:** sethoxydim
- **Controls** annual and perennial grasses
- **Does not control** sedges or annual bluegrass
- **Weaker on** perennial grasses

Envoy

- **Class:** DIM
- **AI:** clethodim
- **Controls** annual and perennial grasses – including annual bluegrass and fescue
- **Does not control** sedges
### POST Graminicides Compared

<table>
<thead>
<tr>
<th>Trade Name</th>
<th>Active Ingredient</th>
<th>Rate #/A</th>
<th>Rate oz/1000</th>
<th>Adjuvant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acclaim</td>
<td>fenoxaprop</td>
<td>0.12-0.35</td>
<td>0.34-1</td>
<td>None</td>
</tr>
<tr>
<td>Envoy</td>
<td>clethodim</td>
<td>0.06-0.33</td>
<td>0.2-0.8</td>
<td>0.25%</td>
</tr>
<tr>
<td>Fusilade II</td>
<td>flurazifop-py</td>
<td>0.13-0.25</td>
<td>0.8-1</td>
<td>0.25% nonionic</td>
</tr>
<tr>
<td>Vantage</td>
<td>sethoxydim</td>
<td>0.25-0.5</td>
<td>0.8-1.4</td>
<td>None</td>
</tr>
</tbody>
</table>

### Crabgrass Control
- Any of the POST graminicides will work.
- Vantage > Fusilade = Envoy > Acclaim
- Early applications work better

### Perennial grass control:
- Fusilade = Envoy > Vantage

### Envoy is the only POST graminicide that controls annual bluegrass

<table>
<thead>
<tr>
<th>Recommended Application Times for Optimum Control with Graminicides</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td>Annual bluegrass</td>
</tr>
<tr>
<td>Downy brome</td>
</tr>
<tr>
<td>Crabgrass</td>
</tr>
<tr>
<td>Johnsongrass</td>
</tr>
<tr>
<td>Bermuda</td>
</tr>
<tr>
<td>Quackgrass</td>
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</table>
POST Graminicide Safety on Ornamentals

<table>
<thead>
<tr>
<th>Ornamental</th>
<th>Acclaim</th>
<th>Fusilade</th>
<th>Impulse</th>
<th>Vantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junipers</td>
<td>Dir*</td>
<td>Dir*</td>
<td>OT</td>
<td>OT</td>
</tr>
<tr>
<td>Bar Harbor Jun.</td>
<td>No</td>
<td>No</td>
<td>OT</td>
<td>OT</td>
</tr>
<tr>
<td>Azalea</td>
<td>OT</td>
<td>Dir*</td>
<td>OT</td>
<td>OT</td>
</tr>
<tr>
<td>Vinoe minor</td>
<td>OT</td>
<td>OT</td>
<td>ot</td>
<td>OT</td>
</tr>
<tr>
<td>Begonia</td>
<td>OT</td>
<td>OT*</td>
<td>ot</td>
<td>OT</td>
</tr>
<tr>
<td>Pussy</td>
<td>?</td>
<td>?</td>
<td>OT</td>
<td>OT*</td>
</tr>
<tr>
<td>Blue Zones</td>
<td>OT</td>
<td>No</td>
<td>No</td>
<td>OT</td>
</tr>
</tbody>
</table>

OT = Over the Top; Dir = Directed appl.; * = on certain varieties

POST Gramicinides Can Injure Ornamentals

Fusilade injures Bar Harbor juniper

Temperature & Moisture conducive to actively growing weeds
Optimum timing (growth stage & season)
Select the best product for the weed species
Use recommended dose & adjuvant
No rainfall within 1 hr of application
Uniform application - calibrated treatments