

## Postemergence Weed Control in Landscapes:

What do I need to know?

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

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## Postemergence Weed Control “Tools”

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

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## Postemergence Weed Control “Tools”

- ✧ Labor



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## Hand Weeding and Hoeing

- ✧ Seedling weeds controlled
- ✧ Not effective for perennial weeds

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## Selective Postemergence Weed Control

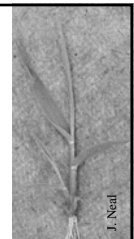
- ✧ Grass control
- ✧ Sedge control
- ✧ Limited broadleaf weed control options

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## POST grass control



- ✧ Selective control of most annual and perennial grasses in most ornamental beds



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## Postemergence Control of Weedy Grasses

- ✦ Selective (physiological selectivity)
  - Acclaim, Envoy, Fusilade, Vantage
- ✦ Non-Selective (positional selectivity)
  - Contact: Reward, Scythe
  - Systemic: Finale, Roundup-Pro

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## Postemergence Graminicides – Classifications –

- ✦ Aryloxyphenoxy propionate (FOPS)
  - fenoxaprop (Acclaim)
  - fluazifop (Fusilade & Ornamec)
- ✦ Cyclohexanedione (DIMS)
  - Sethoxydim (Vantage and Poast)
  - Clethodim (Envoy)

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## 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)

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## 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,

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## Vantage

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

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## Envoy

- ✦ Class: DIM
- ✦ AI: clethodim
- ✦ controls annual and perennial grasses – including annual bluegrass and fescue
- ✦ Does not control sedges

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## POST Graminicides Compared

Trade Name	Active Ingredient	Rate # ai/A	Rate oz/1000	Adjuvant
Acclaim Extra	fenoxaprop	0.12-0.35	0.34 - 1	None
Envoy	clethodim	0.06-0.25	0.2 - 0.8	0.25% Nonionic
Fusilade II	fluzifop-p	0.13-0.25	0.8 - 1	0.25% Nonionic
Vantage	sethoxydim	0.25 - 0.5	0.8 - 1.4	None

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## POST Graminicides Compared

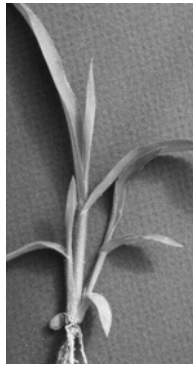
Grass	Acclaim	Envoy	Fusilade	Vantage
S.A. grasses	G	G-E	G-E	G-E
annual bluegrass	P	G	P-F	P-F
downy brome	?	F-G	F-G	?
bermudagrass	P	G	G	F-G
johnsongrass	G-E	G-E	G-E	G
quackgrass	P	G	G	F-G

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## Crabgrass Control

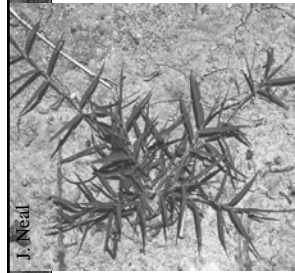
- Any of the POST graminicides will work.
- Vantage > Fusilade = Envoy > Acclaim

Early applications work better



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## Perennial grass control: Fusilade = Envoy > Vantage



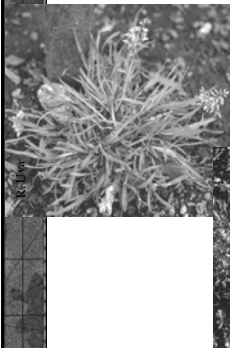
bermudagrass



johnsongrass

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- Envoy is the only POST graminicide that controls annual bluegrass



Un-Treated

Treated

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## Recommended Application Times for Optimum Control with Graminicides

Weed	Recommended	Alternative
Annual bluegrass	mid - fall	mid-spring
Downy brome	mid - fall	mid-spring
Crabgrass	1-tiller	up to 5 tillers
Johnsongrass	Spring ~6 in. new growth)	Late summer
Bermudagrass	Late spring ~ 4-6 in. new	Summer, actively growing
Quackgrass	Spring ~6 in. new growth	Late summer

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## POST Graminicide Safety on Ornamentals

Ornamental	Acclaim	Fusilade	Envoy	Vantage
Junipers	Dir*	Dir*	OT	OT
Bar Harbor Jun.	No	No	OT	OT
Azalea	OT	Dir*	OT	OT
Vince minor	OT	OT	ot	OT
Begonia	OT	OT*	ot	OT
Pansy	?	?	OT	OT*
Blue fescue	OT	No	No	OT

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

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## POST Graminicides Can Injure Ornamentals

Fusilade injures Bar Harbor juniper



Vantage on Birch – young spring buds

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## Getting the Most Out of Postemergence Graminicides

- ✦ 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

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