

Using Chemicals for Weed Control and Bermudagrass Suppression During Fall Overseeding

Kai Umeda

University of Arizona
Cooperative Extension

Herbicides as a Tool

- Weed control
 - ◆ Preemergence control of winter weeds
- Growth regulator
 - ◆ Suppress/reduce growth of bermudagrass

Weed control

- Preemergence control
 - ◆ Preventive control of weeds before germinating or emerging
- Postemergence control
 - ◆ Control established weeds

Weed control

■ Problem weeds

◆ Winter annual weeds

◆ *Poa annua*

◆ Broadleaved weeds

- London rocket, shepherd's purse
- Swinecress, sowthistle, clovers

London rocket



Shepherdspurse



Poa annua control

- Preemergence control
 - ◆ “yellow” herbicides (DNA’s)
 - ◆ Barricade*, Pendulum*, Surflan*
 - ◆ “Fungicide”
 - ◆ Rubigan*
 - ◆ Triazine herbicides
 - ◆ Sencor*
 - ◆ Others
 - ◆ Ronstar*, Dimension*

Preemergence *Poa* control

- Barricade* (prodiamine) program
 - ◆ 0.38 to 0.65 lb AI/A
 - ◆ 6 to 8 weeks **before** overseeding
 - ◆ Followed by second application at 4-8 weeks after overseeding

Preemergence *Poa* control

- Rubigan* (fenarimol) program
 - ◆ Begin applying before germination
 - ◆ 12 oz/1000 sq ft total limitation
 - ◆ 2 applications of 6 oz/1000 sq ft
 - ◆ 2 weeks before ryegrass overseed
 - ◆ 3 applications of 4 oz/1000 sq ft
 - ◆ 30 days before *P. trivialis* overseed
 - ◆ Applications at 14 days apart

Growth regulator

- Reduce competition from bermudagrass

Growth regulator

- Turflon* ester (triclopyr)
 - ◆ Apply 4-10oz/A before overseeding
 - ◆ Overseed perennial ryegrass at minimum of 400 lb/A
 - ◆ 3 to 4 additional applications at 4 week intervals may be needed to suppress bermudagrass

Growth regulator

- PrimoMaxx* (trinexapac)
 - ◆ Apply 0.5 oz/1000 sq ft
(0.25 oz/1000 sq ft on golf greens)
 - ◆ Apply before verticutting or scalping
 - ◆ Apply 1 to 5 days before overseeding

Growth regulator

■ Dessiccant herbicides

- ◆ Reward* herbicide (diquat)

 - ◆ Apply 1 to 2 pt/A

- ◆ Scythe* herbicide (pelargonic acid)

 - ◆ Use 5 to 10% spray solution

Weed Control After Winter Turf Emergence and Establishment

■ *Poa* control

◆ Prograss* (ethofumesate)

- ◆ Apply 1 to 2 weeks after rye emergence
- ◆ Apply when bermudagrass IS dormant
- ◆ 1 or 2 additional applications at 21 to 28 day intervals
- ◆ Last application on February 1 or 4 weeks before breaking dormancy

Weed Control in Non-Overseeded Bermudagrass

- *Poa* and other winter annuals
 - ◆ Pendulum* (pendimethalin)
 - ◆ Surflan* (oryzalin)
 - ◆ Ronstar* (oxadiazon)
 - ◆ Dimension* (dithiopyr)
- Broadleaved weeds
 - ◆ Sencor* (metribuzin)
 - ◆ Gallery* (isoxaben)

Weed Control in Non-Overseeded Bermudagrass

- Postemergence weed control in DORMANT bermudagrass
 - ◆ Glyphosate (Roundup*, etc.)
 - ◆ Reward* (diquat)
 - ◆ Finale* (glufosinate)

New Products on the Horizon

- Velocity* (Valent)
 - ◆ Postemergence *Poa* control
 - ◆ Multiple applications
 - ◆ Timing sensitive

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■ <http://cals.arizona.edu/turf/>