Using Chemicals for Weed Control and Bermudagrass Suppression During Fall Overseeding

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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
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

- Dessicant 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* (glufonsinate)
New Products on the Horizon

- Velocity* (Valent)
  - Postemergence *Poa* control
  - Multiple applications
  - Timing sensitive
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Turf Research, Extension, and Education Website

http://cals.arizona.edu/turf/