**Poa annua** Control in Non-Overseeded Warm-Season Turf

**Poa annua Biology** — *Poa annua* is primarily a winter annual grassy weed. *Poa annua* seed begins to germinate when soil temperatures drop below 80°F in late summer and fall, and the plants mature and live through the winter. *Poa annua* produces most of its seedheads in the spring, but some seedheads may be found anytime it is actively growing. Dormant seed can remain viable in the soil for several years. *Poa annua* can persist under low mowing heights and is capable of surviving and growing with a very shallow root system. It is especially adaptable in fine textured soils with a pH of 5.5–6.5 and a high phosphorous content. There are many different biotypes or cultivars of *Poa annua* that adapt to different environmental conditions. Some biotypes can persist as a weak perennial rather than a true winter annual. It is common to find a mixture of different biotypes in the same general area.

**Poa annua** Cultural Control Methods

Develop a dense, healthy turf to reduce sunlight at the soil surface (sunlight is critical for *Poa annua* seed germination). Aerify soils to reduce compaction; however, try to avoid aerification in the fall when *Poa annua* seed will be brought to the soil surface. Keep soil phosphorous levels in the low to medium range as phosphorous is essential for seedling establishment. While cultural practices can reduce *Poa annua*, herbicides are needed for superior control.

**Option 1 — Barricade® 65WG**

Barricade 65WG is a dinitroaniline (DNA) pre-emergent herbicide that controls *Poa annua* and other winter annual weeds by inhibiting root and shoot development of germinating seeds. The active ingredient, prodiamine, has very low water solubility and stays active in the seed germination zone longer than other pre-emergent herbicides. Once activated, it stays in the upper 0.5 inch of the soil with no leaching or lateral movement. Unlike some pre-emergent herbicides, Barricade does not stain, saving cleanup time.

- Apply 1.5 lbs of Barricade 65WG per acre between August 1 and September 1 in the transition zone.
- Water in with 0.5 inches of irrigation within 14 days of application if no rainfall has occurred after application.
- Under normal weather conditions, Barricade 65WG should provide acceptable control and require no further treatment until time for the spring crabgrass application.

**Option 2 — Barricade 65WG + Princep® Liquid**

Princep Liquid contains the active ingredient simazine and offers pre-emergent control of winter annual weeds. The key advantages of tank mixing Barricade 65WG and Princep Liquid are extending the window of application and increasing the spectrum of weeds controlled.

- Apply 1.15–1.5 lbs of Barricade + 1–2 quarts of Princep Liquid per acre as a tank mix.
- Apply the products between October 1 and December 15 in the transition zone.
- Water in with 0.5 inches of irrigation within 10 days (Princep Liquid requires watering in sooner than Barricade) of application if no rainfall has occurred after application.
- Do not apply where surface water can move across greens, overseeded tees, or any areas containing desirable cool season grasses.
- Under normal weather conditions, Barricade 65WG + Princep Liquid should provide acceptable control and require no further treatment until time for crabgrass application in the spring.
Option 3—Barricade 65WG Followed by Princep Liquid, Touchdown® PRO, or Reward® Landscape and Aquatic Herbicide

Touchdown PRO is a non-selective post-emergent herbicide that contains 3 pounds of glyphosate acid as a diammonium salt per gallon. Reward is a non-selective post-emergent herbicide that contains the active ingredient diquat dibromide.

- Apply 1.15–1.5 lbs of Barricade 65WG per acre between August 1 and September 1 in the transition zone.
- Water in Barricade 65WG with 0.5 inches of irrigation within 14 days of application if no rainfall has occurred after application.
- Apply Princep Liquid, Touchdown PRO, or Reward after bermudagrass becomes dormant.
  - Apply Princep Liquid at 1–2 quarts per acre.
  - Apply Touchdown PRO at 0.5-4.0 pints in 10 to 40 gallons of water per acre.
  - Apply Reward at 1–2 pints per acre in 20–100 gallons of spray mix. Add the labeled rate of a 75% or greater non-ionic surfactant per 100 gallons spray mixture.

Option 4—Barricade on Fertilizer

- The rate should equal 1.0 lb of Barricade active ingredient per acre.
- Good Poa annua control requires uniform coverage of the treated area.
- Barricade coverage is dependent on the particle size and product rate per acre.
- A maximum size guide number (SGN) of 150 and a minimum of 150 lbs/acre of fertilizer containing Barricade should allow for optimum coverage.
- Apply Barricade on fertilizer between August 1 and September 1 in the transition zone.
- Water in with 0.5 inches of water within 14 days of application if no rainfall has occurred after application.

Option 5—Barricade on Fertilizer Followed by Princep Liquid, Touchdown PRO, or Reward Landscape and Aquatic Herbicide

- The rate should equal 0.75–1.0 lb of Barricade active ingredient per acre.
- Apply Barricade on fertilizer between August 1 and September 1 in the transition zone.
- Use the similar SGN and rate as in Option 4.
- Apply Princep Liquid, Touchdown PRO, or Reward after bermudagrass becomes dormant, as in Option 3.

Poa annua Control

- Cultural practices can reduce Poa annua
- Herbicides needed for superior control
- Five treatment options, for application flexibility

Call 1-800-395-8873 to contact your local Syngenta turf and ornamental sales representative and learn more about Barricade, Princep Liquid, Reward, and Touchdown PRO.