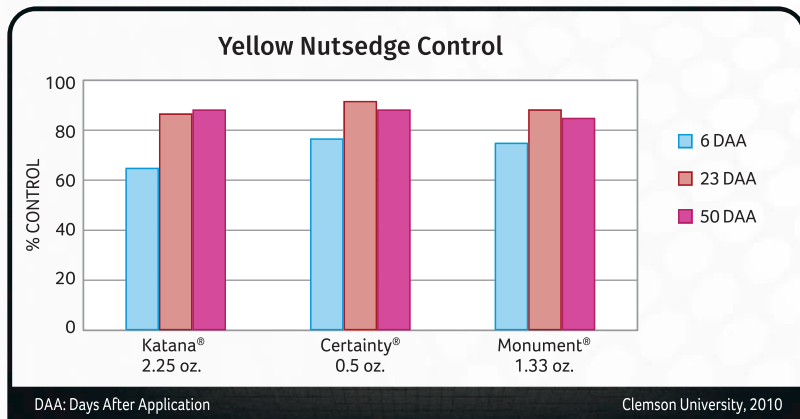
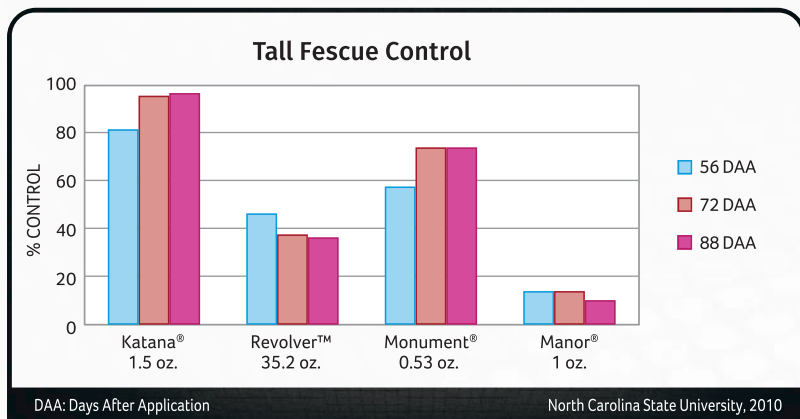
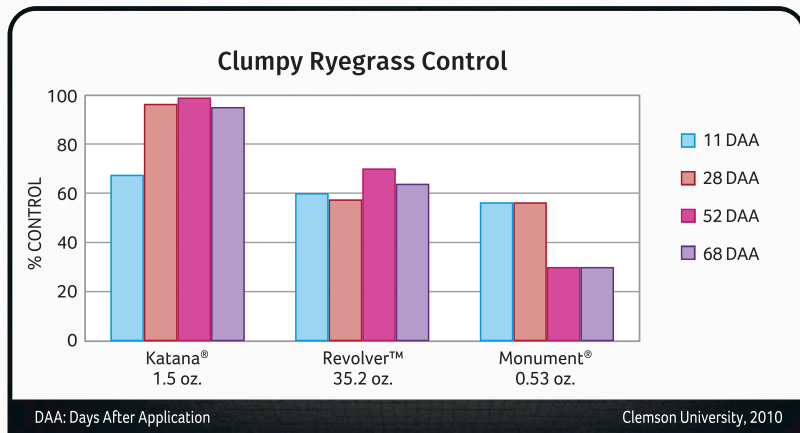
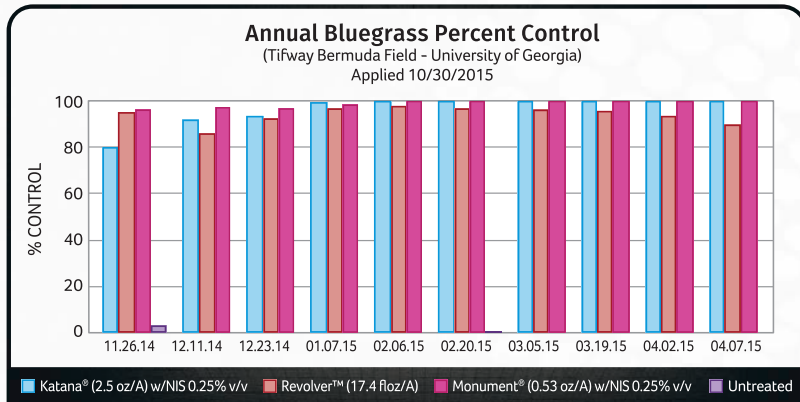


Performance Data



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November 2016

Introduction

Katana® Turf Herbicide is a selective post-emerge herbicide that controls annual and perennial grasses, sedges, and broadleaf weeds. Highly selective in most warm-season turfgrasses, Katana is also an excellent product for removal of overseeded cool-season grasses.

LABELED WEEDS

Grasses

- *Poa annua* (annual bluegrass)
- *Poa trivialis* (roughstalk bluegrass)
- Crabgrass
- Quackgrass
- Ryegrass, perennial (overseeded, clumpy, and volunteer)
- Tall fescue

Sedges

- Kyllingas (green, false-green, cockscomb and fragrant)
- Sedges (yellow, purple, annual globe, and others as listed)

Broadleaf Weeds

- Chamberbitter
- Chickweed
- Clover
- Dandelion
- Henbit
- Wild violet
- Yellow rocket

And many other grasses and broadleaf weeds as listed

USE SITES

- Golf fairways and roughs
- Golf greens (Bermudagrass and seashore paspalum), tees, collars, and approaches
- Residential turf (spot treatment)
- Sport fields
- Commercial turf
- Sod farms

Turf Species and Broadcast Rates

	Removal of <i>Poa annua</i> (annual bluegrass)	Removal of <i>Poa annua</i> (annual bluegrass) with urea added	Removal of kyllingas and sedges	Removal of volunteer cool-season grasses	Removal of overseeded cool-season turfgrasses
Bermudagrass Buffalograss Zoysiagrass	2.5-3.0 oz./acre + surfactant	1.0-1.5 oz./acre + surfactant + 24-71 lb. of urea 46-0-0 per acre	Kyllingas green, false-green, cockscomb, and fragrant 1.5-2.25 oz./acre + surfactant	Volunteer Ryegrass 1.5-3.0 oz./acre + surfactant Tall Fescue 1.5 oz./acre + surfactant	Perennial Ryegrass 0.5-1.5 oz./acre + surfactant
Centipedegrass Seashore paspalum			Sedges annual, globe, and yellow nutsedge 1.5-3.0 oz./acre + surfactant		Italian (annual) ryegrass 1.5 oz./acre + surfactant
<ul style="list-style-type: none"> • Maximum use rate 1.5 oz./acre • Do not apply during spring and fall transition 			Sedges purple nutsedge, cylindrical and rice flatsedge 3.0 oz./acre + surfactant		<i>Poa trivialis</i> 2.25-3.0 oz./acre + surfactant

Spot Treatments with Pump-up or Backpack Sprayers

- Dissolve 0.03-0.068 oz. (1-2 grams = ¼ - ½ teaspoon) of Katana Turf Herbicide per 1 gallon of water, add 1 teaspoon of a nonionic surfactant and spray mixture at a rate of 1 gallon per 1,000 sq. ft.

General Information

FORMULATION

WDG – Water dispersible granule

ACTIVE INGREDIENT (CLASS)

Flazasulfuron (SU – Sulfonylurea)

BEHAVIOR IN PLANT

Katana is rapidly absorbed into the weed leaves and is translocated through the xylem and phloem towards the meristematic zone. In this zone, Katana inhibits acetolactate synthase (ALS), a key enzyme for branched-chain amino acids, which results in cessation of cell division and plant growth.

CONTROL SYMPTOMS

Weed growth stops within hours after the application, however symptom progress from discoloration or chlorosis to necrosis generally requires from 3 to 6 weeks. Speed of control is generally a function of weather, with faster action during warmer weather and actively growing weeds and turf.

TURF SAFETY

- Argentine bahiagrass, carpetgrass, and St. Augustinegrass are intolerant.
- Cool-season grasses such as ryegrass, fescue, bentgrass and Kentucky bluegrass are intolerant.
- Seashore paspalum - Expect some turf discoloration approximately 2 weeks after application.
- Seashore paspalum - The use of Katana with urea based fertilizer may result in unacceptable injury.
- Centipedegrass and seashore paspalum – Do not apply during spring and fall transition.

RAINFEST

One inch of rainfall within 3 to 6 hours of application may result in reduced weed control or require reapplication.

WSSA GROUP

2

SIGNAL WORD

CAUTION

RESEEDING INTERVAL

- Allow at least 2 weeks from the last application to the time of overseeding when applied at 1.5 oz./A. Allow 4 weeks for rates above 1.5 oz./A.
- Do not apply to newly seeded, sodded, or sprigged turfgrass until well-established.

TEMPERATURE RESTRICTIONS

Low humidity and high temperature increase the evaporation rate of droplets and therefore increase spray drift potential. The applicator should compensate for temperature and humidity.

ADJUVANTS AND SPRAY ADDITIVES

The use of a nonionic surfactant at 0.25 percent by volume (1 qt./100 gal.) provides maximum performance.

SPRAY VOLUME

Katana may be applied as a broadcast treatment in a minimum of 20 gallons of water per acre. Higher spray volumes of 60 to 174 gallons of water per acre are recommended where weed populations are dense or with adverse growing conditions.

TANK-MIXING

Katana may be tank mixed with most herbicides registered for use on labeled turfgrasses. However, the physical compatibility of Katana with tank mix partners should be evaluated before use. The following have shown improved weed control in tank mixtures:
Speedzone® Southern, Trimec® Southern, Quinclorac, Dimension®, Prodiamine, and Pendimethalin.

KEYS TO SUCCESS

- Make applications to actively growing weeds and turf.
- Repeat applications may be made at 2 to 6 weeks after the application for optimum weed control.
- Do not apply when grasses are under stress as injury may occur.
- Use extreme caution when applying this product to slopes that drain onto sensitive turf grasses such as bentgrass, ryegrass, and *Poa trivialis*.