



Dismiss[®]NXT

Herbicide

Introducing Dismiss[®]NXT. The #1 Sedge control product just got better. Stop Sedge and Start reducing future populations today with Dismiss[®]NXT





What is Dismiss[®]NXT Herbicide?

- ☐ A Novel combination of Sulfentrazone and Carfentrazone, two highly effective PPO Inhibiting AI's discovered by FMC, optimizing overall selective post emerge weed control
- ☐ Dismiss[®]NXT provides improved tuber mortality reducing future sedge populations
- ☐ Doing more with less – Get the results you expect at lower use inputs



Mode-of-Action

- PPO-Inhibiting herbicide
 - Protoporphyrinogen oxidase
- PPO is a key enzyme in the chlorophyll biosynthesis pathway
 - Catalyzes reaction that leads to formation of chlorophyll and heme
- Inhibition is activated by light
 - Plant does not have to be undergoing photosynthesis for inhibition to take place
- Cell membrane disruption results in plant death
- Taken up by the plant through foliar absorption and root uptake



What is in Dismiss[®]NXT?

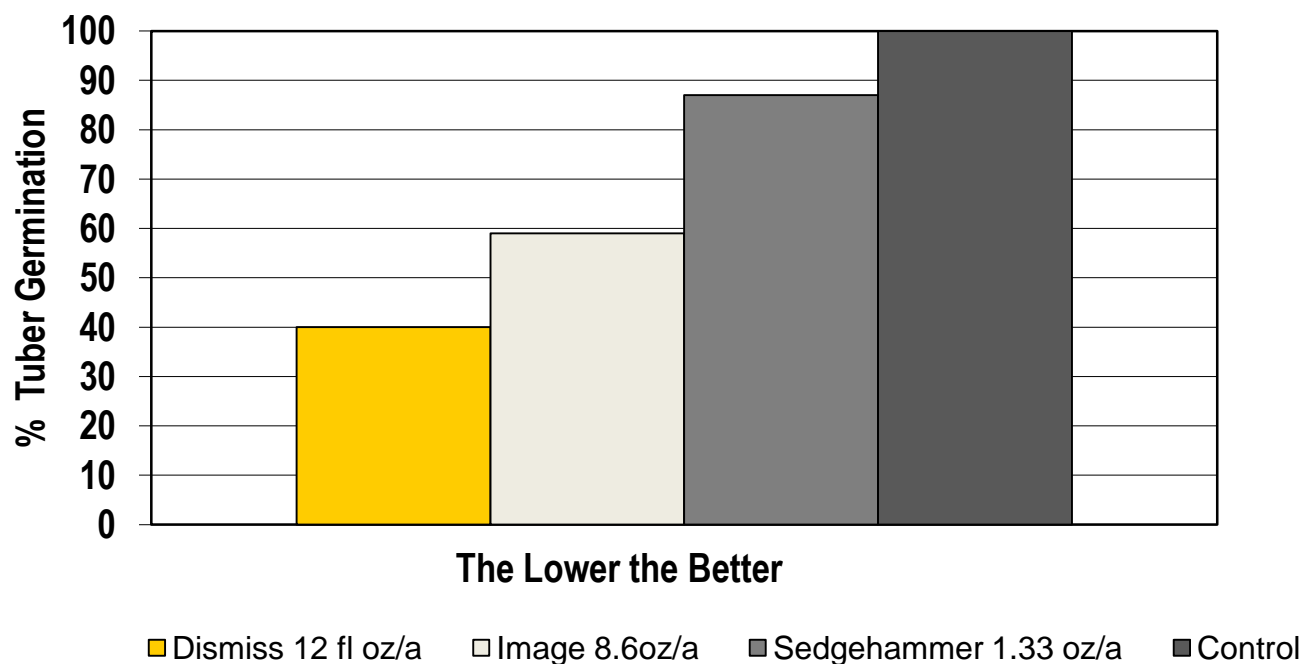
Dismiss [®] NXT	Sulfentrazone lb ai/A	Carfentrazone lb ai/A	
5.0 fl oz	0.123	0.013	Recommended Bentgrass and Perennial Rye rate
7.5 fl oz	0.184	0.021	Recommended KY Bluegrass and Tall Fescue rate
10.0 fl oz	0.246	0.027	Recommended Warm Season Rate





Tuber Reduction with Dismiss

Yellow Nutsedge Tuber Germination



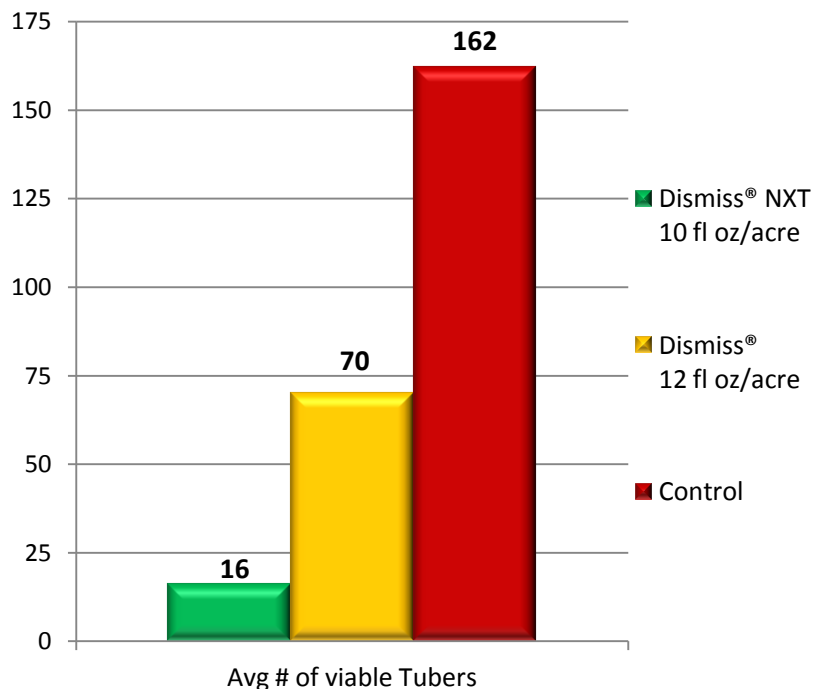
Yellow nutsedge tubers collected from treated areas after control was achieved, then germinated in clean soil

Results Without The Wait



Benefits of Dismiss[®]NXT Herbicide

Improved Tuber Mortality



A Dismiss[®]NXT 2 year study provided the following results:

- Dismiss[®]NXT provided a 90% tuber population reduction vs. the control (16 vs. 162)
- Dismiss[®]NXT performed 77% better than Dismiss[®] (16 vs. 70)
- Reduce future populations today and improve turf quality tomorrow with Dismiss[®]NXT!

FMC – Sparks, GA
Bermudagrass

Benefits of Dismiss[®]NXT Herbicide

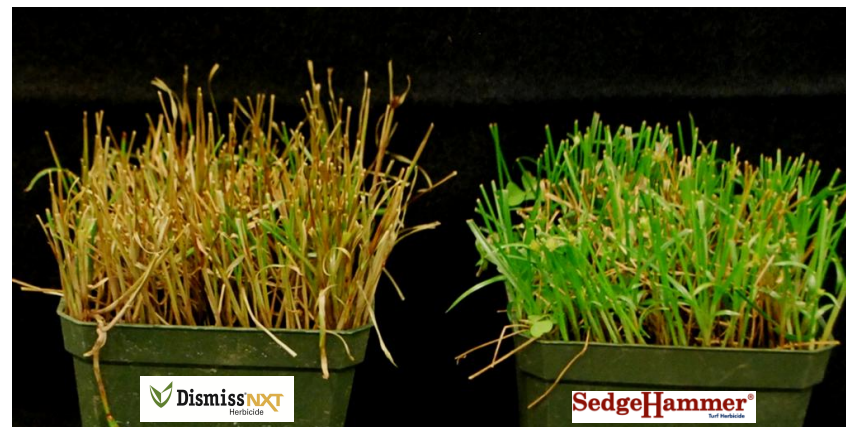
Speed and Improved Kyllinga Control



FMC – Ewing, NJ 2016

7 DAT Kyllinga

Dismiss[®]NXT 5 fl oz/A on left
Certainty[®] 1.25 oz/A on right



FMC – Ewing, NJ 2016

7 DAT Kyllinga

Dismiss[®]NXT 5 fl oz/A on left
Sedgehammer[®] 1.33 oz/A on right

The Results Speak For Themselves!

Certainty is a trademark of Monsanto Technology LLC
Sedgehammer is a registered trademark of Gowan Company, LLC

Yellow Nutsedge Control – 3DAT



3 DAT Dismiss[®] NXT
5 fl oz/A



3 DAT Dismiss[®] NXT
10 fl oz/A



3 DAT Certainty[®]
1.25 oz/A



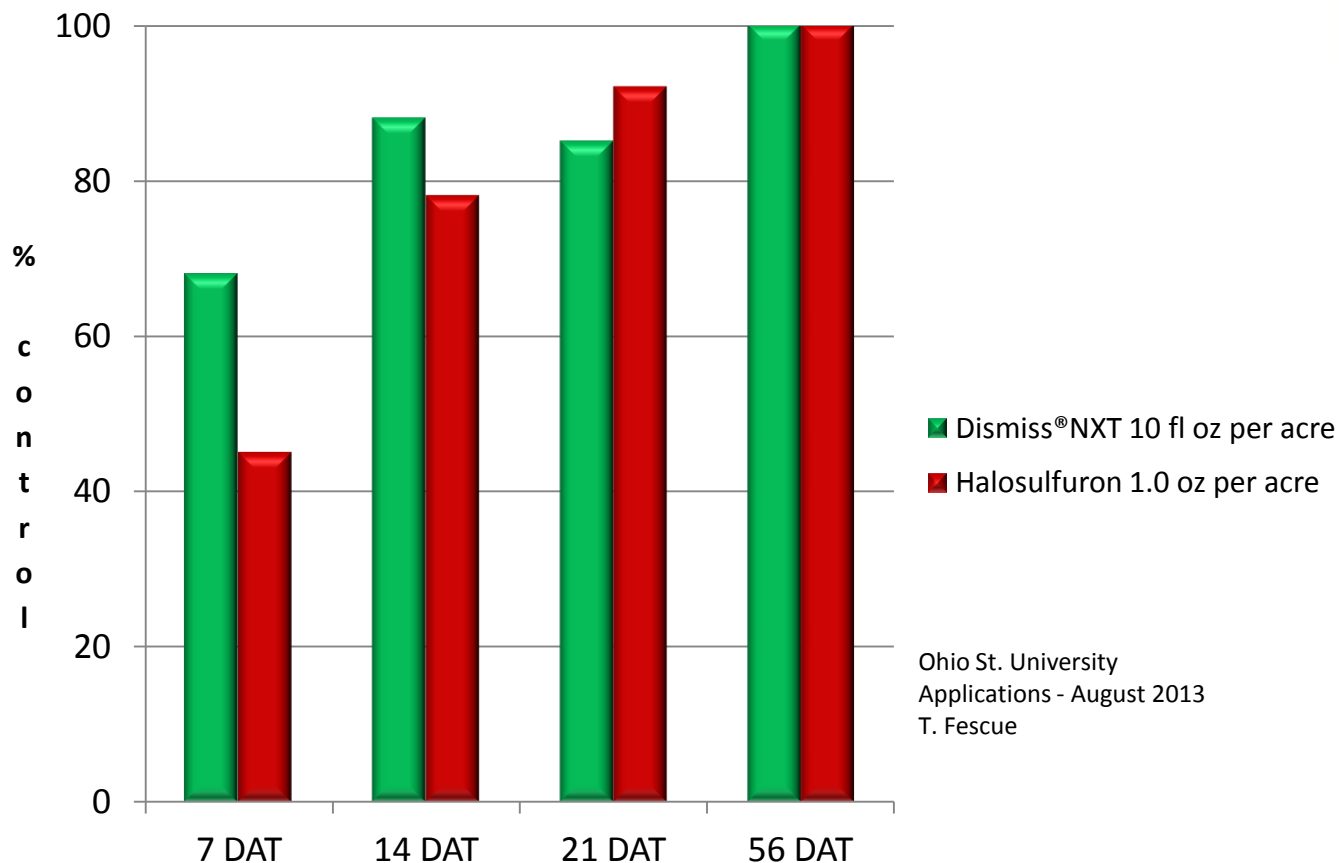
3 DAT Sedgehammer[®]
1.33 oz/A



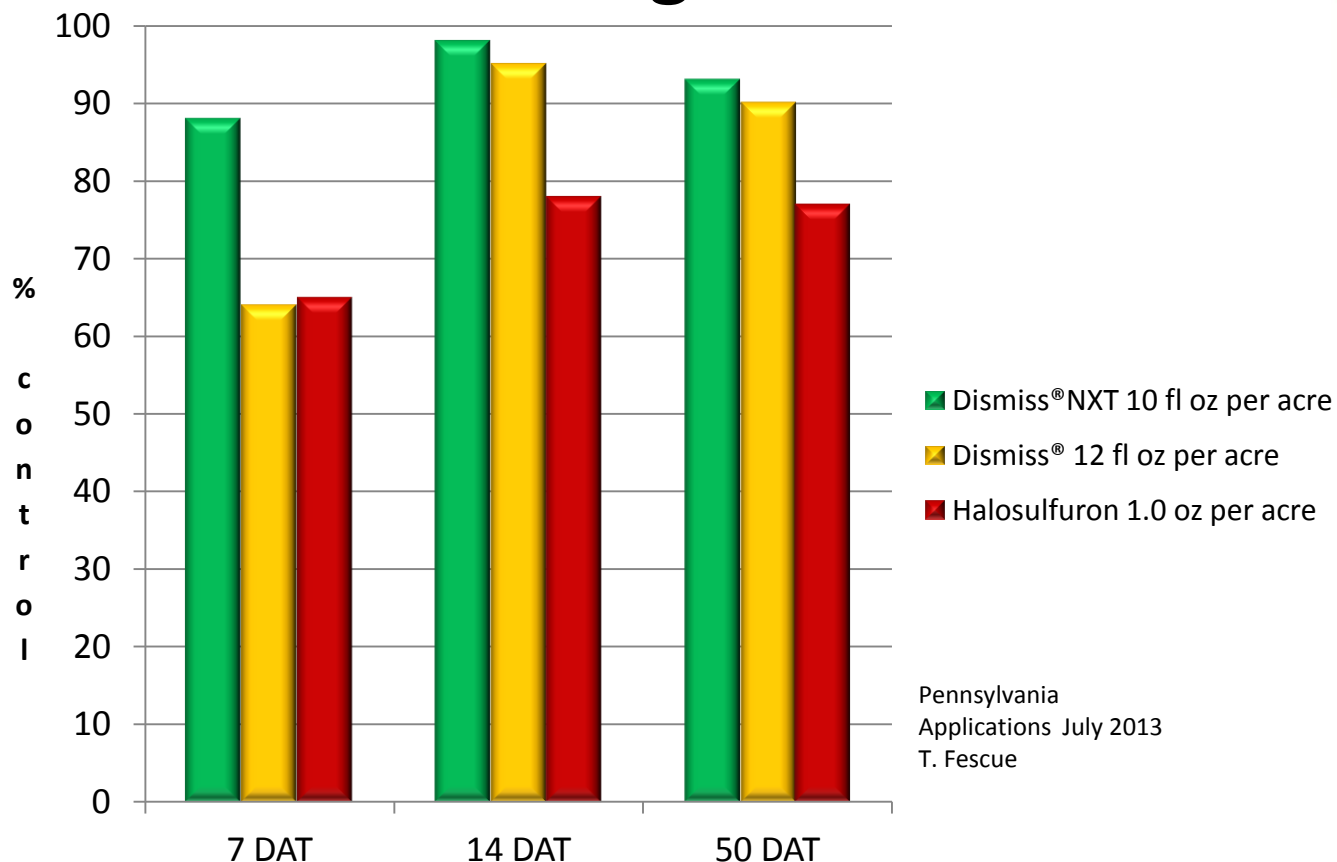
Control



Yellow Nutsedge Control

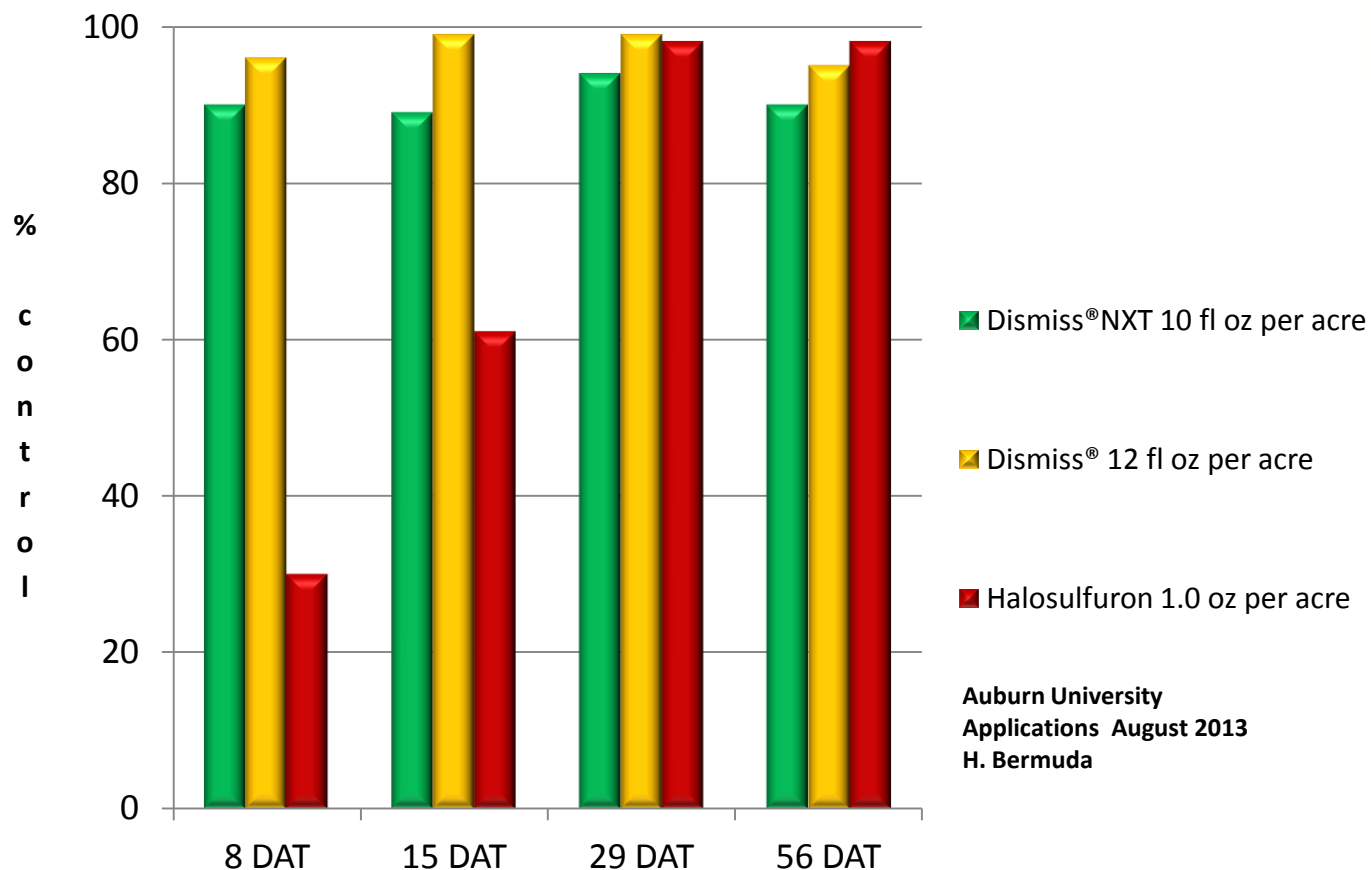


Yellow Nutsedge Control



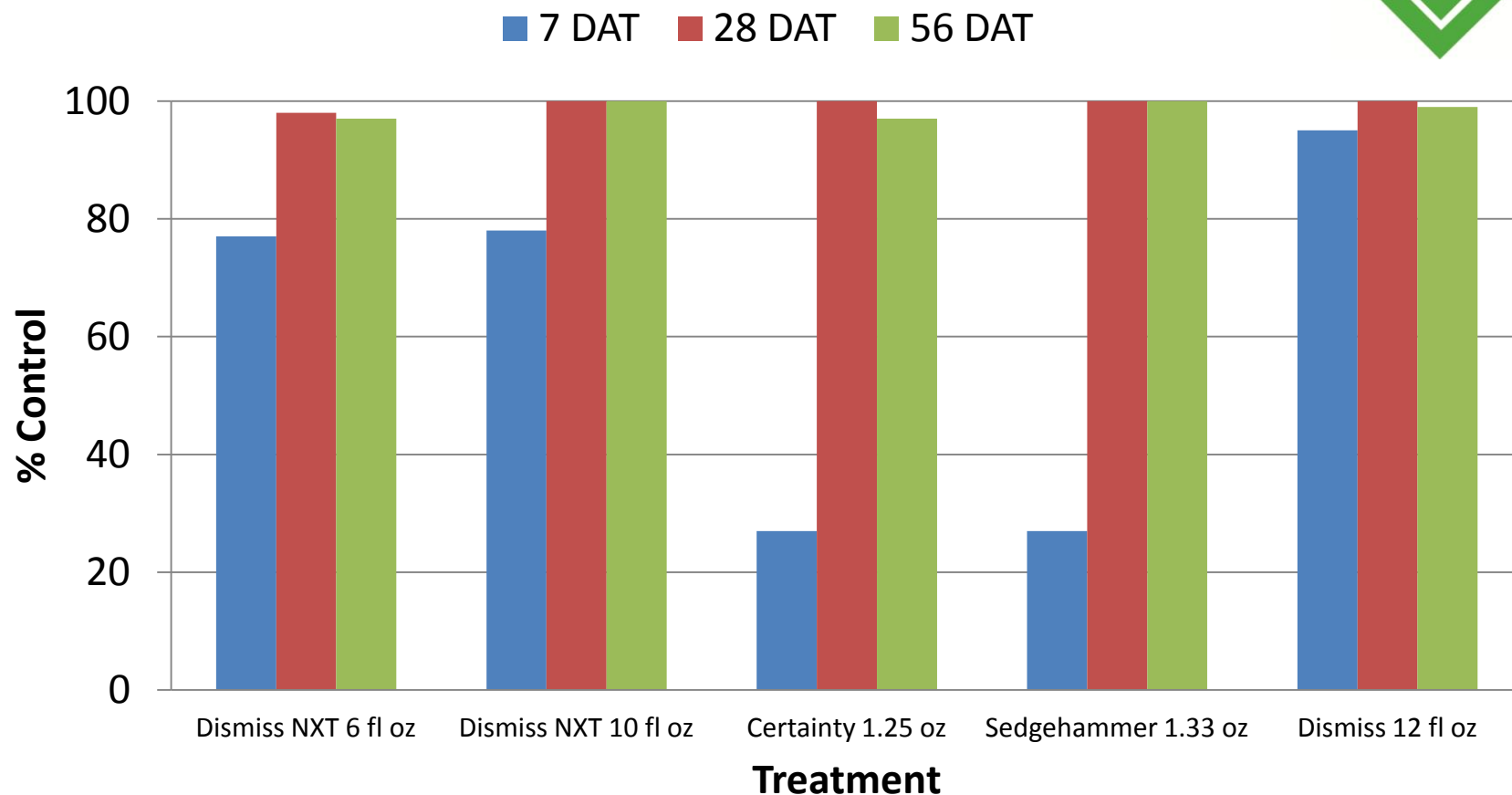
Dismiss[®]NXT at 10 fl oz/acre providing speed and control with 33% less Sulfentrazone than a 12 fl oz/acre rate of Dismiss[®]

Cock's Comb Kyllinga



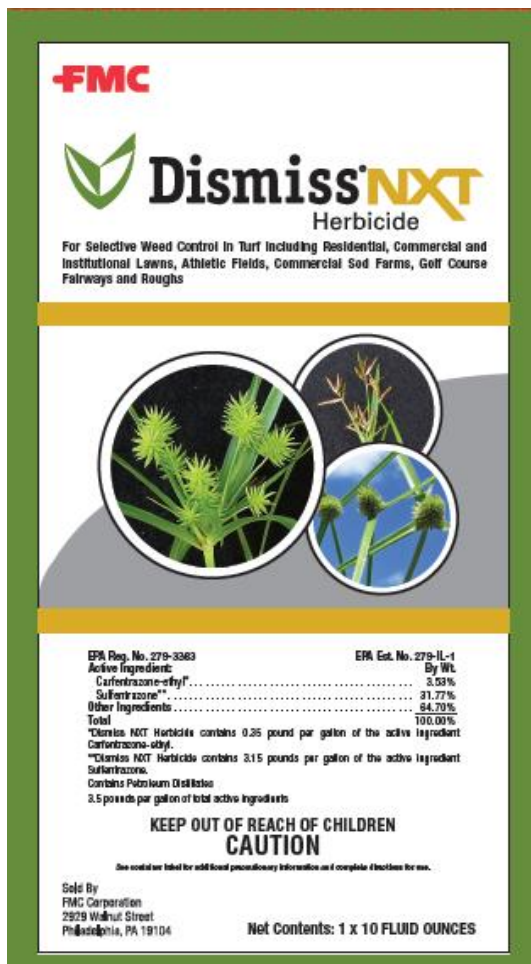
Dismiss[®]NXT at 10 fl oz/acre providing speed and control with 33% less Sulfentrazone than a 12 fl oz/acre rate of Dismiss[®]

Yellow Nutsedge Control



University of Tennessee
Bermudagrass

Packaging



☐ Convenient End user friendly package sizes

- ☐ 10 Fl oz: Equipped with a dosing chamber
 - 8 units per case
- ☐ 60 Fl oz: Tip 'n Pour bottle with an easy to use measuring chamber
 - 4 units per case





Dismiss[®]NXT Pricing

Agency Pricing Model	
Package Size	Agency Price
Dismiss [®] NXT 10oz	\$98.50
Dismiss [®] NXT 60oz	\$555.00
Dismiss [®] NXT 60oz*	\$515.00

- ☐ Agency Pricing Model for both pack sizes (10 fl oz and 60 fl oz)
- ☐ Volume pricing model for one case or more during a single purchase

*Volume Pricing on 1+case on a single invoice

Dismiss[®]NXT Cost in Use

Dismiss [®] NXT Cost In Use			
Package Size	Cost/Unit	Warm Season CIU/A	Cool Season CIU/A
Dismiss 64oz	\$534.60*	\$66.83	\$50.12
Quicksilver 8oz	\$149.50*	\$28.03	\$28.03
Make Your Own	\$684.10*	\$94.86	\$78.15
Dismiss NXT 60oz	\$555.00	\$92.50	\$69.38
Dismiss NXT 60oz - Volume	\$515.00	\$85.83	\$64.38

*Non agency pricing. Subject to distributor selling price

Dismiss®NXT Cost in Use

Dismiss®NXT Cost In Use			
Package Size	Cost/Unit	Warm Season CIU/1000	Cool Season CIU/1000
Dismiss 64oz	\$534.60*	\$1.54	\$1.15
Quicksilver 8oz	\$149.50*	\$0.64	\$0.64
Make Your Own	\$684.10*	\$2.18	\$1.79
Dismiss NXT 60oz	\$555.00	\$2.13	\$1.67
Dismiss NXT 60oz - Volume	\$515.00	\$1.97	\$1.55

*Non agency pricing. Subject to distributor selling price

Sell Sheet



FMC

THE BEST JUST GOT BETTER

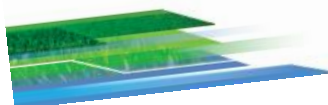
2 FMC-Discovered AIs, 1 Great Product



The next generation of Dismiss[®] Herbicide from FMC Professional Solutions

REDUCE FUTURE TUBER POPULATIONS TODAY AND IMPROVE TURF QUALITY TOMORROW!

- Increased Tuber Mortality: thanks to the novel formulation combining Sulfentrazone and Carfentrazone
- Protection Today and Tomorrow: you'll see visible results in 24 hours and stop future outbreaks of yellow nutsedge, green kyllinga and 45 other weeds
- No Known Resistances: proven control on ALS-resistant sedge



 @FMCProf
 FMCProf
fmcprosolutions.com
 fmcproftrn

Dismiss NXT Herbicide: The #1 Product for Sedge Control
In 1985, Carfentrazone and Sulfentrazone have united to take down your sedge problem once and for all.

Dismiss NXT Herbicide Outperforms Competitors
7 Days After Treatment on Kyllinga

3 Days After Treatment on Yellow Nutsedge

Benefits of Dismiss[®] NXT Herbicide
A Dismiss[®] NXT 2 year study provided the following results:

IMPROVED TUBER MORTALITY

Average Number of Visible Tubers

To learn more, contact your local distributor or FMC representative or visit www.fmcprosolutions.com.

ALWAYS READ AND FOLLOW LABEL DIRECTIONS.
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E-Files



FMC

INTRODUCING

Dismiss^{NXT}
Herbicide

The Next Generation of Sedge Control

COMING SOON!

Reduce future tuber populations today
and improve turf quality tomorrow!

[Learn More](#)



yellow nutsedge

green kyllinga



FMC

INTRODUCING

Dismiss^{NXT}
Herbicide

The Next Generation of Sedge Control

NOW AVAILABLE!

Reduce future tuber populations **today**
and improve turf quality **tomorrow!**

[Learn More](#)



yellow nutsedge

green kyllinga



FMC [Learn More](#)

THE BEST JUST GOT BETTER

2 FMC-Discovered Als, 1 Great Product

Dismiss^{NXT}
Herbicide

The next generation of Dismiss^{NXT} Herbicide from FMC Professional Solutions

**REDUCE FUTURE TUBER POPULATIONS TODAY
AND IMPROVE TURF QUALITY TOMORROW!**

- Increased Tuber Mortality: Reduces the next generation of tubers, resulting in fewer tubers and improved turf quality.
- Protection Today and Tomorrow: 2 new active ingredients in 34 hours and long-term control of yellow nutsedge, green kyllinga and 40 other weeds.
- No Residue: Reduces the need for other herbicides on ALS-resistant weeds.

Dismiss NXT Herbicide: The #1 Product for Sedge Control

Sedges don't stand a chance against FMC's groundbreaking Dismiss^{NXT} Herbicide. In 2018, FMC's Dismiss^{NXT} Herbicide was named the #1 sedge control product in the world for all.

Dismiss NXT Herbicide Outperforms Competitors

7 Days After Treatment on Kyllinga



3 Days After Treatment on Yellow Nutsedge



To learn more, contact your local distributor or FMC representative or visit www.FMCProfessionalSolutions.com

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Web Banner



FMC

INTRODUCING DISMISS[®] NXT
The Next Generation of Sedge Control

yellow
nutsedge

green
kyllinga

[Learn More](#)

Best Management Practices



Best Management Practices: Perennial Nutsedge and Kyllinga

Description

The two most common perennial nutsedge species that infest turfgrass are yellow (*Cyperus esculentus*) and purple (*Cyperus rotundus*) nutsedge. Nutsedge reproduce primarily by tubers, sometimes referred to as nutlets. They do produce seed, but often nutsedge seedlings do not survive due to turfgrass competition. Nutsedge can be spread from one location to another by planting infested sod or spreading soil containing viable tubers. Many may confuse nutsedge with grasses mostly due to the thin leaf blade and pale-green color that both nutsedge and grass weeds have compared to a dark, green turfgrass. Emergence will vary depending on geographic location and soil type. Generally, these weeds can emerge as early as April and thrive throughout the summer months into the fall. According to the Weed Science Society of America these weeds have been categorized as two of the world's worst weeds.

The genus *kyllinga* is a member of the Cyperaceae plant family. There are approximately 40 to 45 *kyllinga* sp. distributed throughout the world. The most common perennial *kyllinga* are green and false-green *kyllinga*. Compared to turfgrass species, *kyllinga* sp. often look pale green and grow in tufts, or bunches. *Kyllinga* species are becoming a more wide-spread problem weed in highly managed turfgrass. They are able to thrive and reproduce at mowing heights ranging from 0.5 in to 3 in.

Habitat

Nutsedge and *kyllinga* species thrive in moist, poorly-drained soils. However, established plants can proliferate in soils with adequate to low moisture. It is not uncommon to find these weeds growing on high spots in landscaped areas, or in well drained soils. Nutsedge species can produce an abundant number of tubers in a season with most located in the top 6 inches of the soil profile. Tubers can remain viable for multiple years and emerge from depths of up to 10 inches. Yellow nutsedge tubers are more cold tolerant than purple nutsedge. This is one of the main factors why yellow nutsedge is more widely distributed across the United States than purple nutsedge. Purple nutsedge is predominately found in warm-season turfgrass climates throughout the southern U.S.

Kyllinga can produce viable seed as well as reproduce by rhizomes. These rhizomes (underground stems) aid in producing dense, mat-forming populations that can quickly out-compete desirable turfgrass. Rhizomes can be spread through contaminated soil and/or sod as



well as on contaminated cultivation equipment; thereby establishing new populations in areas not previously infested. *Kyllinga* can produce viable seed, which contributes to the aggressiveness of this weed.

Identification

Plants in the Cyperaceae family have triangular shaped stems. They have a three-ranked leaf arrangement, which means one leaf is produced on each point of the triangle. This is different than a grass weed like crabgrass which has round to flat stems and like ranked leaf arrangement. To distinguish between yellow & purple nutsedge, newly produced between nutsedge will have a blunt leaf tip where yellow nutsedge has dark brown to black tubers produced in chains. Yellow nutsedge will have a more tapered leaf tip. Purple nutsedge has golden colored seed heads arranged in a cluster of spikelets. Purple nutsedge produces maroon to purple seed heads arranged similarly.

Similarly, *Kyllinga* has a triangular-shaped stem as well. These weeds are described as mat-forming perennials. Perennial *kyllinga* produce red to purple-colored rhizomes. Perennial *kyllinga* produce a similar circular to oblong seedhead with three short leaves, or bracts, just below the seedhead. One way to distinguish between green and false-green *kyllinga* is flowering periods. Green *kyllinga* will continuously flower through the warm season months. False-green *kyllinga* seedhead production is influenced by day-length. As day length gets shorter in the fall, false-green *kyllinga* begins to flower. In many cases, *kyllinga* sp. is misdiagnosed as a nutsedge. Probably the easiest way to distinguish *kyllinga* sp. from yellow or purple nutsedge is to allow the plant to produce a seedhead. Yellow and purple nutsedge will produce a cluster of spikes as a seedhead. Another diagnosis key is to look for the rhizomes. If there are red to maroon-colored rhizomes, then it is likely a perennial *kyllinga*. *Kyllinga* sp. produce a more dense growth habit compared to nutsedge.



Science In Fast-Forward

Science In Fast-Forward



Why Use Dismiss[®]NXT

- ❑ The #1 Sedge control product just got better
- ❑ The results speak for themselves – **Speed, Control, and reduced future populations**
- ❑ Resistance Management – Another innovative tool from FMC to fight against resistance management.
 - No known PPO resistant sedge. There is ALS resistant sedge in our market
- ❑ Financially it just makes sense. Reduce future populations today and improve turf quality tomorrow



WE PROVIDE HERBICIDE INNOVATIONS



ALWAYS READ AND FOLLOW LABEL DIRECTIONS