



The weed control you need with the turf safety you want

Manuscript® herbicide from Syngenta is a powerful option for control of **tropical signalgrass**, **crabgrass**, **dallisgrass** and more in bermudagrass and zoysiagrass turf with excellent turf safety. Manuscript can also be applied to fine fescue stands to selectively control **ryegrasses**, **tall fescue**, **foxtails**, **barnyardgrass**, **carnarygrass** and **thin paspalum**.



UNIQUE CHEMISTRY CLASS IMPROVES RESISTANCE MANAGEMENT

- Selective herbicide with an advanced form of ACCase mode of action
- *Pinoxaden* belongs to a novel class of chemistry for turf (phenylpyrazolin - DEN, Group 1)
- *Pinoxaden* is rapidly absorbed and translocated to the growing points of weed foliage, where its powerful phenylpyrazolin inhibitor halts ACCase enzyme activity on tough grassy weeds for improved safety and resistance management



ENHANCED POST-EMERGENT CONTROL WORKS FAST ON TOUGH WEEDS

- Works fast regardless of weed growth stage as long as weeds are actively growing
- Rainfast in as quickly as one hour

WEEDS CONTROLLED	
Tropical signalgrass	Large and smooth crabgrass
Bull/thin paspalum	Dallisgrass*
Bahiagrass	Seashore paspalum (suppression only)
Tropical carpetgrass	Torpedograss (suppression only)
Foxtails	Barnyardgrass
Ryegrass	Kikuyugrass (suppression only)
Canarygrass	Tall fescue

*For optimal dallisgrass control, apply Manuscript during the spring or fall when grassy weeds are more susceptible to herbicides.



Square plots of crabgrass were treated with two spot treatments of Manuscript at 0.96 fl. oz./gal. and Adigor™ surfactant at 0.64 fl. oz./gal., 13 days apart. Source: Syngenta, Huntsville, Alabama, 2018.

DALLISGRASS CONTROL



Left image: untreated dallisgrass. Right image: dallisgrass 10 days after one treatment of Manuscript at 0.96 fl. oz./gal. and Adigor at 0.64 fl. oz./gal. Source: Syngenta, Huntsville, Alabama, 2018.



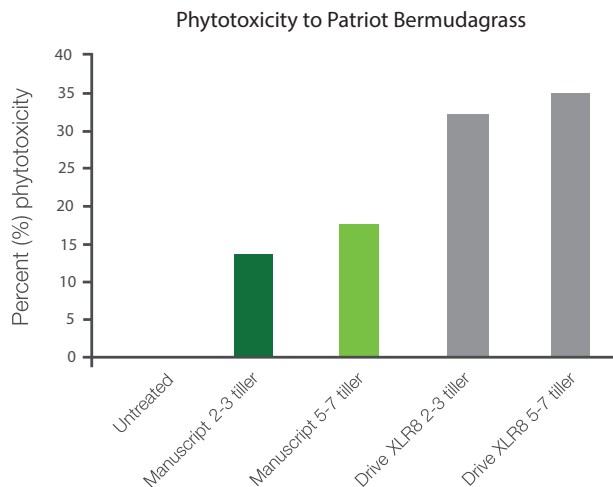
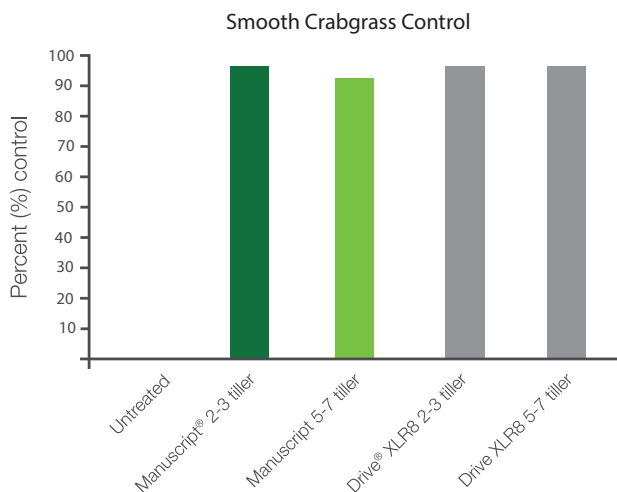
QUICKER RECOVERY FOR ENHANCED AESTHETICS

- Manuscript works well any time weeds are actively growing, so it can be used during summer months when desirable turf quickly fills in voids left behind after weeds are controlled



OUTSTANDING TURF SAFETY IMPROVES PERFORMANCE

- Built-in safener (*cloquintocet-mexyl*) speeds metabolism of *pinoxaden* in desirable turf and improves weed control performance
- Custom-built surfactant system, Adigor, helps provide greater application reliability and absorption speed
- Can be used for spot treatments when mixing 0.96 fl. oz. of Manuscript and 0.64 fl. oz. of Adigor in 1 gal. of water to treat 1,000 ft.²
 - For optimal results, make applications in 40 gal./A
- Features improved selectivity against tough, actively growing weeds without temperature restrictions
- Can be applied near ornamental beds and shrubs



Manuscript was applied to smooth crabgrass in Patriot bermudagrass at 9.6 fl. oz./10,000 ft.² and mixed with Adigor at 0.5% v/v. Drive XLR8 herbicide was applied at 64 fl. oz./A and mixed with MSO at 0.5% v/v. Two- to three-tiller treatments were applied on June 26 and July 20, 2018. Five- to seven-tiller treatments were applied on July 5 and July 20, 2018. Source: Shawn Askew, Virginia Tech, 2018.



IDEAL FOR USE IN AN AGRONOMIC PROGRAM TO CONTROL SECONDARY WEEDS IN BERMUDAGRASS AND ZOYSIAGRASS

- After removing patches of undesirable weeds with Manuscript, secondary weeds like sedges and broadleaves tend to fill in
- A follow-up application of Monument® 75WG herbicide controls a broad spectrum of secondary weeds and will reduce weed reestablishment, so desirable turf can grow without weed competition
- Talk to your Syngenta territory manager about an approach that fits your business

For more information about how Manuscript can help provide effective weed control for your lawns and sports turf fields, please visit GreenCastOnline.com/Manuscript



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Performance assessments are based upon results or analysis of public information, field observations and/or internal Syngenta evaluations. Trials reflect treatment rates commonly recommended in the marketplace.

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