



2019 PENNSYLVANIA STATE UNIVERSITY STUDY

CIVITAS TURF DEFENSE™ IS PROVEN TO DEFEAT SNOW MOLD

THIS STUDY EXPLAINS WHY YOUR FUTURE IS GREEN THIS SPRING

The latest research from Penn State University's Department of Plant Science proves that CIVITAS TURF DEFENSE will effectively defend your turf from snow mold so you can see more green in spring. Check out the best practices for application below and keep reading to see the results.

WINTER APPLICATION

- For best results, make two 17-oz. applications 21 days apart
- Applications should be made prior to turf dormancy
- In most of the U.S., the second application should be complete by mid-November
- Tank mix your preferred snow mold control products with the second application of CIVITAS TURF DEFENSE

SPRING APPLICATION

- After the first mowing, make two to three applications of 8.5 oz. on a 21-day interval to ensure improved early-spring playing conditions
- Tank mix CIVITAS TURF DEFENSE with early-season seedhead suppressants, insecticides and fungicides to maintain a successful start to the season

DEFEND YOUR TURF TODAY BY VISITING CIVITASTURF.COM



MAXIMIZED TURF QUALITY • ENHANCED IPM EFFICIENCIES • IMPROVED DISEASE CONTROL



The active ingredient in CIVITAS TURF DEFENSE resembles the natural paraffins found on the surface of leaves and provides a physical barrier that helps prevent fungi from entering the turf plants. In addition, CIVITAS TURF DEFENSE features StrengthIN™ stress tolerance technology, which increases the plant's ability to tolerate both abiotic and biotic stressors.

™Trademark of Suncor Energy Inc. Used under license.

intelligro

Learn how CIVITAS TURF DEFENSE effectively controls snow mold and see the difference for yourself.

PREVENTATIVE FUNGICIDE APPLICATIONS FOR THE CONTROL OF GRAY SNOW MOLD ON A MIXED STAND OF CREEPING BENTGRASS AND ANNUAL BLUEGRASS, 2018-2019.

Warren, Pennsylvania, on a 60 / 40 mixed stand of creeping bentgrass and annual bluegrass, fairway

STUDY BY:
J.E. Kaminski, T.T. Lulis and T.R. Russell
Department of Plant Science
The Pennsylvania State University
University Park, PA 16802

T. INCARNATA / MARCH 28, 2019		DECEMBER 5, 2018, TREATMENT SCHEDULE
~CONTROL %	SEVERITY %	
93%	3.5 fg	Iprodione 2.0 SE 4.0 fl. oz. + Trifloxystrobin 50 WG 0.25 oz. + Propiconazole 1.3 EC 2.0 fl. oz. + CIVITAS TURF DEFENSE Pre-M1xed 22.0 fl. oz.
93%	3.8 fg	Iprodione 2.0 SE 4.0 fl. oz. + Propiconazole 1.3 EC 2.0 fl. oz. + CIVITAS TURF DEFENSE Pre-M1xed 22.0 fl. oz.
91%	4.8 fg	Iprodione 2.0 SE 4.0 fl. oz. + Trifloxystrobin 50 WG 0.25 oz. + Propiconazole 1.3 EC 2.0 fl. oz.
80%	10.54 efg	Iprodione 2.0 SE 4.0 fl. oz. + Propiconazole 1.3 EC 2.0 fl. oz.
72%	15.3 def	Iprodione 2.0 SE 4.0 fl. oz. + Trifloxystrobin 50 WG 0.25 oz. + Propiconazole 1.3 EC 2.0 fl. oz. + Foursome® 0.45 fl. oz.
59%	21.8 cde	CIVITAS TURF DEFENSE Pre-M1xed 22.0 fl. oz.
0%	53.8 a	Untreated Control

CONDITIONS: Disease severity was visually assessed as percent area affected by *Typhula incarnata*. Disease severity was considered moderate, with non-treated control plots averaging 54% gray snow mold.

RESULTS: Treatments resulted in statistically similar disease severity that was considered acceptable (6-11%) to excellent (1-5%) control of gray snow mold for a golf course fairway.



Salt Lake City, Utah – one 17-oz. application in the fall.
Picture taken April 7, 2015.



Early-season applications result in continued dark green color from a plant that is functioning earlier in the season. This can often lead to the option of earlier-season cultural practices.

CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY AND LIABILITY

It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Intelligro, the manufacturer or seller. To the extent consistent with applicable law neither Intelligro, the manufacturer or seller shall be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. Except as warranted by this label, Intelligro, the manufacturer or seller makes no warranties, guarantees, or representations of any kind, either express or implied, or by usage of trade, statutory or otherwise, with regard to the product sold, including, but not limited to, merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. To the extent consistent with applicable law, buyer's or user's exclusive remedy, and Intelligro, the manufacturer's or seller's total liability, shall be for damages not exceeding the cost of the product.

ALWAYS READ AND FOLLOW LABEL INSTRUCTIONS

Foursome is a registered trademark of Quali-Pro.
Scientific and research information. Not an offer for sale.
LUB3872

