

2022 MN Canola Symposium

BRANDON SETTERHOLM
SYNGENTA SR NW MN



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Innovation



Over the last several years, we have introduced **revolutionary new technology** in products:



An unmatched portfolio of new and high-performing products coupled with the strongest pipeline in the industry showcases what **we prioritize: agronomics and grower ROI**

BETTER YIELD IS THE
BETTER DEAL

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Building A Portfolio For The Future: US Crop Protection Pipeline

More important new technologies in the pipeline than all our key competitors combined




Key attributes* of common fungicide chemistries

- **Triazole** fungicides
 - SBI / DMI mode of action
 - Eradicant / Curative activity
 - Typically high mobility, high metabolism


Preventative Curative

mobility persistence

- **Strobilurin** fungicides
 - QoI mode of action
 - Strong preventative, limited curative
 - Moderate mobility, moderate persistence

Preventative Curative

mobility persistence

- **Carboxamide** fungicides
 - SDHI mode of action
 - Strong preventative, some early curative
 - Low mobility, long persistence

Preventative Curative

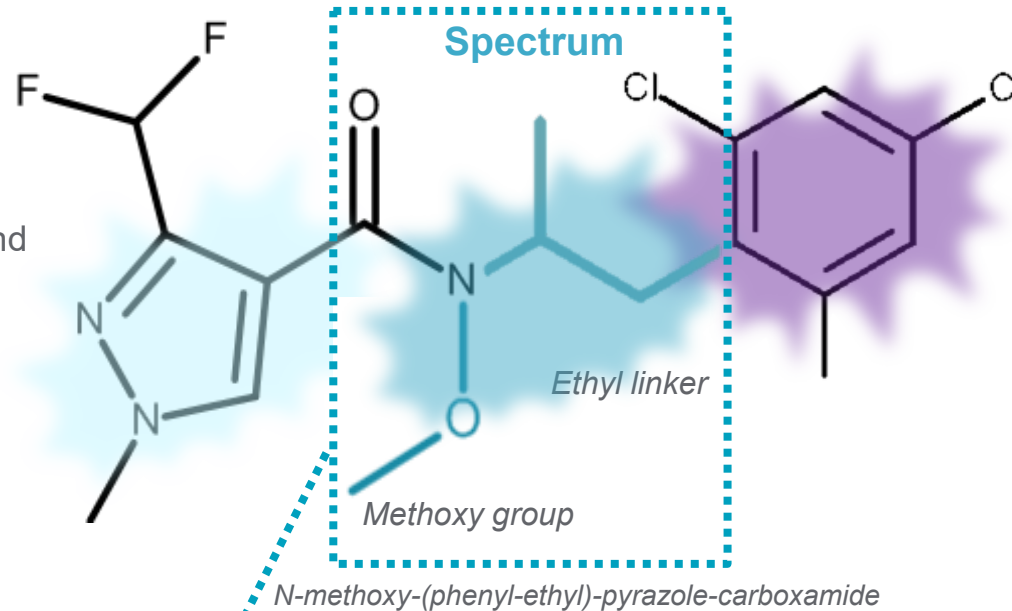
mobility persistence

* As a general rule, exceptions do occur within each chemical class
Classification: Internal use only

MIRAVIS® Fungicide: Combining the best features of previous fungicides in its class to deliver unprecedented Power, Spectrum and Stamina



Power
Pyrazole carboxyl group – characteristic of most potent and efficacious products

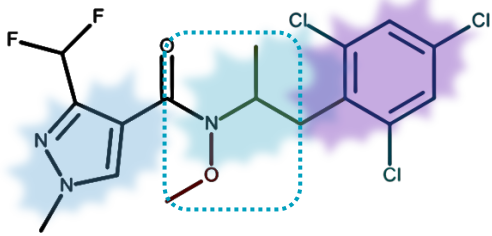


Stamina
Lipophilic part – enables greater length of control against a broader range of diseases

Unique N-Methoxy ethyl linker makes it possible to combine these best-in-class features into a single molecule for the first time

Unique combination of features for unprecedented performance on the farm

 **Miravis**®



- ✖ **Power:** Delivers unique potency and intrinsic activity that form the foundation of consistent performance in the field
- ✖ **Spectrum:** Broadens the reach of the SDHI mode of action to include the most difficult-to-control diseases and deliver unique crop enhancement benefits
- ✖ **Stamina:** Gets to work fast, adapts to the growing crop and withstands the unexpected to remain effective longer

MIRAVIS enables more consistent, complete and lasting disease protection and crop enhancement across more crops, opening up new possibilities for growers

Technical features:

- Miravis Neo contains chemistries from FRAC groups 7 (Adepidyn fungicide), 3 (propiconazole) and 11 (azoxystrobin)
- Built with Adepidyn fungicide – one of the highest-performing SDHI modes of action ever tested – Miravis Neo provides exceptional disease control with extremely low use rates
- Designed to control a broader spectrum of diseases for longer, Miravis Neo has excellent affinity for plant surfaces, providing stronger protection against leaf spots and other diseases
- Created to establish a reservoir within the plant's wax layer, Miravis Neo gets to work fast to provide consistent protection from application through harvest

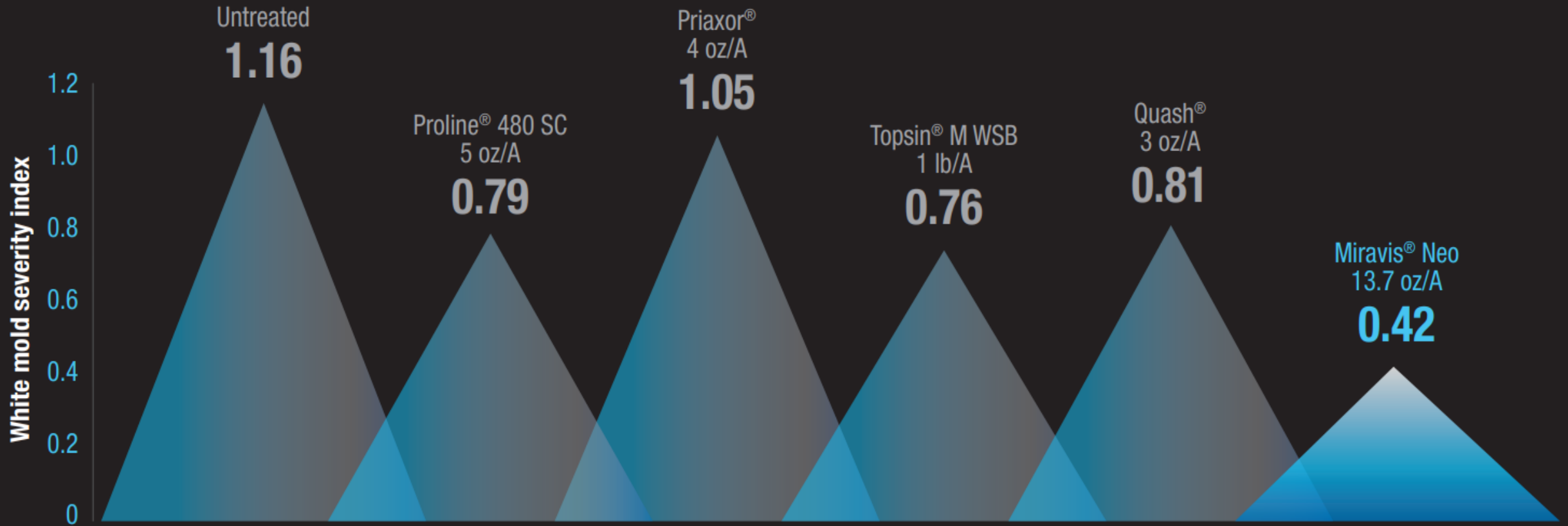
See the difference with Miravis Neo

Miravis Neo provides unmistakable white mold suppression in canola.



*Application made July 1. Photos taken on July 28
North Dakota State University Langdon Experiment Station 2016*

Miravis Neo delivers exceptional performance on white mold



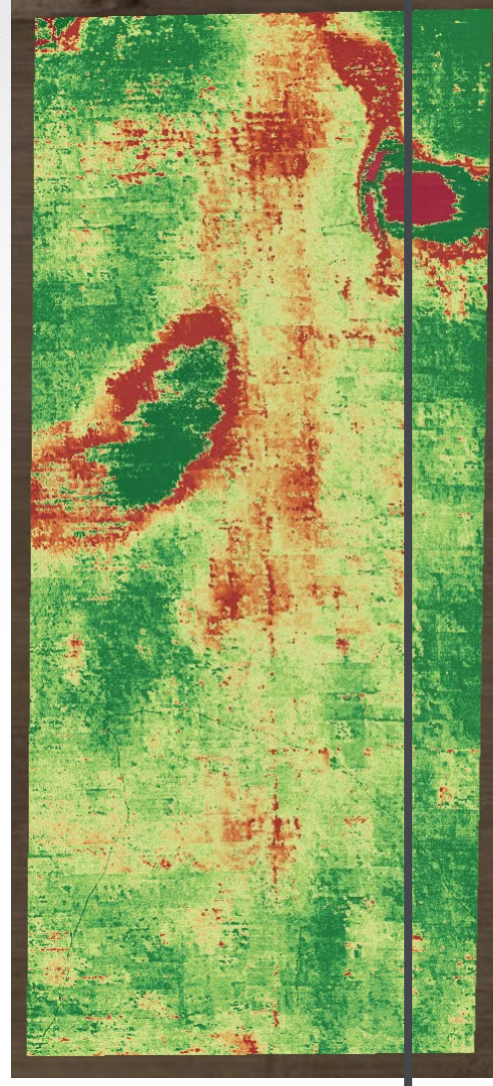
*Applied June 28 at 30 percent bloom
North Dakota State University Carrington Research Extension
Langdon, North Dakota 2018*

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Miravis NEO 13.7 floz/A Not Treated

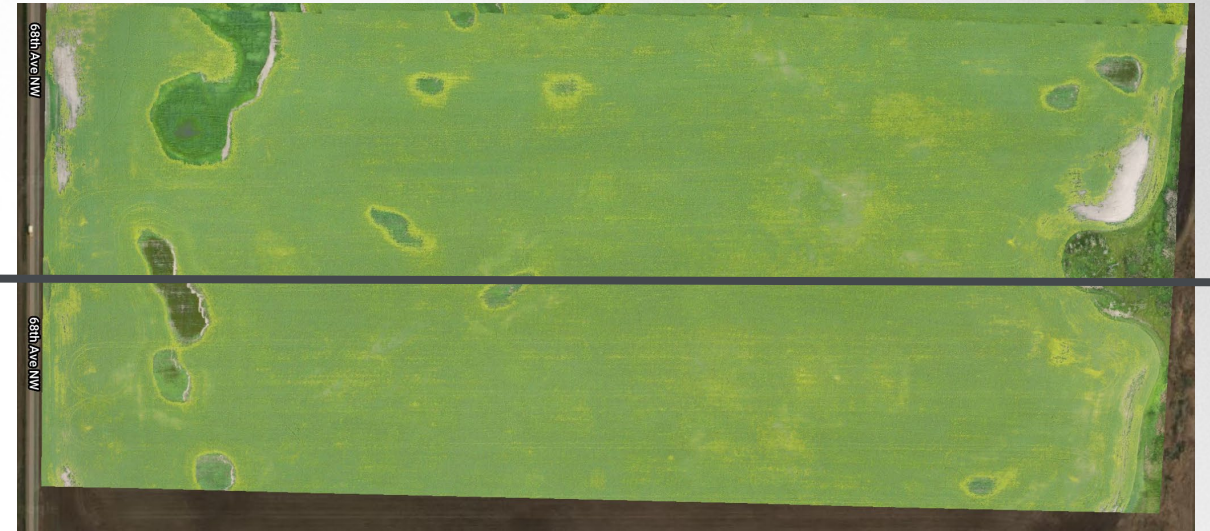
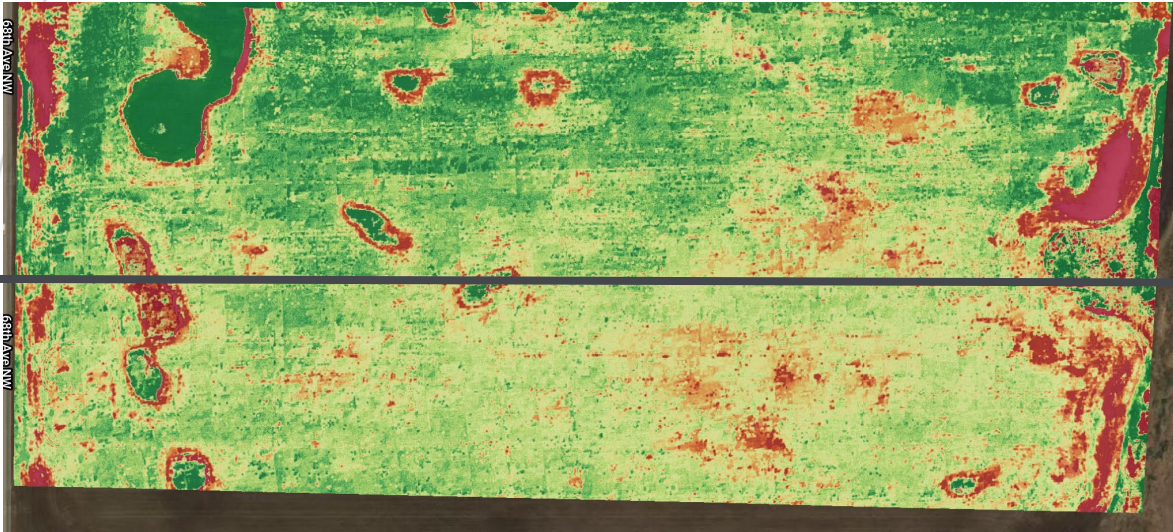


Miravis NEO 13.7 floz/A Not Treated

Canola Prolonged Flowering

syngenta®

Not Treated 2245 LB/A



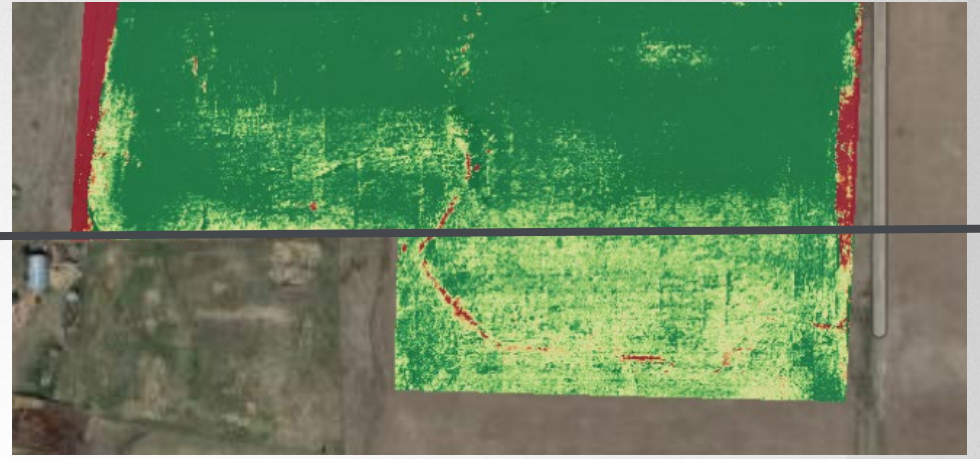
Miravis NEO 13.7 floz/A 2295 LB/A

Canola Prolonged Flowering

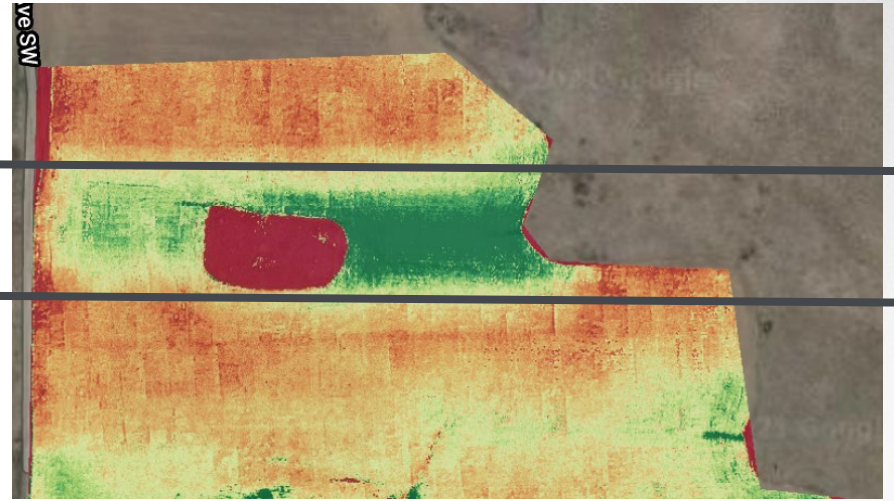
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Miravis NEO 13.7floz/A



Miravis NEO 13.7floz/A



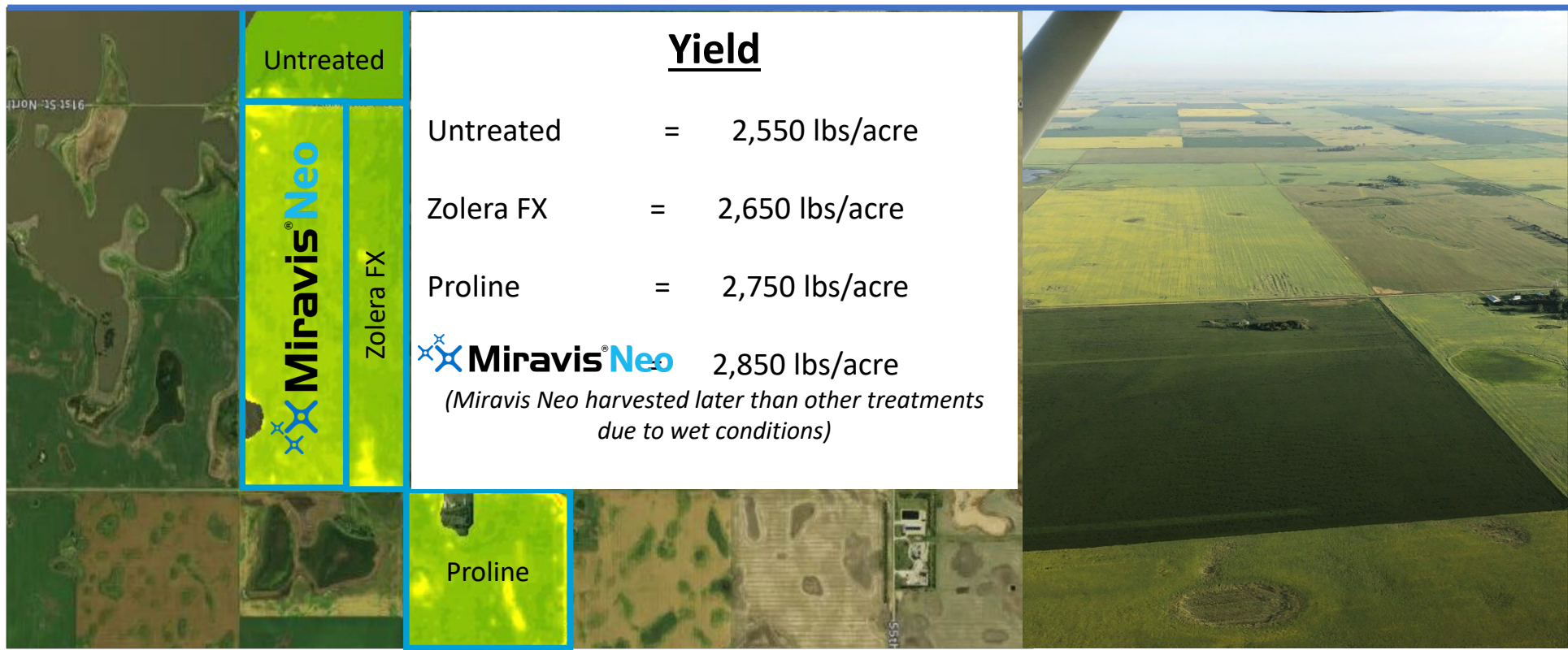
Canola Greening Effect Post Flower





Miravis Neo Increases Canola Yields – Tolley, ND 2019

Grower Side by Side



\$.39/canola

\$39 ROI over Proline

\$117 ROI over untreated

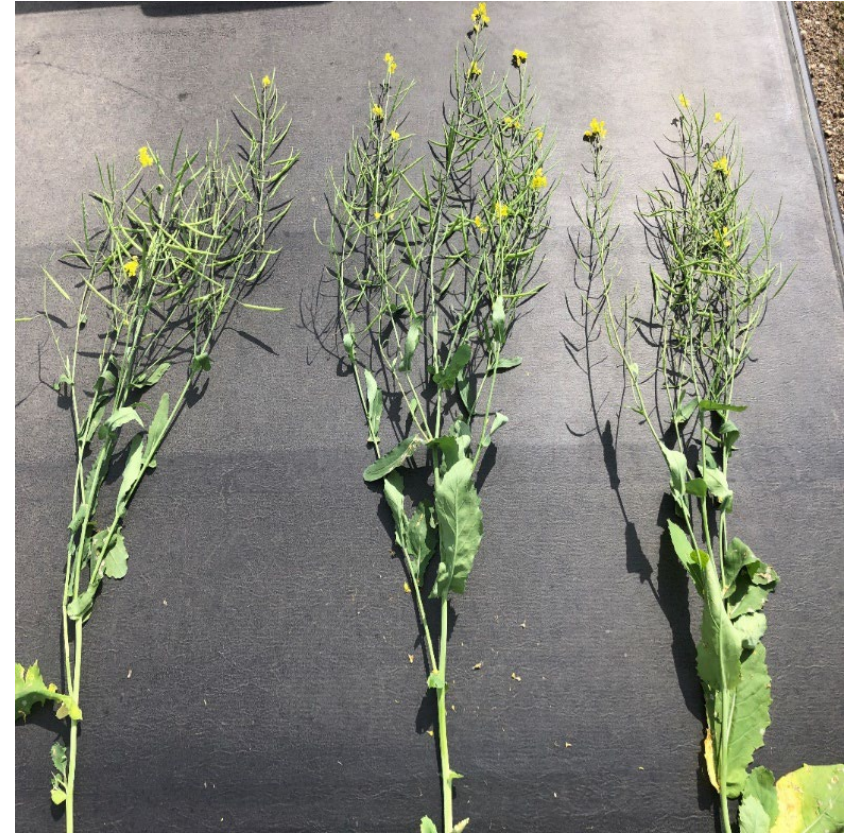
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Miravis Neo Increases Canola Yields – Tolley, ND

Grower Side by Side

Sprayed July 6th, 2019
Satellite Image: July 18th, 2019
Photos: July 24th, 2019

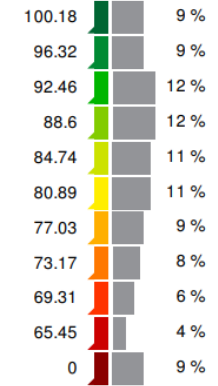
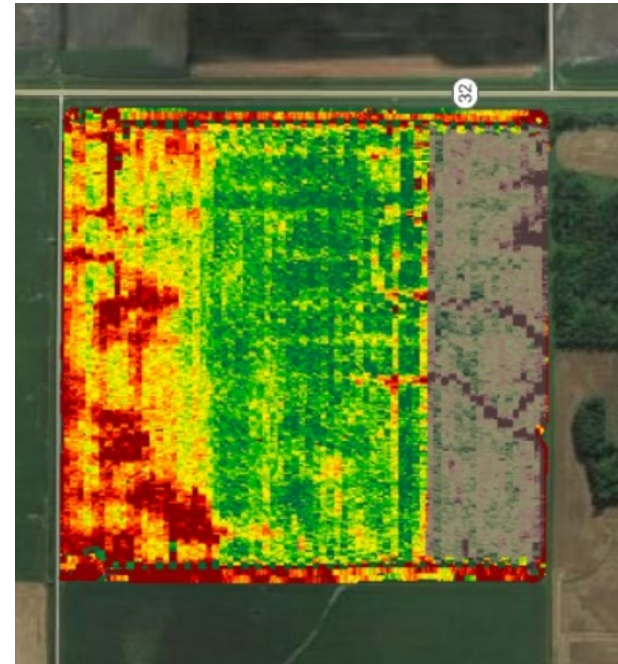
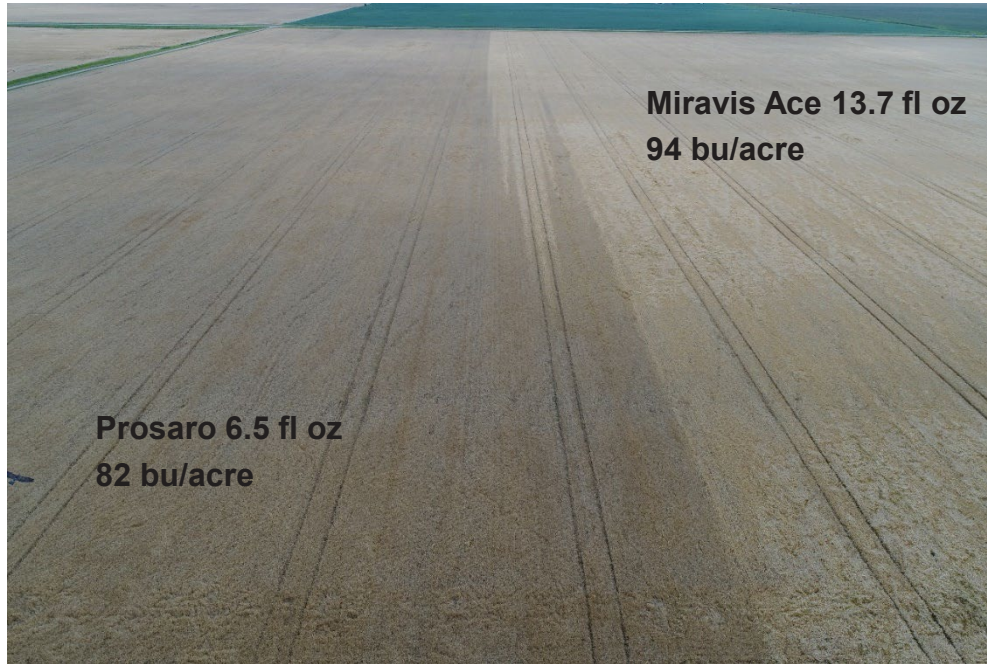


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Improve crop performance on Wheat with Miravis Ace

Red Lake Falls, MN



Classification: Public

Grower Trials – [Red Lake Falls, MN] – [August 22, 2020]

Author firstmiddlelast Initials Go Here with MM/YY Date

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growmore™
wheat

syngenta®



rowmore™
wheat

ta®

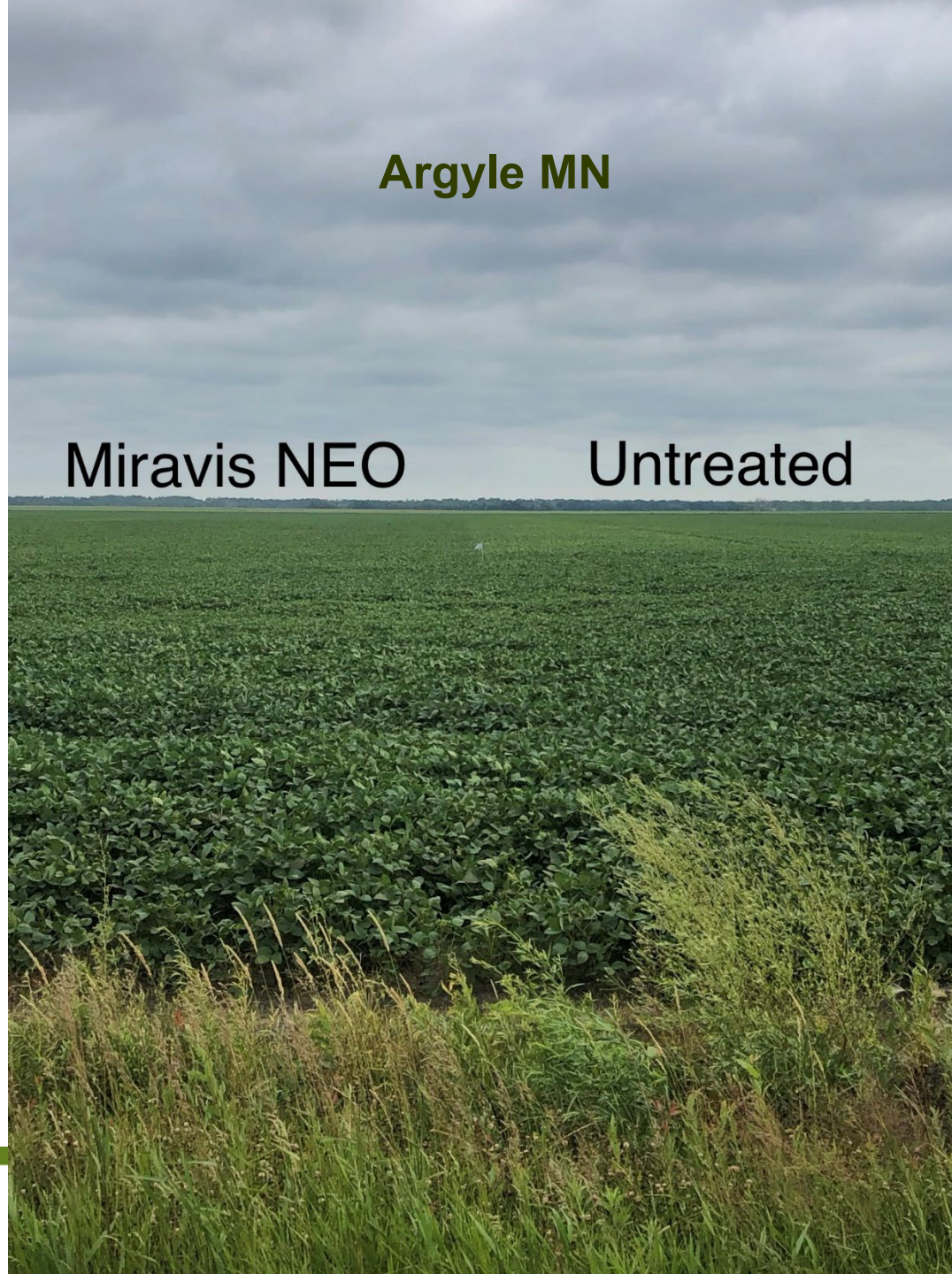
Roseau County



Argyle MN

Miravis NEO

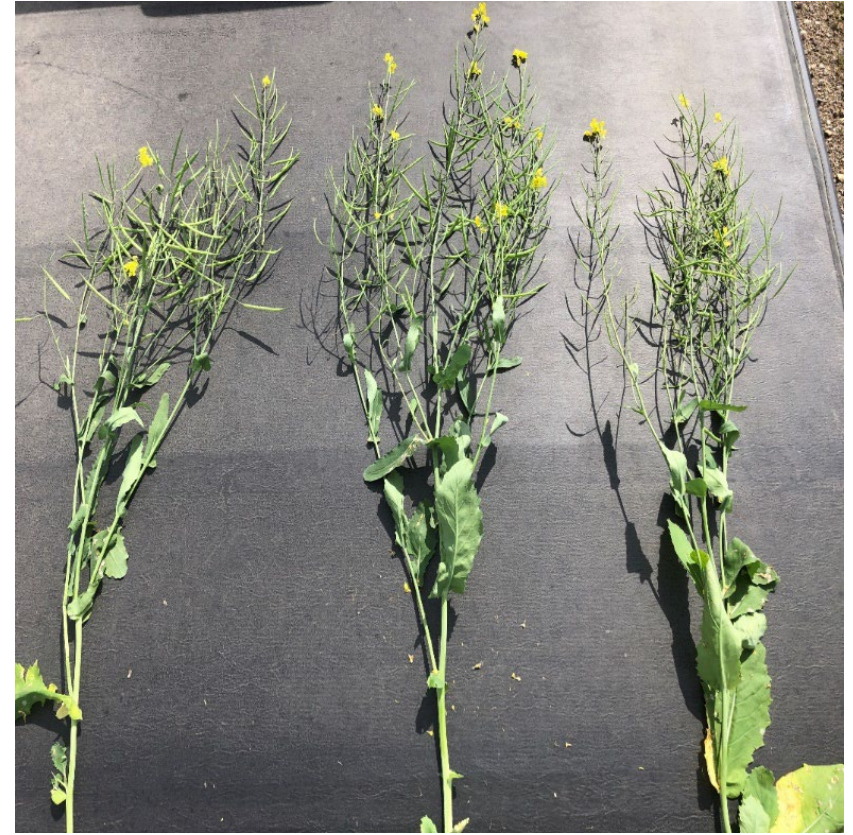
Untreated



Miravis Neo Increases Canola Yields – Tolley, ND

Grower Side by Side

Sprayed July 6th, 2019
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