



TECC AGRICULTURE LTD

ALFALFA FUNGICIDE TRIALS,
VERNER, ONTARIO
FUNDING BY NOFIA AND OSCIA



SEPT 2021 // PREPARED BY BEN SCHAPELHOUMAN CCA-ON



Overview

MANAGING ALFALFA LEAF DISEASES IN NORTH EASTERN ONTARIO

North Eastern Ontario's growing season climate is relatively cool and moist compared to other production regions in North America. As such, outbreaks of Common Leaf Spot (*Pseudopeziza medicaginis*) and Lepto Leaf Spot (*Leptosphaerulina briosiana*) are occasionally observed to cause moderate to severe yield and quality losses.

Priaxor® fungicide is registered for control of Common Leaf Spot. Research out of Wisconsin has suggested there may be yield and quality benefits to using Priaxor® when fungal leaf diseases are anticipated. Field-scale trials were required to see if this would also be true in North Eastern Ontario, especially as growers look to adopt low lignin varieties which may stand in the field longer between (fewer) cuts.

A 1st cut, field-scale trial was conducted at Parview Farms Inc. (Cache Bay, Ontario).

Priaxor rate: 120 ml/ac
Application date: May 2, 2021
Harvest date: June 8, 2021

A 2nd cut, field-scale trial was conducted at Krause and Sons Land & Livestock (Verner, Ontario).

Priaxor rate: 120 ml/ac
Application date: July 30, 2021
Harvest date: September 19, 2021

Parview Farms Inc Trial Results

The Parview Farms Inc. trials were conducted on a 34.5-acre alfalfa/grass field which was about 20 cm high at the time of Priaxor fungicide application on May 2, 2021.

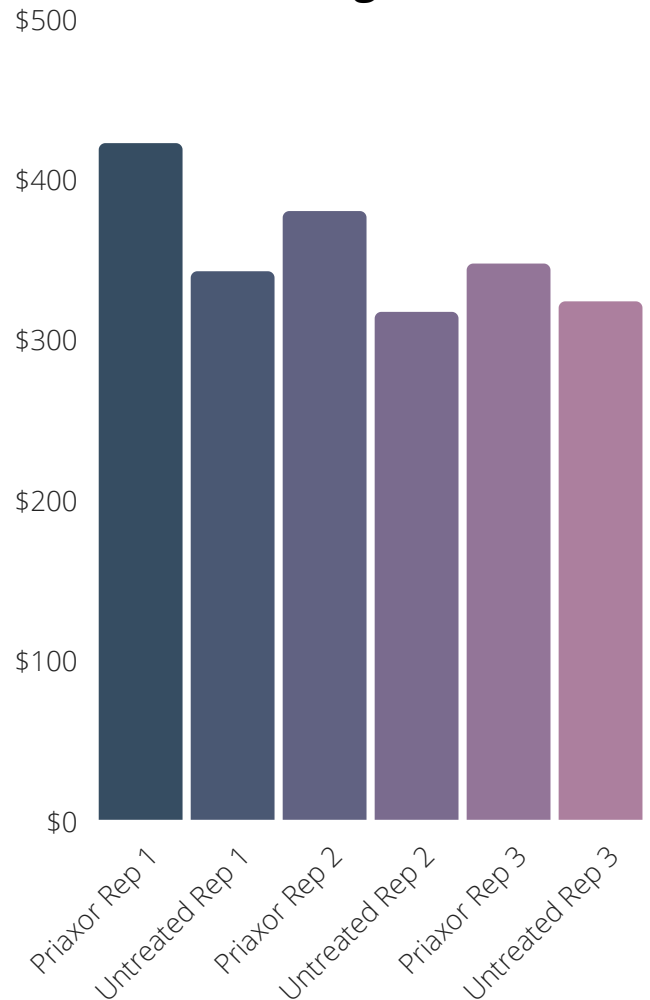
There were three treated reps and 3 untreated reps. There were no obvious signs of leaf disease at the time of the application. Growing conditions during May and June were very warm and extremely dry.

The alfalfa was harvested as large round baleage and yields were calculated by observing bale volumes x average bale weights. No statistical differences in crude protein levels were observed based on lab results.

There were no obvious signs of leaf disease leading up to, or at harvest.



Gross Margin/acre



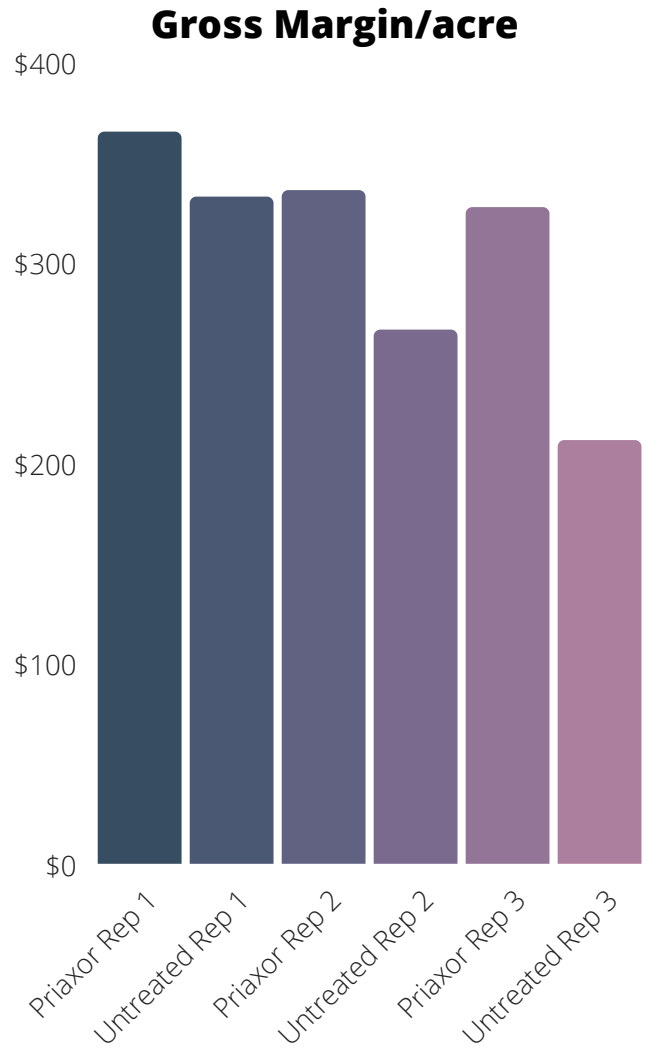
Priaxor Fungicide
Profit (loss) per acre

\$28.47/AC

After the cost of product (approx \$18/acre) and application cost (approx \$9/acre), the mean of the Priaxor treated reps were \$28.47/acre more profitable than the mean of the untreated checks. The use of Priaxor fungicide was more profitable despite the lack of obvious disease pressure.

Krause and Sons Land & Livestock Trial Results

The Krause and Sons Land & Livestock 2nd cut trials were conducted on a 51.5-acre alfalfa/grass field which was about 20 cm high at the time of Priaxor fungicide application on July 30, 2021. There were three treated reps and 3 untreated reps. There were no obvious signs of leaf disease at the time of the application. Growing conditions during August and September were very warm and with about average precipitation. The alfalfa was harvested as large square bales and yields were calculated by observing bale volumes x average bale weights. Feed values were not analyzed. There appeared to be visual differences between treated and untreated reps ahead of mowing.



Priaxor Fungicide
Profit (loss) per acre

\$45.77/AC

After the cost of product (approx \$18/acre) and application cost (approx \$9/acre), the mean of the Priaxor treated reps were \$45.77/acre more profitable than the mean of the untreated checks. The use of Priaxor fungicide was more profitable despite the lack of severe disease pressure.