

BASIC INFORMATION

TARGET	Improved efficacy of soil applied fungicides for the control of <i>Rhizoctonia</i> (<i>Rhizoctonia solani</i>)
CROP	Potato (<i>Solanum tuberosum</i>)
RATE	2,5 l/ha
LOCATION	Rupert, Idaho • USA
TRIAL DATE	Fall 2014
RESEARCHER(S)	Jeff Miller, Ph.D., Miller Research



TARGET: CONTROL OF RHIZOCTONIA

Rhizoctonia solani

APPLICATION

In 2014, Dr. Jeff Miller conducted a study in southeastern Idaho that demonstrated the effect of **TRANSFORMER** on the control of *Rhizoctonia* in potatoes. Two widely-used soil-applied fungicides, Quadris® (18,2 % azoxytrobin + 7,3 % cyproconazole) at 0,67 l/ha and Priaxor® (14,33 % fluxapyroxad + 28,58 % pyraclostrobin) at 0,5 l/ha were applied in-furrow.

In addition, an application of Priaxor® at 0,5 l/ha + **TRANSFORMER** (2,5 l/ha) was also made in-furrow at planting. This study was commissioned by fungicide manufacturer and an agricultural input distributor.

RESULTS

All three applications returned statistically significant improvements in *Rhizoctonia* control compared to the untreated check. The difference in disease control between the stand-alone applications of Quadris® and Priaxor®, was not statistically significant. However, the difference in disease control between the Priaxor® and the Priaxor® + **TRANSFORMER** treatments was statistically significant. The Priaxor® + **TRANSFORMER** treatment controlled *Rhizoctonia* significantly better than Priaxor® alone. In addition to disease control, Dr. Miller also measured marketable yield for each of the treatments. As with disease control, the Priaxor® + **TRANSFORMER** application returned the best results. It produced more marketable yield than either fungicide standalone application.

FIGURE 1

Rhizoctonia severity (%)

55 days after planting

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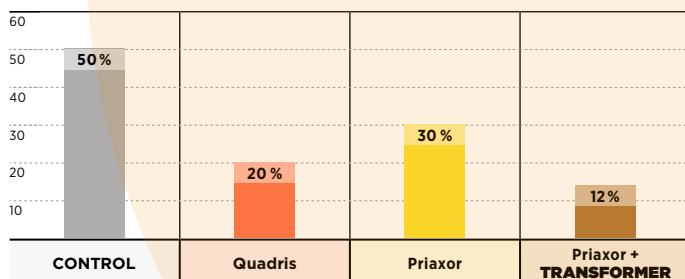


FIGURE 2

Rhizoctonia severity (%)

76 days after planting

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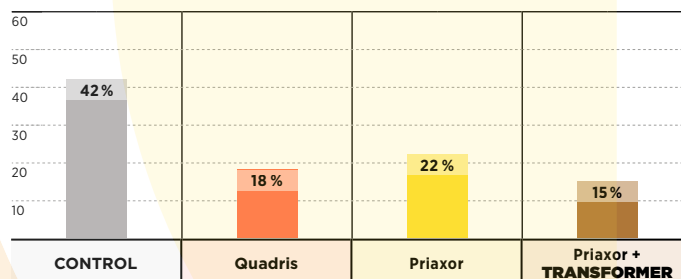
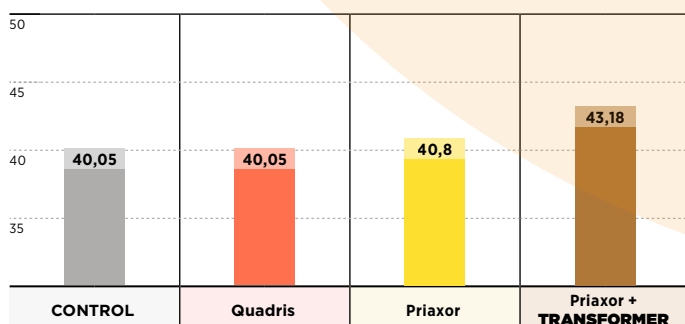


FIGURE 3

Marketable yield (t/ha)

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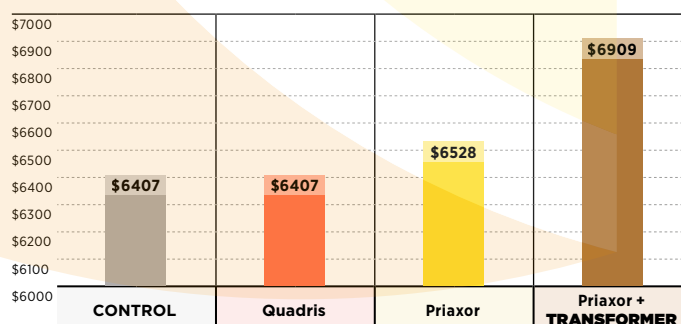
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FIGURE 4

Economic return per hectare

at \$0,16/kg

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