

YP 2/05 Final Report

Project Title: Leaf Rust Control in Barley

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Executive Summary:

Two trials, Brentwood and Warooka, were established in 2004 and 2005 to investigate the most effective fungicidal control of barley leaf rust. A large range of products and timings were tested in the two years of the project.

Season 2004 provided significantly higher leaf rust pressure when compared to 2005. This variation in disease development and severity has proved highly beneficial in regard to developing disease management strategies for both the higher and the lower leaf rust risk areas of the southern cropping regions of Australia.

When the disease pressure was high (2004), then a double spray strategy (GS31 + GS39) using the more effective strobilurin chemistry was the most effective treatment. When the disease severity was lower and developed much later in the season (2005) then a single spray (GS39) of a cheaper trizole was the most effective treatment.

This project has been very successful at determining the most cost effective fungicidal method of leaf rust control. Prior to this project there was very little understanding of how effective the current available fungicides were for the control of the disease. This project has improved grower and advisor understanding of fungicide efficacy, and has improved understanding of critical crop growth stages at which to apply fungicides