SAGIT Research Snapshot

SANTFA12-01: Ultra-high-pressure injection to increase fungicide efficiency

FAST FACTS

The details

Start: July 1, 2012

Finish: June 30, 2013

Project leader: Greg Butler, SA No-Till Farmers Association

The problem

Growers wanted data on whether there are any differences in fungicide efficacy due to application.

The research

Ultra-high pressure (UHP) injection of fungicide was used to improve fungicide efficacy on rhizoctonia in wheat.

RESEARCH AIM

- Investigate rhizoctonia control achieved when fungicide was injected into the soil at ultra-high-pressure compared to traditional fungicide application via seed treatment.

IN THE FIELD

The concept was designed in conjunction with SARDI with its researchers reporting increased efficacy on rhizoctonia with fungicide placement below the seed bed in previous years.

In a nutshell

There was no increase in fungicide performance by ultra-high-pressure injection compared to traditional seed dressing application.

The trial was sown by Andrew Bird, SANTFA, and Greg Butler, SANTFA, using a Serafin Ulti-sow single disc seeder and a FLOW 55psi UHP Pump and injection nozzle.

RESULTS

UHP injection of fungicide for rhizoctonia control in wheat did not reduce lesions on seminal or on crown roots compared with a seed dressing treatment of fungicide. UHP injection did not improve wheat yields and there was a marginal but insignificant reduction in wheat yield observed from the UHP application method compared to the fungicide seed treatment.

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