

10.4 PR70 RELEASE™ SEED TREATMENT DEMONSTRATION - LAKE BOLAC

Location: SFS site Lake Bolac

Researchers:

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Aim:

To demonstrate the effectiveness and possible yield advantages of Kellalac wheat using two different fertiliser rates with and without PR70 Release treatment.

Results:

Kellalac wheat was used in the trial and direct drilled into the raised beds.
Sown at 100 kg/ha on the 11th of June.

Background:

PR70 Release is a naturally occurring soil fungus (*Penicillium radicum*) that is effective at releasing soil bound phosphorus. PR70 Release works by rapidly colonising the plant root system promoting better plant establishment, vigour and yield increase. PR70 Release is produced by Bio-Care Technology Pty Ltd Wodonga Vic.

Treatment	Yield	Protein	Screenings
DAP @ 107 kg/ha nil PR70	5.51 t/ha	13.6 %	3.0 %
DAP @ 107 kg/ha + PR70	5.11 t/ha	13.3 %	3.2 %
DAP @ 51 kg/ha nil PR70	4.58 t/ha	13.0 %	2.5 %
DAP @ 51 kg/ha + PR70	4.58 t/ha	12.6 %	2.4 %

Comments:

PR70 Release is commercially available and costs approximately \$100 to treat one tonne of grain, therefore \$10/ha when sown at 100 kg/ha.

In our demonstration the higher fertiliser (DAP) rates produced higher yields, slightly higher protein and also slightly higher screenings when compared to the lower rate of DAP, as you would expect.

The PR70 did not have any influence on yield at the lower rate of DAP, however at the higher rate of DAP the PR70 treated plot yielded 400 kg/ha less than the untreated plot. Therefore our trial demonstrates that PR70 did not produce significantly beneficial results in our area this year. More extensive replicated trial work is now needed in our soil type to confirm the potential benefits of PR70.

Cropping Guidelines For Southern Victorian Producers

Southern Farming Systems with funding from the Grains Research and Development Corporation has developed a Cropping Guideline booklet that highlights key checks throughout the year for producers to consider when growing cereal and canola crops. This 48 page full colour booklet will be in "Ute Guide" format, small enough to go into the glovebox of the ute and being produced on laminated paper, can be taken into the field. This booklet should be an excellent resource and being structured on a calendar basis, should be extremely beneficial when planning your programme and monitoring your crops throughout the year.

The cost for Southern Farming Systems members is **\$20 inc GST, Postage and Handling.**

To place an order for your booklet please send your name and address with your cheque to:

Southern Farming Systems Ltd
P.O. Box 916
Geelong 3220

(Or collect from 96 Yarra St, Geelong.)