Systiva®
Seed Treatment Fungicide

TECHNICAL BULLETIN

Getting extra value from spring barley crops

Systiva® seed treatment provides disease protection in spring-sown, as well as autumn-sown cereals. The trial results presented here confirm that using Systiva in spring barley delivers superior disease control and reconfirms Systiva's outstanding ability to profitably boost yields.

Multiple trials in autumn-sown cereals have established Systiva's effectiveness in controlling key seed-borne, soil-borne and foliar diseases during the early stages of plant growth. Most notably, Systiva provides excellent, long-lasting control of scald.

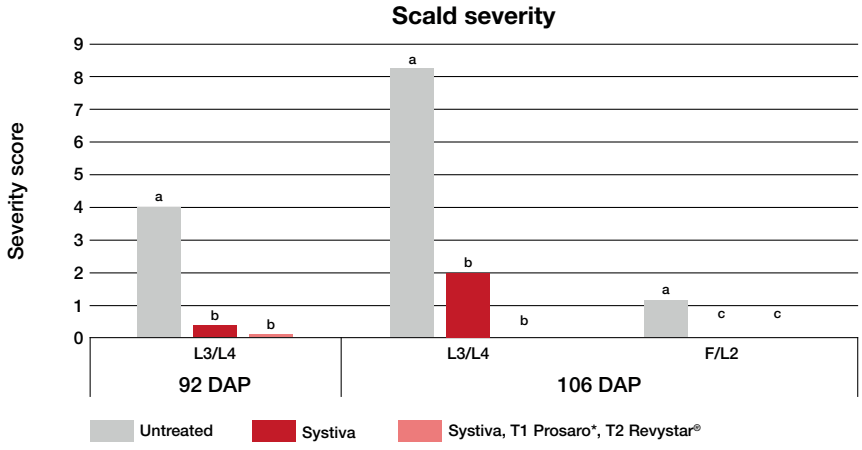
By following up with a robust programme of foliar fungicides with other modes of action, that high-level protection can be locked in for the rest of the season.

Spring-sown barley crops are in the ground for a shorter period and are planted at a higher density so a lower rate of Systiva (750 mL/T seed) can be used to treat these crops, although a higher rate (1 L/T seed) may be warranted in high pressure situations.

Three field trials were conducted in Canterbury in the 2019–20 season, all sown in September with Milford barley seed harvested from a site with a high incidence of Ramularia. Systiva seed treatment (750 mL/T seed) with and without a foliar fungicide programme was compared to an untreated control.

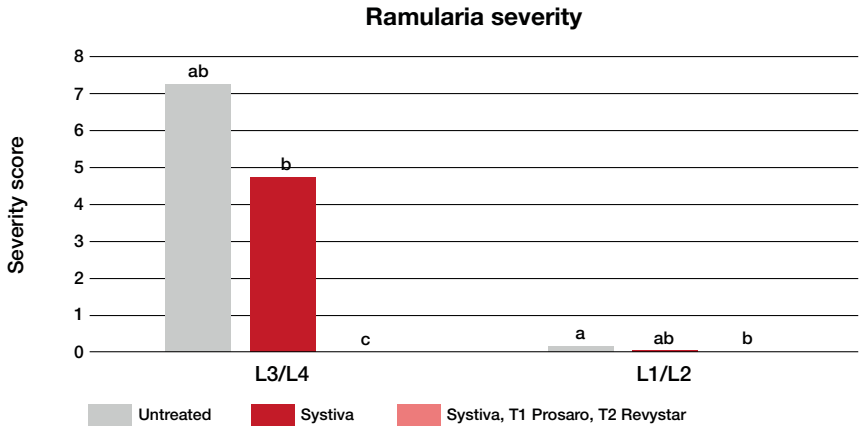
Significantly reduced scald

Systiva very effectively eliminated the threat of scald damage in barley. In one of the trials (Highbank, Methven) Systiva, with or without a foliar fungicide programme, held scald at very low levels (P<0.01) in the lower canopy and eliminated it in the upper canopy.



Suppressing Ramularia

Ramularia can infest a crop through seed-borne inoculum and from infested crop residues in the soil. Ramularia-infested seed was sown at sites where barley had been grown before. One of the 3 sites (Lowcliffe, Hinds) had Ramularia-infected foliage. Systiva alone suppressed Ramularia severity in the lower canopy, while a full programme of Systiva and foliar fungicides totally controlled this disease.



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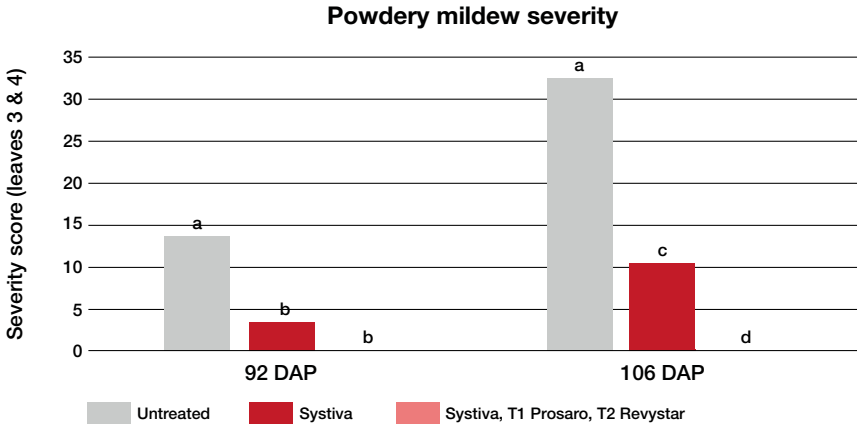
Significantly reduced powdery mildew

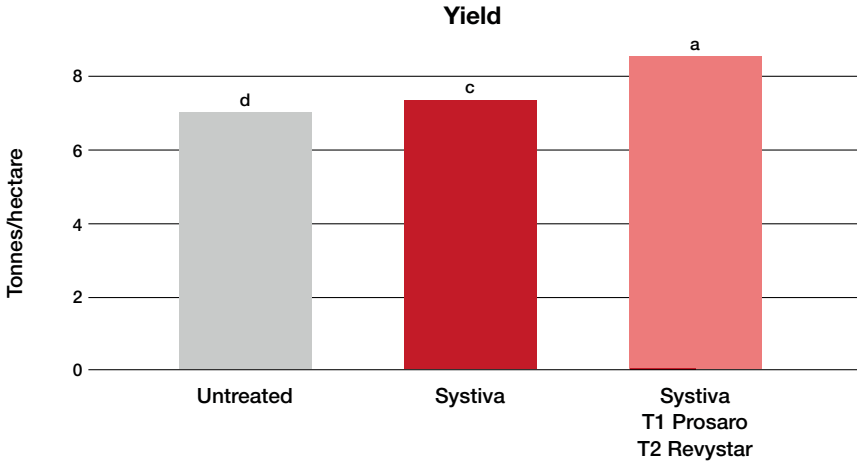
Powdery mildew can be an insidious disease in barley, steadily robbing growers of yield while the focus is on higher-profile, potentially more damaging diseases.

Powdery mildew was only present at Highbank, Methven, where Systiva alone provided significant control in the lower canopy 106 days after sowing and the full programme eliminated it.



Increased yield

Systiva seed treatment gets the crop off to a strong start with proven yield benefits. Across the 3 trials – Lowcliffe, Highbank and Somerton (Rakaia), Systiva alone significantly lifted barley yield by 610 kg/ha. Systiva followed by a programme of foliar fungicides lifted yields by 1770 kg/ha over the untreated plots.



Conclusion

Systiva seed treatment gets spring and autumn-sown barley crops off to a great start through its ability to control a range of diseases in early growth stages. The impact of this early protection can be locked in and leveraged up by following it with a robust foliar fungicide programme appropriate to the cultivar.

Scan this QR code for more information or call Colin Dunstan on **027 222 7205**

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