

i-Man: Spring Barley Mn Seed Treatment



Connecting Agri – Science with Farming

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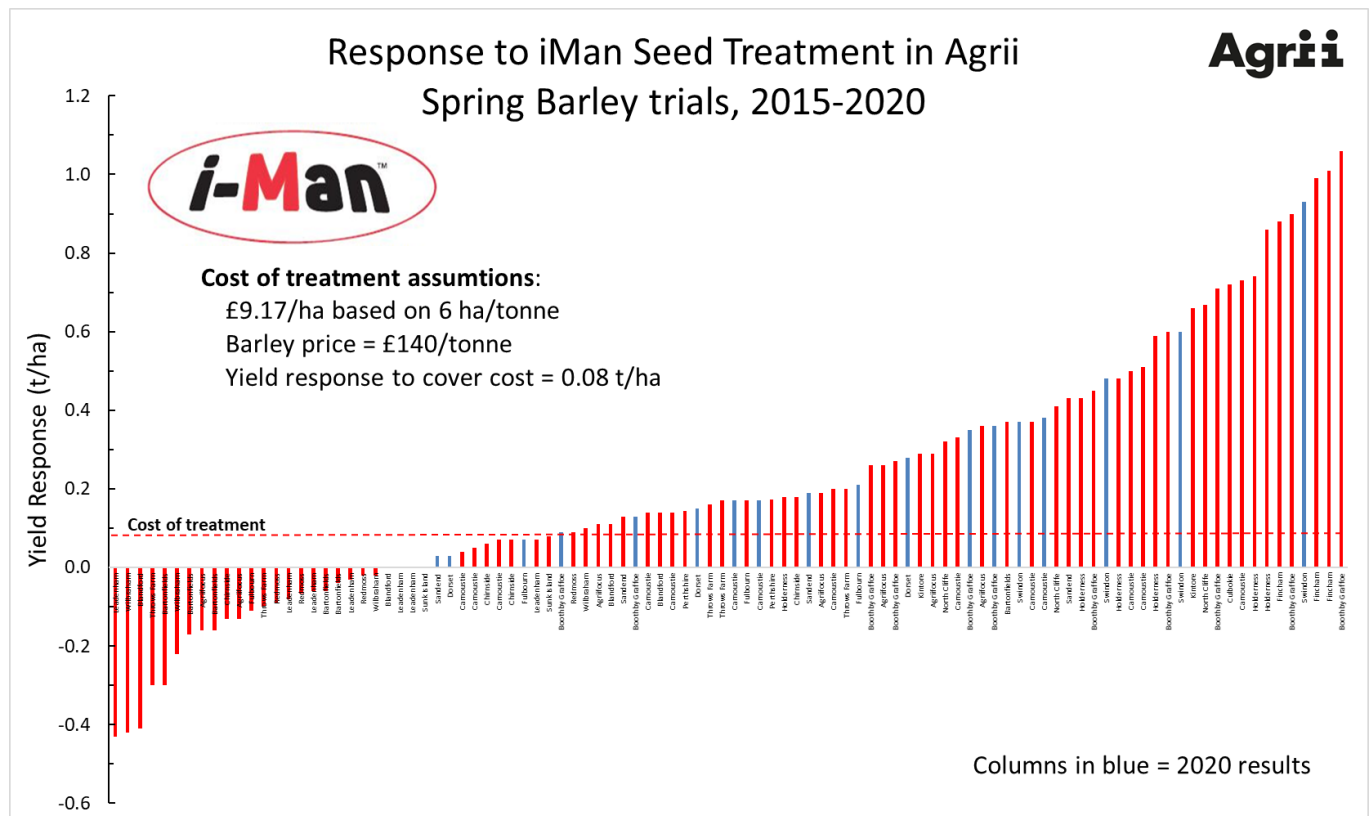
Why Use i-Man Seed Treatment?

✦ Benefits of i-Man Seed Treatment

- ✦ Applies manganese (Mn) at 450 g/tonne
 - ✦ High load on seed
 - ✦ Delivers 20% more Mn than New Manganese Solution (NMS)
- ✦ Formulated in a complexed-form
 - ✦ Improved uptake compared with sulphate (Seedsman) or carbonate (Teprosyn) forms
- ✦ Co-formulated with a collating agent which:
 - ✦ Protects Mn from being locked up in the soil
 - ✦ Allows dual uptake through both the seed coat and roots unlike other formulations
- ✦ Trials confirm that i-Man delivers an improved crop response:
 - ✦ Higher crop biomass in spring
 - ✦ Significant yield benefits
- ✦ A low dust formulation
- ✦ Compatible with all other seed treatments in the Agrii portfolio Zax (zinc), AgNition (copper) and Take Off (phosphite + pyroglutamic acid)
- ✦ Exclusive to Agrii

✦ Results from Agrii's Spring Barley Trials

- ✦ Significant yield responses have been seen in Agrii's spring barley trials over the past six years



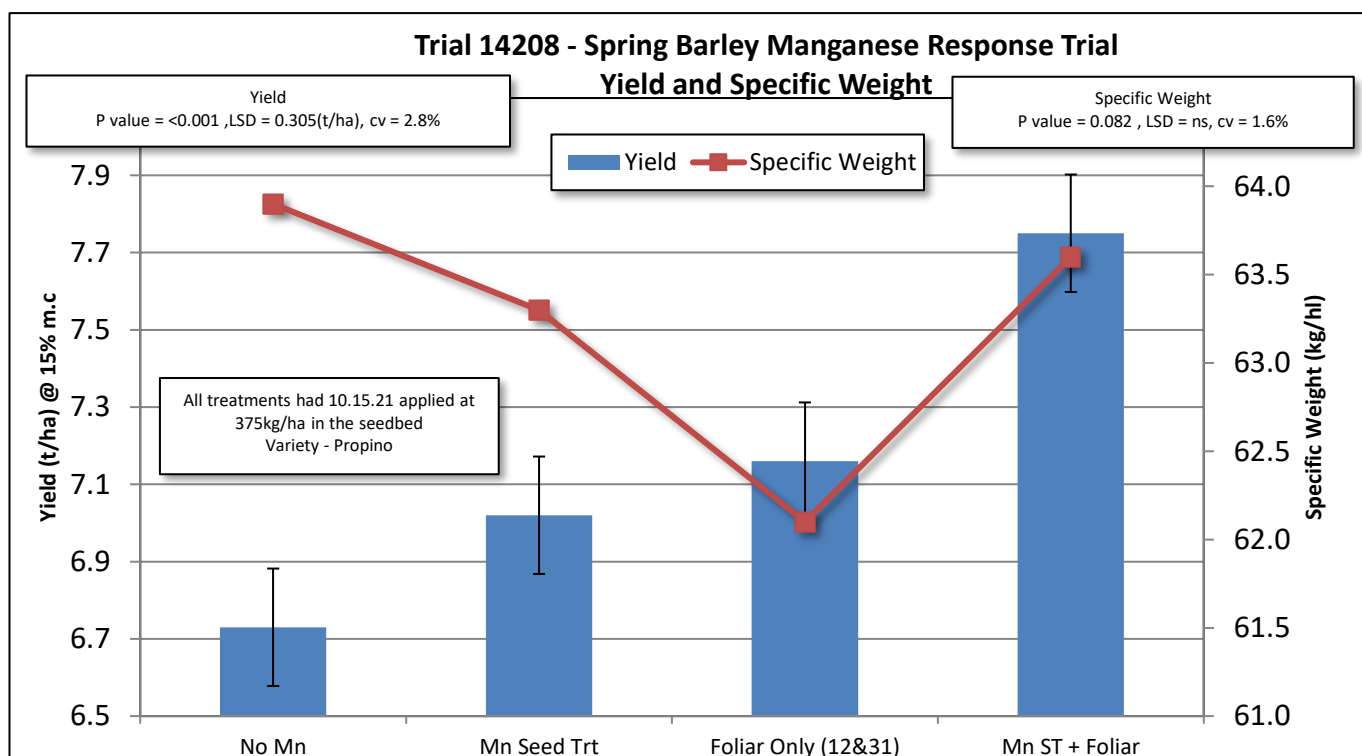
What situations favour the use of iMan Seed treatment?

✦ Factors Affecting Manganese Availability

- ✦ Any soils with pH>7.5
- ✦ Sandy soils with pH>6.5
- ✦ Recent liming or over-liming
- ✦ Organic, peaty, marshland soils with pH>6
- ✦ Poor drainage
- ✦ Under-consolidated seedbeds
- ✦ After pasture
- ✦ High P indices or high P use
- ✦ Low K levels
- ✦ Low soil temperatures and low rainfall
- ✦ N deficiency
- ✦ 2nd or 3rd cereals

Using i-Man As Part of a Programmed Approach to Crop Nutrition

- ✦ Trial results show the importance of using Mn seed treatment as part of a programme to help optimise Mn status in cereal crops; the graph shows that the sequence of seed treatment followed by foliar Mn outperforms each input alone.



Why Treat Early in the Life of the Crop using a Seed Treatment?

✦ Mn Levels: The Agrii-Lancrop Study, 2018-19

- ✦ The red line indicates the average level (in ppm) from historical tissue analyses of hundreds of crops. The black line indicates the typical level in high yielding crops.
- ✦ The study shows that manganese is required early in the crops life and its requirement continues to increase as the crop develops.
- ✦ The study provides strong supporting evidence that a seed treatment is one of the best ways of providing an early targeted source of Mn to the crop.

