Seed Treatments

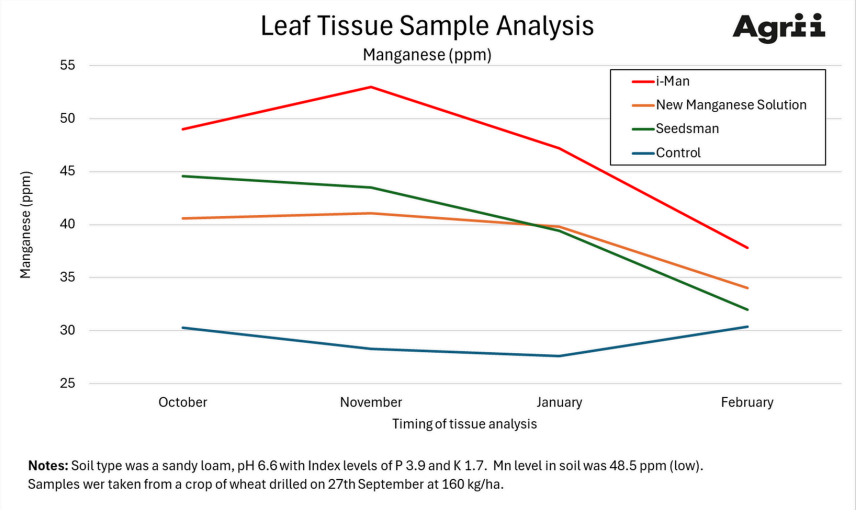
i-Man

High-load Manganese Cereal Seed Treatment

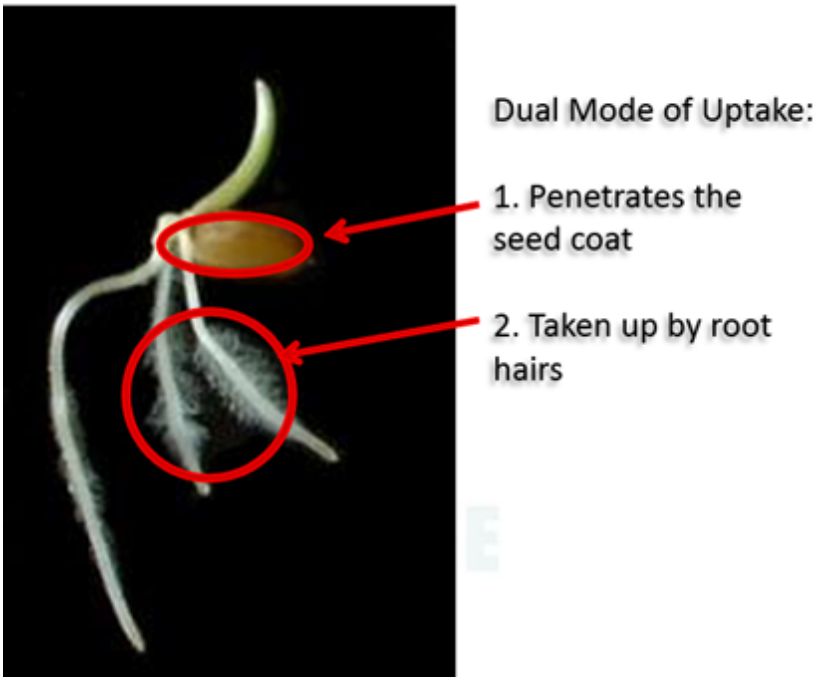
Key Benefits

+ Applies manganese (Mn) at 450 g/tonne High load on seed
+ Delivers 20% more Manganese than New Manganese Solution (NMS)
+ Formulated in a complexed-form for improved uptake compared with sulphate or carbonate formulations
+ Co-formulated with a chelating agent which stops Mn from being locked up by the soil
+ Allows dual uptake through both the seed coat and roots unlike other formulations
+ Tissue test results show higher leaf uptake compared with other seed treatments
+ Trials confirm that i-Man delivers an improved crop response:
+ Higher biomass in the autumn and spring
+ Consistent yield benefits
+ A low dust formulation
+ Compatible with all other seed treatments in the Agrii portfolio
+ Exclusive to Agrii and developed and tested over 8 years in collaboration with DeSangosse.

More manganese into the plant



Notes: Soil type was a sandy loam, pH 6.6 with Index levels of P 3.9 and K 1.7. Mn level in soil was 48.5 ppm (low). Samples wer taken from a crop of wheat drilled on 27th September at 160 kg/ha.



Manganese Deficiency Risk Factors

- 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

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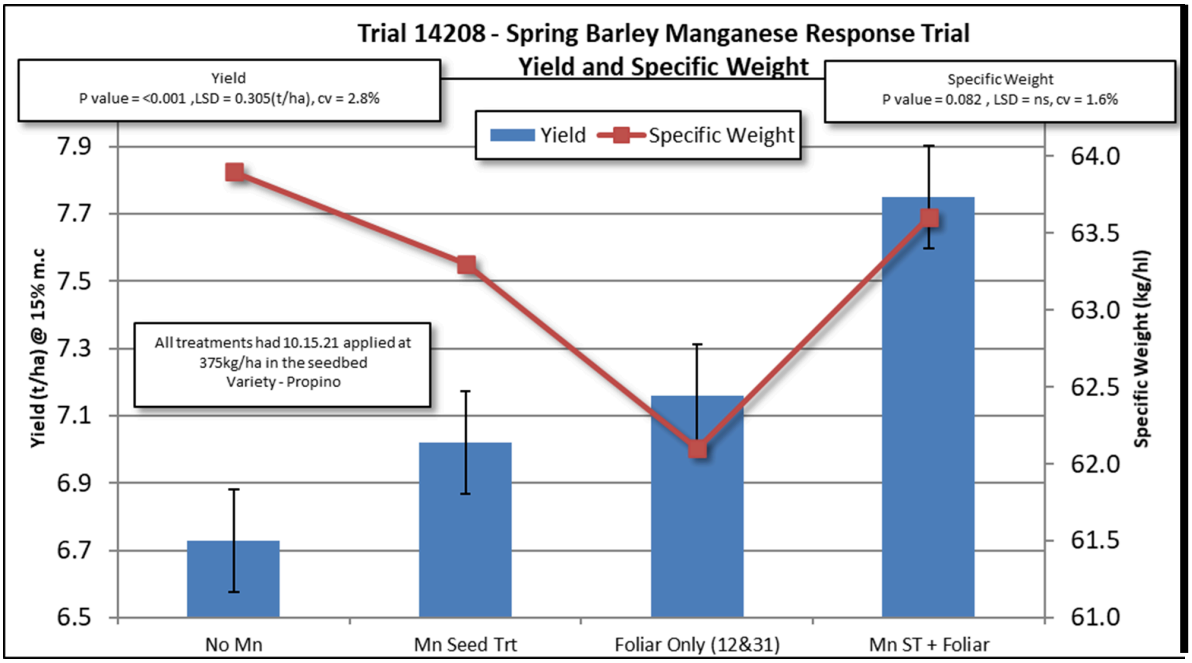
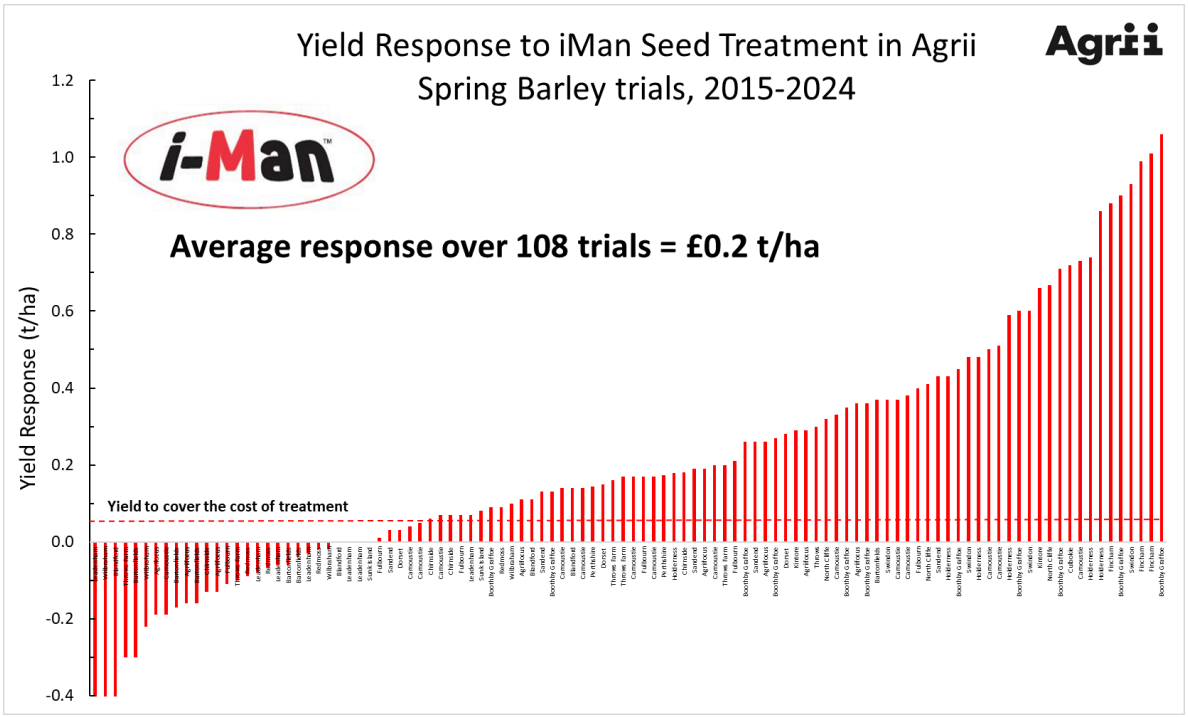
Manganese Deficiency Symptoms

- Deficiency is not obvious unless it is very severe
- It is due wither to low levels in the soil or poor availability due to soil lock-up
- Manganese can be determined by both soil and tissue analysis
- Severe deficiency can show as chlorotic spots, stripes or mottling or light brown lesions

Use in conjunction with foliar sprays





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Agri intelligence

Crop Response to i-Man

- Small but consistent yield response (~0.2t/ha) across winter and spring barley and wheat
- Sets the crop up better and bridges the 'hunger gap'
- 20% of Agrii's winter and spring barley is treated annually and 6% of winter wheat