



## Influence of Plant Nutrition on the Germination Results of Seed Lupins

Lake King, WA (2019)

### Trial Protocol

- **GSP:** Manganese with MAP at planting
- Germination average of two tests
- **Planting Date:** 10/06/2019
- **Treatment Date:** 25/07/2019
- **Variety:** Barloc Lupins

Australian Grain Farming Company

### Treatments

- Verno Manganese at 400gm/ ha
- EF Manganese at 400mL/ ha  
+ NutriFusion Boron at 500mL/ ha  
+ LoKomotive at 5L/ ha

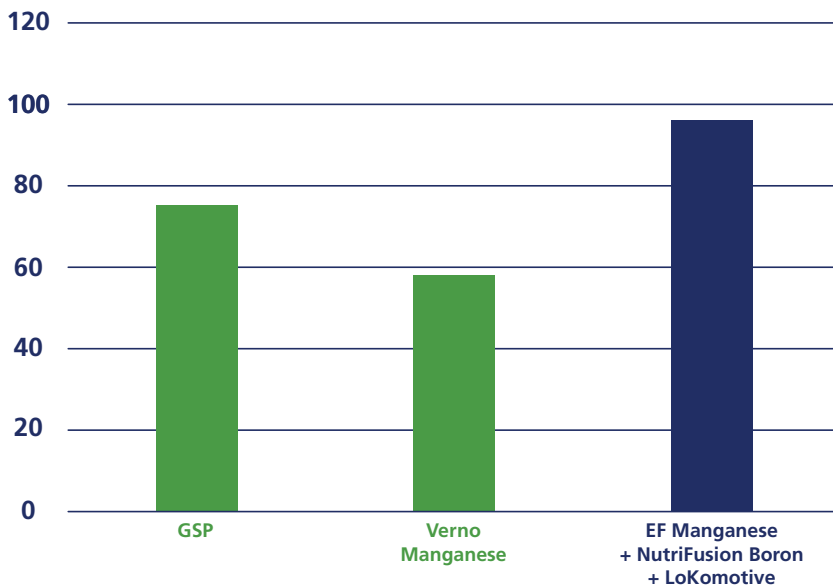
*All treatments inclusive of GSP*



**Ross Milne**

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Lupin Seed Germination Test Percentage (%)



	Germ. Test %
GSP	75
Verno Mn	58
EF Mn + NF B + LoKo	96

### Conclusions

- Inclusion of Boron and LoKomotive to EzyFlow Nano Manganese foliar brew has substantially increased germination percentage
- Boron is a critical trace element during fertilisation of dicotyledon plants, increasing length of the pollen tube
- Added potassium from the LoKomotive will have assisted with seed size and overall plant health during pollination
- All seed samples were tested for manganese levels at the same test and all showed similar Mn ppm
- Which leads to the fact that for improved Lupin seed viability an all-round nutrition focus is required

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