

Minnipa focus site, prepared 14 June 2024

Table 6. Minnipa focus paddock information.

Crop	Sowing	Maturity	Soil type	Stored moisture	Stubble	Initial N (0-60cm)	N applied
Wheat	1 June	24 Nov	Sandy loam, some clay	22 mm	Lentil	60 kg/ha	20 kg/ha

The focus paddock at Minnipa generally performs well for the area. However, it has some areas that are severely constrained and will yield approximately half of what the better areas do. The area where yield predictions are based on would yield approximately 80% of the best and represent approximately 60% of the paddock. This knowledge assists in decision making.

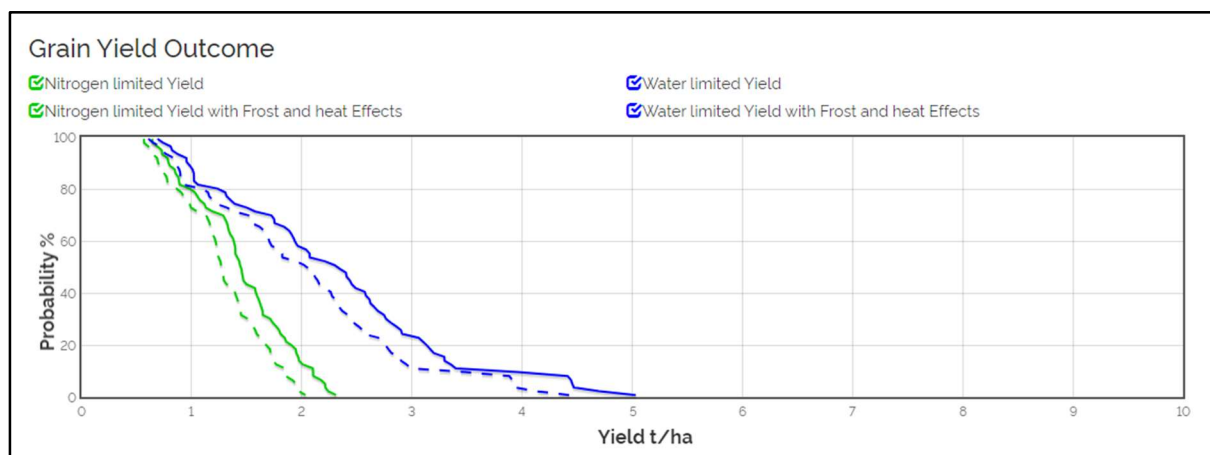


Figure 5: Yield Prophet graph from Minnipa, generated on 14 June 2024. *Green line indicates the predicted nitrogen limited yield and blue line indicates the water limited yield. The dotted blue line represents water limited yield potential with frost and heat effects. The dotted green line represents nitrogen limited yield potential with frost and heat events. This is based on the assumption that yield is only limited by these factors and no others (ie pests, weeds, diseases).*

What does the above tell us?

1. Yield potential ranges from 0.8 to 4.5 t/ha.
2. The nitrogen gap is moderate due to moderate starting N and low modelled mineralisation. It becomes larger as water limited yield potential increases.
3. Heat and frost, while they have an effect in this environment (0.5 t/ha), are not as important as N.

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