



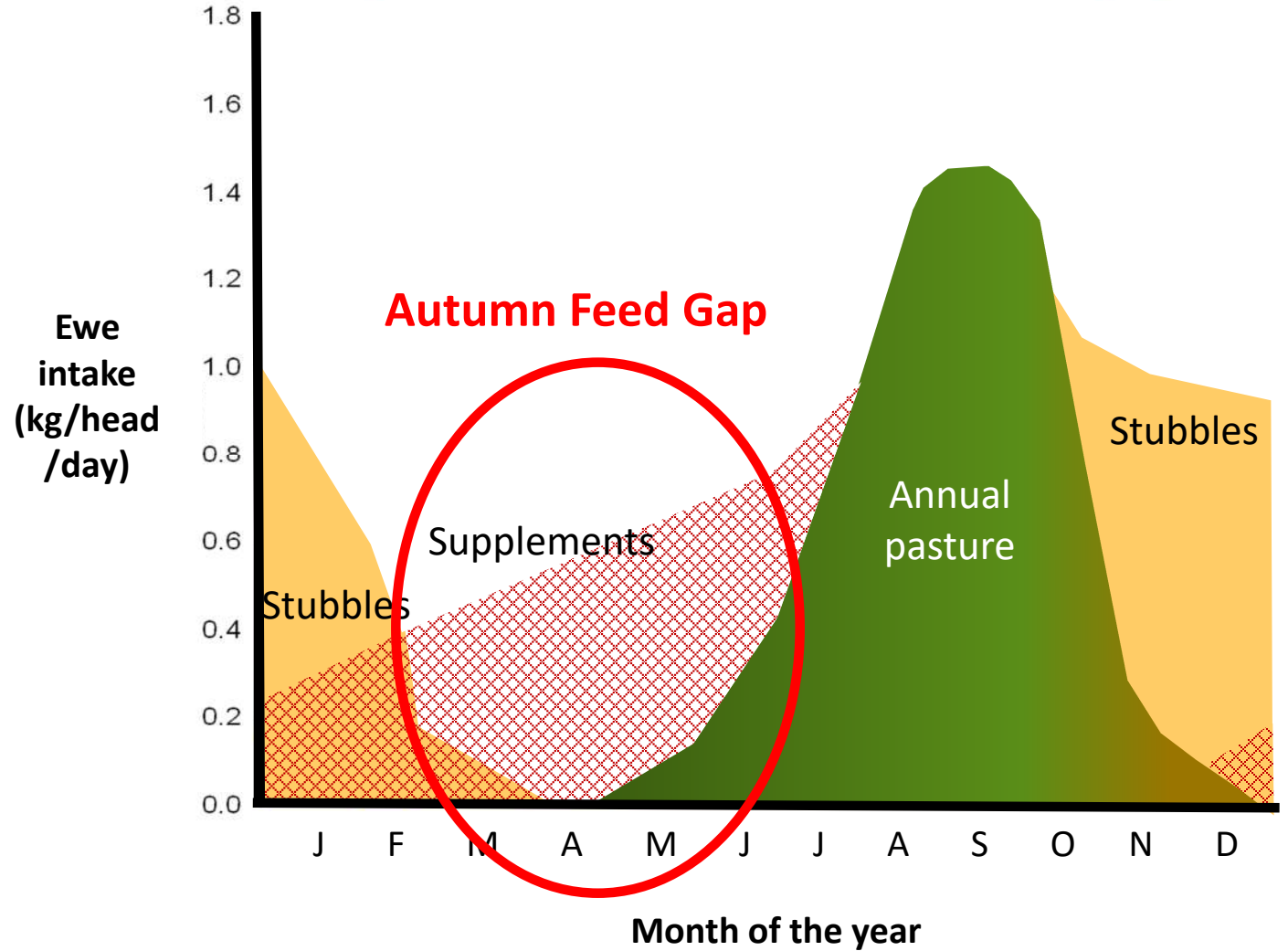
Use of nitrogen fertiliser to support salinity tolerance and promote edible biomass production in saltbush (*Atriplex nummularia*) forage systems.

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Matt Wilmot and Hayley Norman





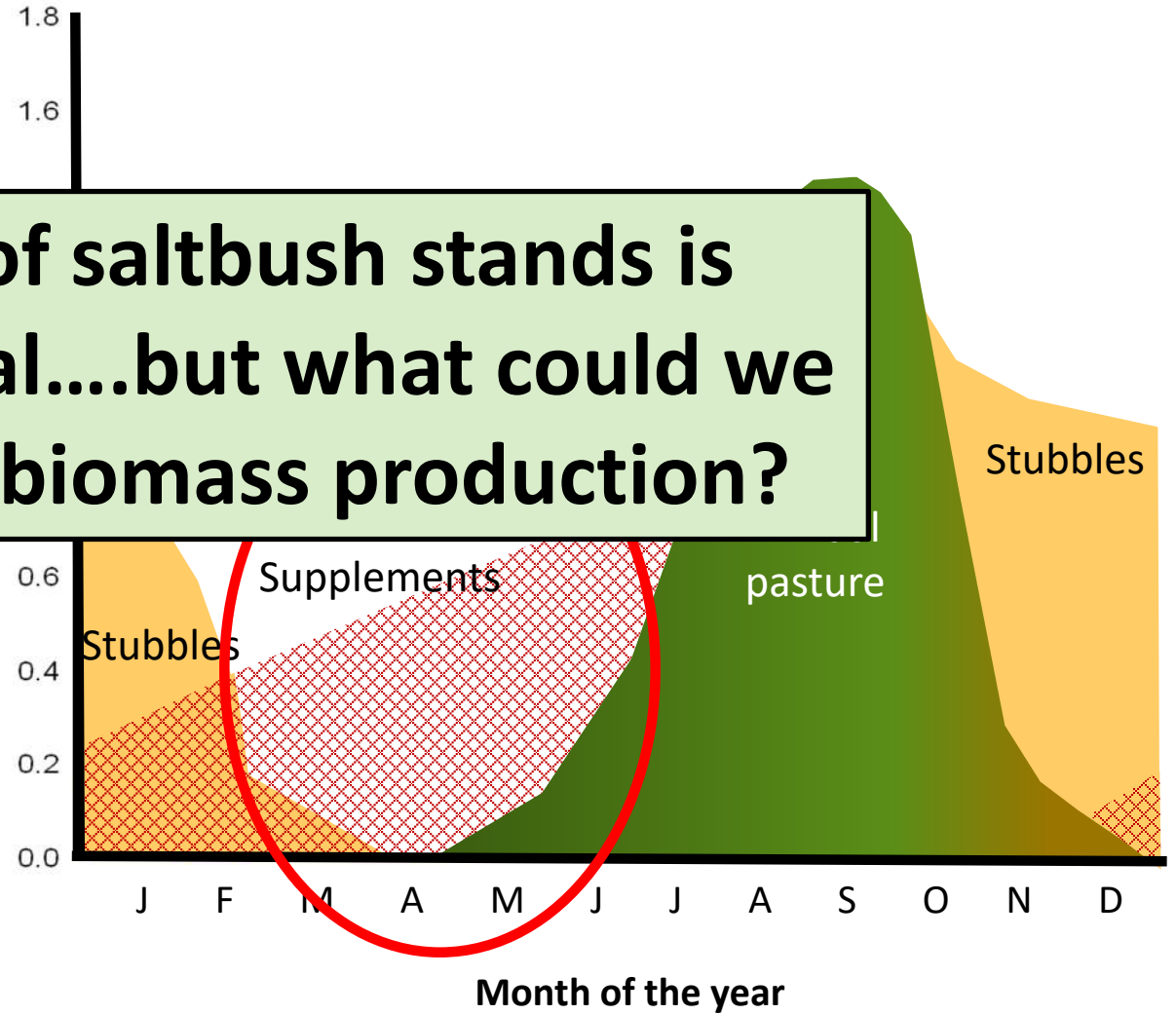
Saltbush as a perennial forage to fill the autumn feed gap





Saltbush as a perennial forage to fill the autumn feed gap

Management of saltbush stands is usually minimal....but what could we do to increase biomass production?





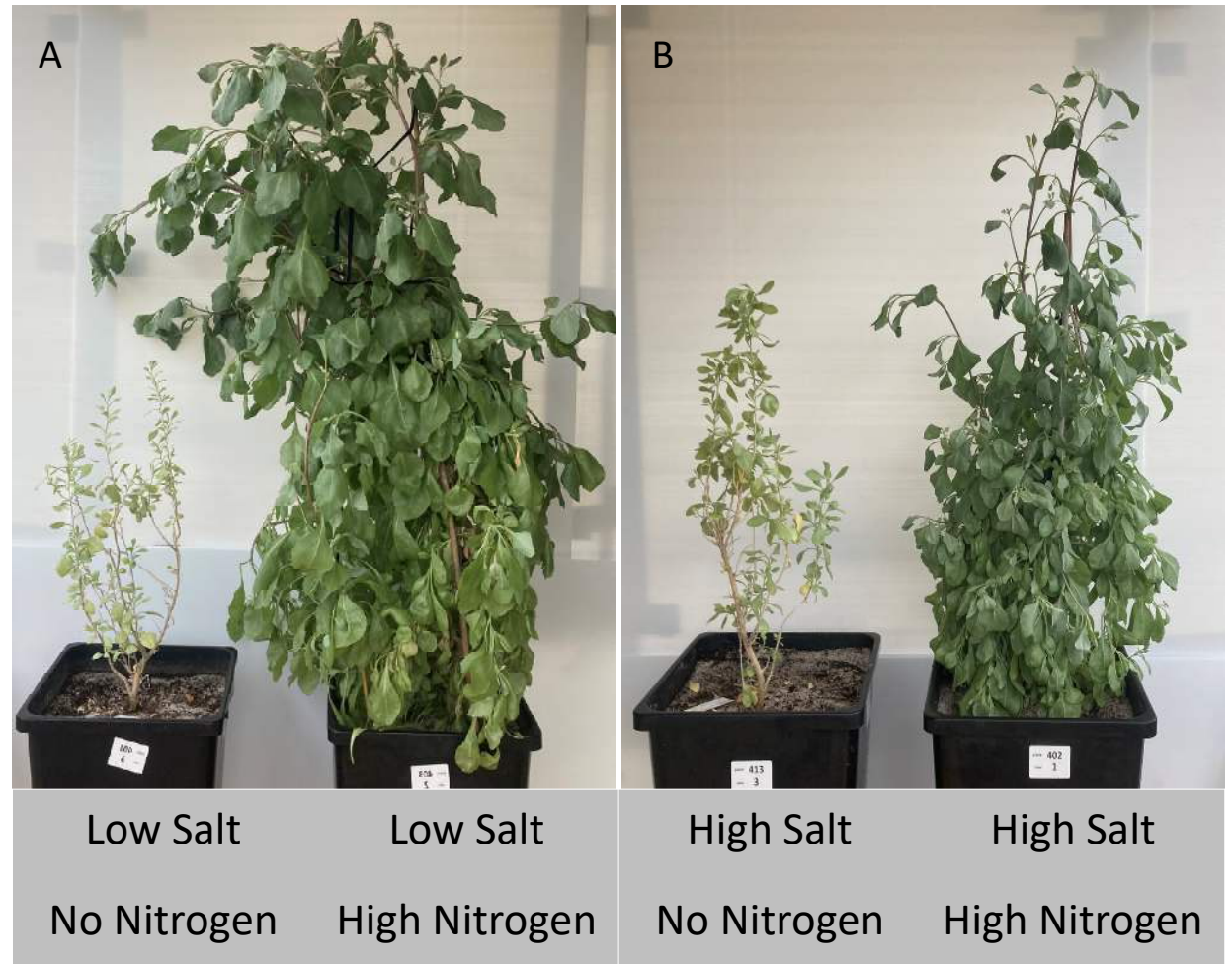
Response to salt and N - glasshouse

- 2 yr old potted shrubs
- leached soil of minimal nutritional value
- 5 levels of nitrogen (N)
- 3 salinity levels (NaCl)
- 2 months of nutrient solution treatment



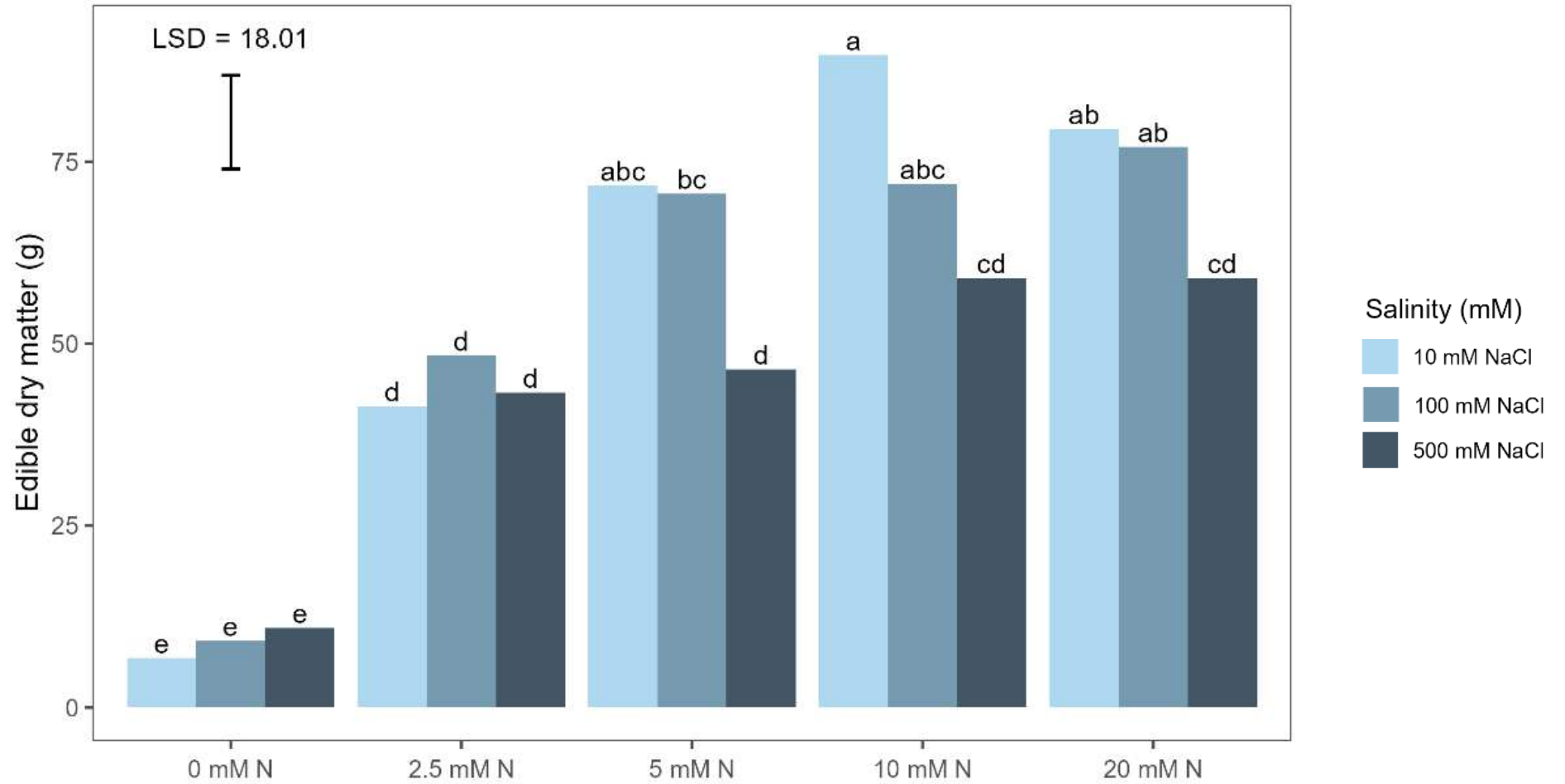
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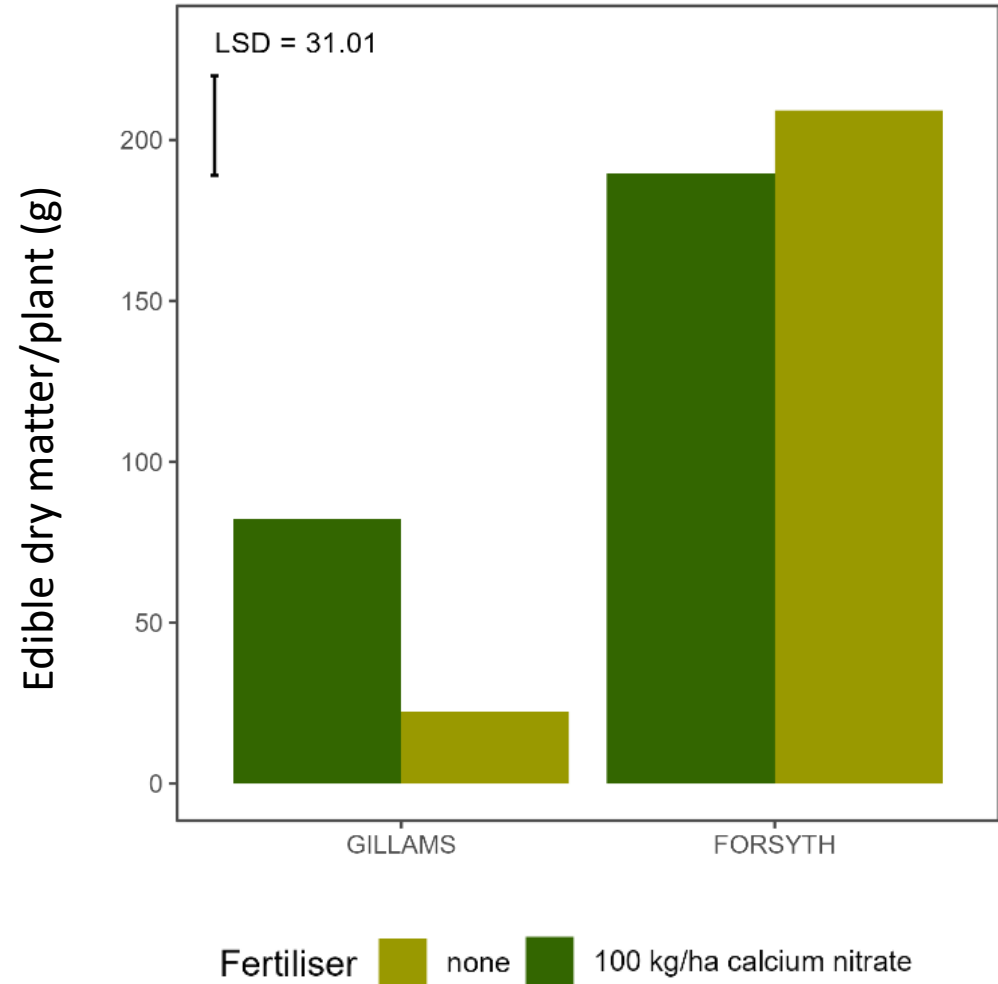


Response to salt and N - glasshouse





Field response to N application is varied





Conclusion

- Saltbush does produce edible biomass in response to N, although amounts above 5 mM did not significantly increase production
- N will support salinity tolerance in saltbush
- Field results will vary, potentially due to rooting depth
- Producers could utilise test strip prior to fertilisation or use N fixing pasture

