

Management of High Country Pastures

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Research

Extension

Landholders



TopSoils

Two demonstration sites at Connors Hill and Reedy Flat, were set up to investigate the effect of nutrient application and strategic grazing in native pasture systems, focusing on production, weed control and ground cover.

These sites have been monitored from spring 2016 to summer 2021.

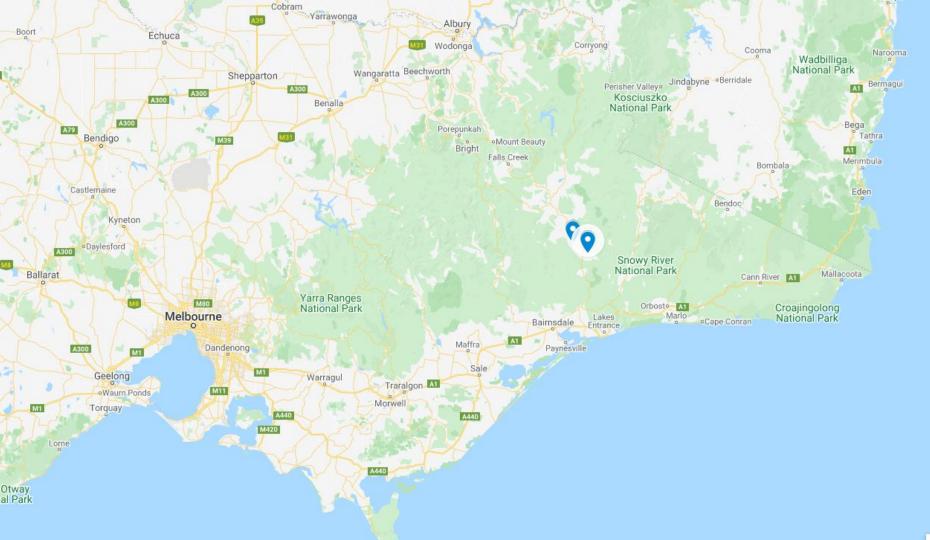




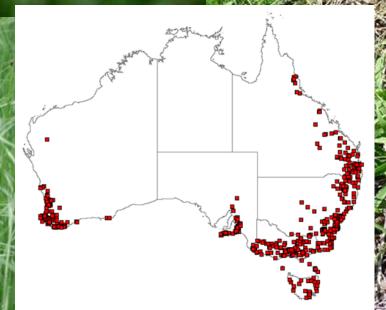
Measurements

- Established two areas:
 - Control farmer management
 - Treatment grazing management and fertiliser application
- Measurements:
 - Ground cover
 - Perennial grass persistence
 - Pasture composition
 - Soil fertility
 - Pasture quality



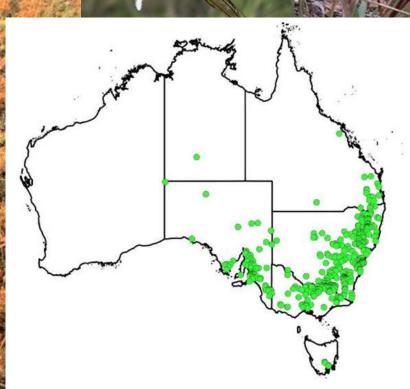


Microlaena stipoides – weeping grass





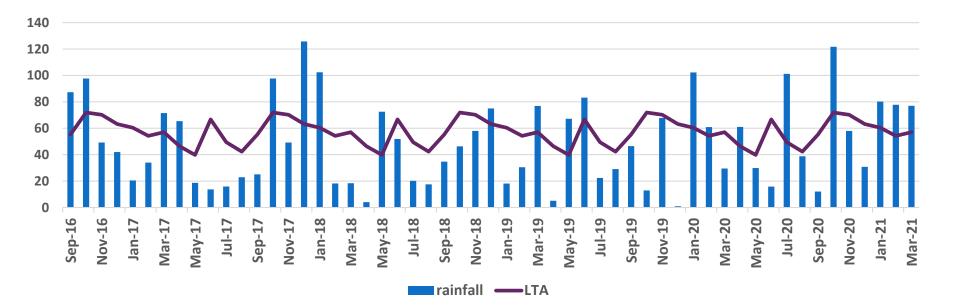
Bothriochloa macra – red grass



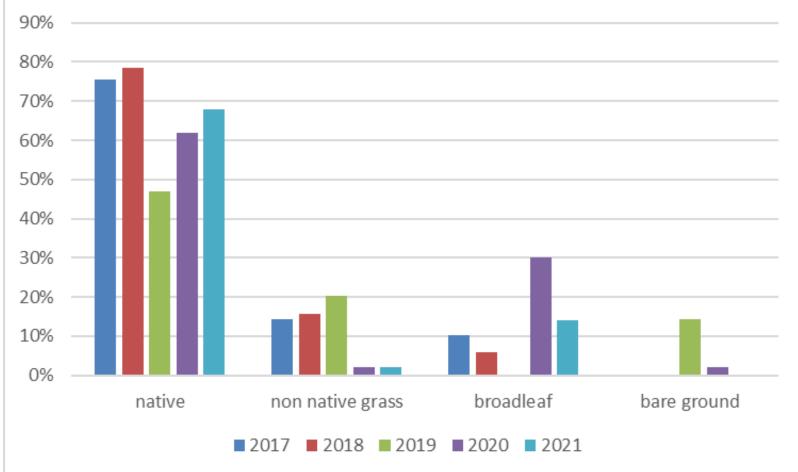






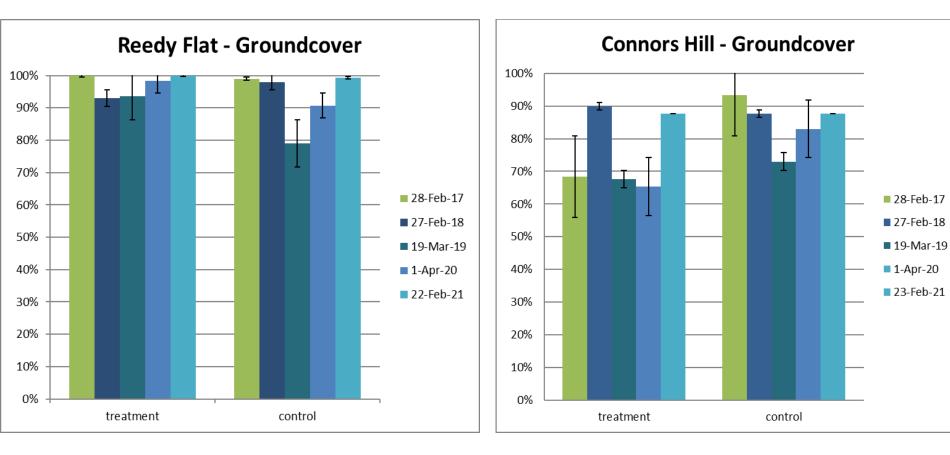


Reedy Flat composition – end of summer

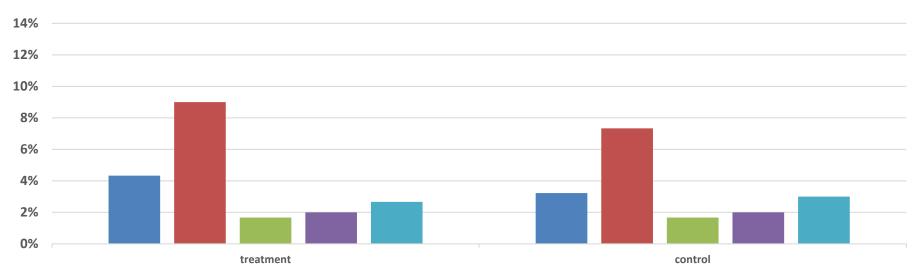


TORIA

Groundcover



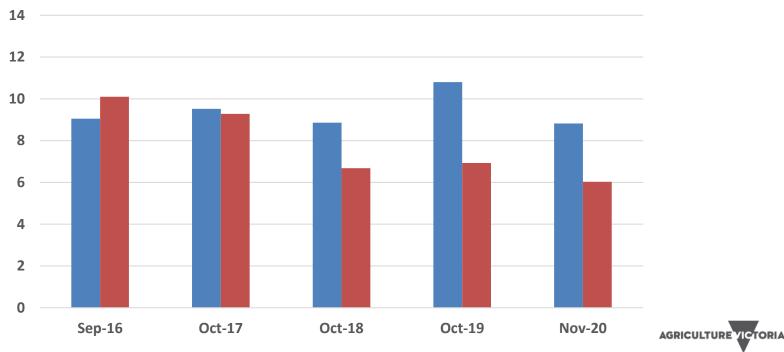
Perennial grass persistence Reedy Flat - Microlaena





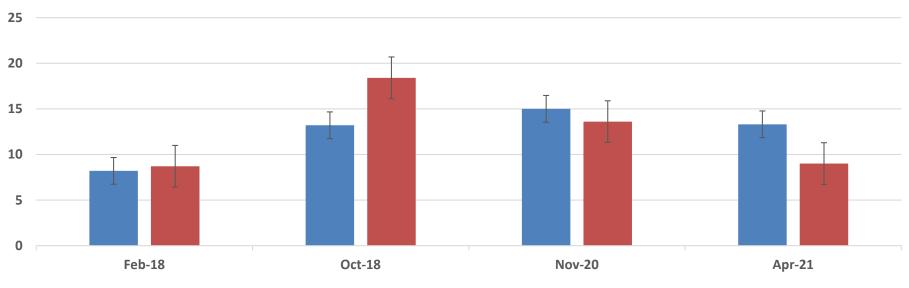
AGRICULTURE VICTORIA

Soil phosphorus levels (Olsen P) **Reedy Flat**



Treatment Control

Feed quality data – crude protein (%)





AGRICULTURE VICTORIA

Landholder engagement





Conclusions

- Learn to recognise native grasses
- Target fertility (Olsen P 13 mg P/kg)
 => Lifted nutrient concentration (ie ME and CP) of the native pasture
- Minimum herbage mass (1,000 kg DM/ha) and ground cover (80%) targets
- Avoid long rest periods as they result in standing dead material
- In late summer retain plant litter to minimise bare ground
- Continuous learning landholders, extension and researchers



