

**Community
Voice4Hume**

Building Hume's future together!



Best
FARMING SYSTEMS



▶ Building resilience with multi-species

The Hunt Family - 'Parkesview'



The Hunt Family - Parkesview

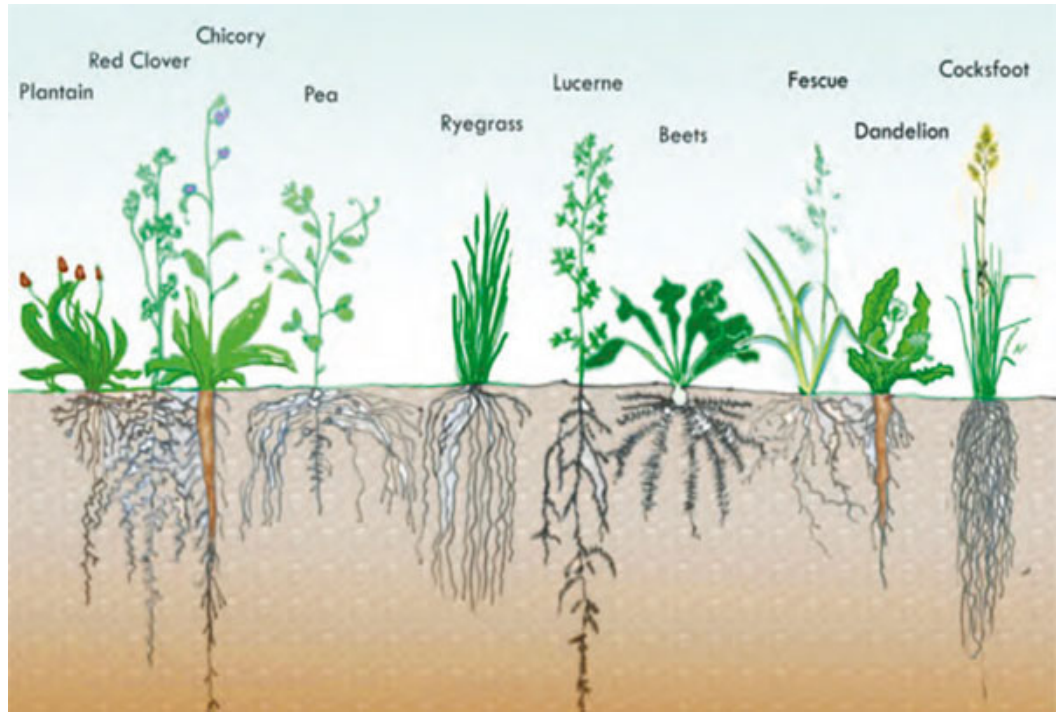
Nature's warnings



Searching for solutions

- ▶ Observation
- ▶ Research and knowledge
- ▶ Experimenting with adaptive practices
- ▶ Family and community





The trial

Multi-species pasture



Mix:

- Oats - 30kg
- Chicory - 2kg
- Field peas - 2kg
- Brassica - 2kg
- Radish - 0.5kg
- Plantain - 2kg
- White turnip - 1kg
- Lupins - 2kg
- Fescue - 2kg
- Phalaris - 2kg
- White clover - 1kg
- Red clover - 1kg
- 3 sub clovers - 1kg ea

Nutrisoil and Best TM:

1. Seed pickle
2. Foliar applications x 2
(Spring and autumn)





July 2022

After first graze



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August 2022

Due for second
graze - too wet

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August 2022



Plot 4 - 25kg DAP + Nutrisoil and Best systems TM + molasses/feed pellets

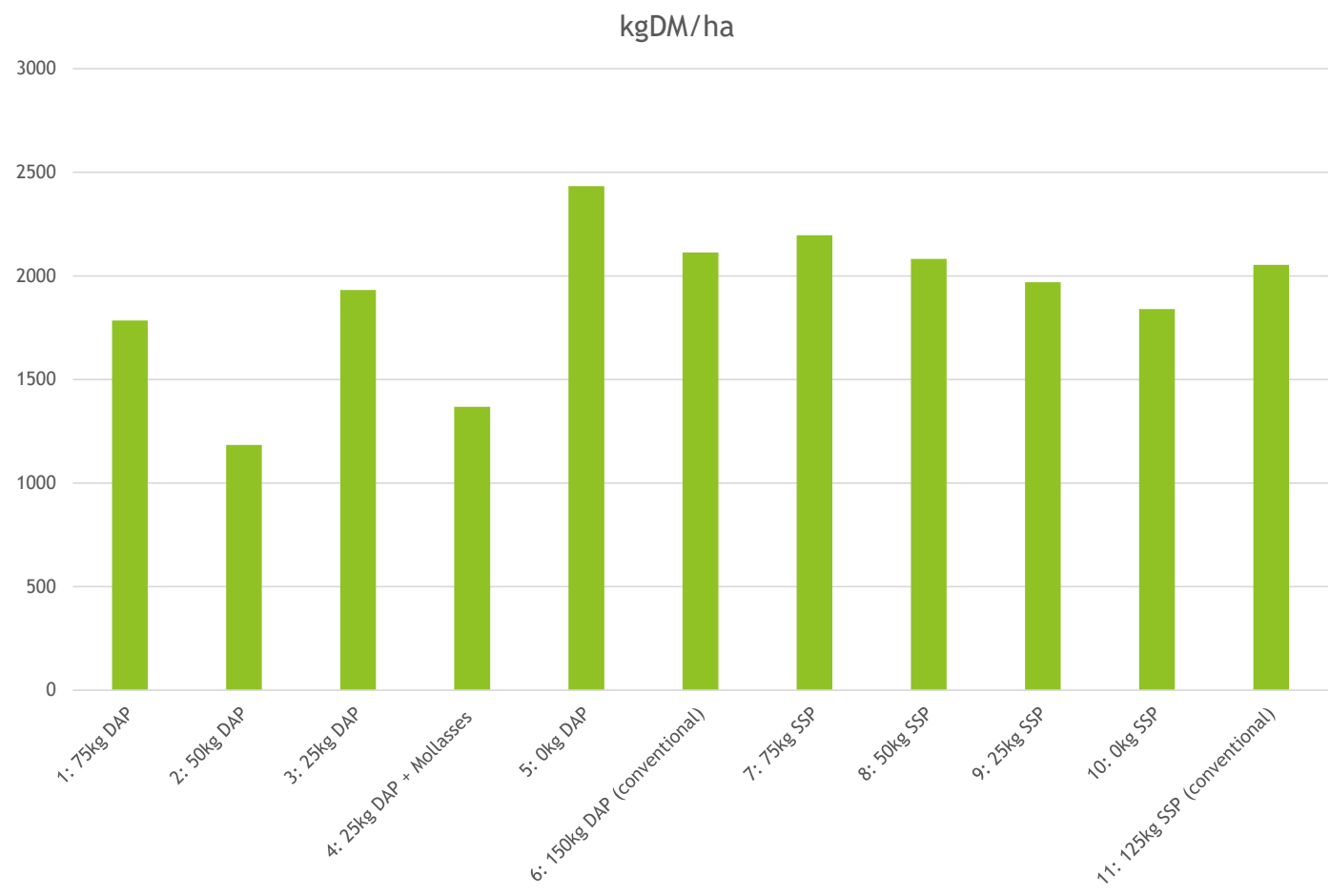
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Productivity (Dry matter)



September 2022

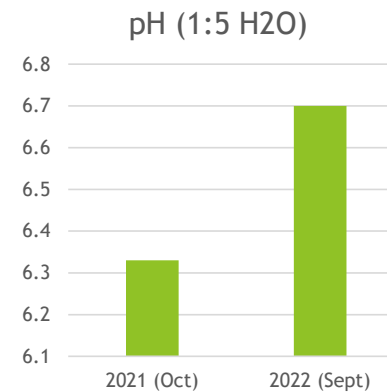
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Soil testing

ANALYSIS RESULTS

Paddock Name	TRIAL
Sample Depth (cm)	0-10
Soil texture	Sandy Loam
pH (1:5 H2O)	6.7 Satisfactory
pH (1:5 CaCl2)	5.8 Satisfactory
EC (1:5 H2O) dS/m	0.05 Satisfactory
EC (se) (dS/m)	0.5 Satisfactory
EC (se) (dS/m) (Clad)	0.3 Satisfactory
Chloride (1:5 H2O) mg/kg	11 Satisfactory
Nitrate nitrogen (KCl) mg/kg	3 Low
Ammonium nitrogen (KCl) mg/kg	5 Sufficient
Phosphorus (Colwell) mg/kg	67 High
Phosphorus Buffer Index (Colwell) (PBIc)	60 Satisfactory
Phosphorus Environmental Risk Index	1.1 High
Potassium (Amm-Acet.) cmol+/kg	0.17 Low
Potassium % of CEC	2.9 Sufficient
Sodium:Potassium Ratio	0.3 Satisfactory
Sulfate-S (KC140) mg/kg	4 Sufficient
Calcium (Amm-Acet) cmol+/kg	5.1 Sufficient
Calcium % of CEC	67 Sufficient
Magnesium (Amm-Acet.) cmol+/kg	0.5 Sufficient
Magnesium % cations	9.2 Satisfactory
Calcium:magnesium ratio	9.4
Calcium:Magnesium Ratio (cmol+/kg)	9.4
Sodium (Amm-Acet.) cmol+/kg	0.05 Sufficient
Exch. sodium %	0.9 Satisfactory
Electrochemical Stability Index	0.056 Satisfactory
Aluminium (KCl) (prewash) cmol+/kg	0.1 Sufficient
Aluminium Saturation %	1 Sufficient
eCEC cmol+/kg	5.9 Satisfactory



Important measures:

- Ph
- Total C and N (C:N ratio)
- Total P



Plot 1 - 75kg DAP



Plot 5 - 0kg DAP



Plot 11 - 100kg DAP

October 2022



Plot 5 - 0kg DAP



Untreated

October 2022

Look,
Smell,
Taste!...

Observations

- ▶ Quick establishment of winter feed and ground cover
- ▶ Trials performed better in better draining soils
- ▶ Plot 5 (0kg DAP) resulted in the highest kgDM/ha
- ▶ Soil tests - good baseline indicators
- ▶ Complexity of roots - change in soil colour and smell in plots
- ▶ Easier to dig (less compaction) in plots compared to untreated areas
- ▶ Seasonal succession of species
- ▶ Waterlogging and potential leaching

Challenges

- Rain restricting grazing and follow up foliar applications (management)
- Adequate grazing pressure

Next steps?

- Perennials
- Measuring/monitoring useful soil health indicators (organic matter - N and C) and microbiology

Other trials by farmers in Goulburn Mulwaree Landcare



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Conclusions

- ▶ Start small - experiment!
- ▶ Plants + soil biology = living soil and resilience!
- ▶ Question the status quo of synthetics
- ▶ Wean off/adjust - no 'cold turkey'
- ▶ No soil or system is the same
- ▶ 'Am I medicating and mining, or am I fostering life and regenerating?'

Resources

- ▶ Gabe Brown: Dirt to Soil - Book/audiobook
- ▶ Graeme Sait: Nutrition Farming podcast
- ▶ John Kempf: Regenerative Agriculture podcast
- ▶ Nakala Maddock: Biological Farming Roundtable podcast
- ▶ Nicole Masters: For the Love of Soils - Book/audiobook
- ▶ Matthew Evans: Soil - Book/audiobook
- ▶ Goulburn Mulwaree Landcare Project Officer

