

Pasture Diversity

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Pasture Diversity – Discussion Points

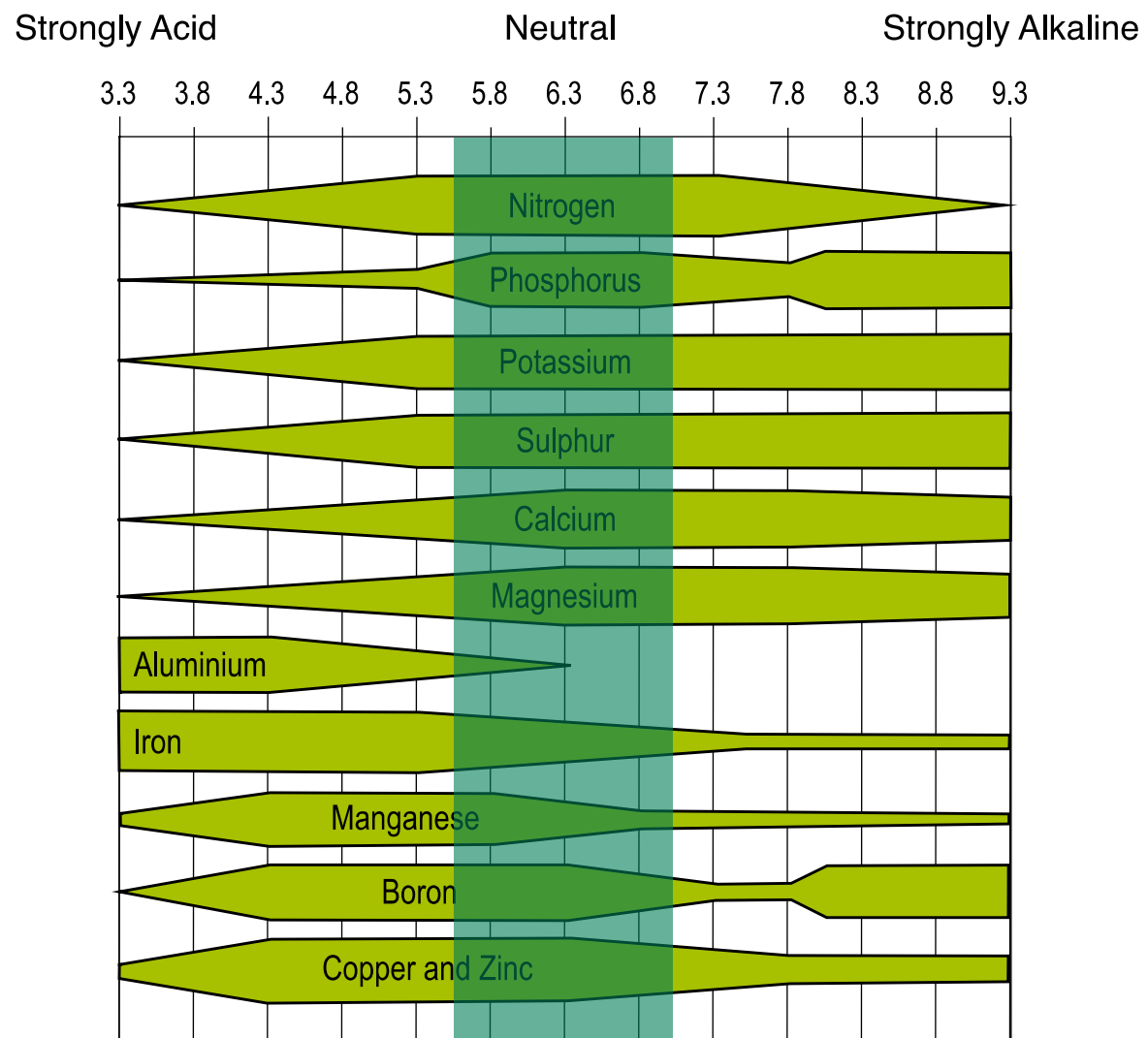
- Soil pH
- Fertility
- Production
- Grazing Management
- Species
- Rooting Depth
- Animal Health
- Pasture Resilience

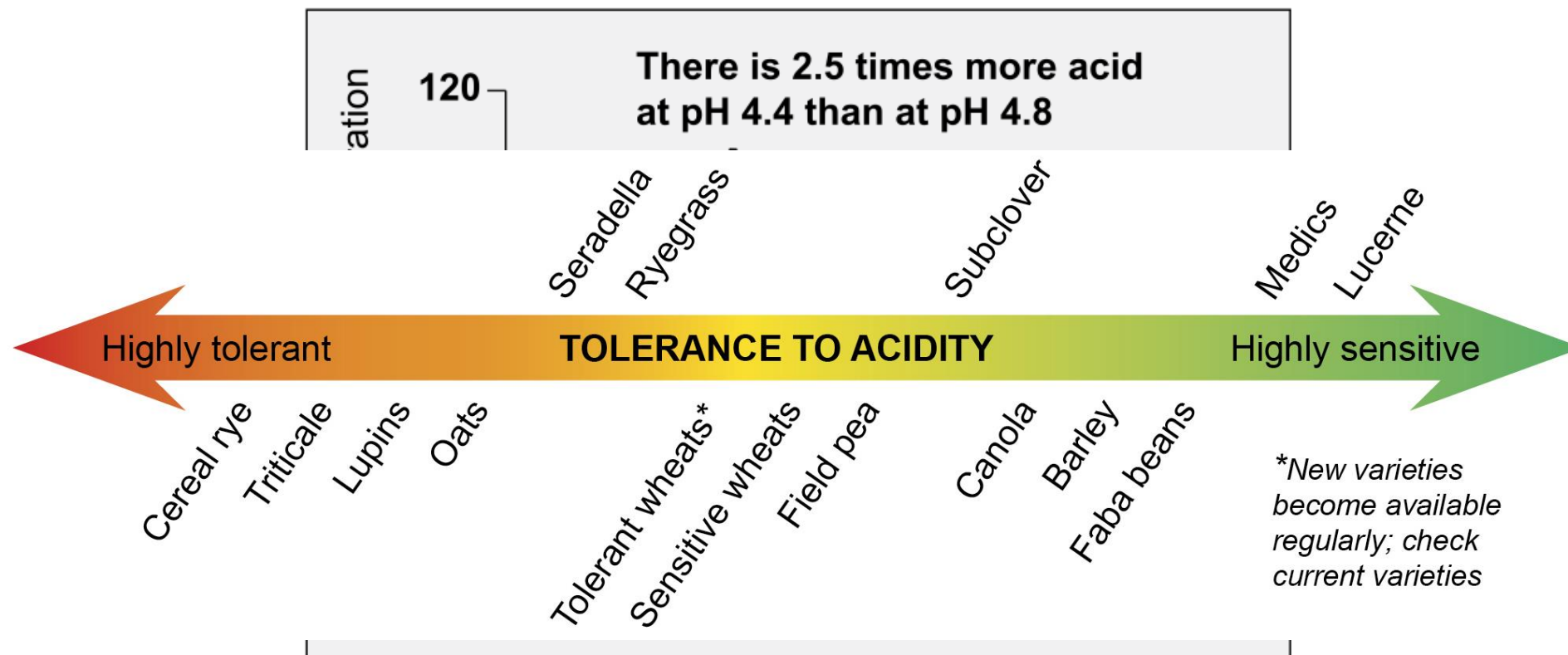
More importantly

- What do you want to know?

Soil pH

- Elemental foundation of production
- Enhances environment for soil health to thrive
- Increases availability of nutrient elements in the soil
- Reduces toxic elements in the soil (eg Aluminium)



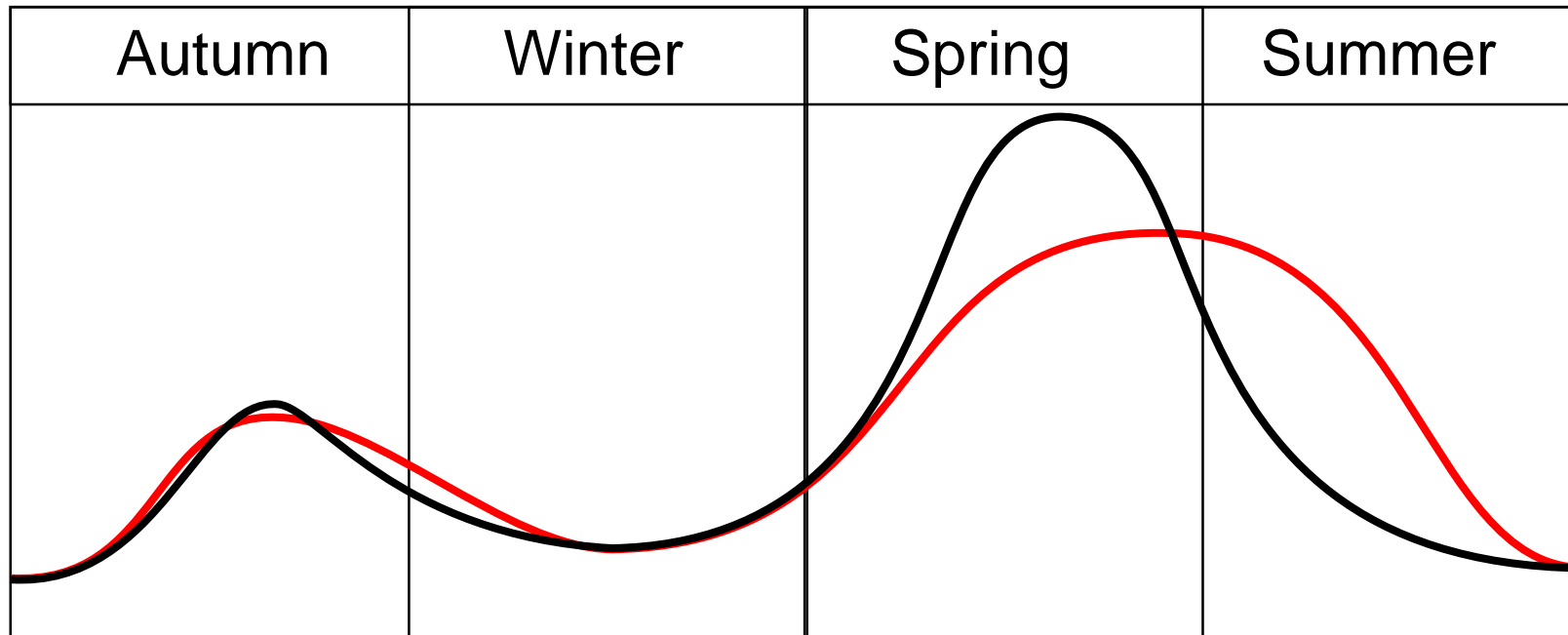


Fertility

- Legumes, naturally fix nitrogen (where stubble retained)
- Deep rooted species –
 - recycle nutrients from depth on duplex soils
 - capture leached nutrients on free draining top soils
- Elements Phosphorus – promotes legumes
 Potassium – also promotes legumes
 Nitrogen – promotes grasses and broadleaves

Pasture Production

- Extend the season

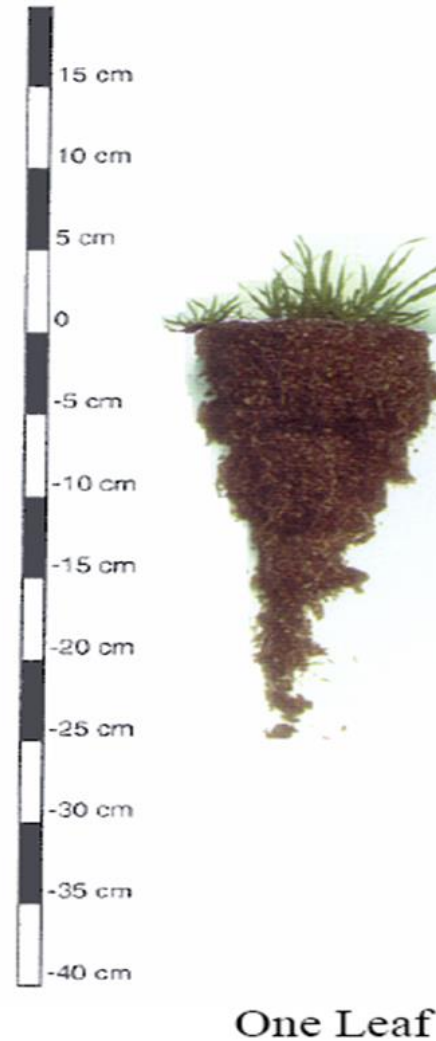


Grazing Management

- Rest & Recover
- Smaller Paddocks
- Higher Stocking Intensity
- Shorter Grazing Periods
- Longer Recovery Periods
- Understand Feed On Offer (FOO)
- Know animal requirements

Why you need to rotationally graze

Figure 5: Leaf and root development in ryegrass cut at 1, 2 and 3 leaves.



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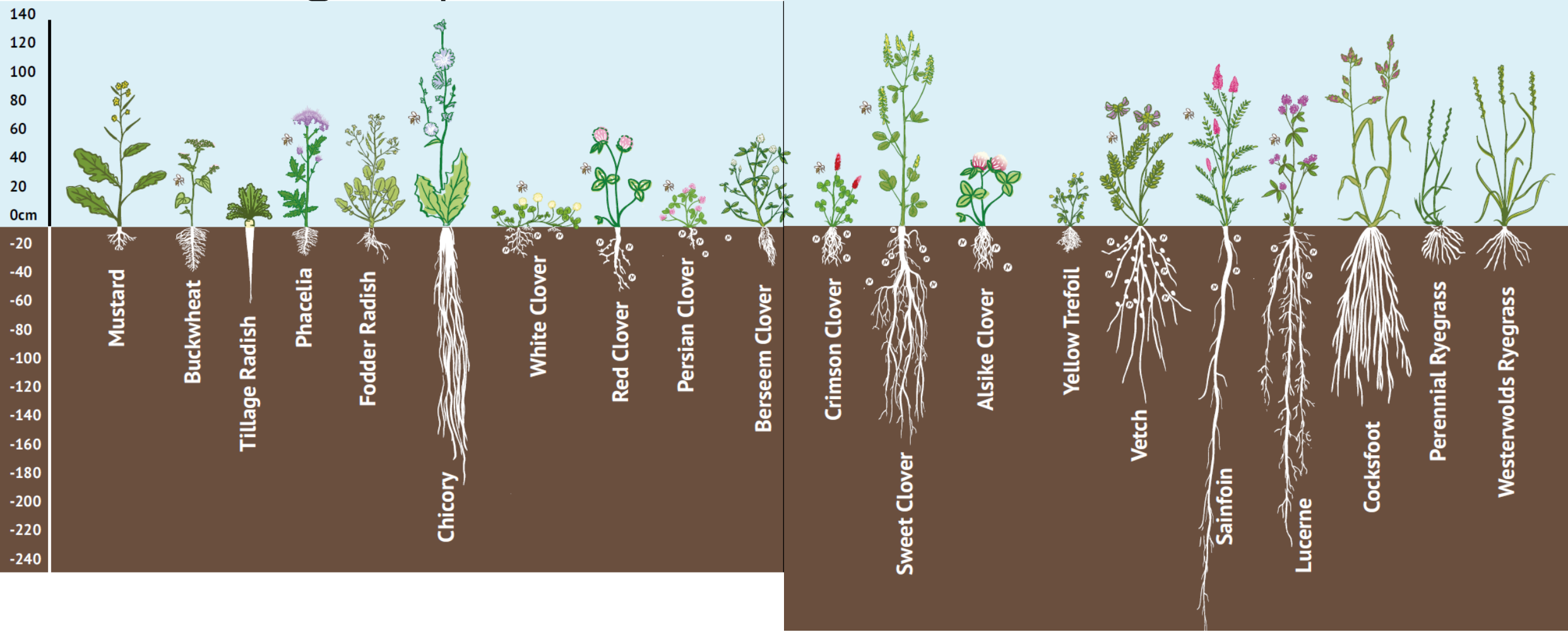
Grazing Management

- Recovery of Native Species

Species

- Grass
- Legume
- Herbs
- Annual / Perennial

Rooting Depth



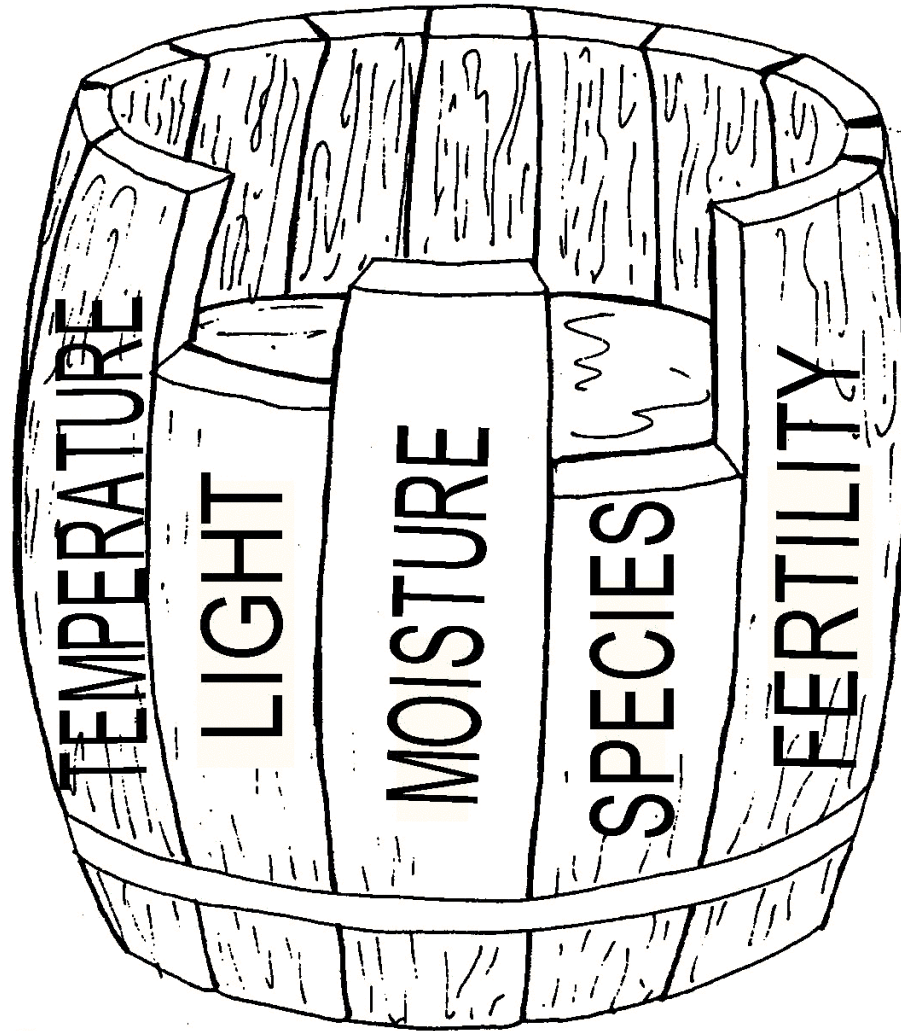
Animal Health

- Mineral density
- Anthelmintic properties
- Natural Insecticides

Pasture Resilience

- Drought tolerance
- Resource access
 - moisture
 - nutrients
- Species tolerance to adverse conditions
 - Salinity
 - Acidity
 - Compaction
 - Fertility

What limits your production?



Reading

- <http://www.grazeonline.com/doespasturediversitymatter>
- <https://www.stuff.co.nz/business/farming/101559947/pasture-diversity-is-a-winner-over-monocultures>
- [https://www.wool.com/globalassets/start/on-farm-research-and-development/production-systems-eco/environment/biodiversity/lww veg productive-native-pastures-in-the-high-medium-rainfall-zones1.pdf](https://www.wool.com/globalassets/start/on-farm-research-and-development/production-systems-eco/environment/biodiversity/lww_veg_productive-native-pastures-in-the-high-medium-rainfall-zones1.pdf)
- <https://www.youtube.com/watch?v=AqNEwMicavw>
- <https://www.csiro.au/~media/LWF/Files/Ecosystems-biodiversity/Guide-to-grazing-as-a-tool-for-biodiversity-conservation.pdf?la=en&hash=3A3B3571409B1B7438BD20D9549E561738ACA37D>