

Northern Pastures Group

Restoring pastures on the northern tablelands

Producer Demonstration Site Project

Managed by Lu Hogan & Alex Ball



Glen Innes Natural Resources Advisory Committee





- Spring 2019 – no end in site to the drought
- Low levels of ground cover – erosion risk, loss of soil carbon and biological functioning
- What to do post drought to restore pastures – ground cover, species composition and productivity?
- Project proposal to MLA to demonstrate pasture restoration/re-establishment & the cost/benefit

Rapid turn around early 2020



- Questions still remained about the impact of drought
 - Composition of pastures – quality and productive potential
 - Weed incursion on bare ground
 - Groundcover to protect soils and waterways
 - Cost benefit of pasture improvement strategies

Monitoring pasture restoration at 3 sites



The decision making process for restoring pastures

If the decision is to over sow or fully replace

2. Do a soil test

3. Develop an agronomy plan with your advisor

- Weed and pest control
- Fallow periods
- Fertiliser requirements
- Species selection for sowing
- Grazing plan

The importance of ground cover

- Groundcover reduces run off and erosion
- More water available for plant growth
- What is groundcover?
 - Anything near the surface that protects soil from raindrops and flow
 - Plant material (dead/alive), rocks, timber, dung
 - Canopy and Contact ground cover
- Loss if unprotected – up to 100t/ha per year (1mm topsoil = 10t/ha loss)
- Minimum ground cover for protection depends on slope, soil type, rainfall amount and intensity

- Upper Hunter – 70% ground cover required for red clay with 10% slope
- Drainage lines and dispersive soils – 100% cover required
- Pasture species selection important

Slope, groundcover and water runoff



25%



50%



75%

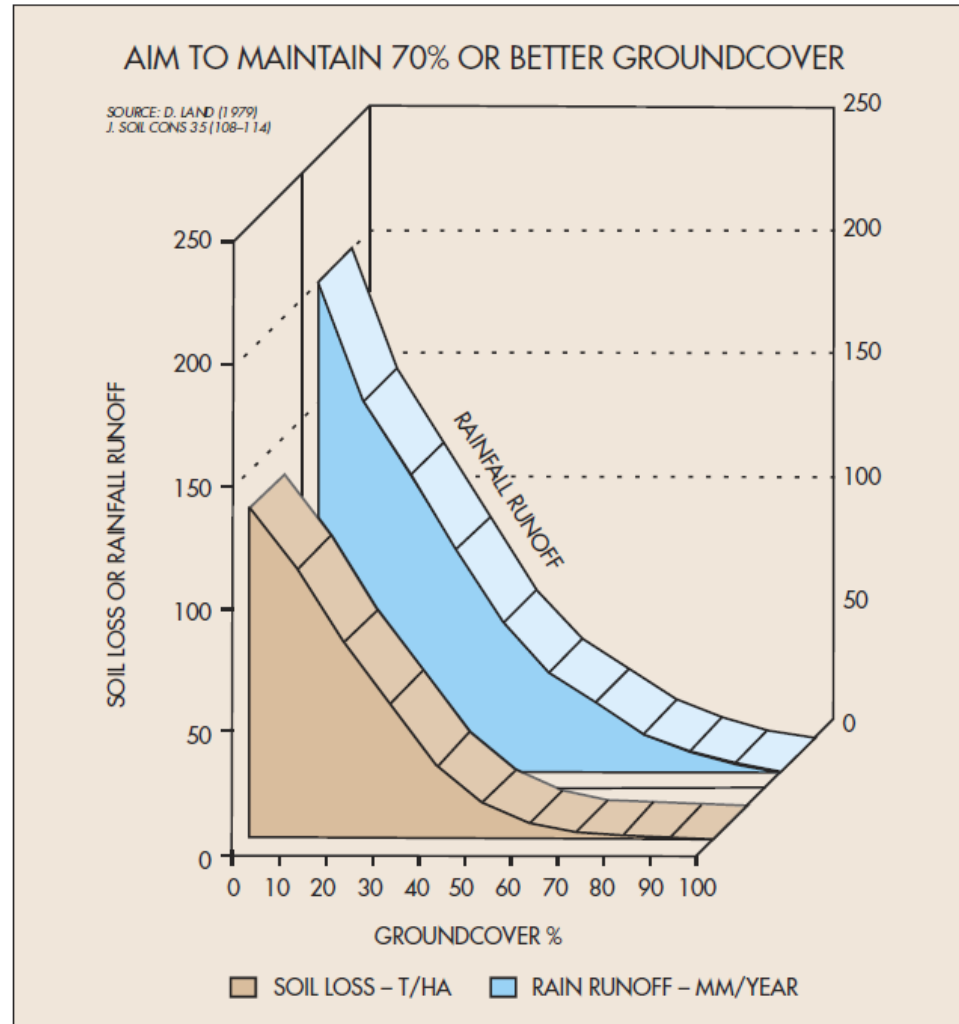


100%

Images: Judi Earl & Lewis Kahn –
Pasture & grazing management in
the northern tablelands

Figure 1. Effect of groundcover on the amount of soil loss and water run-off from pastures.

(Adapted from Lang 1979)



Project Survey Sheet

- Please fill in sign and return to me
- MLA requirement for the project

