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The new improved ...



... 1 Nov 2012









2011 10 16



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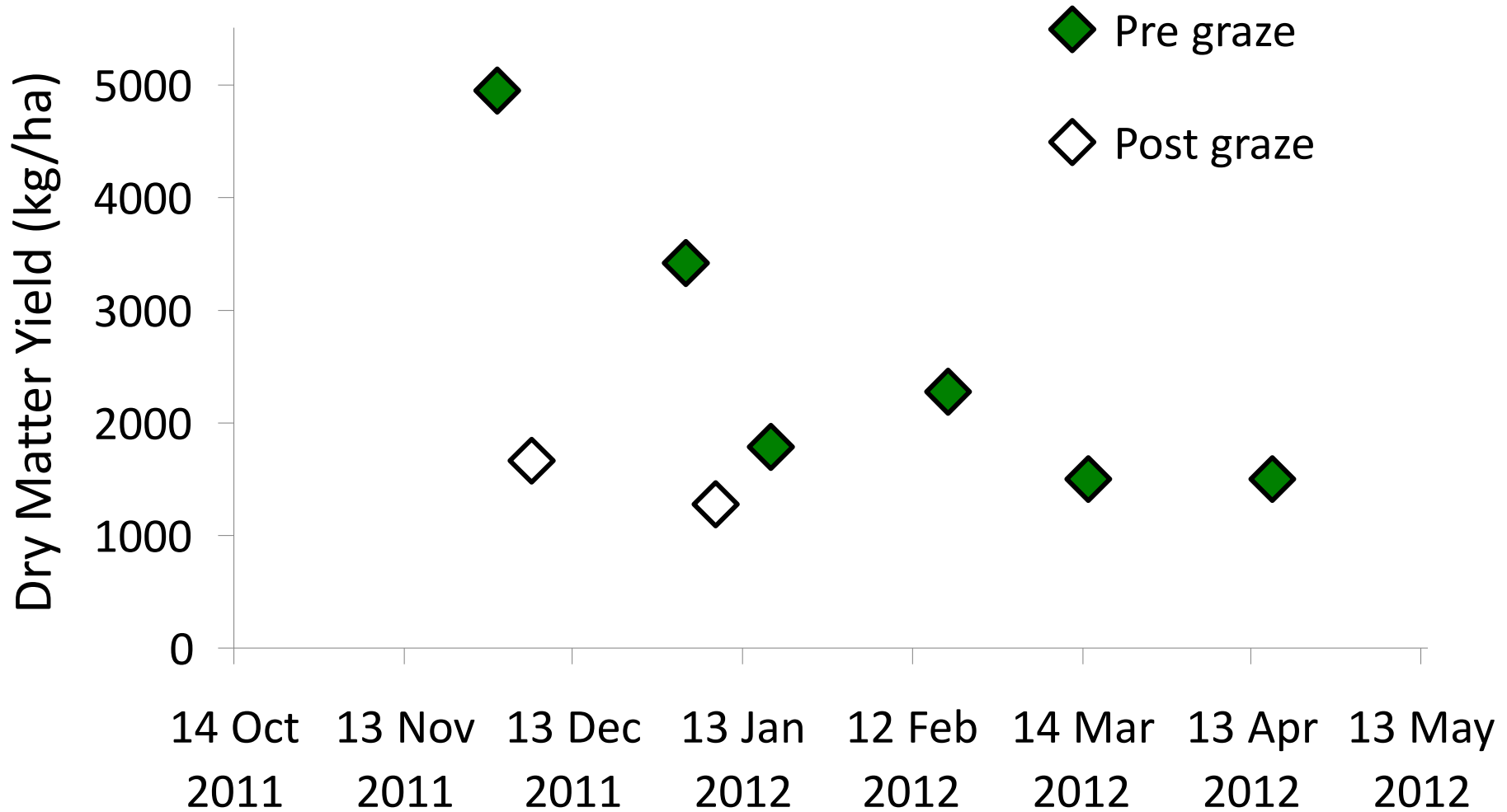
2011 10 16



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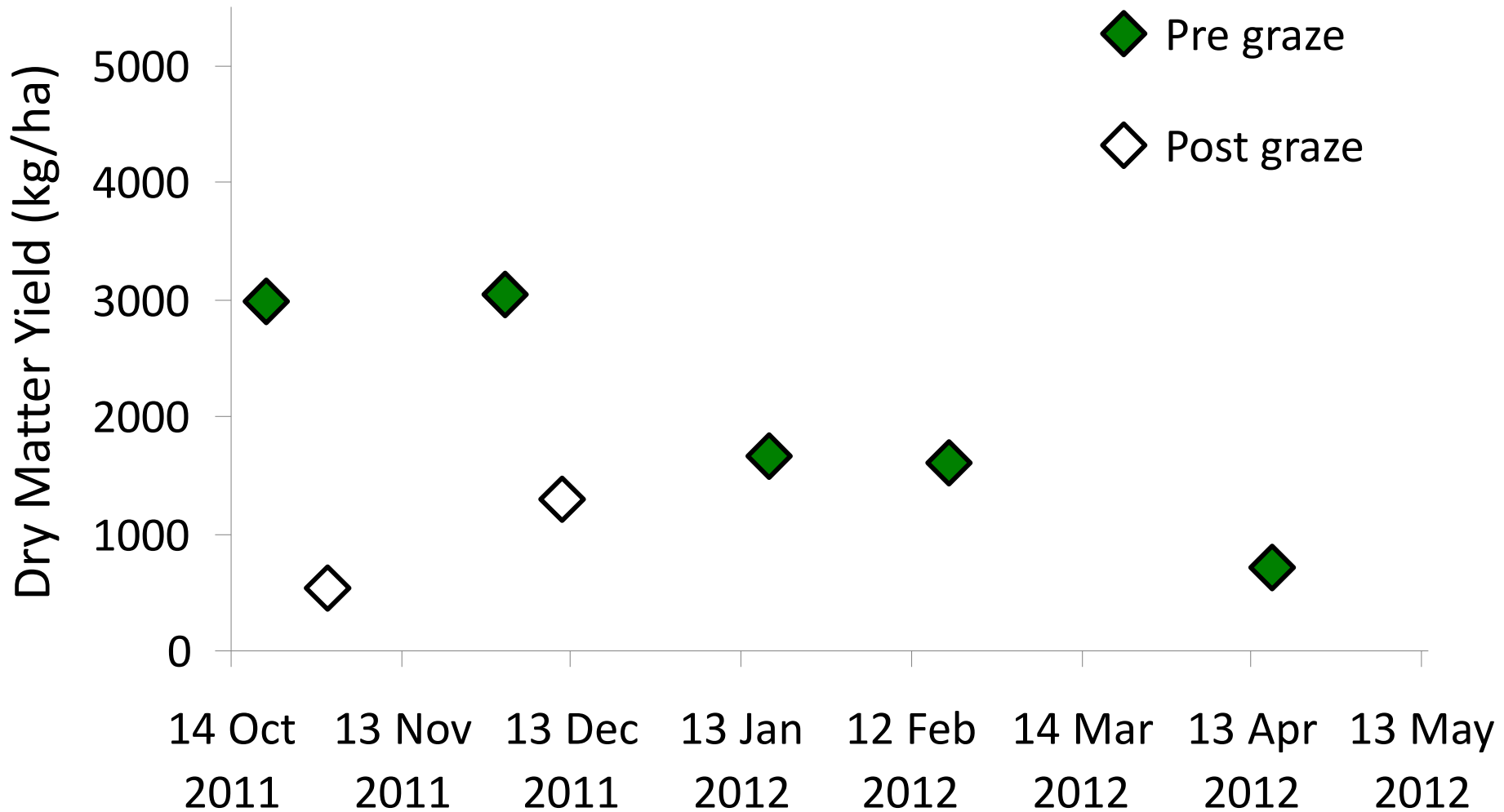
DM yield: improved paddocks

Top Davids - irrigated lucerne



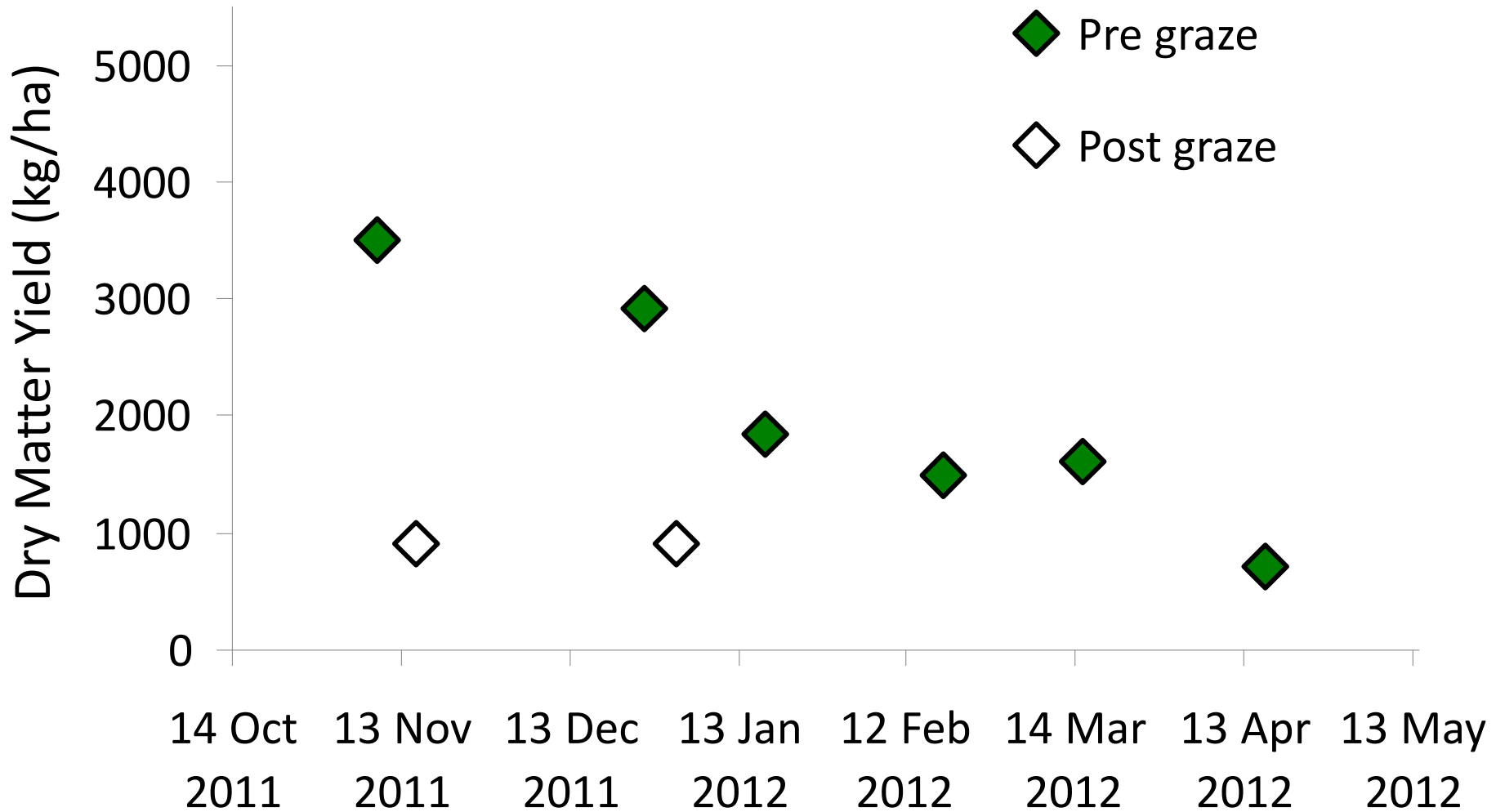
DM yield: improved paddocks

Wheatgrass - new dryland lucerne



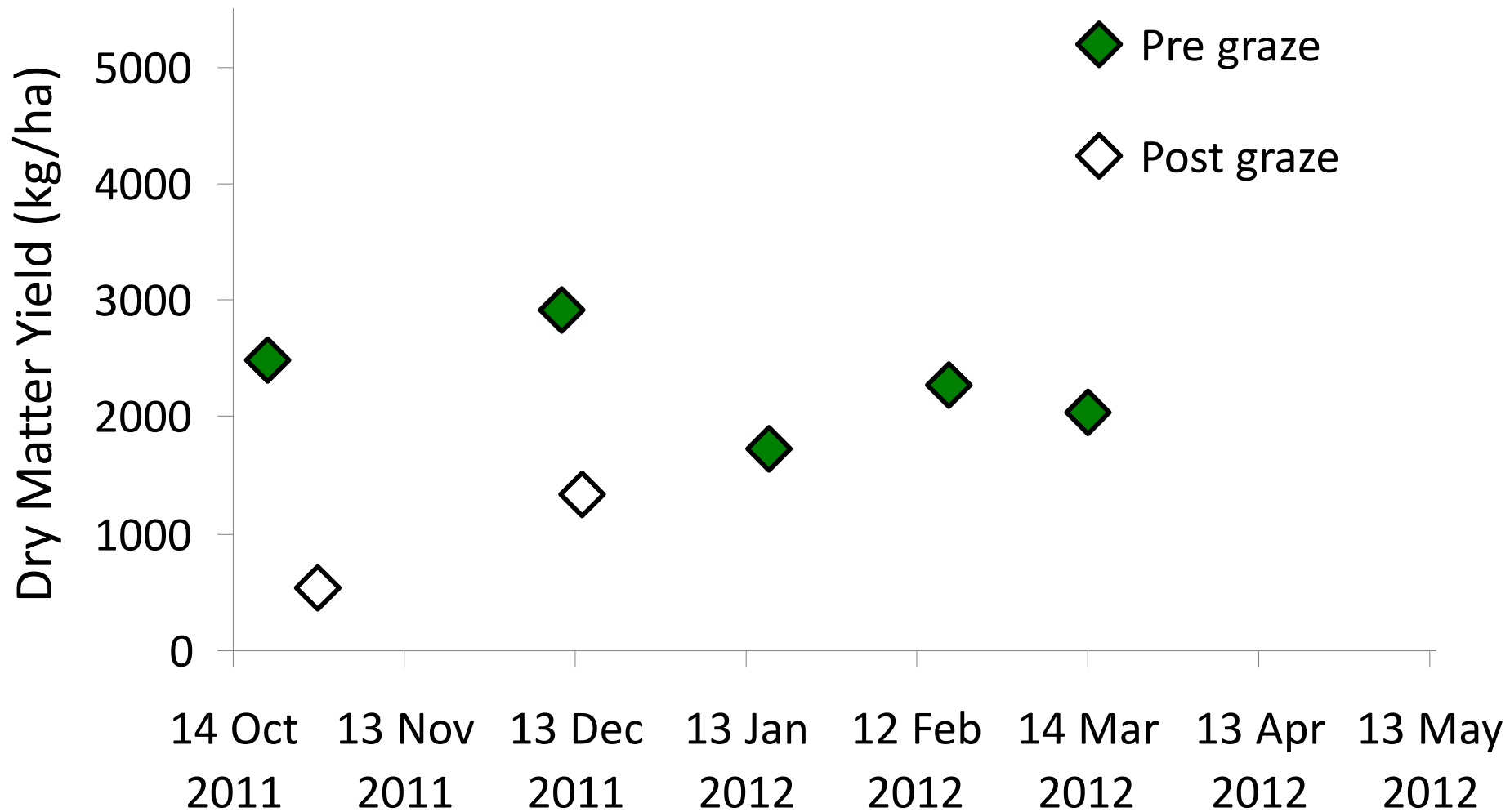
DM yield: improved paddocks

Appletree - dryland lucerne

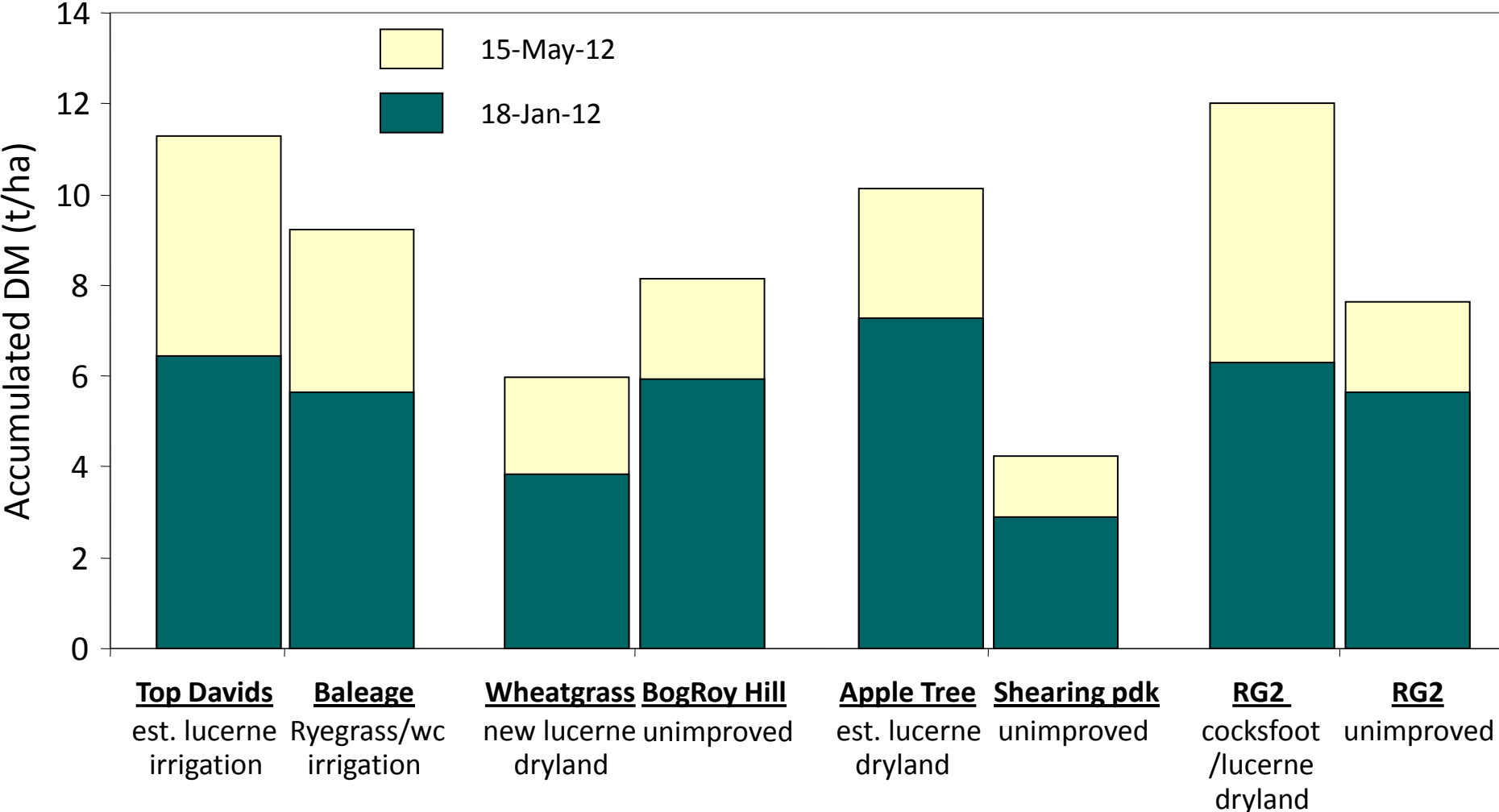


DM yield: improved paddocks

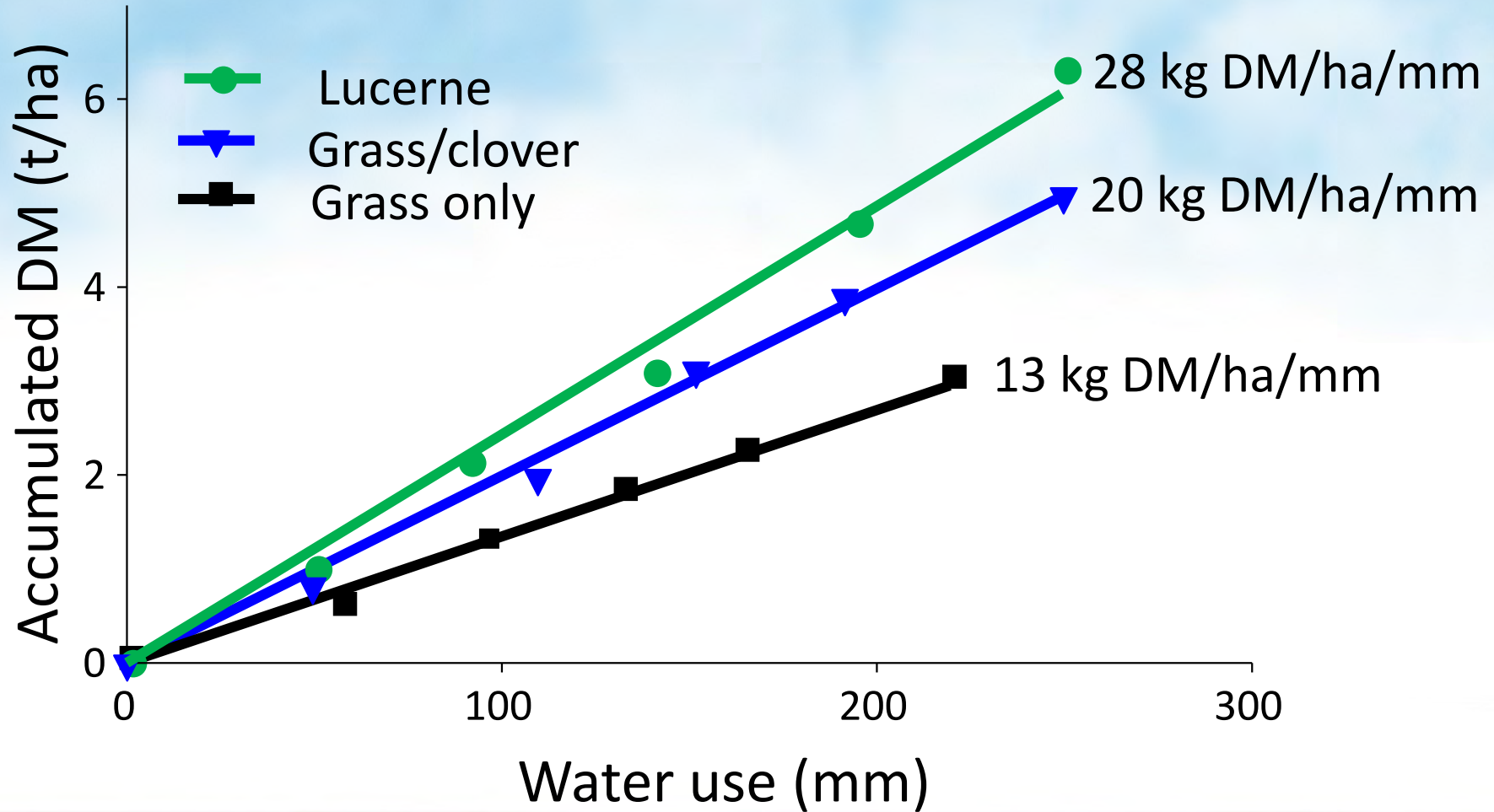
RG2 - dryland cocksfoot/lucerne



DM yield: Comparison of paddock pairs



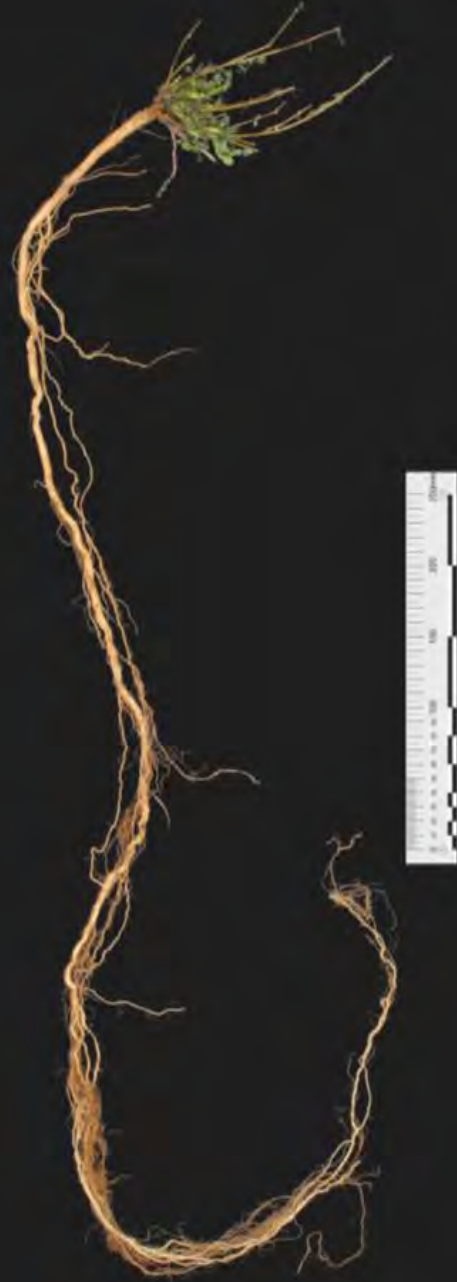
Spring WUE



Lucerne root

~8 months after sowing
> 1.5 m length

Photo: David Hollander
Lincoln University



Nitrogen deficient pasture



1000 kg N/ha

Ryegrass/clover vs. Lucerne



Photo: H..E. Brown
Lincoln University



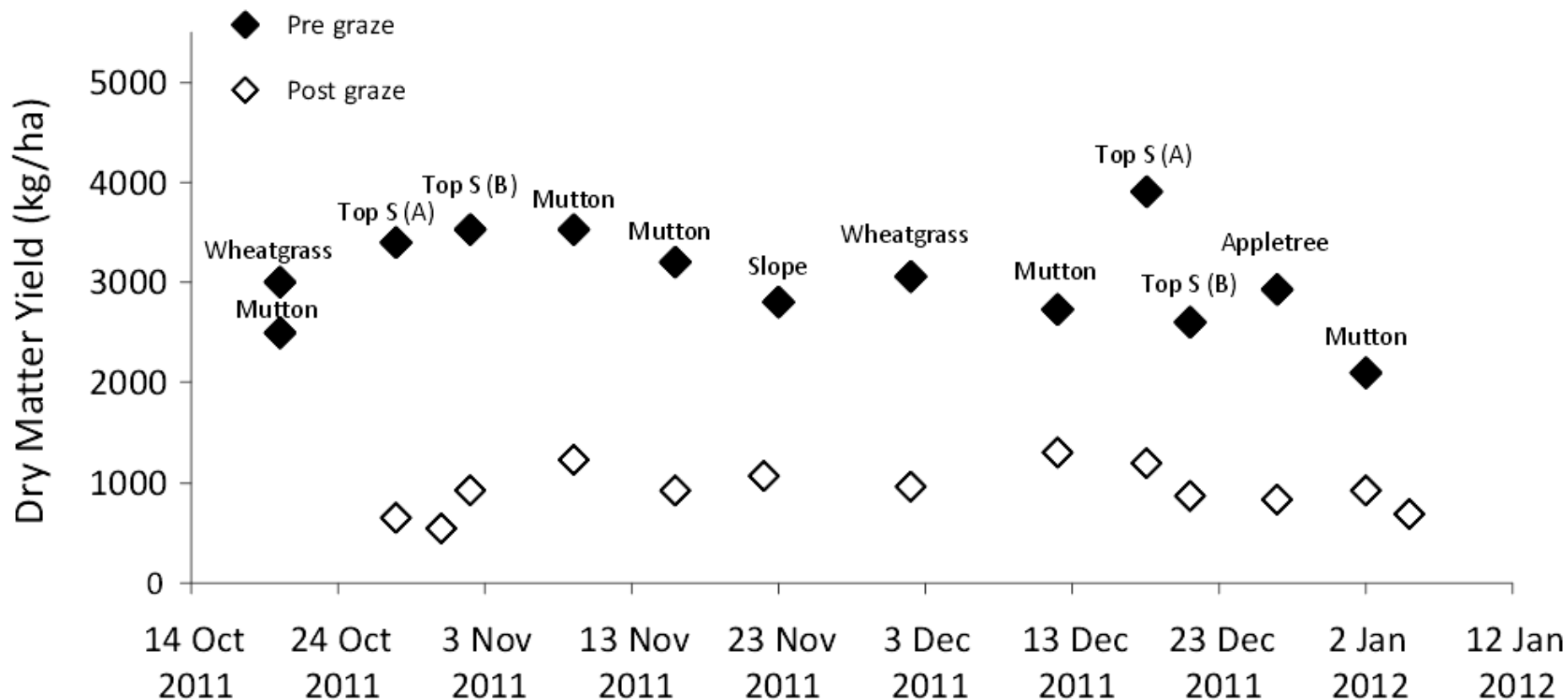
2011 10 7



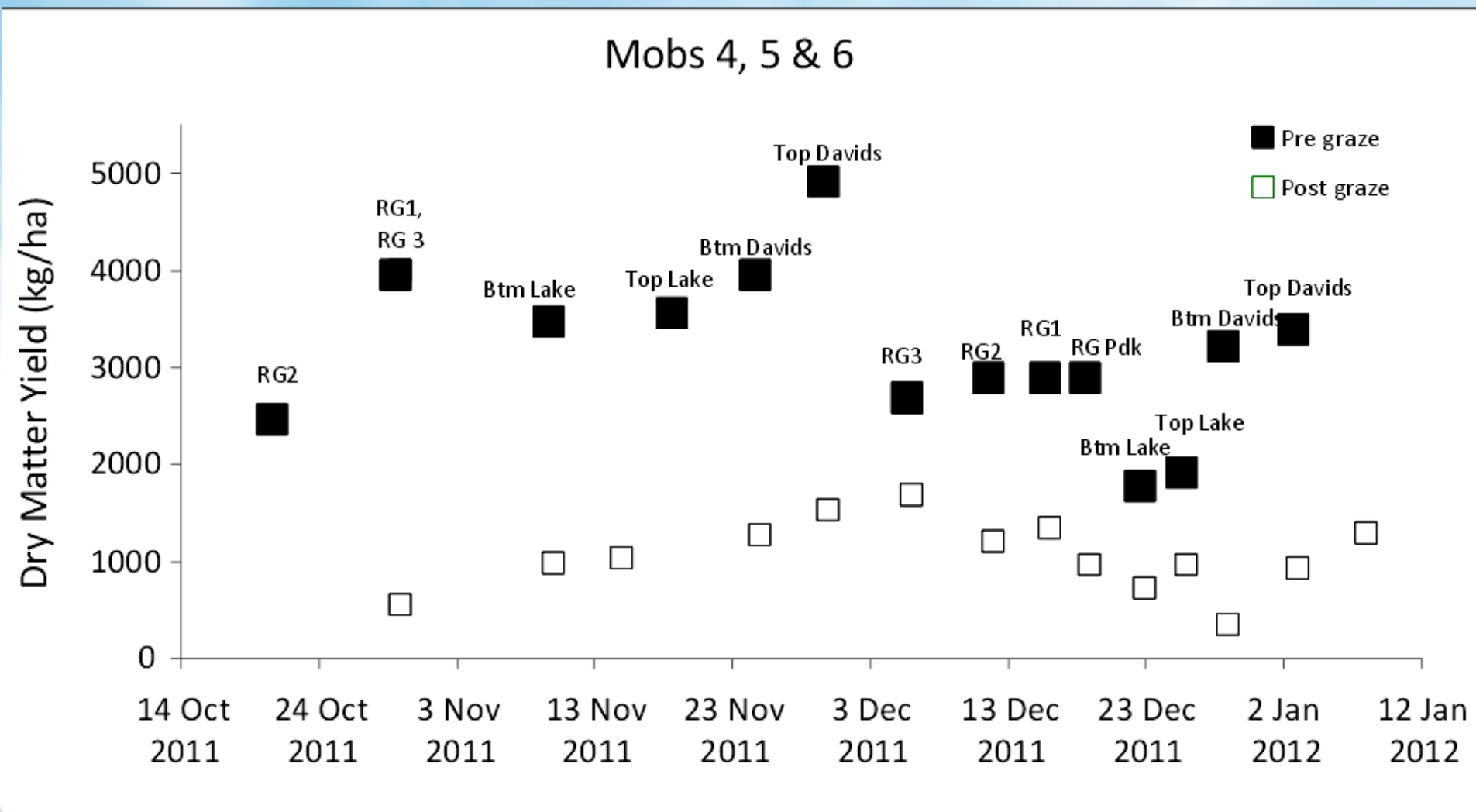
5th September 2011 – Cave Sth Canterbury

Paddock DM and mob rotation

Mobs 1, 2 & 3



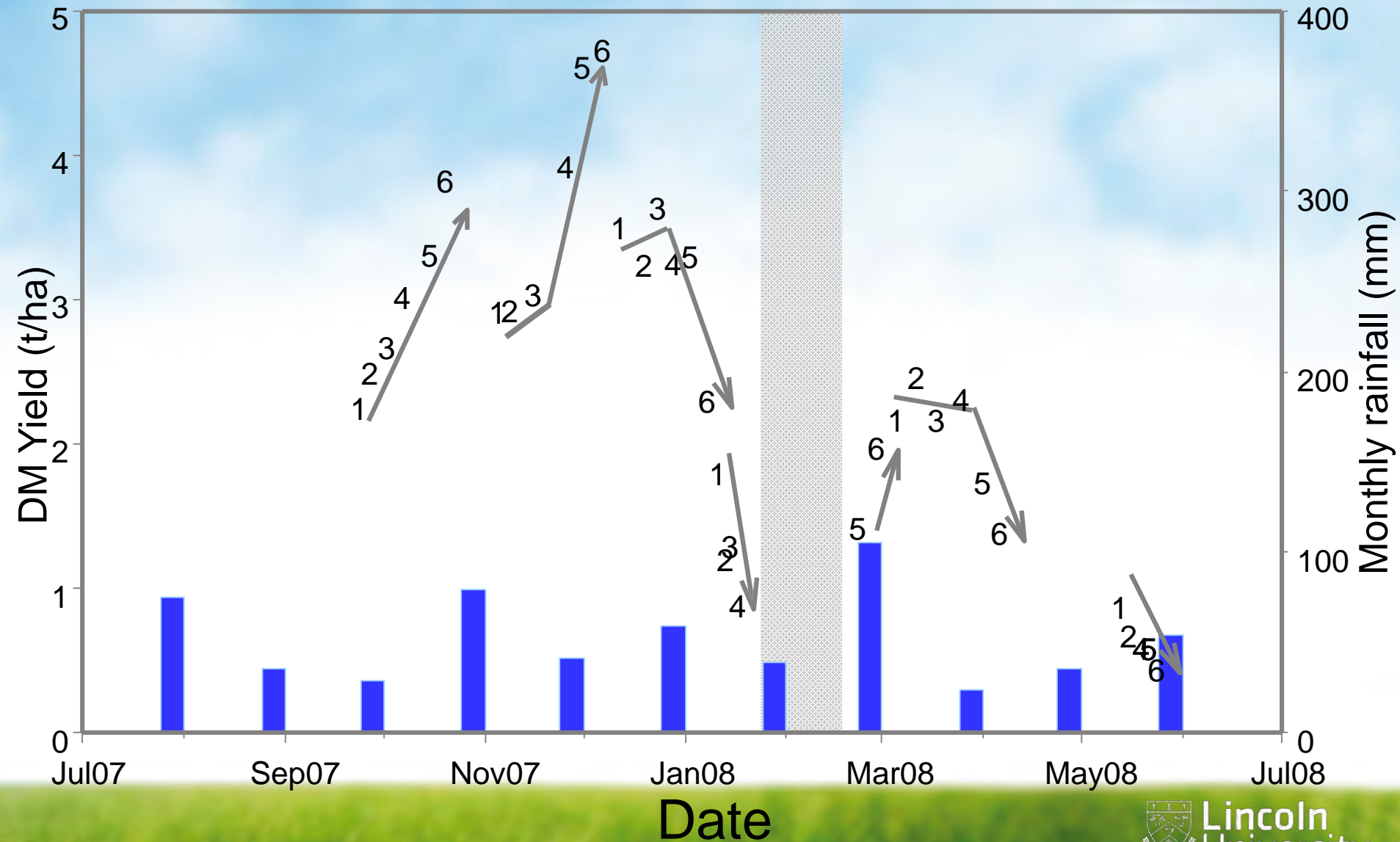
Paddock DM and mob rotation



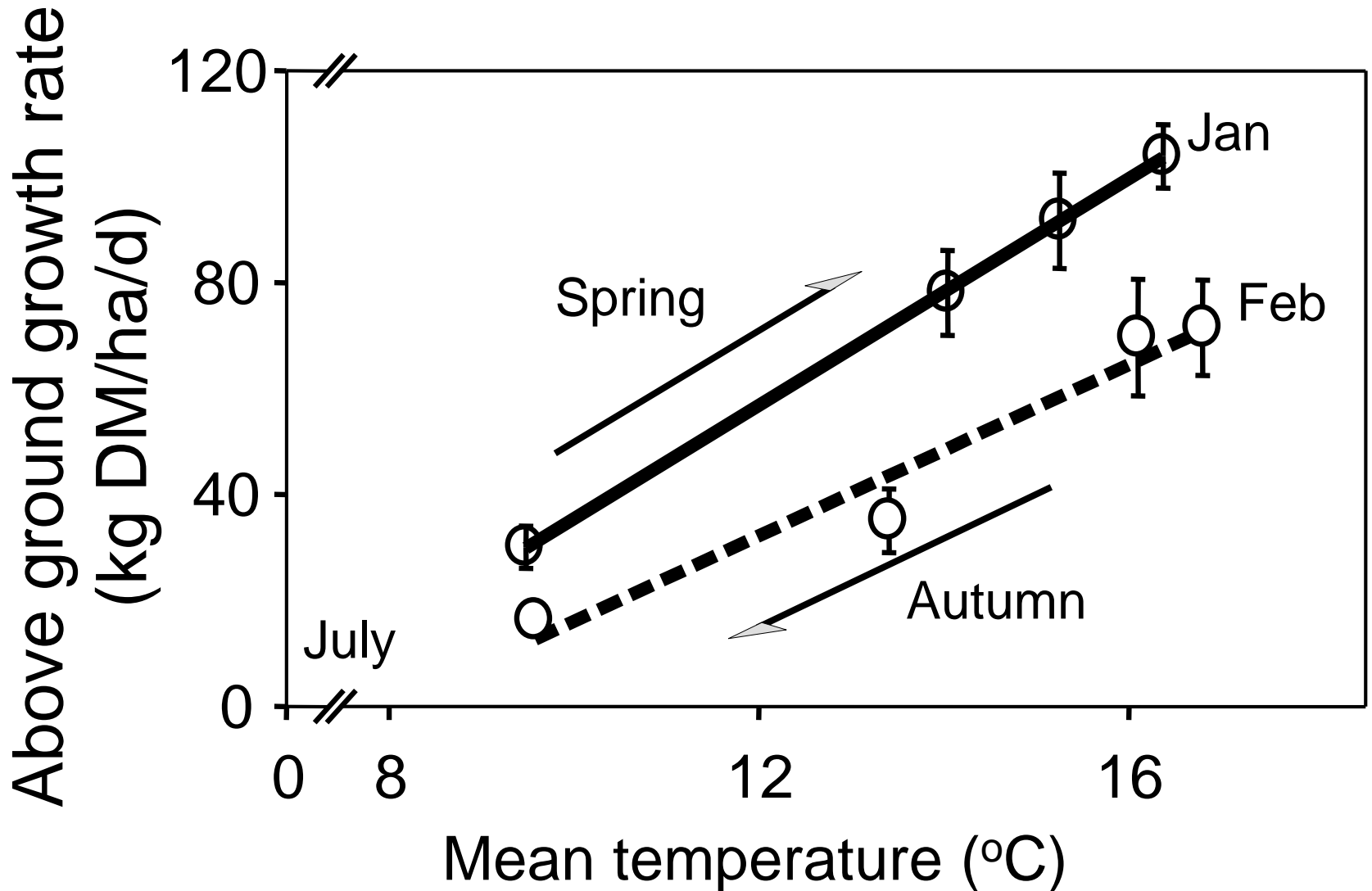


2011 10 7

Lucerne grazing rotations



Vegetative growth



Lucerne grazing

38 days resting

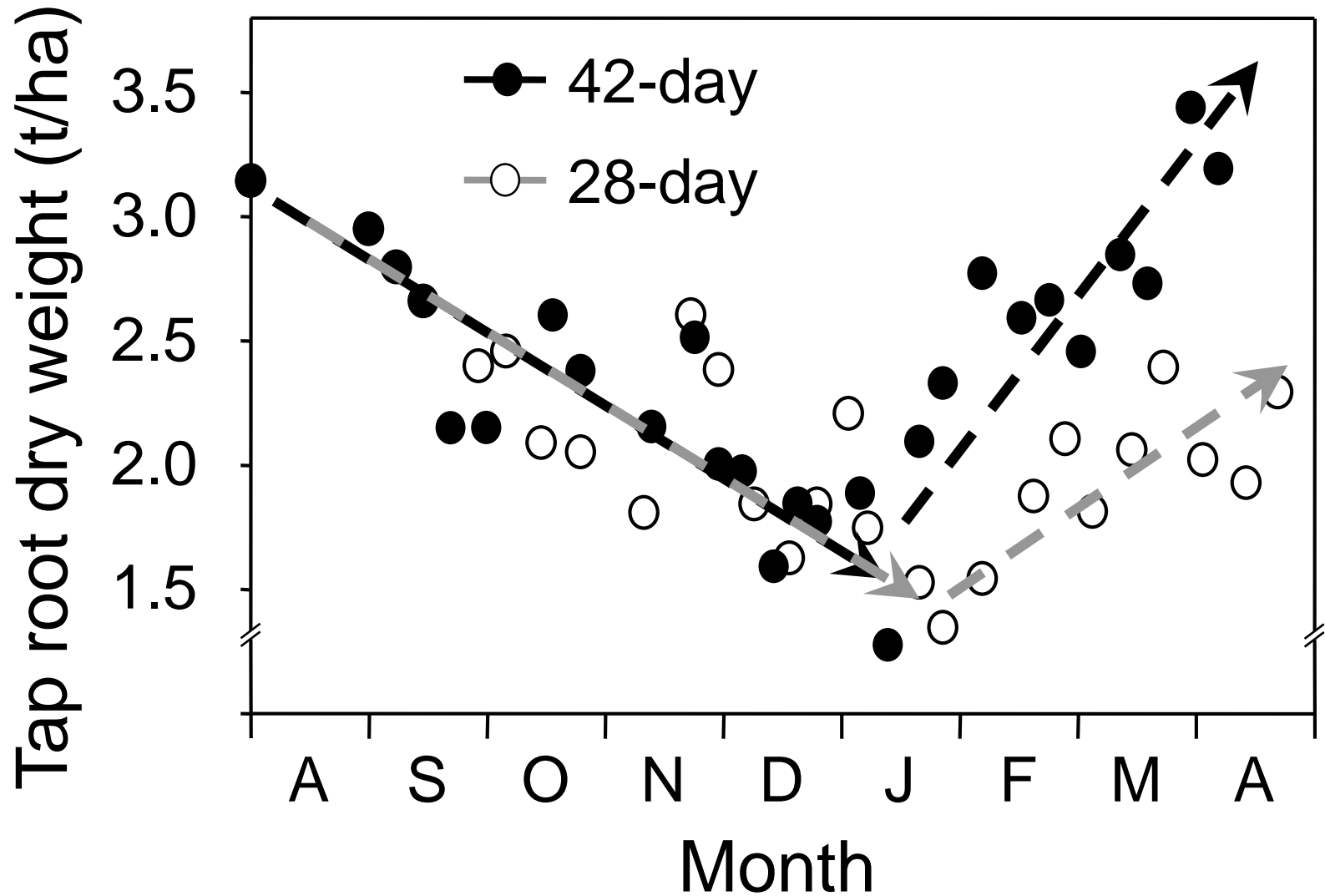
4 days grazing



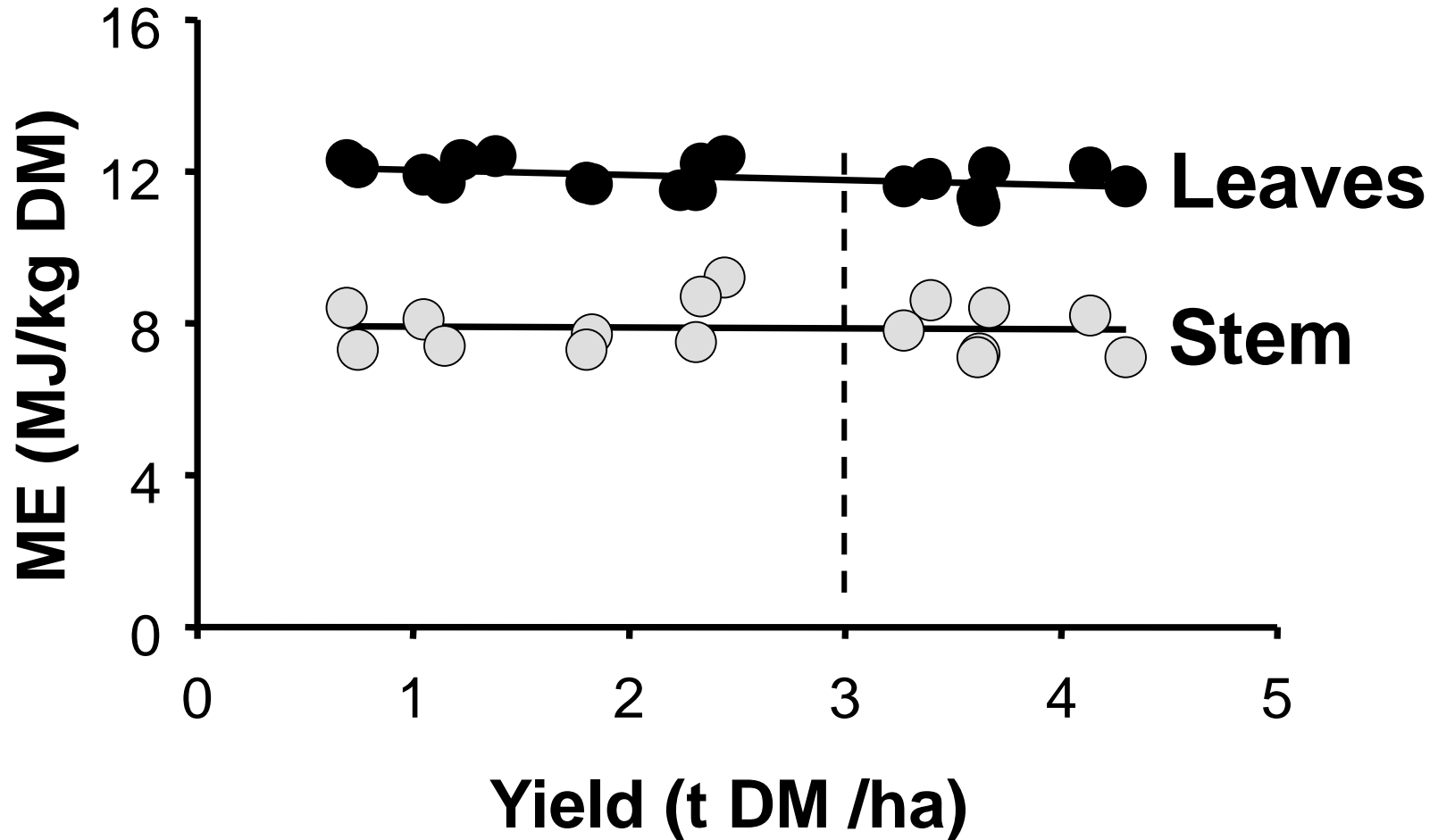
25 days resting

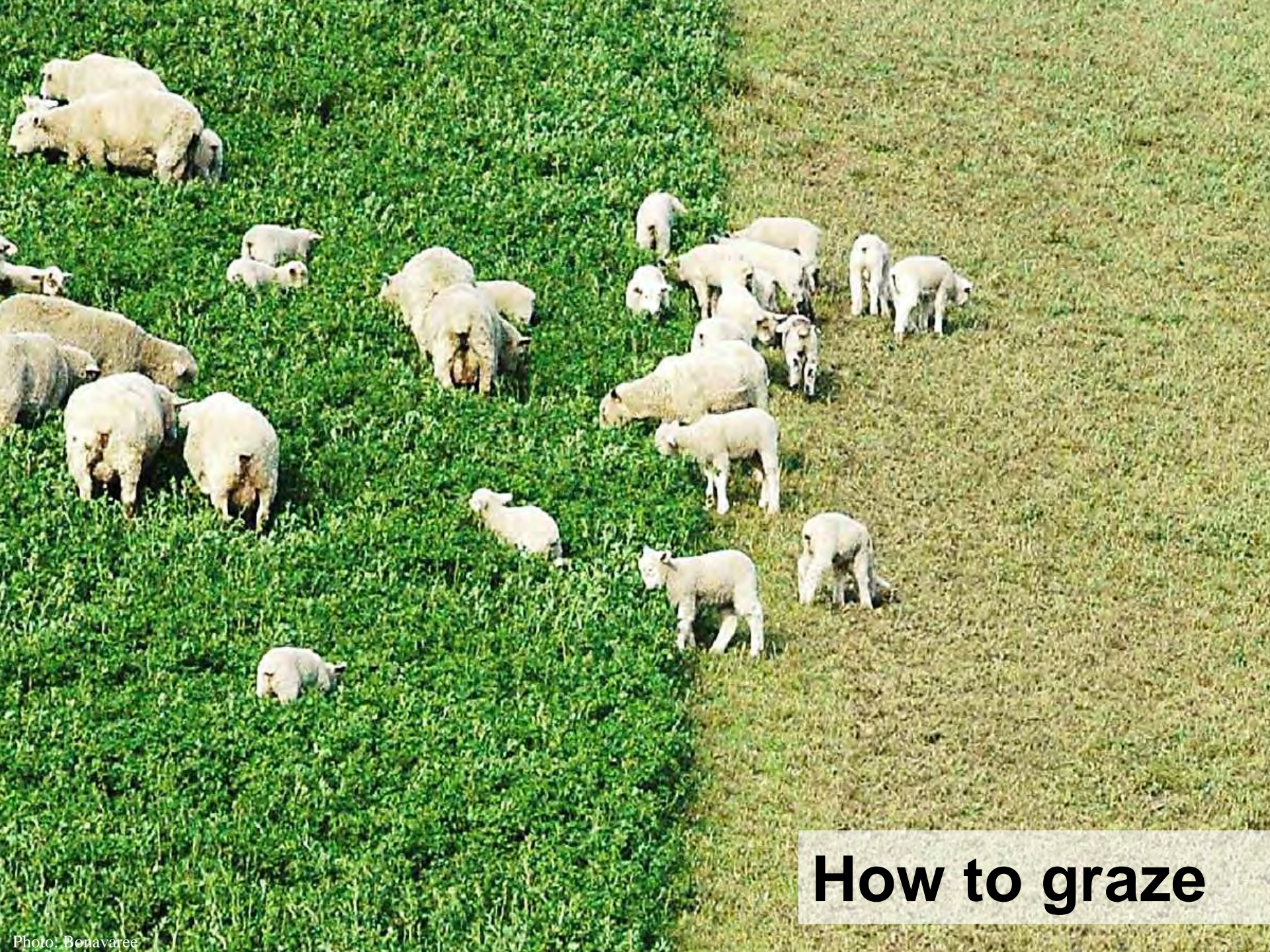
3 days grazing

Partitioning to roots



Metabolisable energy of lucerne





How to graze

Autumn = flowering plants



Rotation 4 Pre-graze
Plot 6 (28/2/08) **2.0 t DM/ha produced in**
51 d
Post-graze (4/3/08) **0.6 t DM/ha**
UTILISATION = 70%

Dryland farm at Marlborough in
summer 2011



Dryland farm at Blenheim in
spring 2011







Lambing onto Omaka Barley – North Face

Posted on August 27, 2012 by Cath Coulter

Omaka Barley is a great crop to use at Bonavaree. Barley is used here because it really fits in well with the Avery's system. The Omaka variety has been bred locally, and is very suitable for reliable dry matter production in a Marlborough dryland environment.

It is a multipurpose crop at Bonavaree, in that it is used as a green feed crop, and as a break crop. The Omaka is grazed multiple times from March till the end of August. Dry matter production is usually between 6–8 T/ha, and is grazed by both cattle and sheep.

Omaka Barley is also used regularly at Bonavaree for the purpose of breaking weed/pest cycles, and increasing base soil fertility in preparation for sowing lucerne, or a Bonavaree mix. Barley is used as the 2nd break crop in a multi stage lucerne renovation system that has been working very well. The 1st break crop used is an Annual Ryegrass that is grazed by multiple bearing ewes at lambing, and prime bull beef production. We will be following the progress of this renovation system through, with regular updates.

Some paddocks are used to grow Omaka Barley for two consecutive years, but because of the Avery's wider interest in establishing paddocks with Lucerne, barley is normally used as a 2nd break crop in the renovation process.



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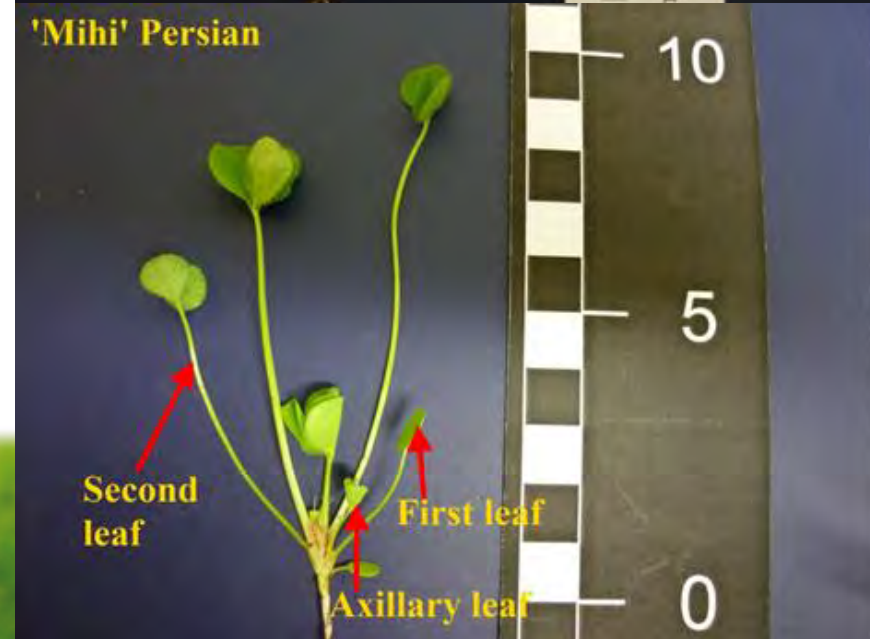
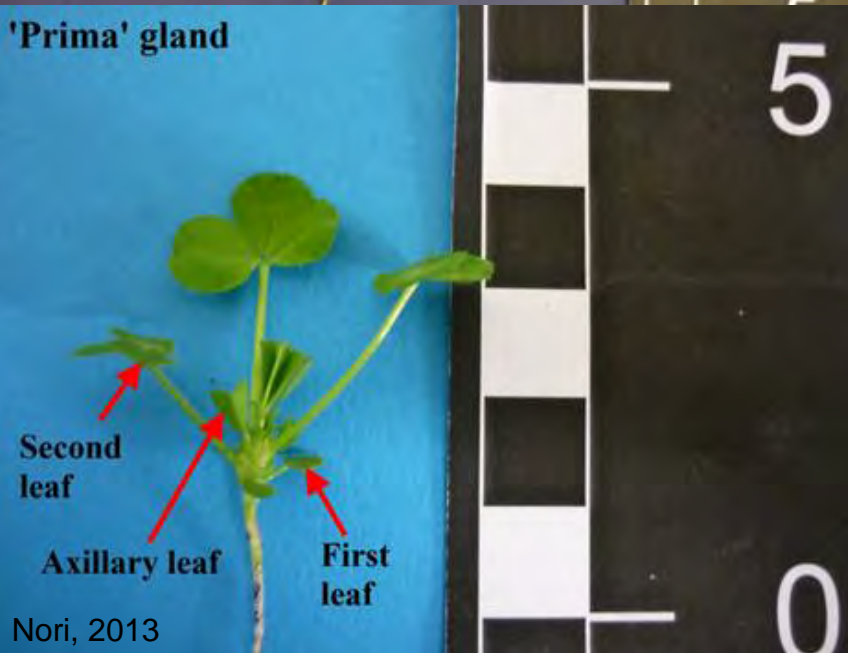
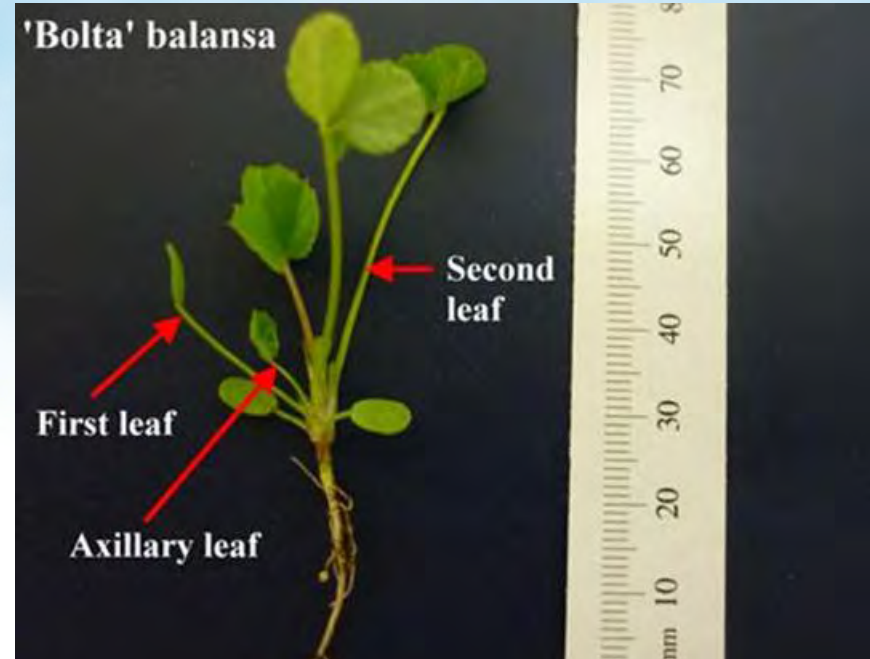
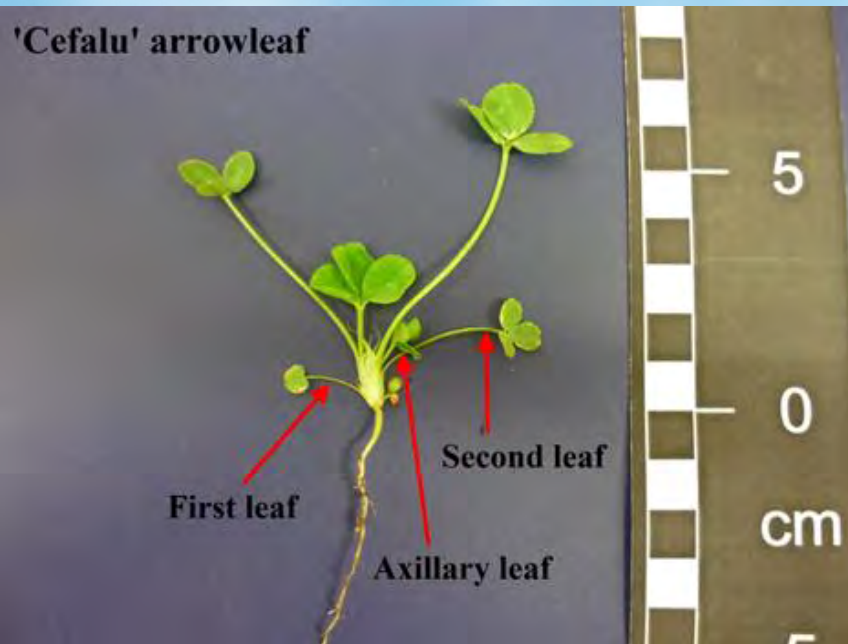


Comparison among species at 157 DAS

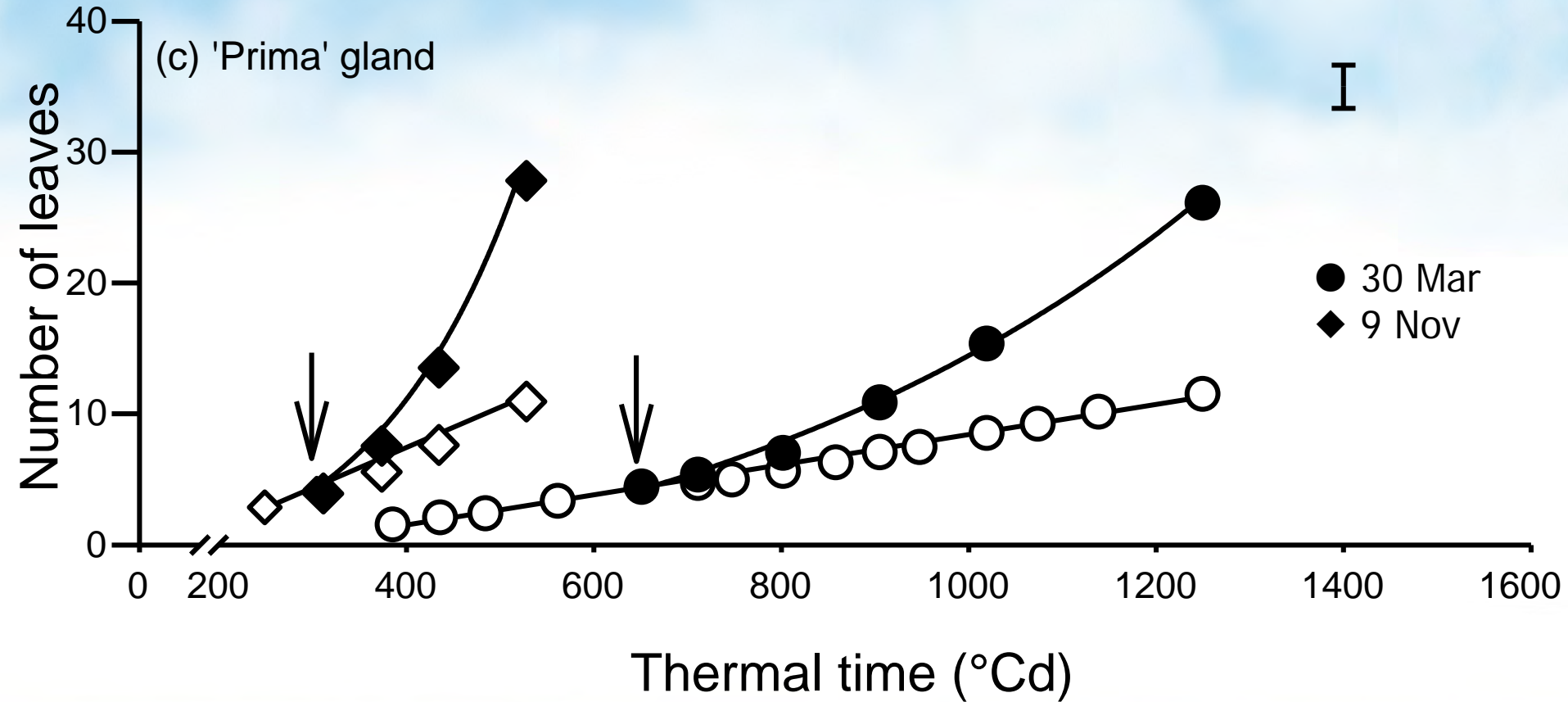
SD: 26 Feb 10



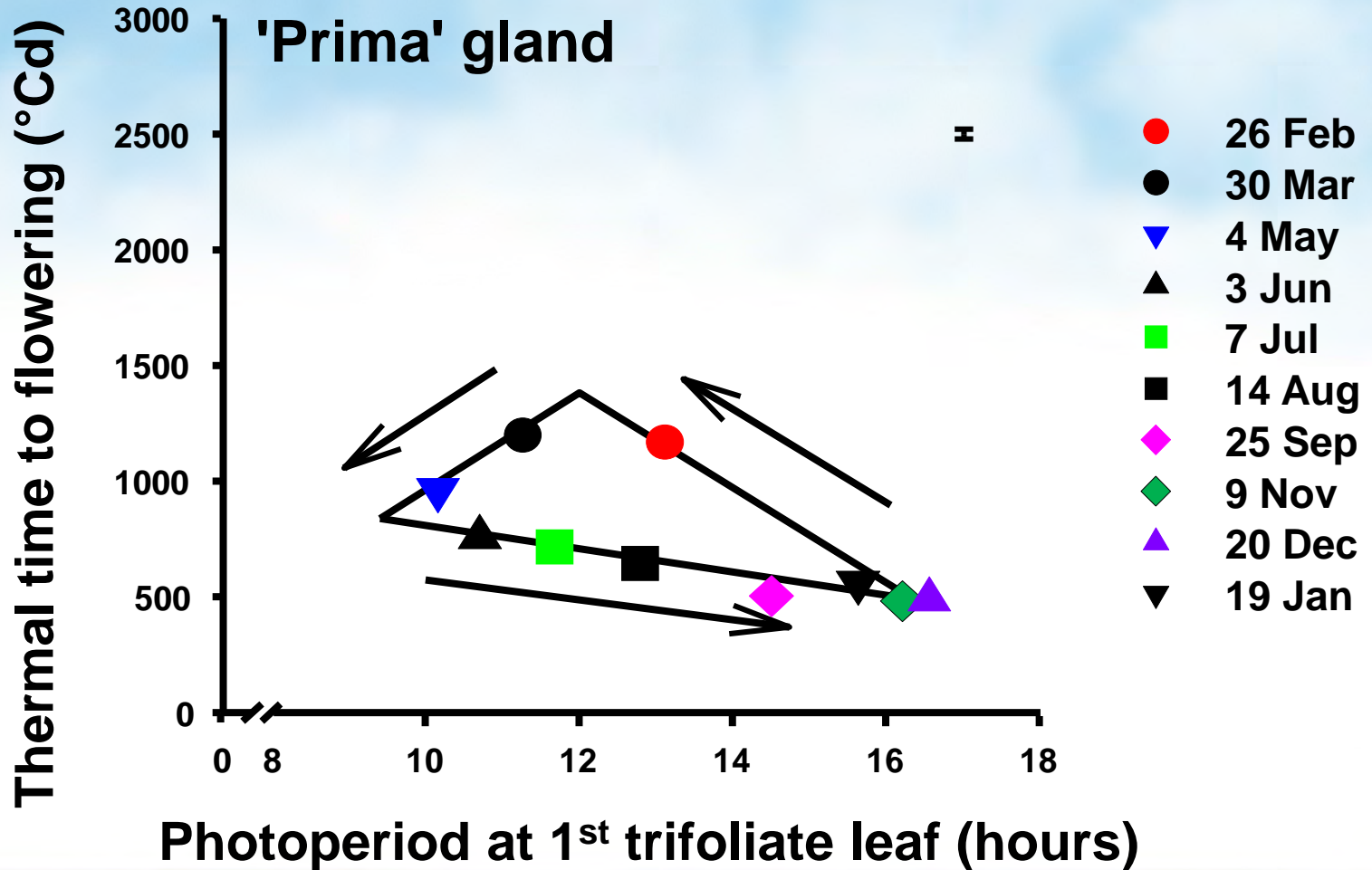
First axillary leaf



Time to axillary leaf



Time to flowering





'Cefalu' arrowleaf

'Prima' gland



'Bolta' balansa

'Mihi' Persian



Seed yield, regeneration

Species	Sowing rate (kg/ha)	Seed yield (kg/ha)	1st year regeneration
'Cefalu' arrowleaf	6	914	20% ~ 183 kg/ha
'Bolta' balansa	4	2309	30% ~ 693 kg/ha
'Prima' gland	4	2370	16% ~ 379 kg/ha
'Mihi' Persian	5	862	98% ~ 845 kg/ha



Omarama 25 Sept 2012



Omarama 25 Sept 2012

Balansa clover
Omarama 25 Sept 2012





Balansa clover
Omarama 25 Sept 2012



**Nodules on Balansa clover
Omarama 25 Sept 2012**

Balansa clover
Omarama 25 Sept 2012



Bog Roy



2012 3 24



2012 3 24



2012 3 24



2012 3 24



2012 3 24



2012 3 24



2012 3 24

Balansa clover seedling
Bog Roy 2 Apr 2012



Balansa clover
Bog Roy 26 Sept 2012



Balansa clover
Bog Roy 26 Sept 2012





Bog Roy 26 Sept 2012

**Mr Lucas can't contain his joy
at locating a
balansa clover seedling
& breaks into the clover dance**

**Bog Roy
26 Sept 2012**





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Also:

Dryland Pastures Website:
www.Lincoln.ac.nz/dryland

References

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