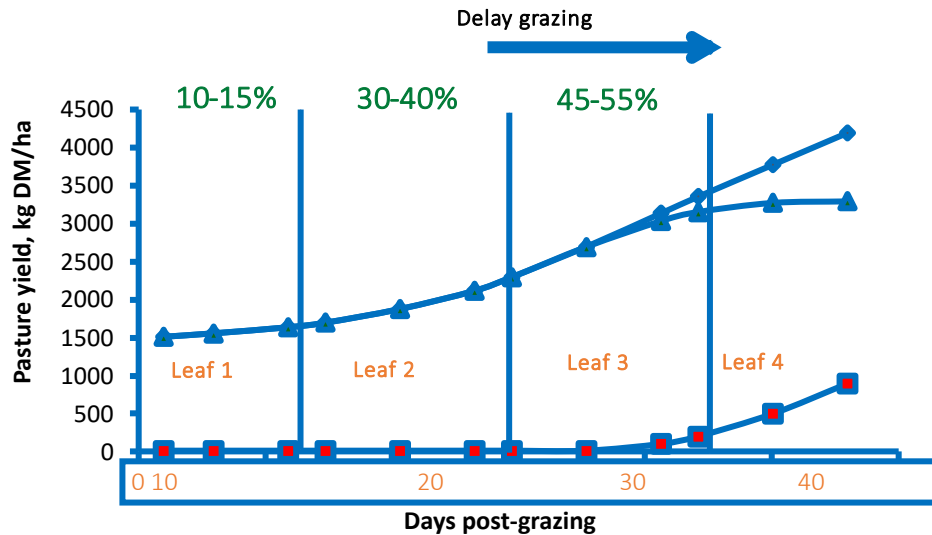


Principles of pasture growth

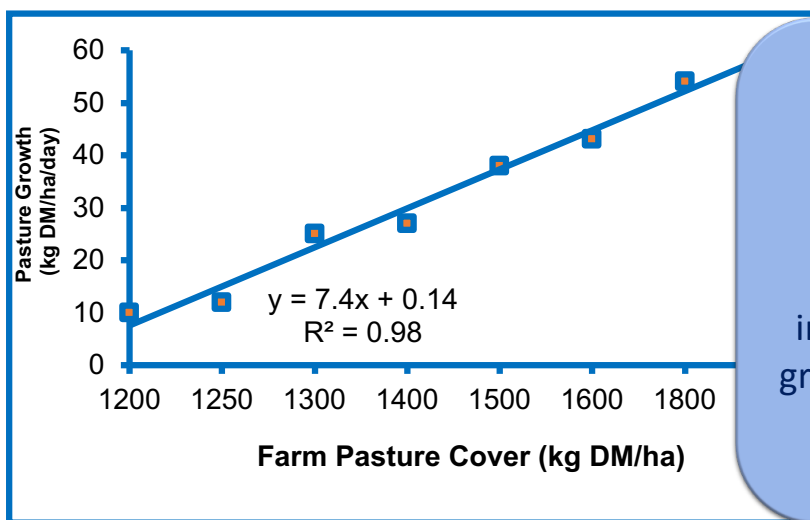
How pasture grows

FarmWise®



Spring Pasture Growth

FarmWise®



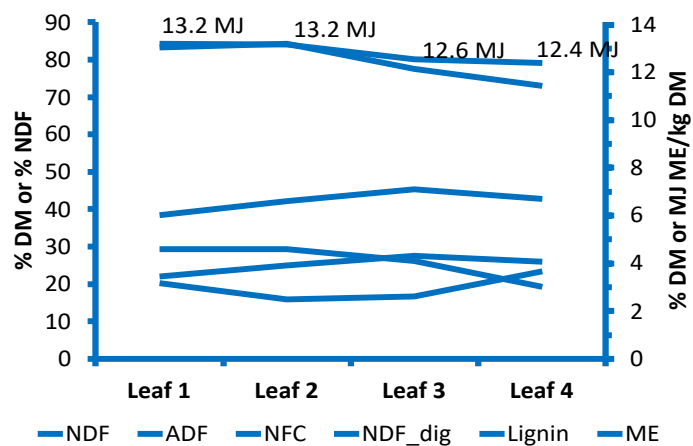
Grass grows grass!

For every 100 kg DM increase in farm cover, growth rate increases by 7.4 kg DM/d

Grass Grows Grass!

Quality matters

What happens to pasture quality?



FarmWise®

Increase rotation by 5 days (approx ½ leaf stage)

Increase DM prodn by 1t DM (~5%)

Reduce ME density by 0.3 MJ (~2.5%)

Daily milking cow requirements: kg DM/cow/day at 11.0 MJ ME/kg DM

Breed	kg Lwt	kg MS/cow/day						
		1.0	1.2	1.4	1.6	1.8	2.0	2.2
J	375	11.2	12.6	14.0	15.4			
J	400	11.5	12.9	14.3	15.7			
J x F	450	12.2	13.7	15.2	16.6	18.1		
Fr	500	12.8	14.3	15.8	17.3	18.8	20	
Fr	550	13.3	14.8	16.3	17.8	19.3	20.6	22.0

(No walking or Lwt loss or Lwt gain included).

Daily milking cow requirements: kg DM/cow/day at 12.0 MJ ME/kg DM

Breed	kg Lwt	kg MS/cow/day						
		1.4	1.6	1.8	2.0	2.2	2.4	2.5
J	375	12.5	13.7	14.9				
J	400	12.6	13.9	15.1	16.3			
J x F	450	13.3	14.6	15.9	17.2	18.5		
Fr	500	13.9	15.2	16.5	17.8	19.1	20.7	
Fr	550	14.3	15.6	16.9	18.2	19.5	21.1	21.7

(No walking or Lwt loss or Lwt gain included).

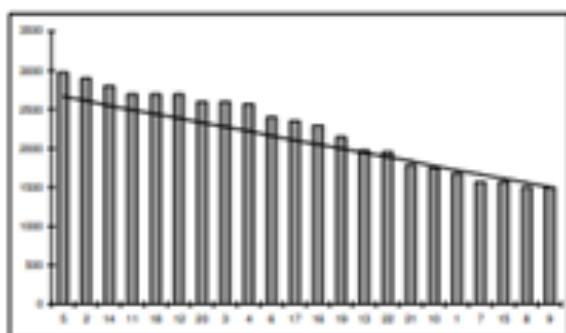
Setting trigger points and using farm walk data

Pre-grazing cover target	$(\text{stocking rate} \times \text{intake} \times \text{round length}) + \text{residual}$	=
Round length	$(\text{pre-grazing cover} - \text{residual}) / \text{stocking rate} / \text{intake}$	=

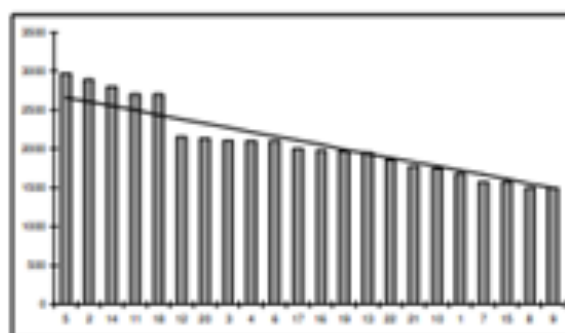
Leo's advice:

- Set up round length according to pre-grazing cover target above 2½ to 3rd leaf stage (3000+)
- Target a residual to your system
- Use mower proactively
- Your pre-grazing cover target is your trigger point
 - o Paddocks above target get stepped over for silage
 - o If covers are below target, then feed supplements (don't speed up round)

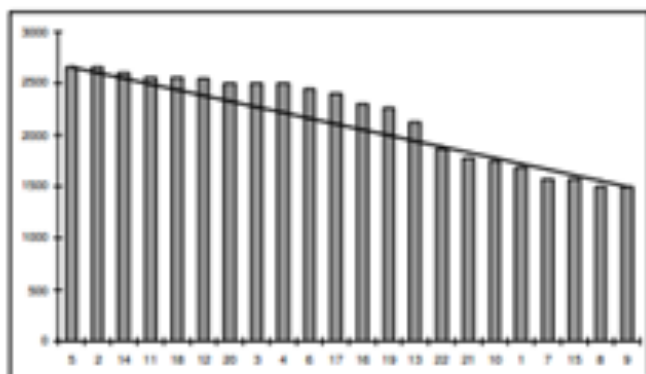
A farm in a "Classic" surplus



A farm in a "False" surplus



A farm in an "Early" surplus



FarmWise®

Rules for mowing

- Start mowing as soon as growth exceeds demand (stocking Rate * grass intake/cow)
- If mowing in front of cows, you need to allow for 100 kgDM/ha extra cover on paddocks

- Mow night breaks after morning milking (no more than 50%-60% of area grazed daily)
- Graze night and day paddocks so mower goes over whole paddock
- Follow mower with urea at 65 kg/ha

Mowing on front or behind?

- Mowing on front
 - Potentially increases intakes
 - Creates wilting, increases palatability and harvesting efficiency, but doesn't improve the quality!
 - Takes the selection away from cows, so quality of the intake will be down
 - As soon as you see brown clumps behind the mower (ranked grass), it means that you're better off topping behind cows
- Topping
 - Allows for cows to select what they eat
 - For some reason milk solid % goes up as well as production
 - Dungs get spread over paddock (and tractor 😞)