



"In farming everything we do has a compounding and cascading effect"

Soil Health Academy

Spiralling Up - Becoming Healthier

Spiralling Down - Becoming Unhealthier

6 - Principles of Regen - Ag.

- 1. Diversity
- 2. Living Root in the ground at all times.
- 3. Cover on the soil at all times.
- 4. Limit Disturbance (Physical, Chemical, Biological)
- 5. Animal integration.
- 6. Context.



Tools

- Observation
- Plant Brix
- Feed Budget SR:CC
- Faecal NIRS Analysis
- Supplementation / Medication Stock Water
- Time Controlled Grazing / Density

Observed Forage Brix

Forage Species	Brix %
Pangola (Rank)	2.5 %
Callide Rhodes	4 %
Paragrass	6 %
Couch	1 %
Broad Leaf Weeds (Blackberry, Cobblers Peg)	9 %

Plant Brix- ADG

Plant Brix	Average Daily Gain		
< 5%	Less than 0.45 kg		
8-12 %	1.1 kg		
12-15 %	1.25 kg		
>15 %	1.35 kg		

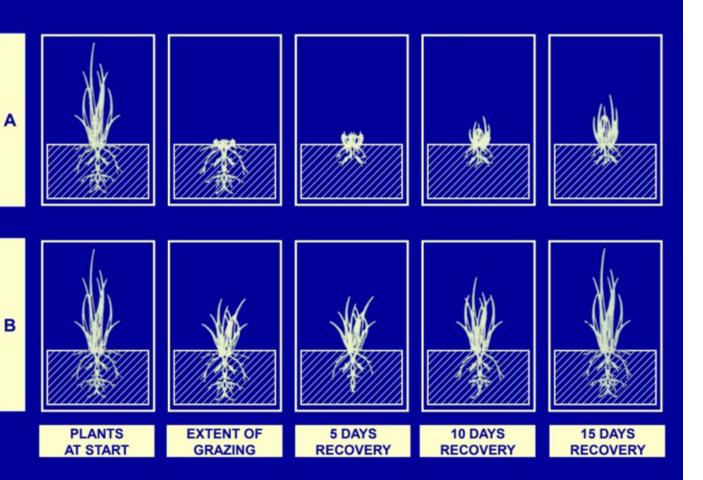
Plant Brix - DM Required

Forage Brix	% of LW Required		
1-3	4.0		
4-6	3.7		
7-10	3.4		
10-13	3.2		
13-16	3.0		
16-19	2.6		
19 +	2.5		

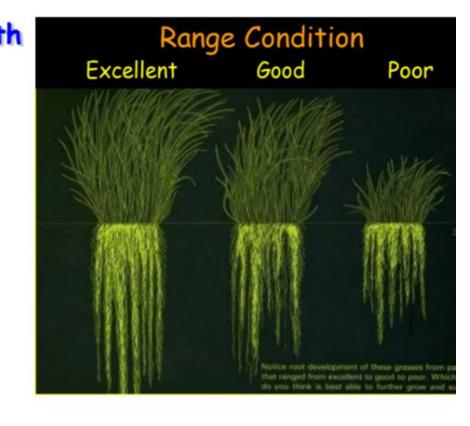


Feed Budget- Matching SR to CC

- Measure Pasture Dry Matter = 4000 kg/ha
- Determine what % you are going to take.= 50%
- Available DM =2000 kg/ha
- Determine number of cattle 400
- Determine class and % DM /beast- 3%
- Weight 400 kg
- Daily DM requirement 12 kg
- Determine how often you wish to shift -Daily
- 2000/ 12 =166 head /ha so 400/166= 2.4 ha Cells /day



% Leaf Volume Removed	% Root Growt Stoppage		
10%	0%		
20%	0%		
30%	0%		
40%	0%		
50%	2-4%		
60%	50%		
70%	78%		
80%	100%		
90%	100%		



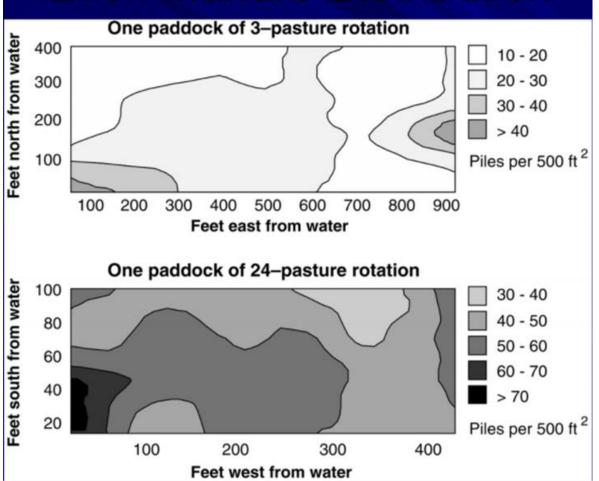
Cattle Manure Fertiliser Value

Question -How long does it take to fertilise pasture with manure?

Manure Distribution

Rotation Frequency	Years to Get 1 Pile/sq. yard		
Continuous	27		
14 day	8		
4 day	4 – 5		
2 day	2		
1 time a day	1		

Even Manure Distribution



250 cows x 400 kg LW x 1 ha grazing x 3 times /year

N 69 kg/ha P 10 Kg/ha K 90 kg/ha

\$245 /ha Fertiliser Value.

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mation - Client/Sampler Supplied

CF086 - Faecal NIR

CF086 - Faecal NIR

Faecal

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1	Callide East				
sults					
nalyte	Method	LOR	Units	B951890/1	
ein	CF086 - Faecal NIR	0.5	%	5	
	CF086 - Faecal NIR	0.5	%	14	
	erees s laus	0.5			

CF086 - Faecal NIR 0.5 59 CF086 - Faecal NIR 0.5 17 % CF086 - Faecal NIR 0.5 % 1.5 MJ/100 kg CF086 - Faecal NIR 0.5 13.1 LWt

B929211/1 SPG - SCRUB PDK

Analytical Results Compound/Analyte

Diet Crude Protein

Diet erade i rotein	CI 000 - I accai iviit	0.5	70	,
Delta-13C	CF086 - Faecal NIR	0.5	%	14
Est in vivo DM Digest	CF086 - Faecal NIR	0.5	%	60
Ash % Faecal	CF086 - Faecal NIR	0.5	%	17
Faecal N	CF086 - Faecal NIR	0.5	%	1.7
ME intake MEAN	CF086 - Faecal NIR	0.5	MJ/100 kg LWt	17.6
Non-Grass#	CF086 - Faecal NIR	0.5	%	6.9
Phosphorus for Faecal NIR Sample	CF086 - Faecal NIR	0.25	mg/kg	4800

Method

CF086 - Faecal NIR

LOR

0.5

Units

%

B929211

Analysis Location

%

mg/kg

5.2

2800

0.5

0.25

Sample Description





Questions?