

The Good Points

It's cheap The cow does the work Manure is spread Nutritious Reduced power and machinery costs Good for public perception



The Not So Good



- Conditions change Growth rates vary enormously
- Quality changes as the season progresses
- Grass gets disease
- Cows will reject some grass
- Not suitable for all farms layouts
- Cows need to be robust
- Robotics creates more complexity
- Requires us to change and adapt
- Requires constant management

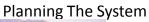




Planning Infrastructure

Good infrastructure makes life easy and extends the grazing season

- All paddocks need to be same size
- Not more than 2 days grazing per paddock
- Tracks makes access in wet conditions possible
- · Water, cows are lazy and milk is 90% water
- Paddock access, more than one access point avoids problems in wet weather





New Parlour Tracks

Paddocks

Water

Planning the Year

The Basics

Target Average Covers

2100-2300 Kg DM / Ha of Total Dry Matter Depending on time of

& 2100 Kg TDM year 1600

TDM

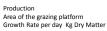
Target Residuals

Target Grazing Cover



2800-3000 kg DM / Ha

Planning



Total Growth for Week (KgDM) Total DM Requirement/Week (Kg) Balance (kgDM)

N10 • (* jk =	N7*N9*7											
A	8	N	0	Ρ	Q	R	S	T	U	V	W	×
GRAZING BUDGET												
Manor Farm												
	Start	11-Apr-15	25-Apr-15	82-May-15	03-Hep-15	16-May-15	23-May-15	30-May-15	16-Jun-15	1)-Jun-15	20-Jun-15	27-Jun-1
% Utilization	90%											
Total Grazing Area (Ha)	169	112	112	112	112	114	114	114	114	114	169	161
Total Cutting Area (Ha)		57	57	57	57	55	55	55	55	55	0	
Predicted Growth Rate (KgDMHa/Day)		40	45	50	65	75	75	60	50	45	45	- 4
Total Growth for Week (KgDM)	0	31360	35280	39200	50960	59850	58850	47890	39900	35910	53235	4732

Planning the year



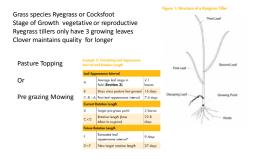
Cow numbers Daily grass consumption kg Dry Matter per day

	18-Apr-15	25-Apr-15	02-May-15	09-May-15	16-May-15	23-May-15	30-May-15
No. Milking Cows Grazing	460	460	460	400	380	380	375
No. Dry Cows Grazing	0	0	o	60	80	80	85
Grazing Stocking Rate (LSU/Ha)	4.11	4.11	4.11	4.11	4.04	4.04	4.04
DM Intake/Milking Cow/Day (Kg)	10	12	15	15	15	15	15
DM Intake/Dry Cow/Day (Kg)	8	8	8	8	8	8	8
Total DM Required/Day (Kg)	5111	6133	7667	7200	7044	7044	7006



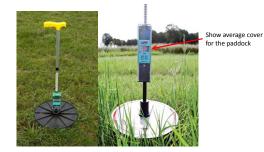
	2000 -										
	1800		_								
	1600 ·				_	_			_		
	1400						_				
£	1200 ·										
Kg DM / Ha	1000 ·										
8	800										
	600										
	400										
	200										
	0 -	1	2	3	4	5 y	Veek 6	7	8	9	10

Maintaining Quality

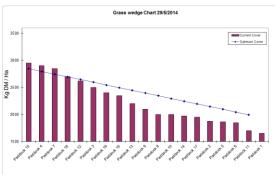




Rising Plate Meters



Monitoring Grass Growth



Diverse Swards

Evidence th	at mix swards are more productive					
Benefits	Drought Tolerance, Carbon Sequestration					
	Maintain Quality Longer					
Grass	Cocksfoot or Timothy based					
Clovers White Red and Alsike						
Legumes	Lucerne Sainfoin Birds Foot Trefoil					
Herbs	Chicory, Plantain, Yarrow					
Man						
NUMBER OF THE OWNER						



Utilising Diverse Swards

Measuring Rotation Length Residuals Grazing Pressure Plate meters do not work May be up to 90 days May leave much higher residuals Stocking rates kg LW / Ha may be very high Cattle moved more frequently



