

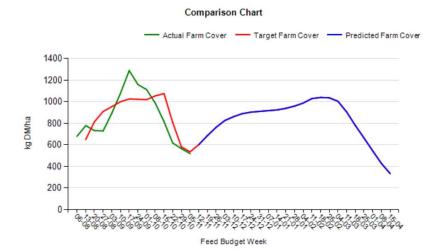
Or visit www.teagasc.ie/grass10

Pasture Base IRELAND

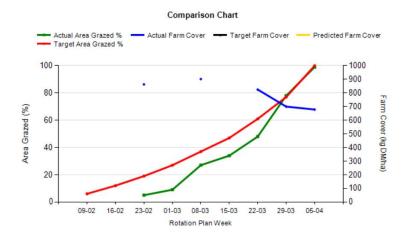
Range of Tools



Grass Budget



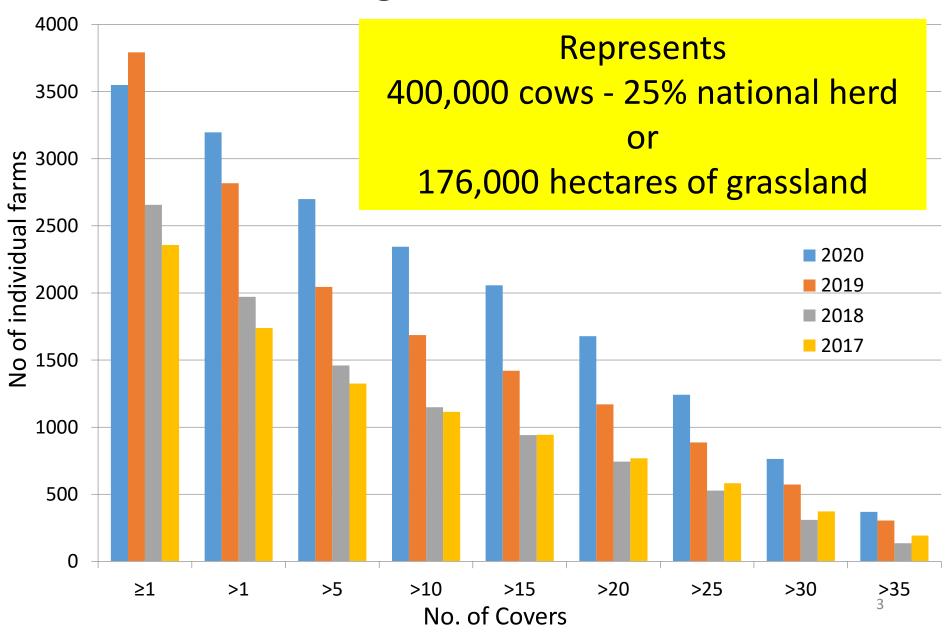
Rotational Planners



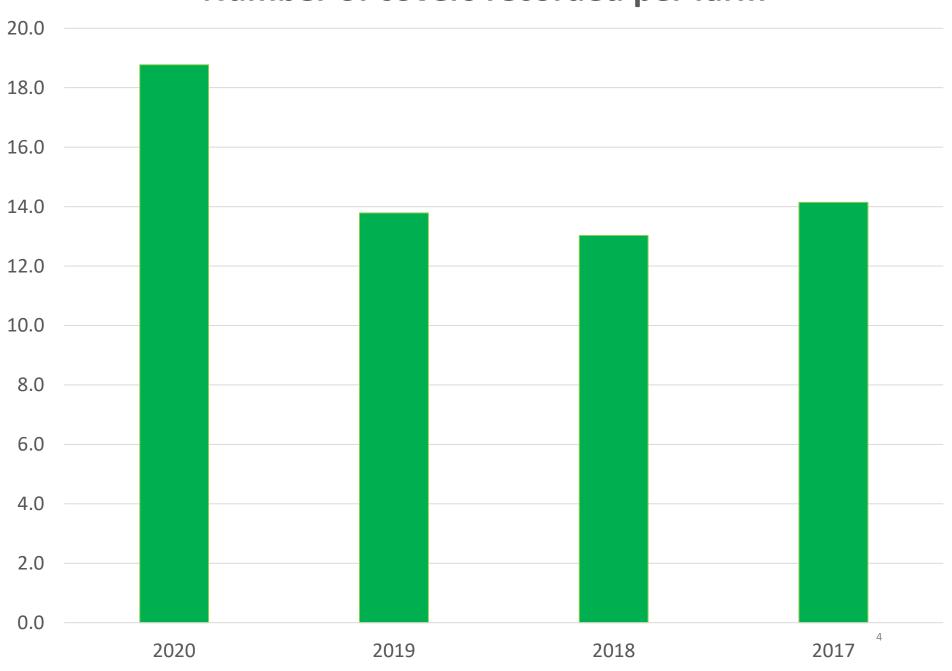
Fodder Budget



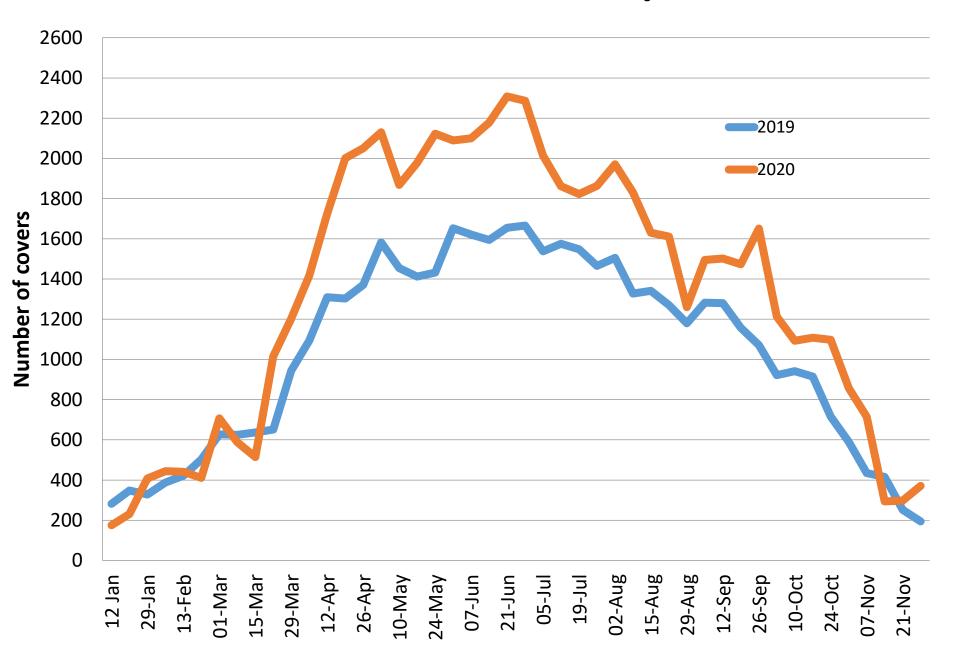
No of farms using PBI



Number of covers recorded per farm



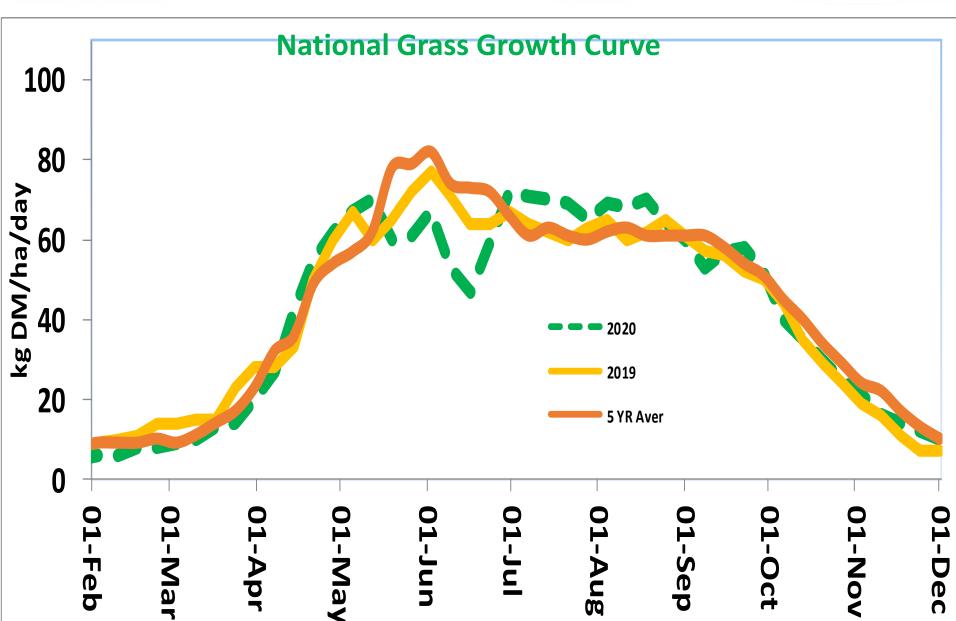
Number of covers recorded per week



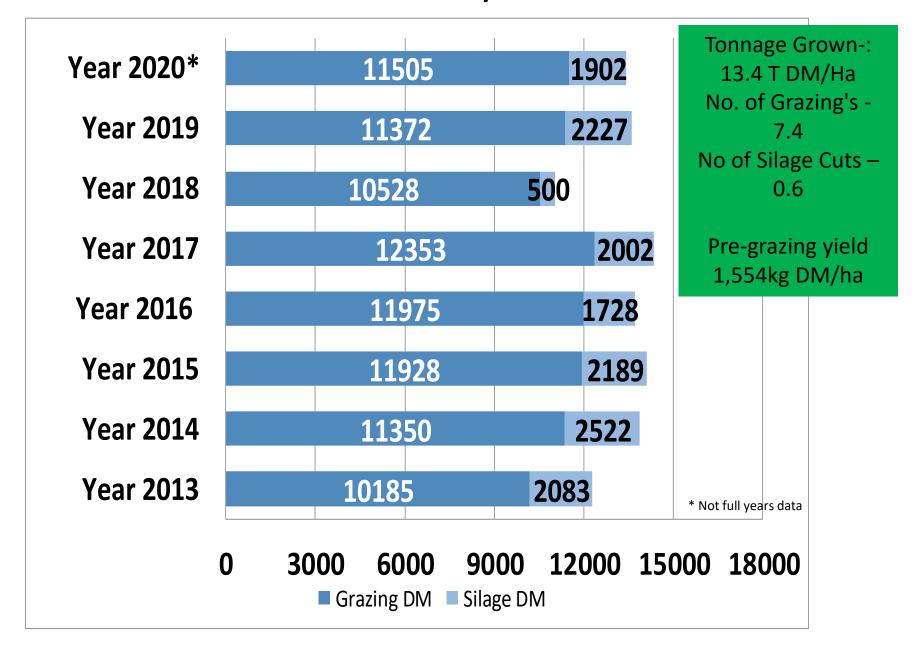




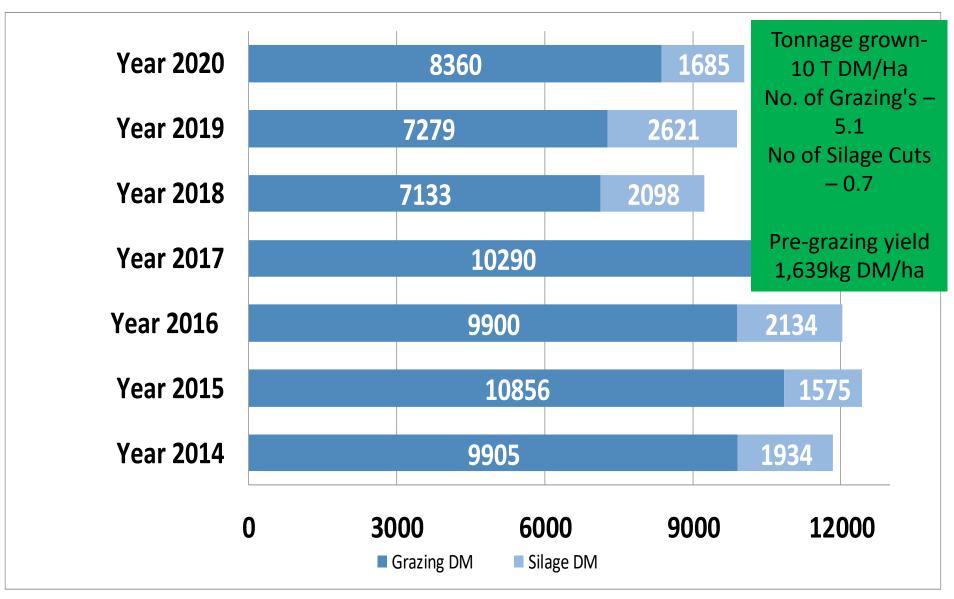




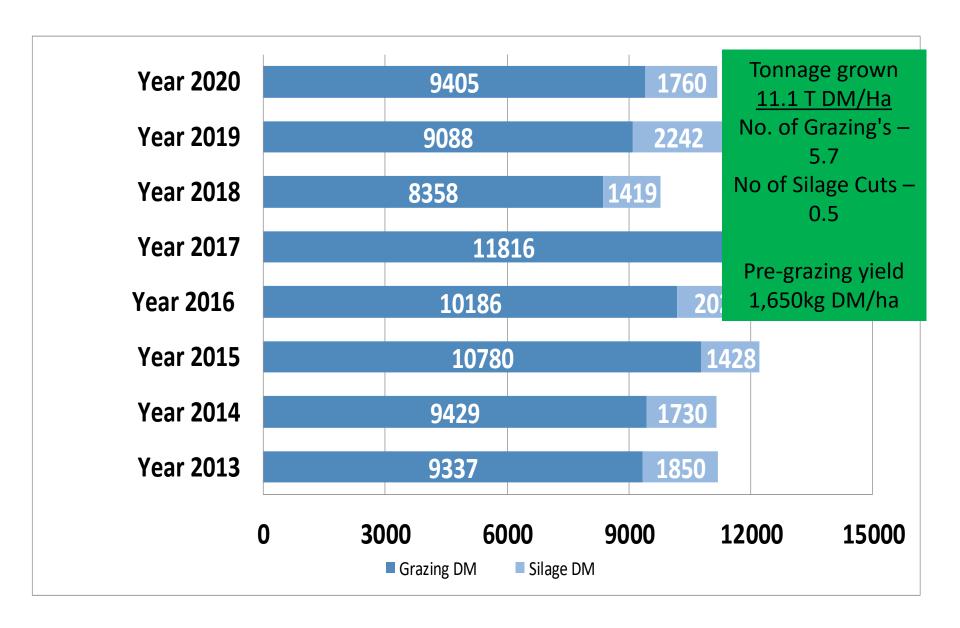
Grass DM Production – Dairy ≥30 covers recorded



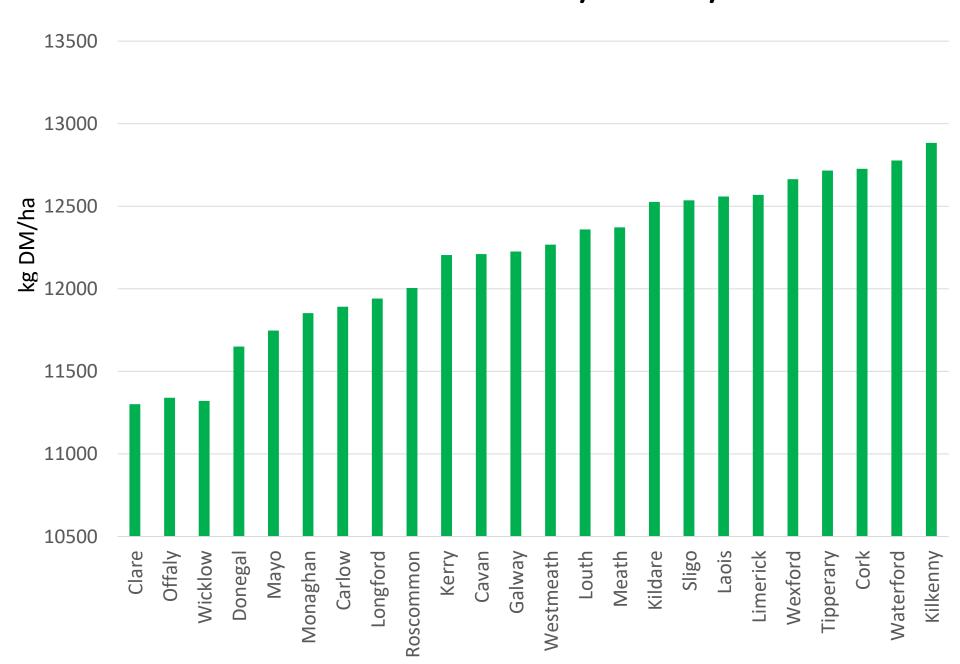
Grass DM Production – Beef ≥20 covers recorded



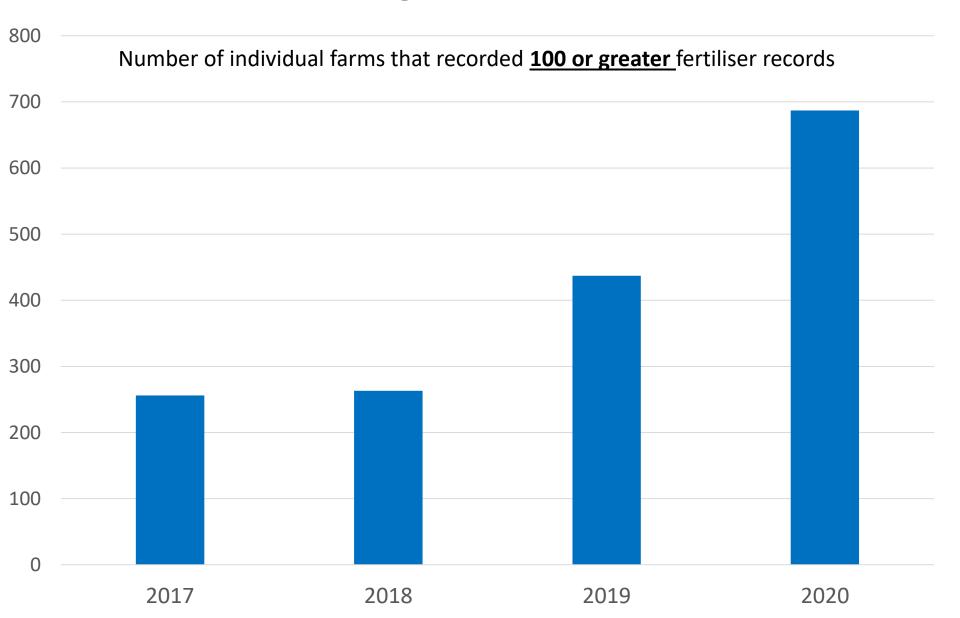
Grass DM Production – Sheep ≥20 covers recorded



Grass DM Production – All farm by County ≥20 covers



Fertiliser Recording on PBI



Milk Processors sending Milk Data to PBI





























PBI – where to next for our farmers

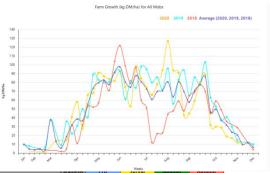
- Fertiliser management
- Soil fertility management
- Farm mapping/soil type
- Weather data

- Generate reports automatically
- Grass Growth Predictor
- Display results/data in graphs

Farmer

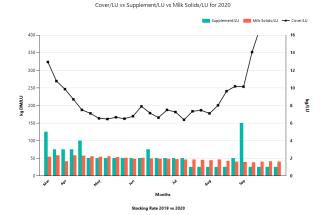
- Purchased feeds
- Silage from out farm
- Feed budget
- Grass calculator

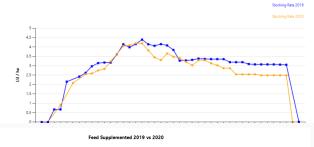
Nitrogen efficiency



Reports on PBI

Month	Count	Cover Date(day)
January	1	22
February	1	19
March	3	3; 16; 25
April	5	7; 13; 17; 22; 27
May	6	1; 5; 17; 21; 25; 29
June		2; 5; 10; 15; 18; 22; 25; 29
July	8	3; 7; 11; 14; 18; 22; 25; 29
August	5	6; 11; 15; 22; 29
September	4	4; 12; 18; 26
October	5	2; 9; 16; 23; 30
November	1	7
December	0	
TOTAL	47	





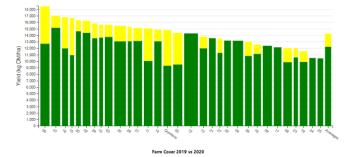


27/Apr (97)

18/Jun (149)

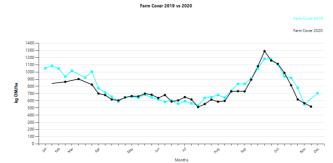
18/Jun (149)

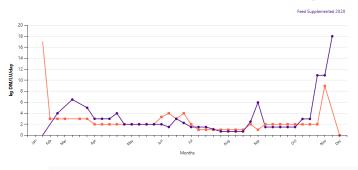
18/Sep (89



Cumulative Paddock Yield to 18 Nov 2020

Silage Yield Grazin











Jim's 4-Year Average Grass Performance

Annual Tonnage	14.7 T DM/ha (13.9)*
Grazing Yield	12.6 T DM/ha (12)*
No. Grazings Per Paddock	8.6 (8.2)*
Silage Yield	2.1 T DM/ha (1.9)*
No. Silage Cuts Per Paddock	0.4 (0.3)*
Pre-Grazing Yield	1465 Kg DM/ha
No. Farm Walks Per Year	40
Days at grass	302

^{*}Figures for 5-year average, which includes drought year 2018







Jim's Grass Year

Autumn

Jim's Objective:

- Build for autumn
- 1100 kg DM/Ha AFC on 1st Feb Grass for spring - day and night with no silage

Jim's Targets:

- 1200 Kg DM/ha AFC at end Sept
- 65-70% closed by Nov 1st
- Closing cover 750-800 Kg DM/ha

Decisions Made to Achieve Target:

- Grass Budget stay on track
- Walk farm 5-6 times in August
- Reduce Demand to match your budget
- Stay above 550 kg DM/ha

Spring

Jim's Objective:

- Grass for cows everyday
- Set up for 2nd rotation

Jim's Targets:

- 40% grazed by Mar 1st
- Stay above 550 Kg DM/ha
- 70% by 17th March
- Start 2nd round last week March

Decisions Made to Achieve Target:

- Using Grass Budget
- On/off grazing don't poach
- Fertiliser/Slurry applied
- Increase supplement to keep on track

Mid Season

Jim's Objective:

- Grazing the Right grass
- Focus on quality

Jim's Targets:

- Graze 1300-1400 kg DM/ha
- Rotation Length 18-19 days
- 160-180 Kg DM/LU

Decisions Made to Achieve Target:

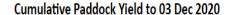
- Back Calculations
- Topping up fertiliser –quality
- PBI Planner
- Remove surplus
- · Set demand right match growth

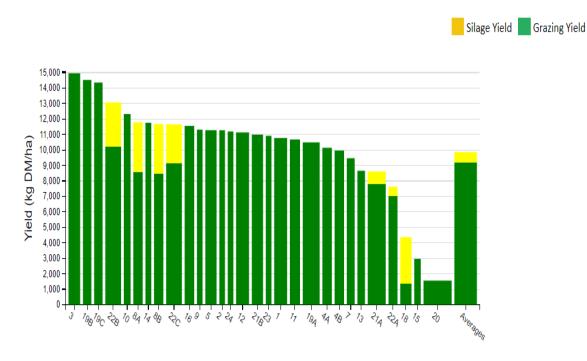




Annual Tonnage Report Improvements?







- 1) Paddock 20- Silage ground – No tonnage entered for 2 cuts
- 2) Paddock 15 and 18 were only measured handful of times
- 3) 22A, 21A, 13, 7 we can improve in 2021

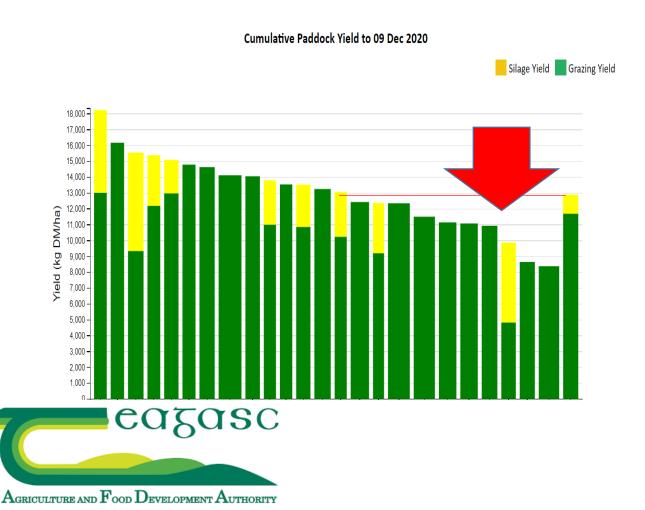
Wet Paddock?
Soil Fertility?
Lime Status?
Perennial Ryegrass?





Annual Tonnage Report Cost of poor paddocks





46 Ha milking platform. Growing 13 T /DM/Ha

22 Ha sub optimum for grass growth

Cost of these paddocks?

36 T DM losing out.

80% utilisation- 28 T/DM/Ha

Grass worth= €173 per tonne DM/Ha
28 T x €173= €4844

Annual Tonnage Report



GROWING 14 TON GRASS DM/Ha

Growth Period	Grass Grown/Rotn (kg/ha)	Rotn. Length (days)	No. of Rotations	When Does Grass Grow?
Feb to Mid Apr	1000	65	1	- 10%
Mid Apr to Mid Aug	1400	20	2-7	- 60%
Mid Aug to Mid Sep	1600	30	8	ĭ
Mid Sep to Mid Oct	1900	35	9	- 30%
Mid Oct to Mid Nov	1100	35	10	
				_
Total Grass production/ha	14000	285	10	100%









Month	Count	Cover Date(day)	Month	Target
January	0		Jan	1
February	0		Feb	1
March	2	4; 29	Mar	2
April	2	14; 19	Apr	4
May	3	3; 24; 31		
June	1	10	May –July	4-6
July	3	1; 16; 22		
August	3	6; 16; 29	Aug	4
September	2	8; 18	Sept	3
October	3	1; 19; 30	Oct	3
November	0		Nov	1
December	0		Dec	1
TOTAL	19		Total	32-38





The target (in green) is to measure farm cover 30 + times per year.

Common Pitfalls-:

- No opening/ closing cover
- Not measuring weekly in April during the transition period from low to high growth rates (grass gets out of control)
- Not measuring twice per week during peak growing times. This leads to suboptimal pre-grazing yields and lower animal performance
- Stopping regular grass measuring in the autumn build up period which leads to less days at grass



Grass Reports

Farmer Examples





1. Too much cover in Spring + too little in the Autumn!



Farm Cover 2019 vs 2020

Farm Cover 2019

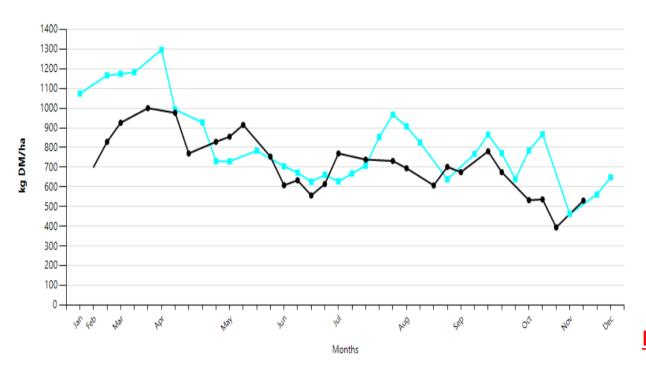
Farm Cover 2020

Cover per cow in 2020

Running at > 200 per LU until 1st June.

Take action!
Bale out paddocks in Spring

In August, extend rotation and build cover to suit your farm.



No of farm walks in August





August

2

12; 27

Autumn Grazing Targets

Date	Cover/Cow (Kg DM)	Average Farm Cover (Kg DM/Ha)	Rotation Length
STOCKING RATE	OF 2.5 LU/HA		
1 st August	180	450	20 Days
Mid - August	200	500	25 Days
1 st September	300	750	30 Days
Mid-September	400-450	1,000-1,100	35 Days
1st October	400	1,000	40 Days
1 st November	60% of your grazing	platform should be closed for	or Spring at this stage
Fully Housed		550-600	
STOCKING RAT	TE OF 3.0 LU/HA		
Mid - August	250	750	25 Days
1st September	330	990	30 Days
Mid-September	370	1100	35 Days
1st October	380	1150	40 Days
1 st November	60% of your grazing platform should be closed for Spring at this sta		
Fully Housed		600-650	
STOCKING RAT	TE OF 3.5 LU/HA		
Mid - August	220	770	25 Days
1 st September	280	980	30 Days
Mid-September	340	1200	35 Days
1 st October	335	1175	40 Days
1 st November	70% of your grazing	platform should be closed for	or Spring at this stage
Fully Housed		700-750	

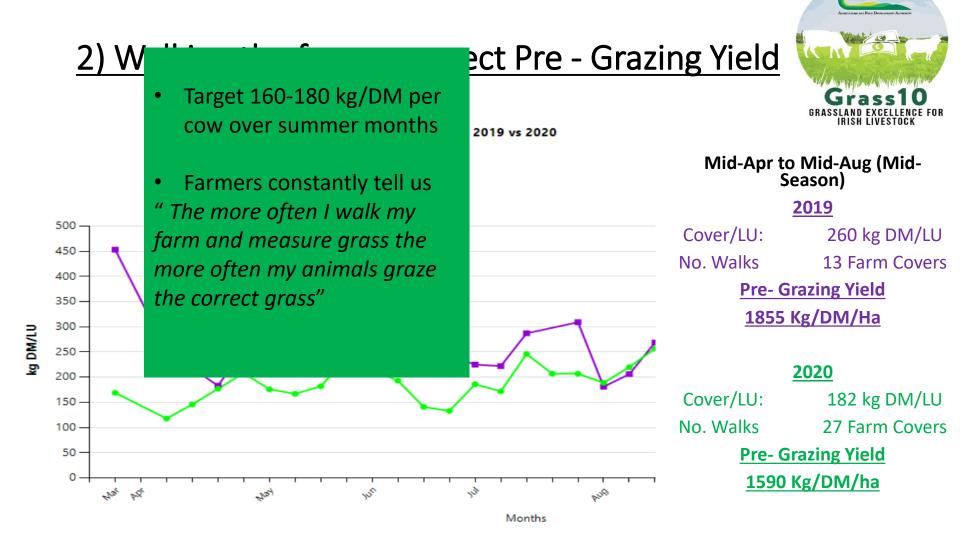


Targets available on the Grass10 page on Teagasc Website

Rotation length Key!





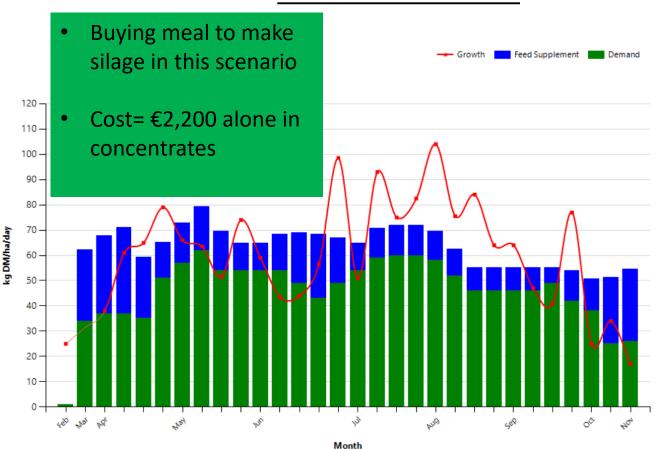






3) Matching Growth v Demand during the summer months





During July this Farmer did not act to reduce meal after drought period.

Stocking rate 4 LU/Ha

12 kg/ha meal (3kg/cow) left in diet.

During this period growth averaged **85 kg/day** whilst demand was only **60 kg/day**. If meal reduced to 1 kg then demand 68kg/day.

Over 30 days this equated to 8T extra meal fed. Plus making an additional 40 bales silage.





Correct Pre - Grazing Yield and days ahead on Beef, Sheep and Drystock Farms



Days Ahead 2019 vs 2020



Summer Walks 2019: 12

Days Ahead: 23 Pre Grazing Yield: 1662kg/DM/Ha (10-11 cm)

Demand: 35 kg per ha

Summer Walks 2020: 17

Days Ahead: 18
Pre Grazing Yield: 1506kg/DM/Ha (9- 10 cm)

Demand: 41 kg per ha

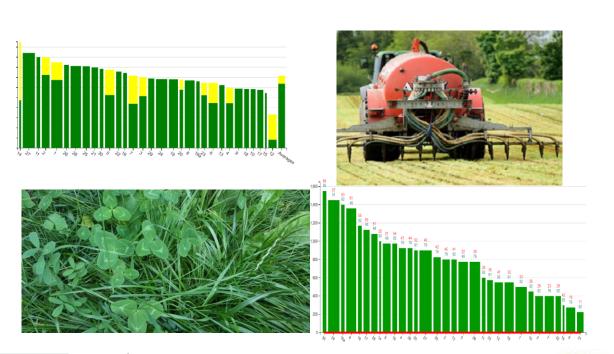


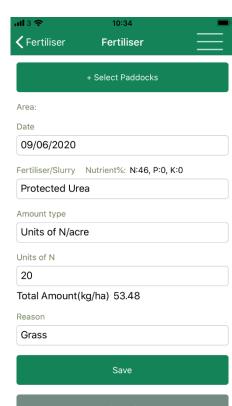


Improving Nutrient Use Efficiency using PastureBase Ireland



When and where? 13th January 2021 @ 7pm on Zoom









Grass10 Grazing Courses 2021



Why should you join a Grass10 Grazing Course in 2021?

- Develop your knowledge of grazing management to grow and utilise more grass
- Learn to measure grass and use PastureBase Ireland to make grazing decisions
- Encourage and support from advisors and farmers to help you to stay focused and make progress
- Help you to meet your derogation requirements through grass measuring

https://bit.ly/grass10grazingcourse

Visit the Grass10 page on Teagasc Public Website or the Grass10 Newsletter



PastureBase training with Advisors / Discussion groups

Grass10 and PastureBase Team are available to go through reports with Discussion groups and Advisors over Zoom in the month of January.

Email -: support@pbi.ie to register your interest!









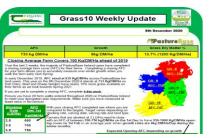


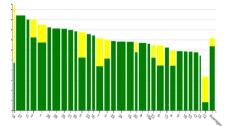
- Walk and measure your farm weekly on PastureBase Ireland. Aim for 30+ measurements in 2021. The more data you have, more improvements you can make
- Join a Grass10 Grazing Group for practical on farm help improving your grazing techniques in 2021
- Read our weekly Grass10 Newsletter for tips and updates throughout the year
- Look through your own reports and identify areas for improvement on your farm in 2021 to help you to achieve grazing excellence.











Thank you for your attention!



Bia agus Mara

Department of Agriculture,

Food and the Marine



eagasc

AGRICULTURE AND FOCO DEVELOPMENT AUTHORITY









