

Journées de Printemps 2021

Fourrages et prairies 2.0

La prévision de la croissance
d'herbe en Irlande

Une information attendue,
de l'éleveur au gouvernement



E. Ruelle, L. Delaby & M. O'Donovan

INRAE

Teagasc
AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY

La prévision de la croissance d'herbe en Irlande
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L'Irlande: le pays vert



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80% de la SAU de l'Irlande est en herbe

Croissance moyenne de l'herbe : 9.8 t MS/ha

- Valorisation moyenne : 7.8 t MS/ha

Apport de concentré : environ 1 t /vache



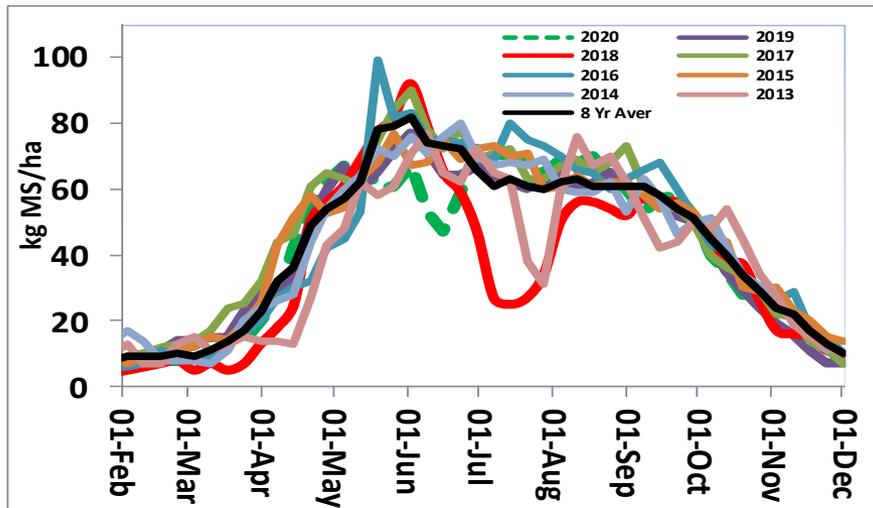
L'Irlande: le pays vert

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PastureBase
IRELAND

Toujours plus d'herbe

Grass 10 : Des objectifs ambitieux

10 t MS/ha/an utilisées (croissance 13 t MS/ha)

10 passage par an et par parcelle



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augmente le profit de

€105/ha en élevage bovins viande

€181/ha en élevage laitier



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- PBI farms

entre 11,0 à to 16,7 t MS/ha

PastureBase
IRELAND



Au sommaire...

Présentation du modèle MoSt GG

Présentation des simulations ferme spécifique

Evaluation des premières années

Evolution de la dissémination



Le modèle Moorepark St Gilles Grass Growth

Une collaboration entre TEAGASC et INRA(e)

Basé sur le modèle de M. Jouven

Ajout d'un sous modèle sol et azote

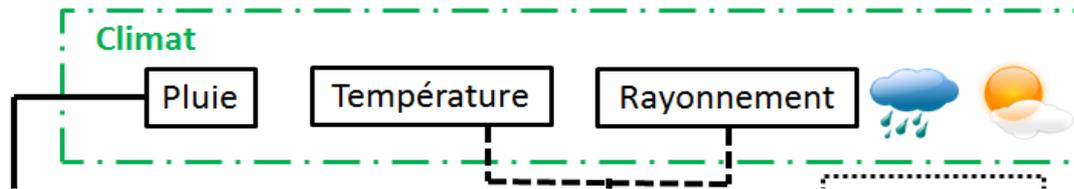
Prise en compte du pâturage

Plusieurs objectifs

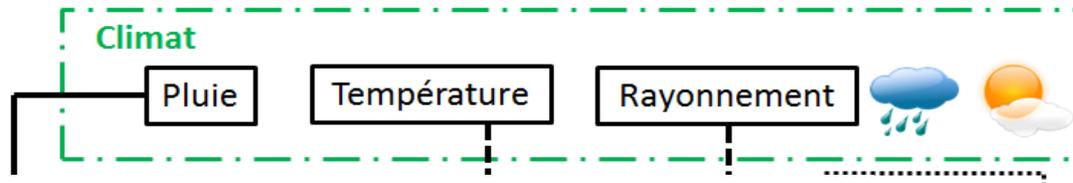
Développer un modèle utile pour la recherche et également pour l'éleveur



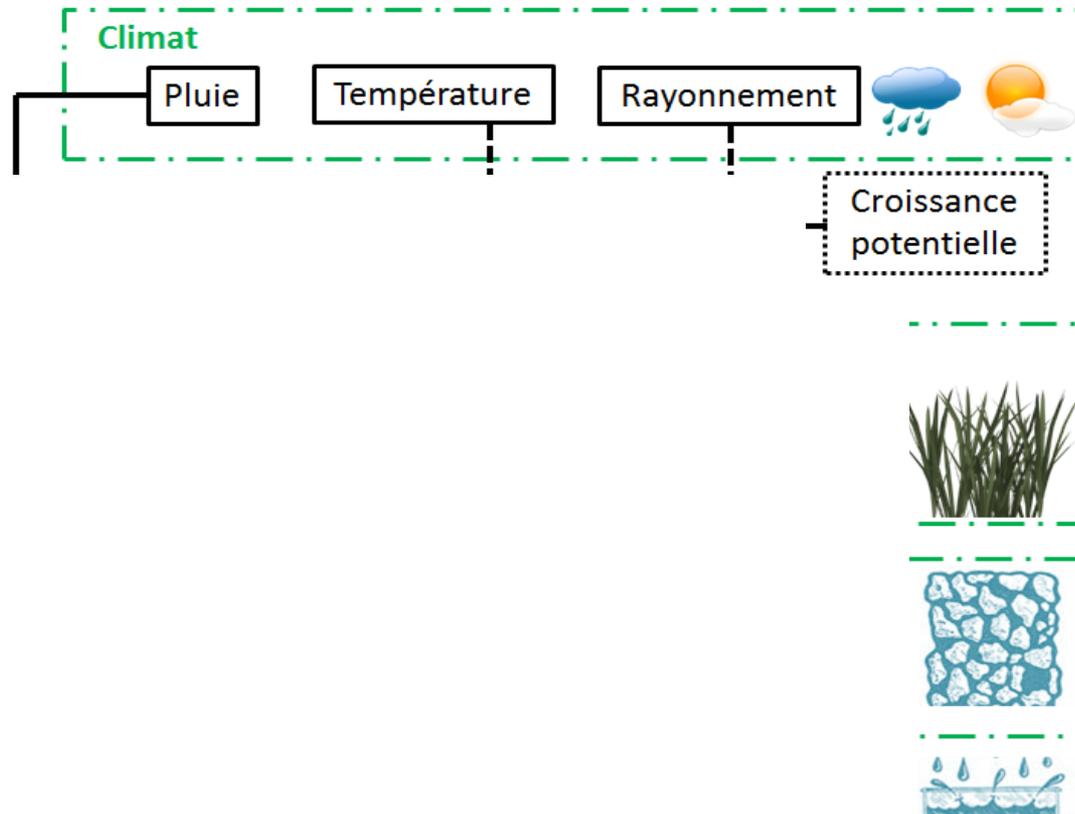
MoSt GG présentation



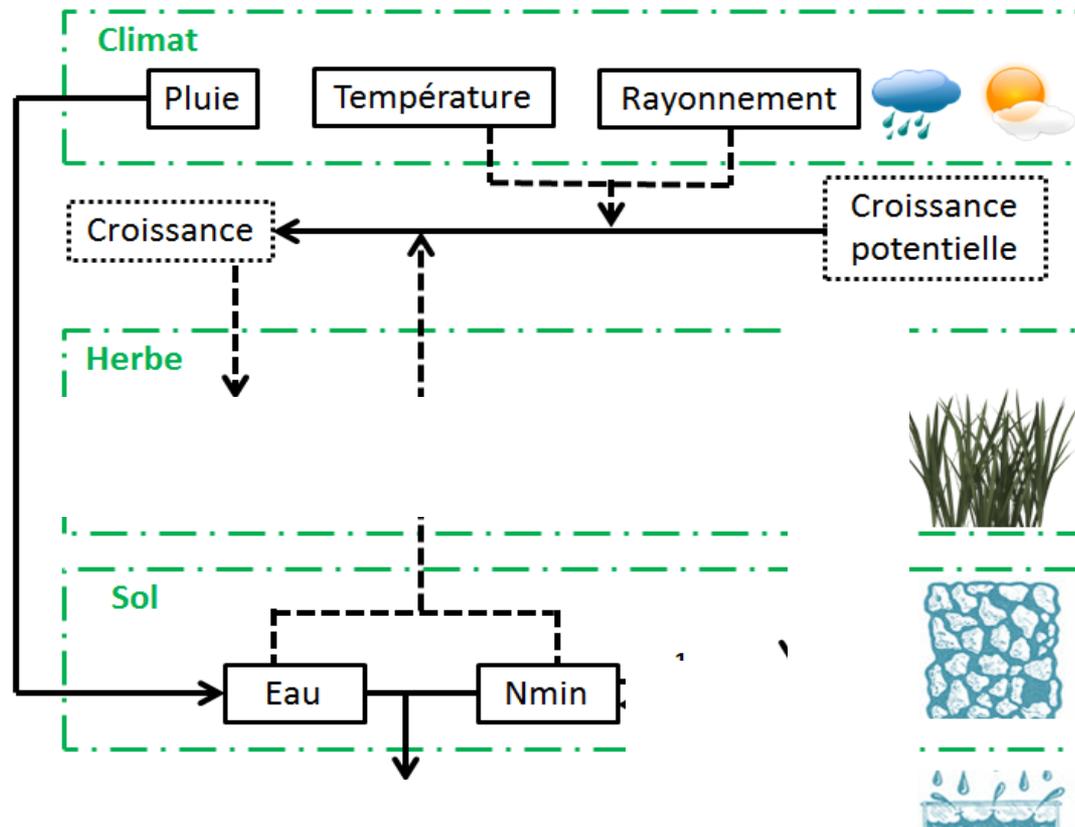
MoSt GG présentation



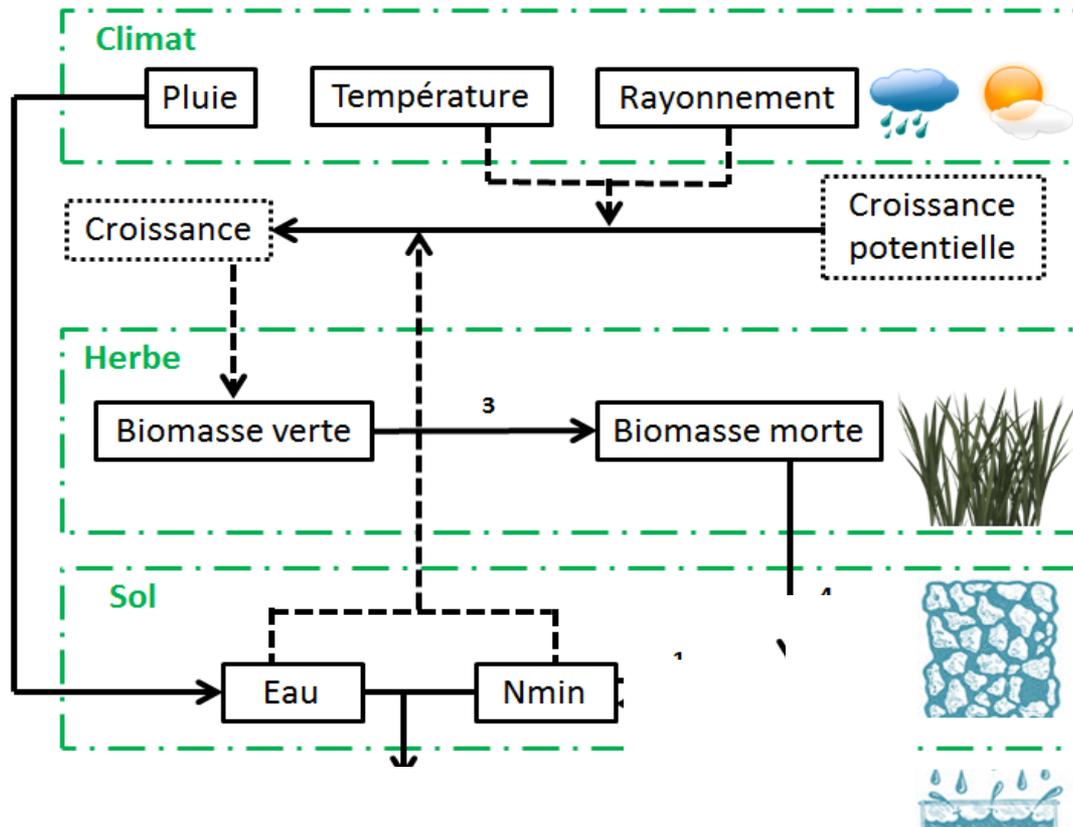
MoSt GG présentation



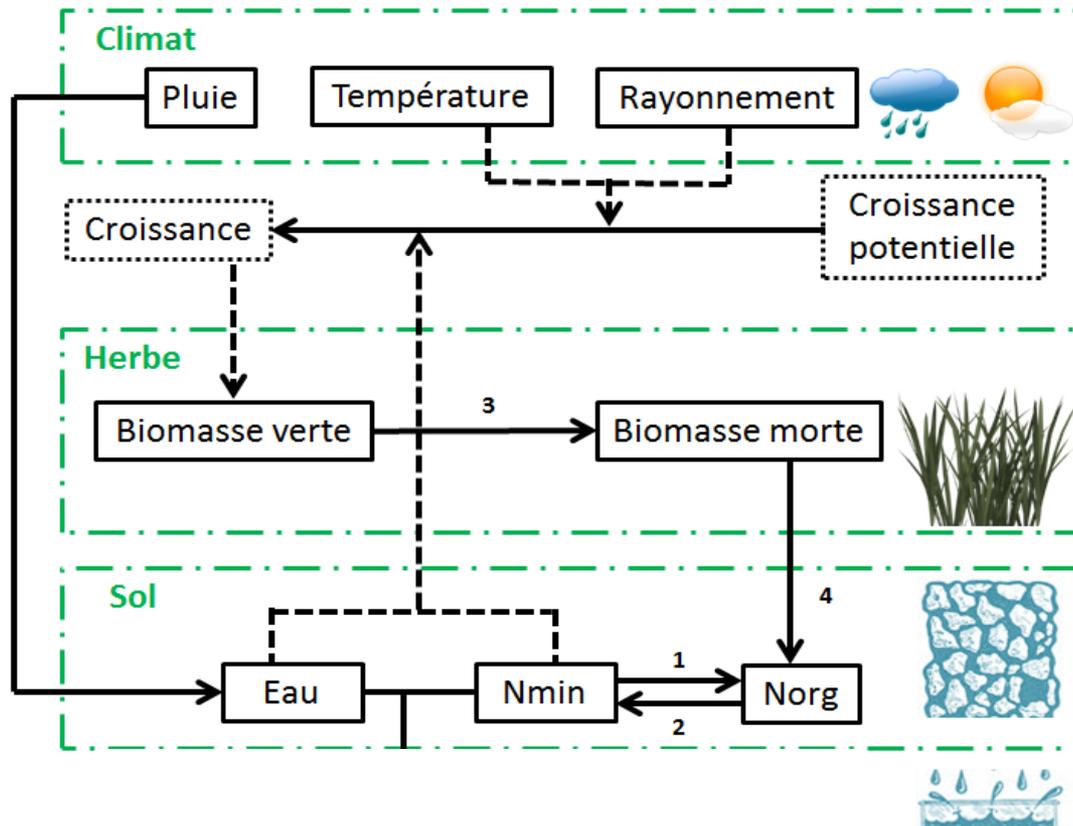
MoSt GG présentation



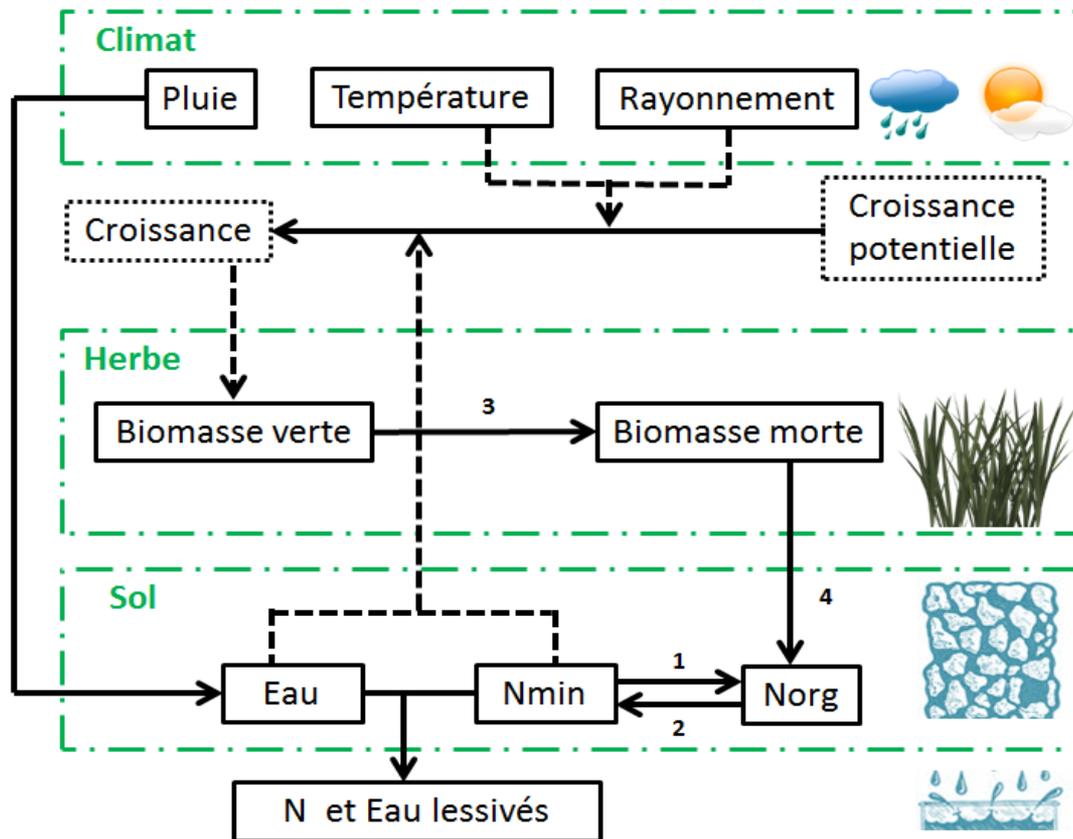
MoSt GG présentation



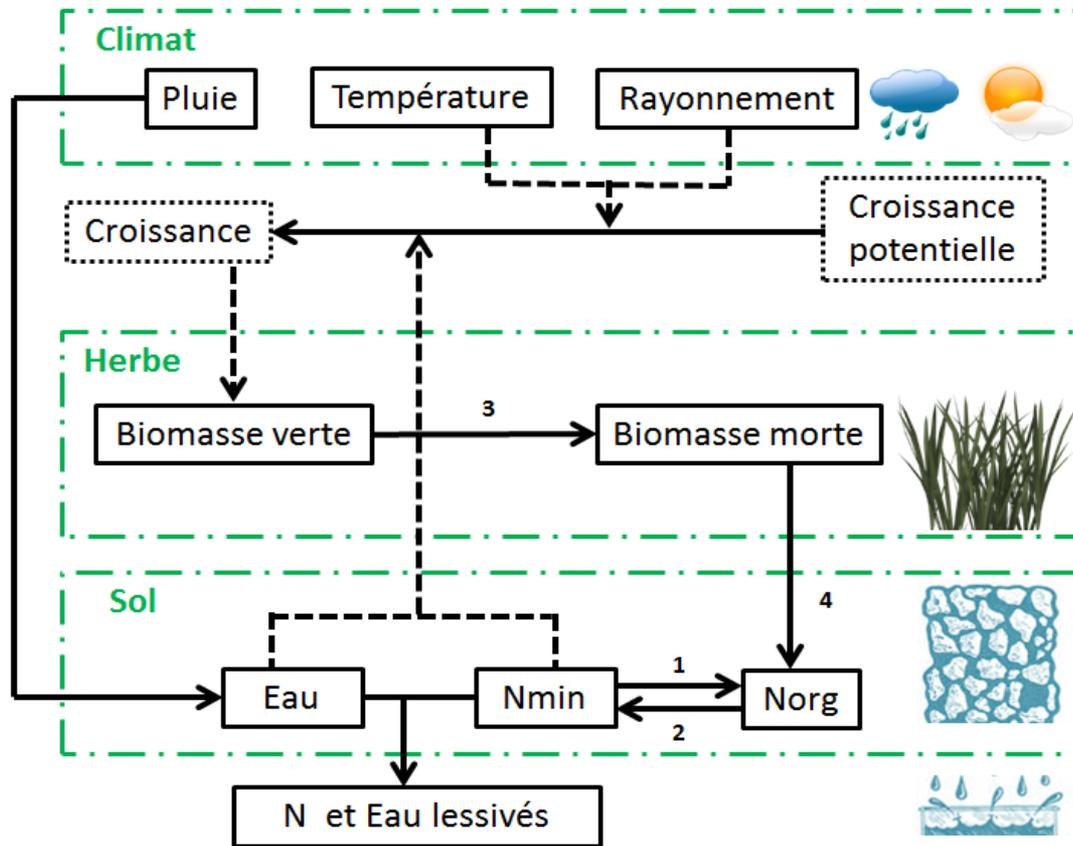
MoSt GG présentation



MoSt GG présentation



MoSt GG présentation



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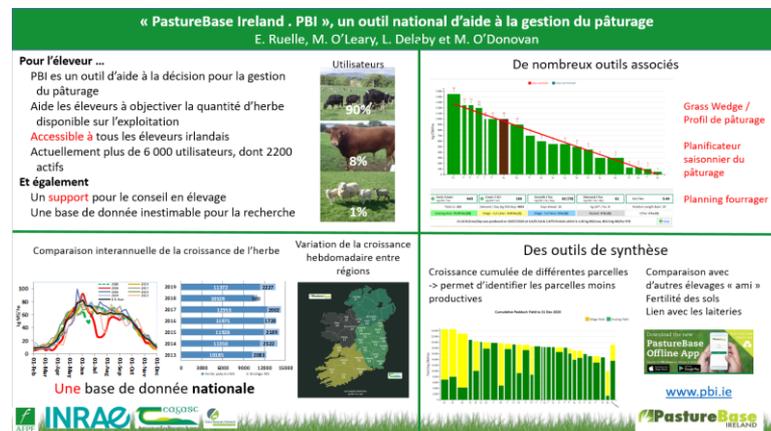
MoSt: Application aux fermes irlandaises

Presque toutes les informations nécessaires sont déjà
dans PastureBase Ireland

The logo for PastureBase Ireland features a stylized green leaf icon on the left, followed by the word "PastureBase" in a bold, dark green font, and "IRELAND" in a smaller, all-caps, dark green font below it.

PastureBase Ireland: Un poster disponible !

- 6 000 utilisateurs, 2 200 très actifs
- A l'écoute des éleveurs et en constante évolution
- Principaux outils:
 - « Grass wedge »
 - Planificateur de pâturage
 - Planning fourrager
- Lien avec l'industrie
- Base de donnée pour la recherche



MoSt: Application aux fermes irlandaises

- Presque toutes les informations nécessaires sont sur PastureBase Ireland
 - Surface des parcelles
 - Date de fauche et de pâturage
 - Biomasse des parcelles
 - Application de fertilisation



MoSt: Application aux fermes irlandaises

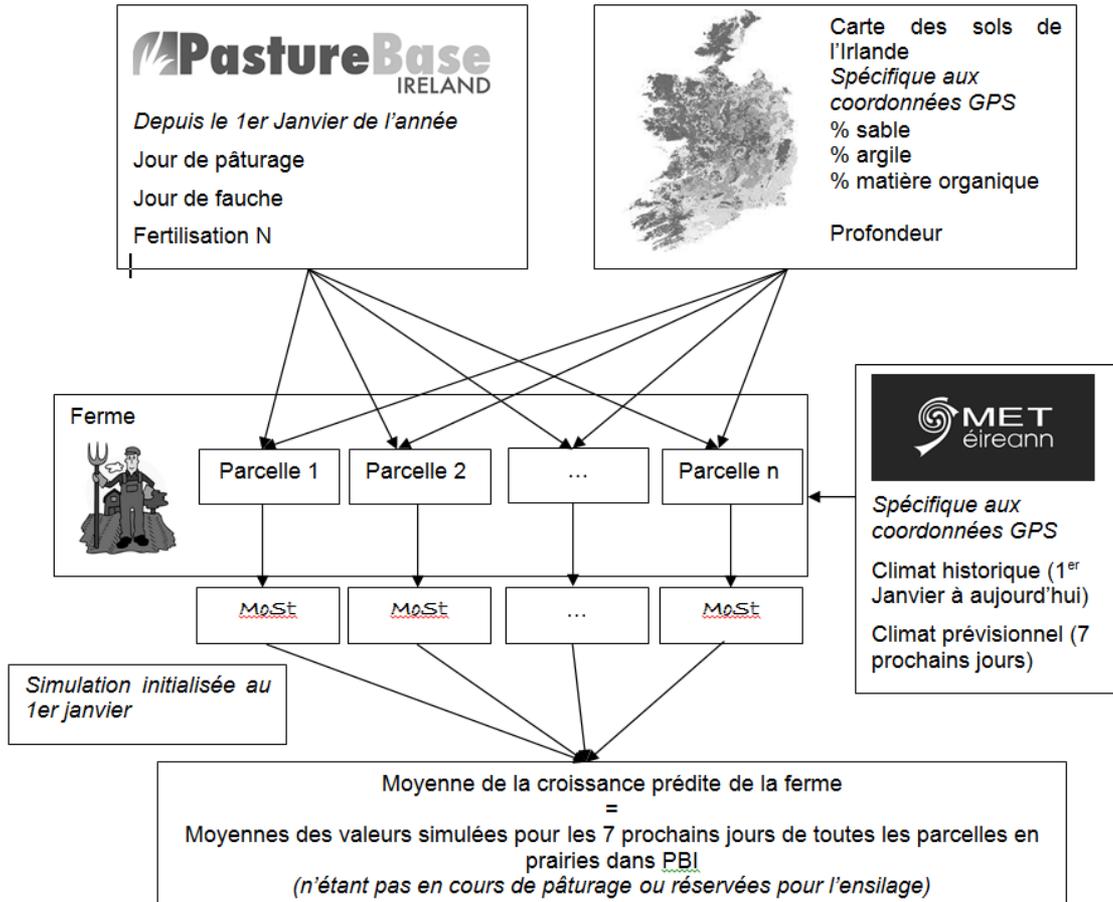
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 - Surface des parcelles
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 - Biomasse des parcelles
 - Application de fertilisation
- Climat historique et futur spécifique à CHAQUE ferme fourni par Met Eireann



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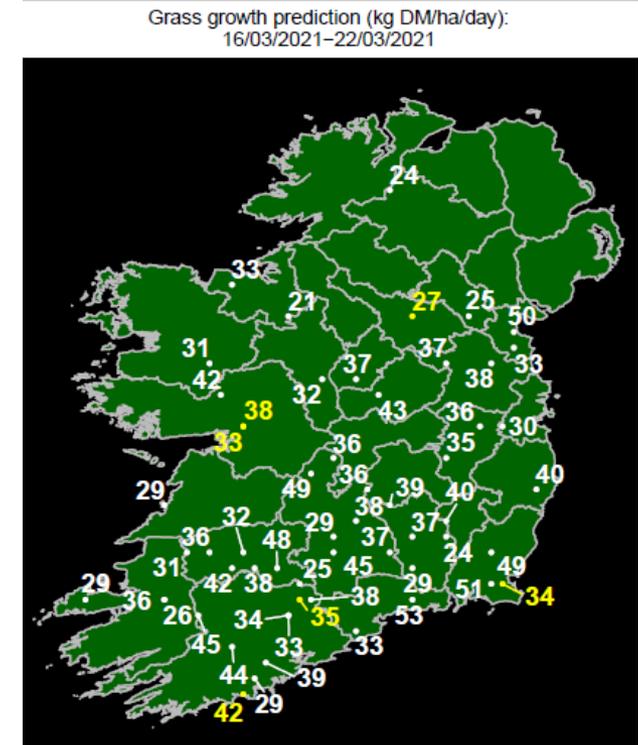
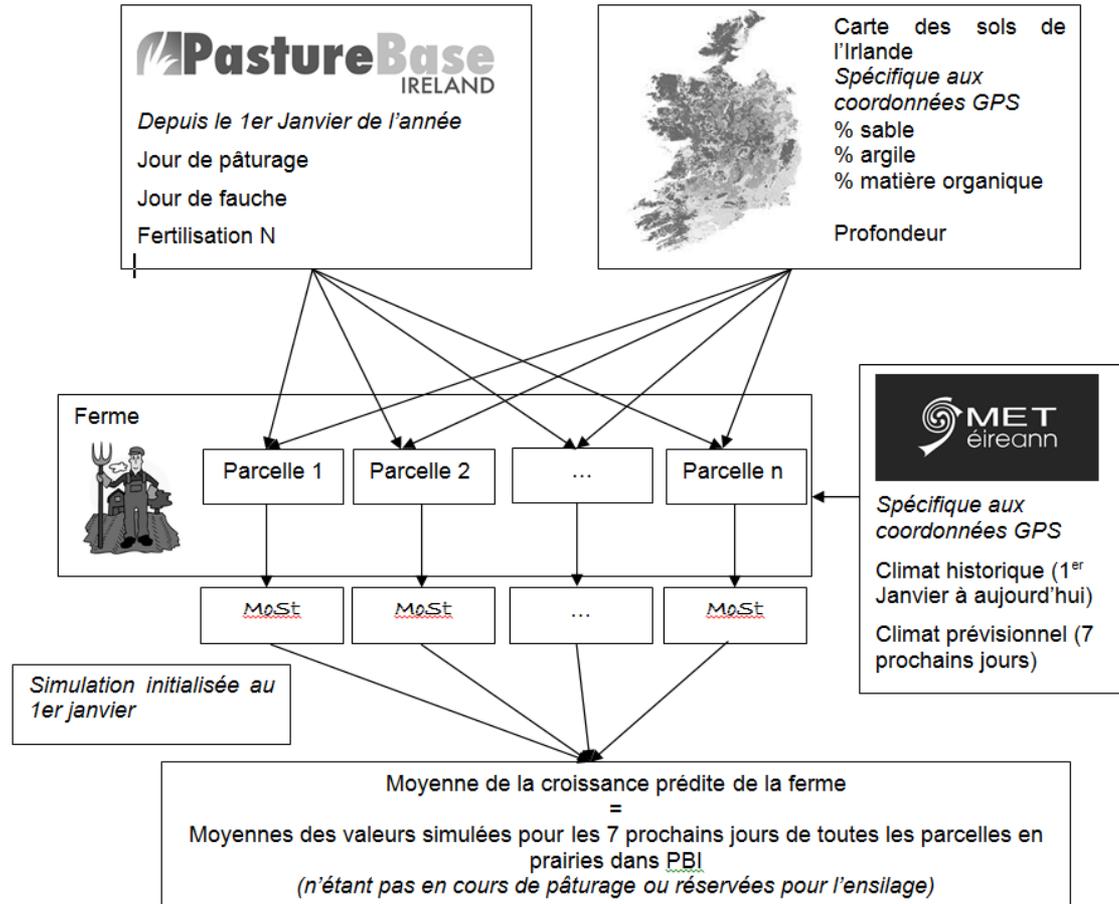
Structure



La prévision de la croissance d'herbe en Irlande

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Structure



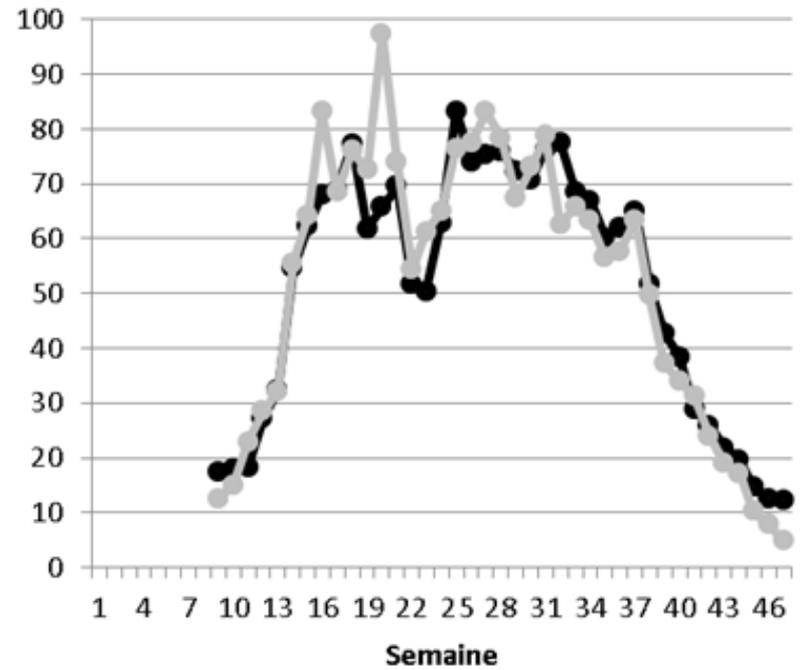
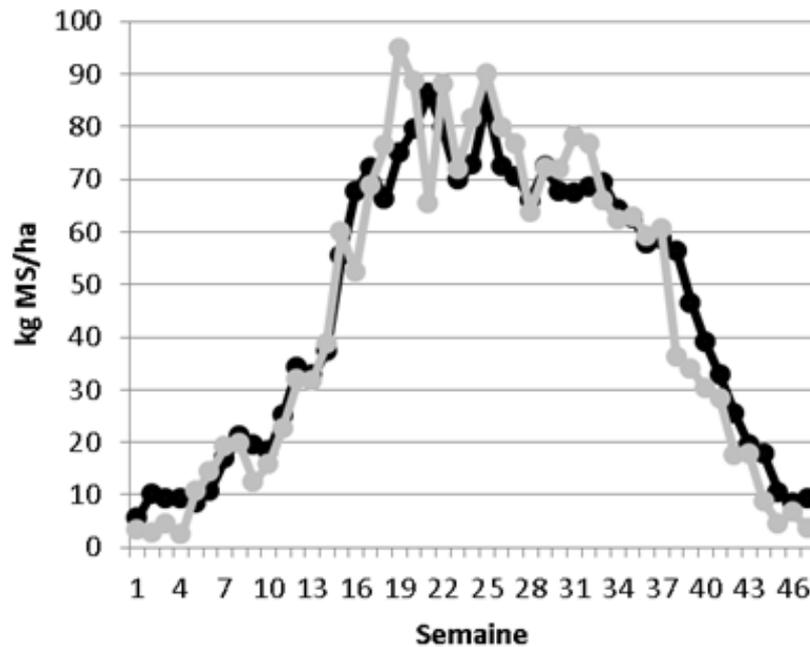
Evaluation: Moyenne de toutes les fermes

MoSt

PBI

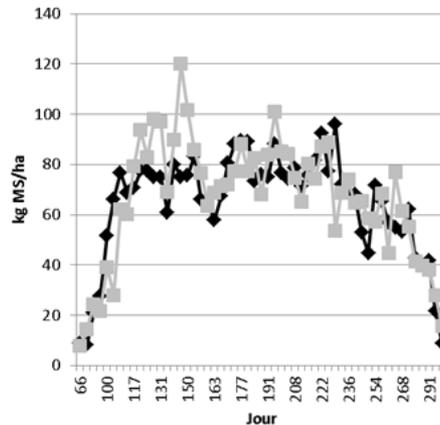
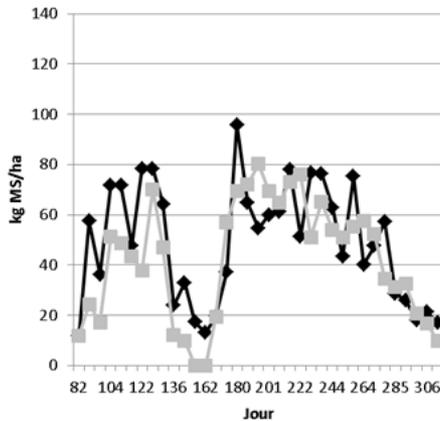
2019

2020



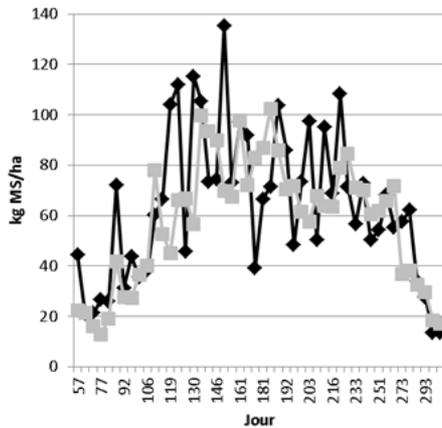
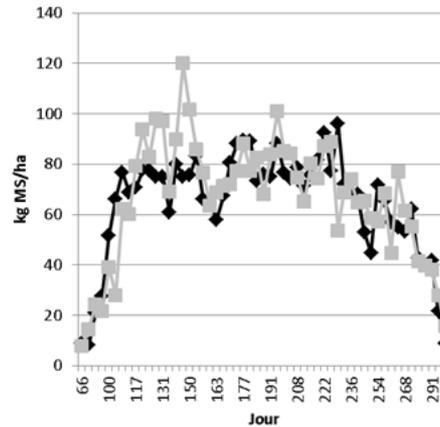
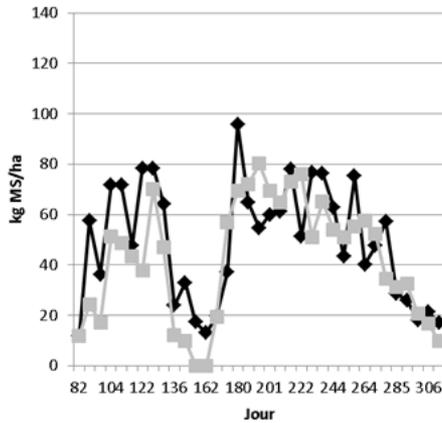
Evaluation: Fermes spécifiques

MoSt
PBI



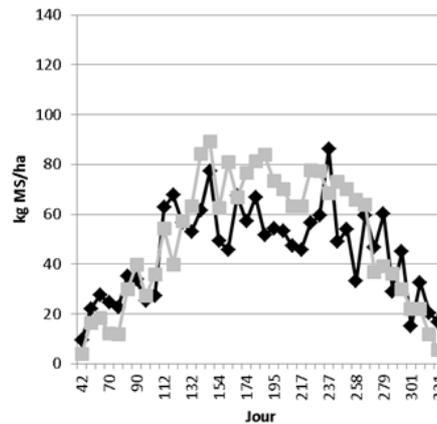
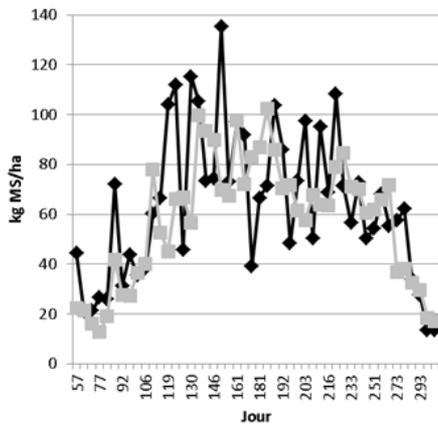
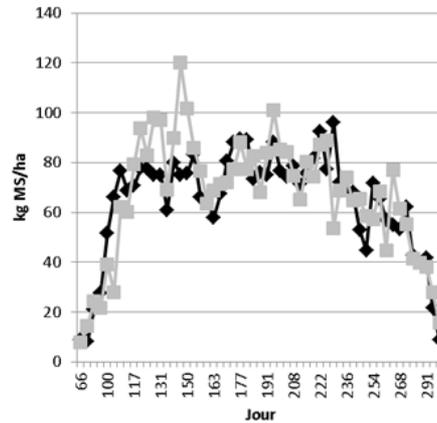
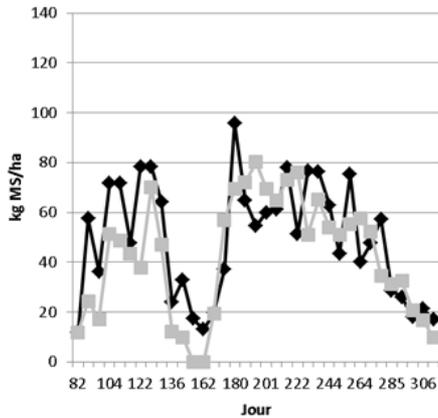
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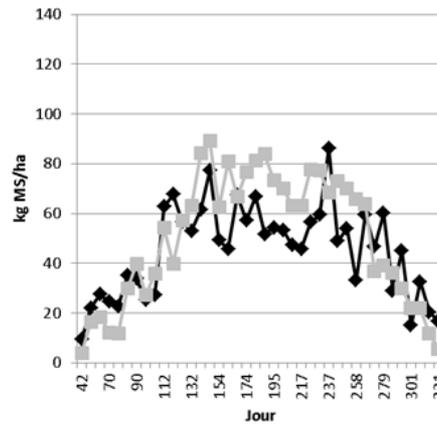
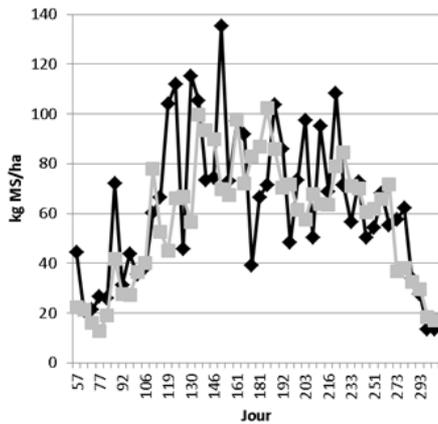
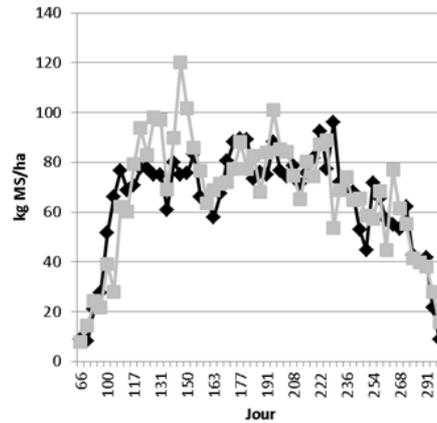
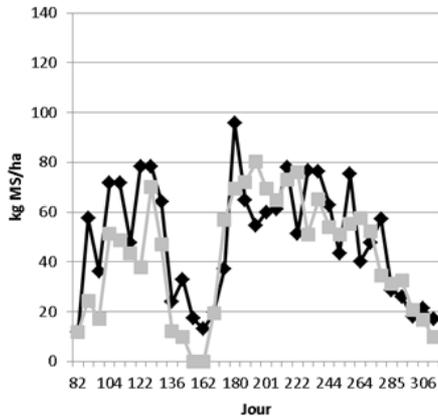
Evaluation: Fermes spécifiques

MoSt
PBI



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PBI



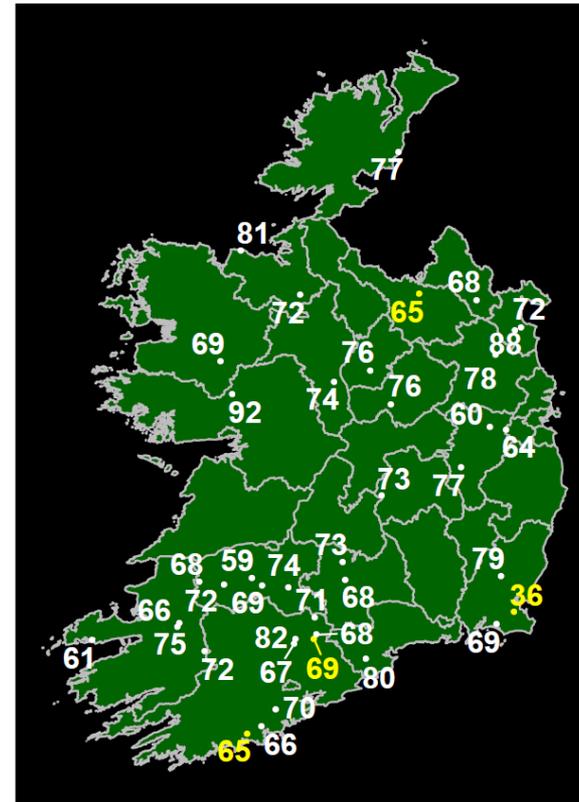
Evolution du nombre d'élevages

- 2018
 - Démarrage sur 3 fermes
 - Fermes avec stations météo

Evolution du nombre d'élevages

- 2018
 - Démarrage sur 3 fermes
- 2019
 - 30-45 fermes
 - Fermes entrant toutes les données nécessaires dans PBI

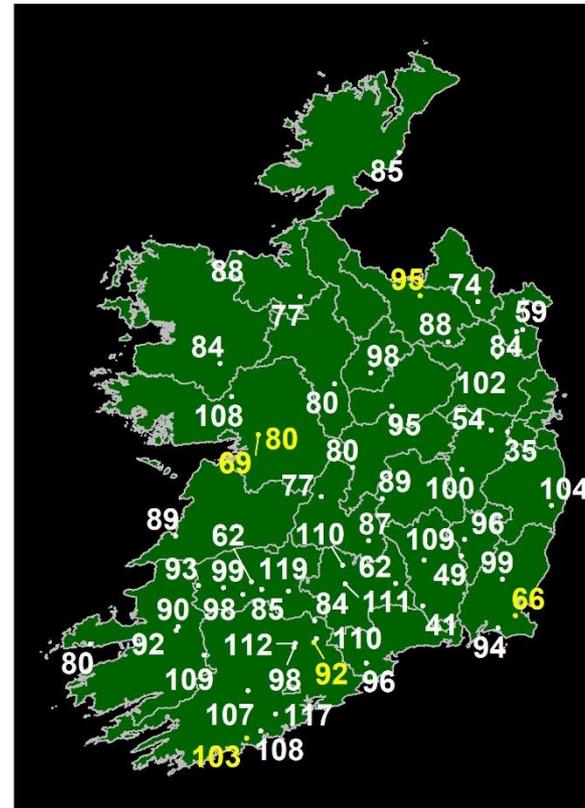
Prediction:
29/07/2019-04/08/2019



Evolution du nombre d'élevages

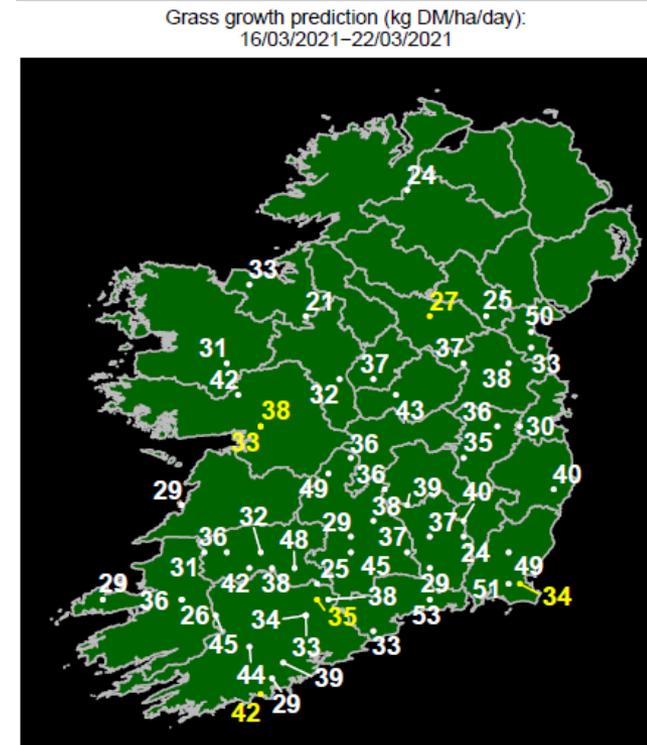
- 2018
 - Démarrage sur 3 fermes
- 2019
 - 45 fermes
- 2020
 - 55 fermes

Prediction:
18/05/2020-24/05/2020



Evolution du nombre d'élevages

- 2018
 - Démarrage sur 3 fermes
- 2019
 - 45 fermes
- 2020
 - 55 fermes
- Actuellement
 - 58 fermes



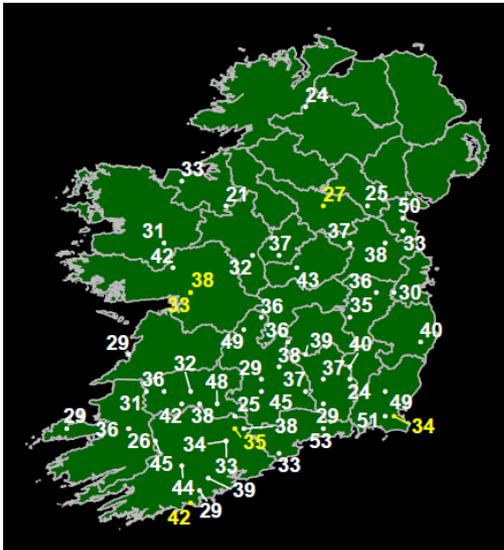
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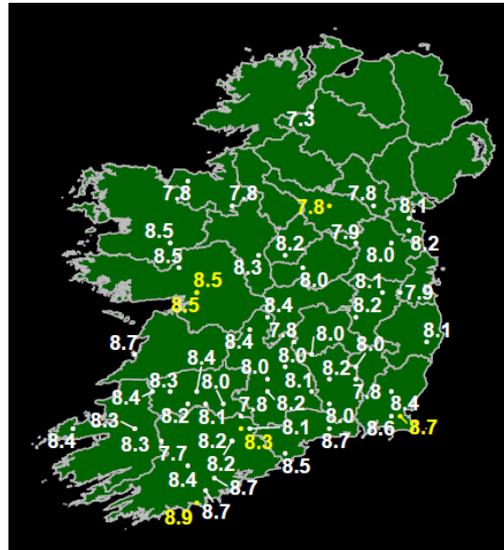
Diffusion

- Mail et whatsapp
 - Eleveur, conseiller de ferme et gouvernement

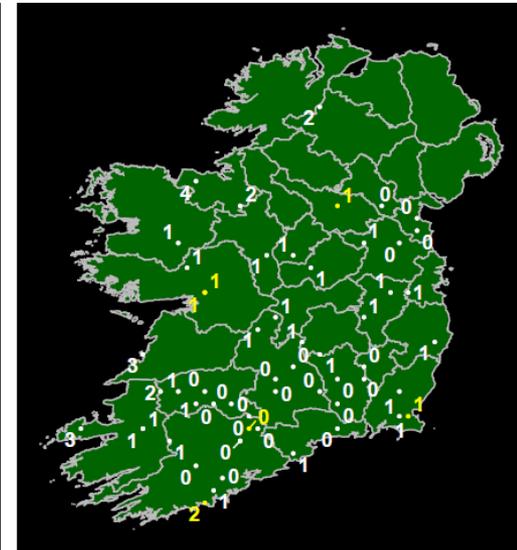
Grass growth prediction (kg DM/ha/day):
16/03/2021–22/03/2021



soil T(C):
16/03/2021–22/03/2021



rainfall(mm):
16/03/2021–22/03/2021



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- Grass 10 (début 2020 puis Août 2020 pour les cartes)



Grass10 Weekly Update

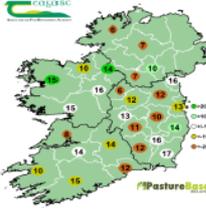


16th March 2021



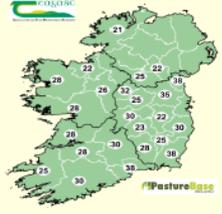
AFC	Growth	Diet
801 Kg DM/Ha	14 Kg DM/Ha	10 Kg grass, 4 Kg meal, 2 Kg silage

Grass growth measurement
Today's grass growth (kg DM/ha/day)



On the left: counties map showing current grass growth rates over the last week.

Grass growth predictions
Next week (kg DM/ha/day)



On the right: counties map showing predicted grass growth over the next 7 days from farms involved in Elodie Ruelle's MoSt grass growth model (55 farms).

Predicted Growth Rate:
 Ballyhaise 21 kg DM/ha
 South Wexford 35 kg DM/ha
 Athenry 21 kg DM/ha
 Clonakilty 38 kg DM/ha

Keeping on the Right Side of the Wire with Tomás O'Brien

The dry settled conditions in early March resulted in a lot of area grazed on Irish farms. Grazing in the dry conditions was the correct decision, however farmers must react if Average Farm Cover (AFC) has dropped on farm and make a plan from now until the start of the 2nd rotation.

Tomás O'Brien, Mitchelstown has a high demand for grass with a 60% six-week calving rate plus 3.24 LU/ha stocking rate on milking platform. With 55% grazed and current AFC 700 Kg DM/ha, Tomás knows he must ACT NOW to avoid running out of grass (AFC < 550 Kg DM/ha) before the start of the 2nd rotation. Here is Tomás' plan:

1. Reduce the amount of grass being fed (supplement with silage & meal)
2. Hold the AFC for the next 10 days (match demand to growth)
3. Walk the farm weekly from now on using PastureBase Ireland
4. Ensure adequate level fertiliser/slurry applied
5. Monitor regrowth on earliest grazed paddocks
6. Adjust the start of the 2nd rotation if necessary
7. Stretch out area left to graze until the 2nd rotation (20 days until 5th April)
8. Complete & update a PastureBase grass budget

Watch Tomás' video where he explains his plan here: <http://bit.ly/TomásG10>

Have you 25-35% grazed or are you farming on Heavy soils?

1. With good weather forecast, farmers should aim to graze as much as possible over the next week (except for farms below target Average Farm Cover)
2. Aim to graze medium covers (1000-1300 Kg DM/ha) to increase area grazed
3. Apply fertiliser to grazed paddocks as intervals will be shorter until 2nd rotation
4. Aim to start 2nd rotation on 15th April

Hitting Grazing Targets in 2021 with PastureBase Ireland
Wednesday, 7th April | 7pm

Join the Grass10 & PastureBase team on the night and hear:

- Update on Spring grass supply & grazing from PastureBase Ireland
- Tips & advice on managing the 2nd rotation during April
- Helping you to understand terms on PastureBase Ireland such as Average Farm Cover, Cover per Livestock Unit, Demand and Days Allowed as you can make better grazing decisions
- Setting your farm up with quality grass as we transition from low to high growth rates

Sponsored by the Department of Agriculture, Food and the Marine, Co. Wick, Co. Kerry, Co. Cork & Donegal, Peter McCourry, Co. Monaghan, Prof. Alison Agri, specialist practitioners on their farms and how PastureBase Ireland helps them deliver results.

Or visit www.teagasc.ie/grass10

Grass Dry Matter %

Moorepark, Co. Cork
15.8% (1800kg DM/ha)

Athenry, Co. Galway
16.5% (1250 Kg DM/ha)

JP2021: Prairies et Fourrages 2.0

Diffusion

- Mail et Whatsapp
 - Eleveur, conseiller en ferme et
- Grass 10 (début 2020 puis Ac pour les cartes)
- Farmer journal (2021)

GRASS IRISH FARMERS JOURNAL Saturday 13 March 2021

Grass+ Declan Marren and John Crowe

What do we do about our targets now?

It has been a super start to March and a great chance for cows and cattle alike to get out to grass. For those who are on target it's important to keep measuring regrowth as this will determine when the second round will start and adjust your targets accordingly.

You want to be starting your second round when the first paddocks grazed are at a cover of 5,000kgDM/ha. Things can change rapidly at this time of year so a weekly grass walk will ensure grass availability going into the second round. The average farm cover must not drop below 500kgDM/ha.

After a challenging February many have fallen behind the targets of 30% grazed by 3 March, 60% by 17 March and 100% by 1 April (add 10 to 14 days on wetter/colder ground).

If you have only started grazing in the last week the temptation is to try and catch up on spring grazing targets. Instead of catching up, adjust the target by pushing out the second round by 10 to 14 days to the second week of April.

If you try catch up and go through ground too fast you could run into a shortage of grass.

A spring rotation planner will give you a target area to graze each day from now until you plan to start the second round. A feed budget will determine if supplementation is required to get you to the start of the second round without dropping the average farm cover too low.

Both of these are available on PastureBase Ireland. With a deterioration in weather conditions forecasted this weekend on/off grazing should be reintroduced. Restrict silage beds letting cows out to grass to ensure they have an appetite and return to the shed after three hours.

Grass growth measurement (kg DM/ha/day)

Predicted grass growth (kg DM/ha/day)

*** Swardwatch**

- Apply 25-46 units of nitrogen per acre if no fertiliser has been applied to date.
- If you are behind target don't try to catch up just push out the date you plan to start your second round.
- Once you have 30% grazed do a grass walk and set up a spring rotation planner to ensure you divide out the remaining 70% of ground.
- A grass budget will determine grass availability and whether supplementation is required or not in order to speed up or slow down the first rotation.

10-year average grass growth (kg DM/ha/day)

Source: PastureBase Ireland

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- Farmer journal (2021)
- Met Eireann...
 - Television aout 2020
 - Twitter 2021

Met Éireann @MetEireann · 12 mars
Its Friday's current grass growth measurement & prediction for Ireland: Current measured on farm, grass growth rates are between 8 and 16 kg of dry matter per hectare (kg DM/ha/ha) across the country.

3 6 32

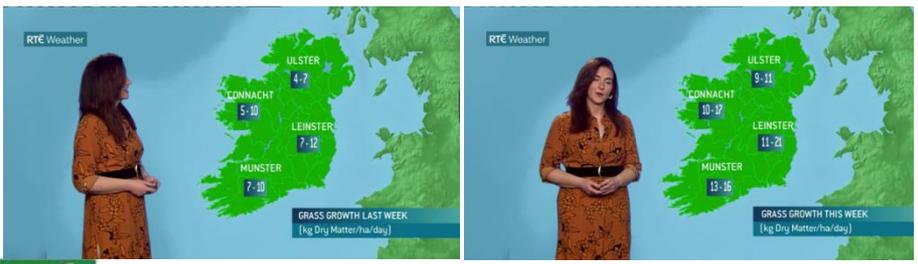
Met Éireann @MetEireann · 12 mars
Predicted Grass Growth 🇮🇪
Grass growth for the coming week is predicted to range between 24 and 35 kg DM/ha. Growth will be lower in the West and greater in the East. Grazing conditions should improve for the coming week.

1 8

Met Éireann @MetEireann · 12 mars
The measurement legend = the comparison of the data with the 8 last years e.g. >20% colour means the value is at least 20% higher than previous years.

Thanks to @TeagascGrass10 & @PastureBase for this data & advice. Further discussion on Sundays @WeatherRTE Farming Forecast 📺

7



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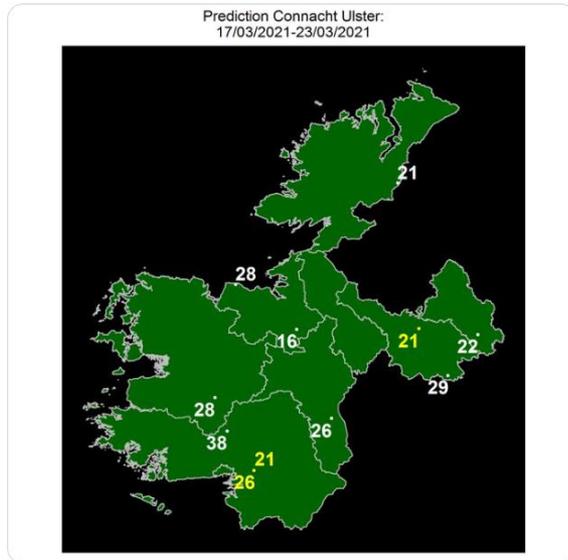
Diffusion

- Mail
- C
- Gras pour
- Farm
- Met
- Te
- Tv
- Twit

@TeagascMayo
@teagascmayo

Grass growth starting to move in the right direction and hopefully the weather may have turned the corner as well. [@LodPetiteRue](#) [@WeatherRTE](#) [@TeagascGrass10](#)

Traduire le Tweet



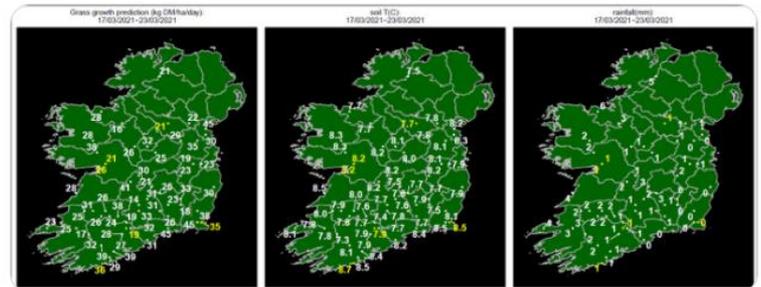
12:50 PM · 16 mars 2021 · Twitter Web App

Personnes
t 2020

TeagascGrass10
@TeagascGrass10

Data from [@MetEireann](#) and [@LodPetiteRue](#) for the week ahead. Soil temps on the rise along with grass growth! And the rain has disappeared! [@PastureBase](#)

Traduire le Tweet



2:50 PM · 16 mars 2021 · Twitter Web App

1 J' [\[Profile\]](#) 20h

Hope she is right 🙏🙏🙏



2 2 68

Conclusion

L'herbe est l'avantage économique de l'Irlande

Le modèle MoSt est un modèle relativement simple d'utilisation avec de faibles besoins de données supplémentaires

Un contexte climatique défavorable a déclenché une demande autour de la prédiction de croissance d'herbe

Un mauvais printemps et un été sec en 2018 ont propulsé le modèle MoSt du placard à la télévision nationale Irlandaise

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Des questions ?



Dairy Research Ireland
funded by Irish Dairy Farmers