



# The Action Programme of the Nitrates Directive in Belgium-Wallonia : Advisory role of NITRAWAL and controls at farm level

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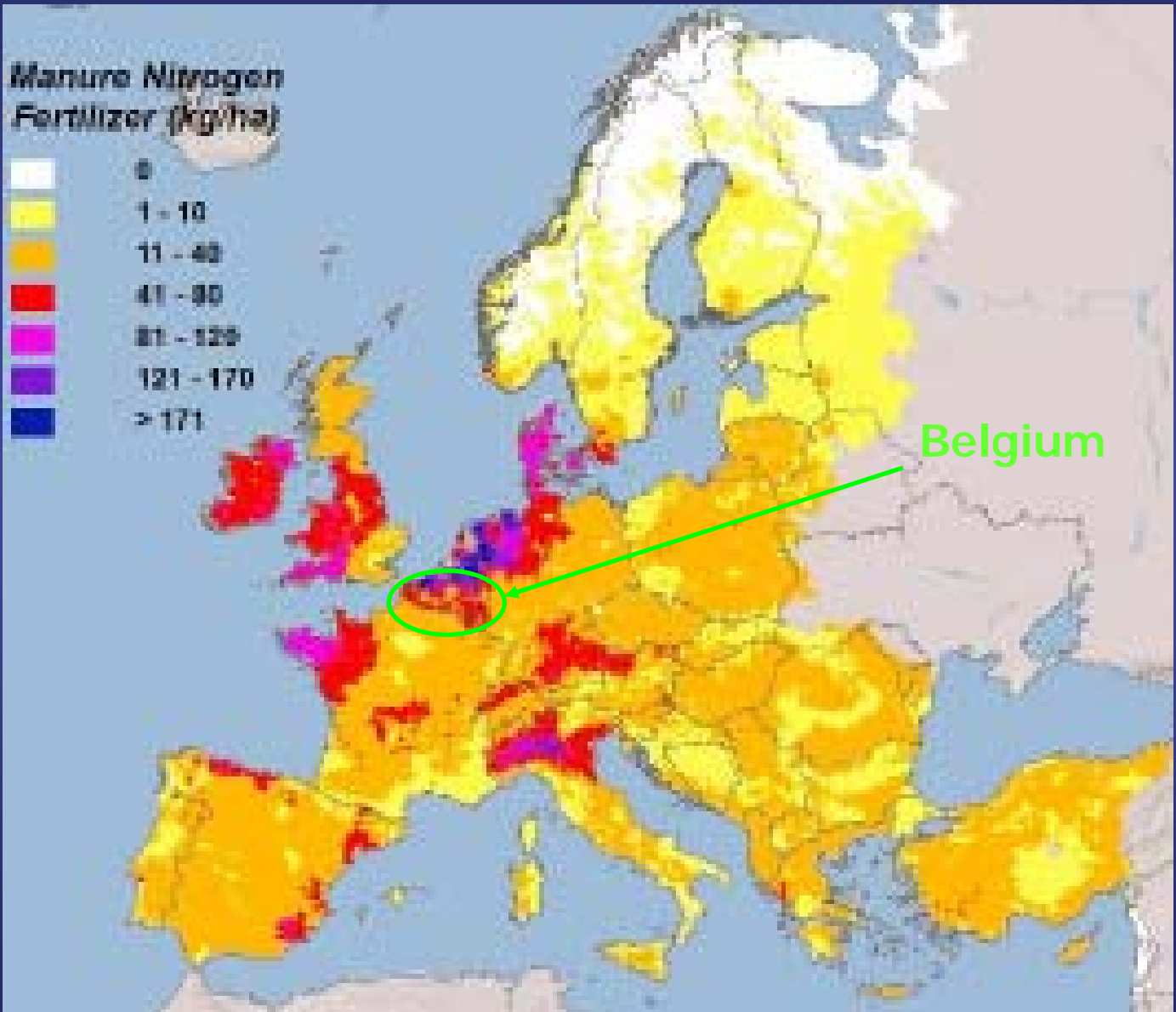
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# Plan

- 🐝 Context
- 🐝 What is Nitrawal ?
- 🐝 The 2<sup>nd</sup> action programme in Wallonia
- 🐝 Control at farm level
  - Soil binding rate (SB)
  - Potentially Leachable Nitrogen (PLN)



# Context : Manure Nitrogen fertilizer pressure (kg N/ha)



# What is Nitrawal ?



Walloon Environment and Agriculture Ministers



Walloon Environment and Agriculture Administration (DGARNE)



Farmers association



Public financement 100%



Water association

Scientists

25

# Nitrawal : goal and missions

🐝 GOAL : concerted actions to tackle water pollution caused by nitrates from agricultural sources

🐝 MISSIONS :

- advise the farmers
- communication campaigns
- scientific validation of the programme



# The 2<sup>nd</sup> action programme in Wallonia

## A - Measures applicable throughout Wallonia

- 1. Spreading periods and conditions
- 2. Manure storage
- 3. Soil Binding rate (SB)



## B - Measures applicable in NVZ\* only

\*Nitrogen Vulnerable Zone = 54 % of the agricultural area in Wallonia

- 1. Soil cover
- 2. Potentially Leachable Nitrogen (PLN)





# The 2<sup>nd</sup> action programme in Wallonia

## A - Measures applicable throughout Wallonia

### 3. Soil Binding rate (SB)



FWA  
AquaWal  
NitraWal  
UCL Université catholique de Louvain  
ULg Université de Liège gembloux agro bio tech



kg org N produced

SB =



kg org N spreadable

1

# Soil Binding rate (SB)

100 % farms controlled : database (PAC + Sanitel) + software (Talisol)

Year	% farms with SB over 1
2003	18 %
2004	13 %
2005	12 %
2006	11 %
2007	5 %
2008	4 %
2009	5%
2010	4 %





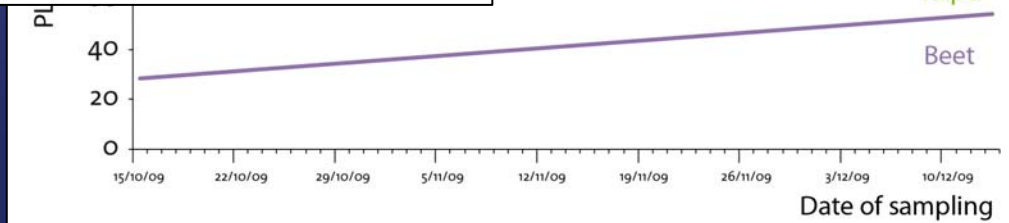
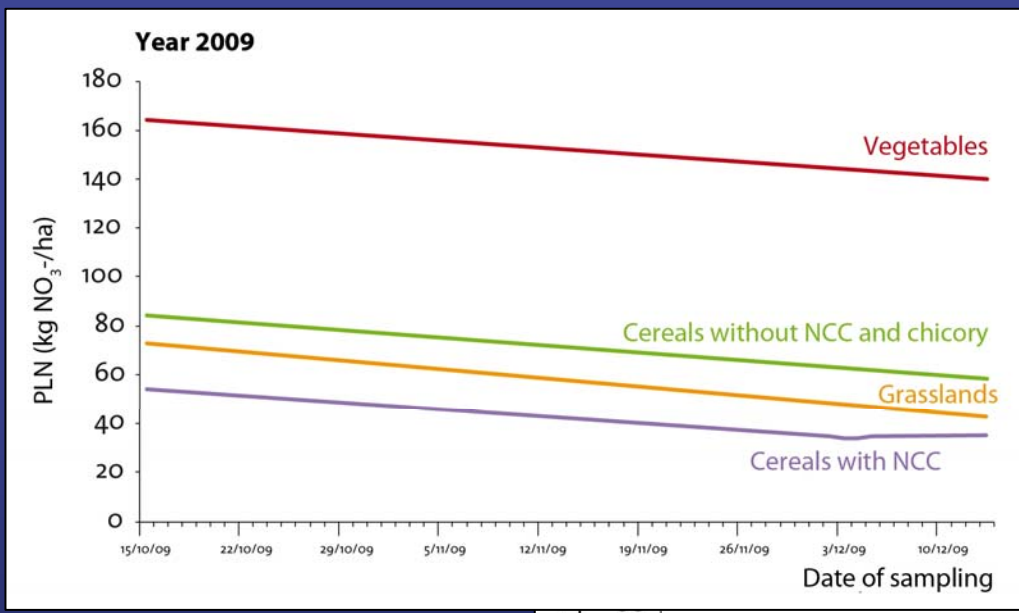
# The 2<sup>nd</sup> action programme in Wallonia

## B - Measures applicable in NVZ only

- 1. Soil cover
- 2. Potentially Leachable Nitrogen (PLN)



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35 reference farms  
8 crops

# Conclusion

- 🐝 SB = systematically controlled
- 🐝 PLN = control on the result (>< mean)  
= pedagogic
- 🐝 Free advice + Heavy communication campaigns
- 🐝 Stakeholders involved





Thank you  
for your attention