

#### Building sustainable agriculture and an attractive countryside



# Climate change: opportunity or difficulty for farmers?

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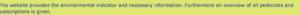
#### **CLM Research and Advice**

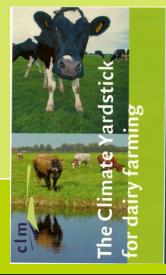
- Independent consultancy
- Broad range of expertise
- Policy advice and evaluation, research, process facilitation, communication
- Practical instruments











The climate is changing. Your business too?

- Workshops with arable farmers and dairy farmers in different parts of The Netherlands
- Both biological and conventional
- Commissioned by Ministry of Agriculture, Nature and Food Quality



## The climate is changing. Your business too?









The climate is changing. Your business too?

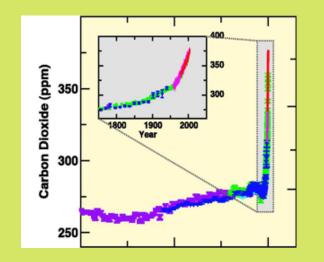
- climate change?
- effects of climate change
- difficulties/opportunities
- overall conclusion
- what is needed?





#### Climate change?

- Most farmers think climate is changing
- The cause is questionable



"There are always peaks and sinks, this does not have to be an effect of climate change"

"Climate is always changing"



#### Effects of climate change

- Work is more hectic
- Prolonged growing season
- More weather extremes
- No recovery of soil structure (less frost)
- More wet summers

*"Farmers need frost, it really perks up the soil"* 



## Difficulties

- Deterioration of soil structure
- Water shortage or inundation
- Storage of harvest will become harder
- Re growth of potato after harvest
- Harder to optimize fertilizing
- Decrease of grazing days in summer
- Increase in animal diseases
- Decrease in milk production
- Increase and shift in pests









#### Increase and shift in pests

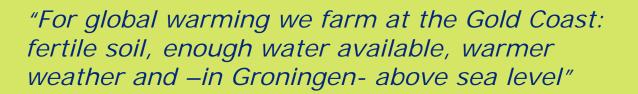
- More weeds
- •More leafspot and western corn rootworm in maize
- Increase in fungal diseases
- •Increase in insects (causing Bluetongue and Q-fever)
- Increase in mice
- •Less emelts





## **Opportunities**

- Higher yield
- Better market position for The Netherlands
  - Cultivation of crops that cannot endure frost
  - Cultivation of 'southern' crops
  - Decrease of production in southern Europe









#### **Opportunity or difficulty?**

Most farmers think their business eventually will benefit.

"As farmers, we are used to changes"





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### What is needed?

•Knowledge on subjects like climate change and adaptation measures should be better available to farmers.



"There is a lot of knowledge in research, but it does not reach us"