

Handling of substrate and water Phytobac® test in Denmark

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Bayer CropScience 1

Phytobac[®] test in Denmark

- What we want to measure
- Design
- Some first results

1) A Biotisa Phytobac[®] system



Biobed research at Aarhus University, Denmark

Original
Swedish
Biobed
2001 – 2002
→Pesticides
in percolate

Phytobac®
2012 - 201?
Closed system



2012 - ? Phytobac test in Denmark

3 – 6 year project

Study under Nordic condition:

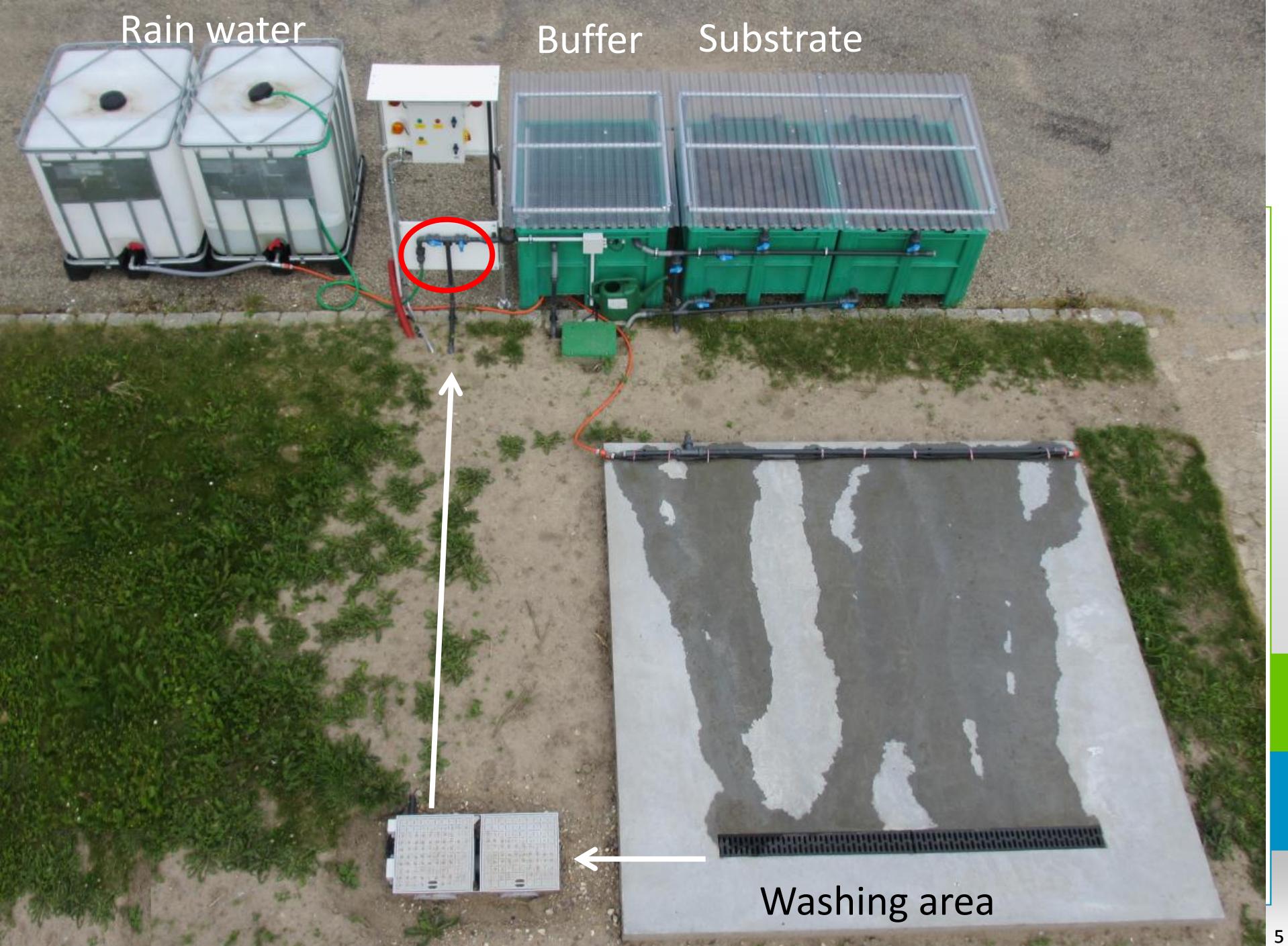
- Degradation in the substrate
- Degradation in compost
- Evaporation from the substrate
- Evaporation from the washing area



Rain water

Buffer

Substrate



Washing area



erification af washing wa
with a Phytobac-system

 **Phytobac®**

Phytobac® test in Denmark



Applied:
5 grams of each product

Phytobac® 2012 - 201?

Substrate: 70% soil + 30% straw

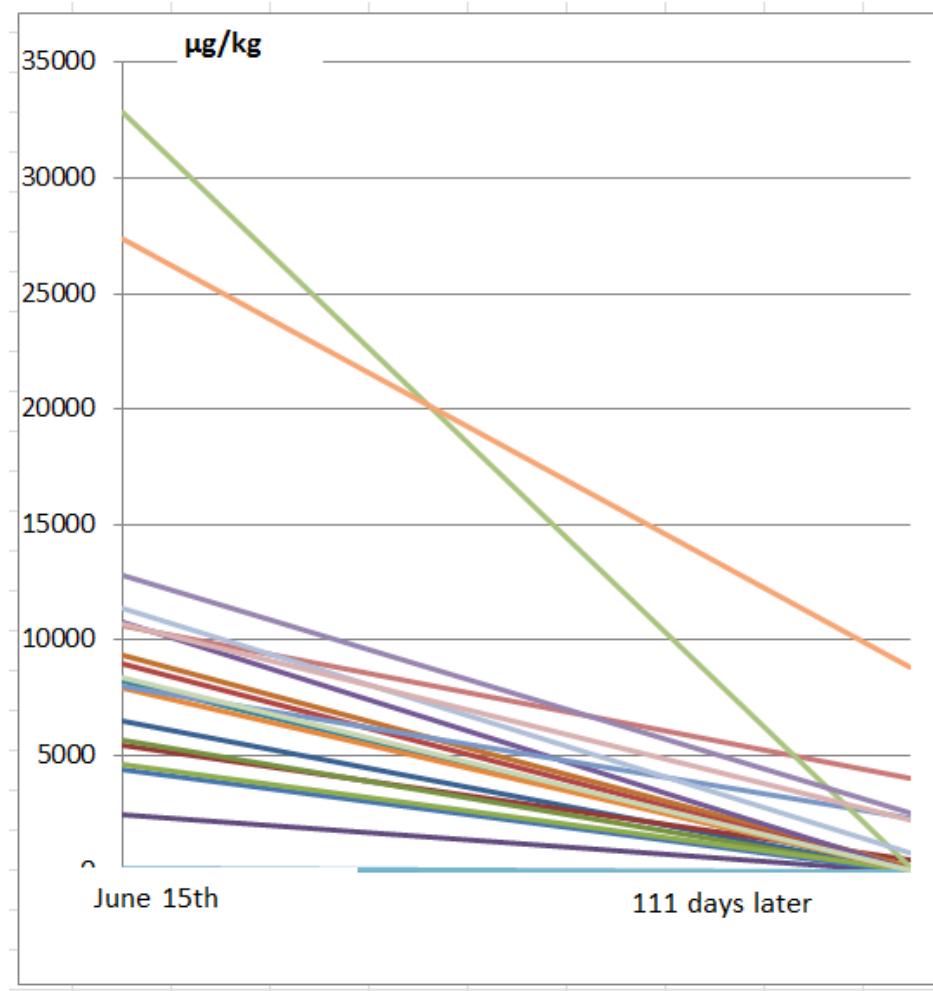
Applied: 5 g of each product to substrate

• Applied	8.6	7 days	111 days
• Analysed	15.6		
• Analysed	27.9		
• Applied	27.9		
• Analysed	10.10		

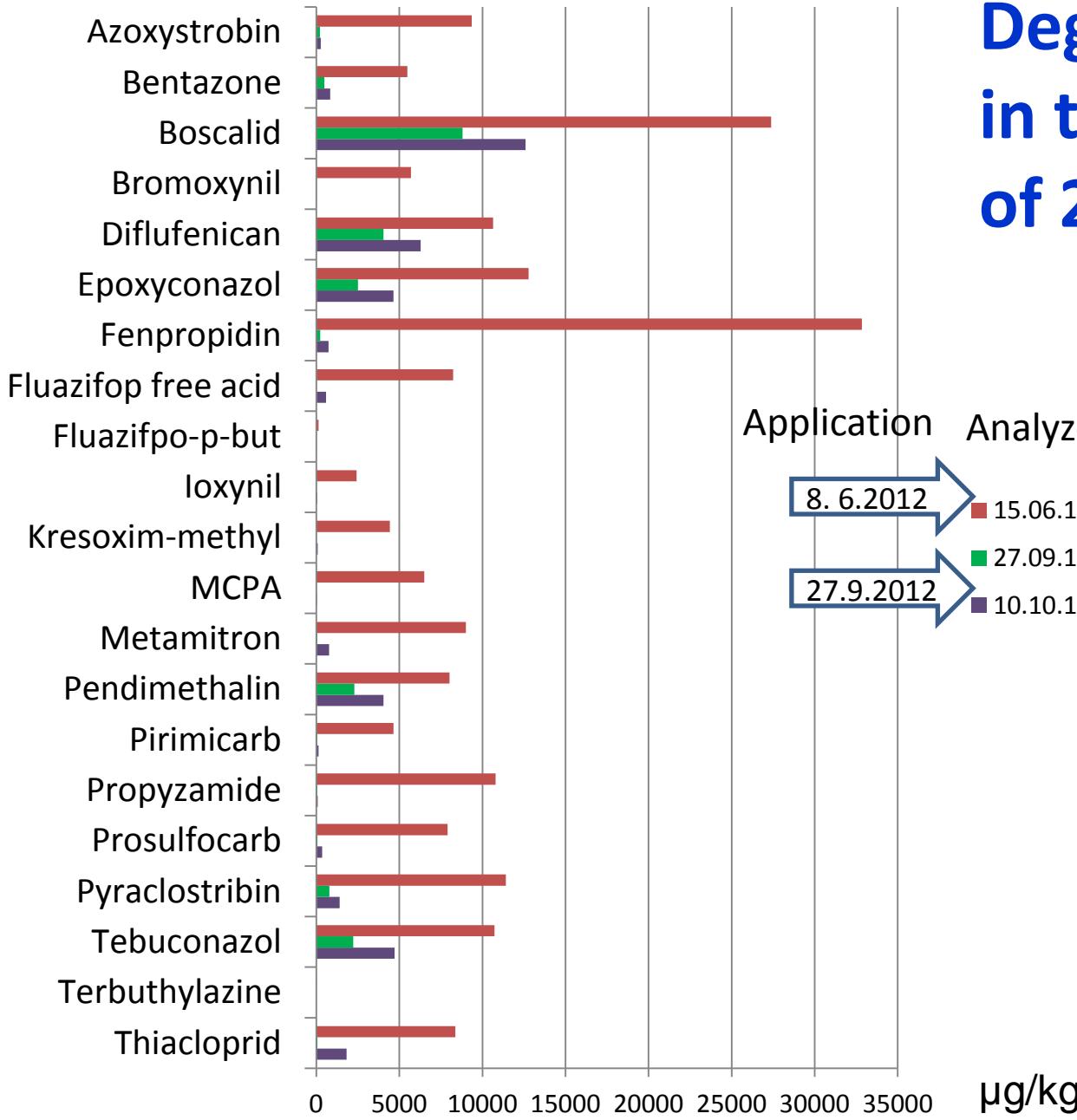
Degradation in the substrate of 20 pesticides

2012
June 15th
– 7 days after application

Sep. 27th
– 111 days after application

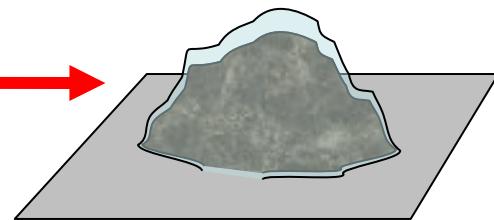
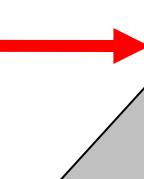


Degradation in the substrate of 20 pesticides



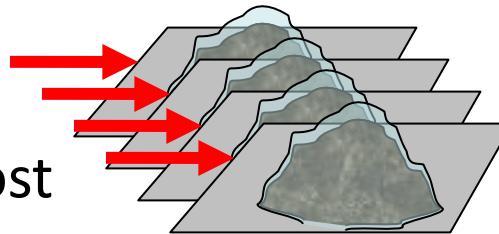
How do we get rid of “old” substrate?

Substrate



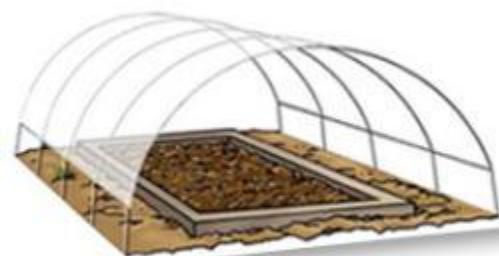
Every year:

- samples to compost



After 6 – 12 months?

- How many months to <LOD
- Will the degradation accelerate over years?



Phytobac®

- against point pollution

THANK YOU