

Increasing Biodiversity and Profitability

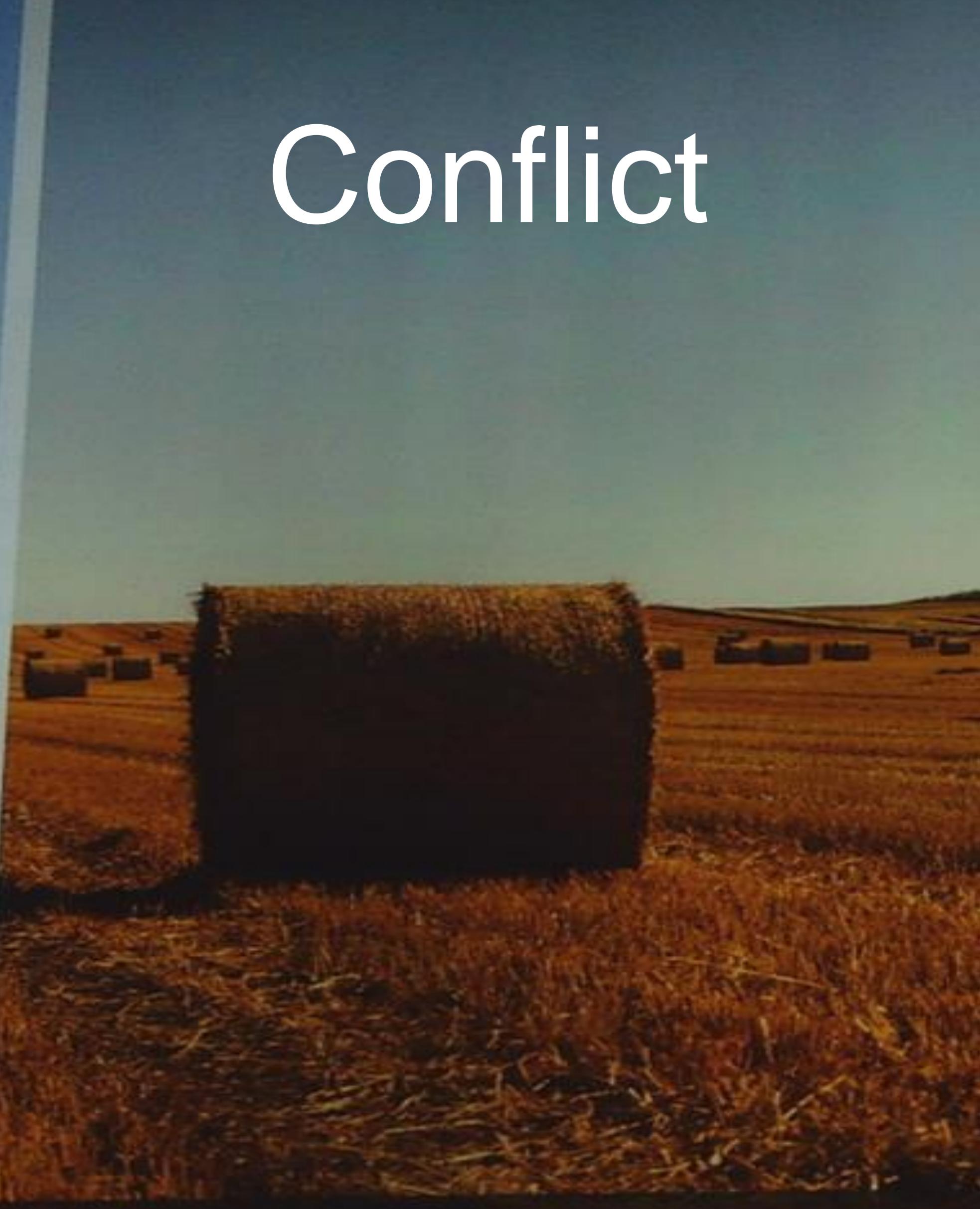
Creating landscapes that work
for both farmers and the environment

Felix Wäckers





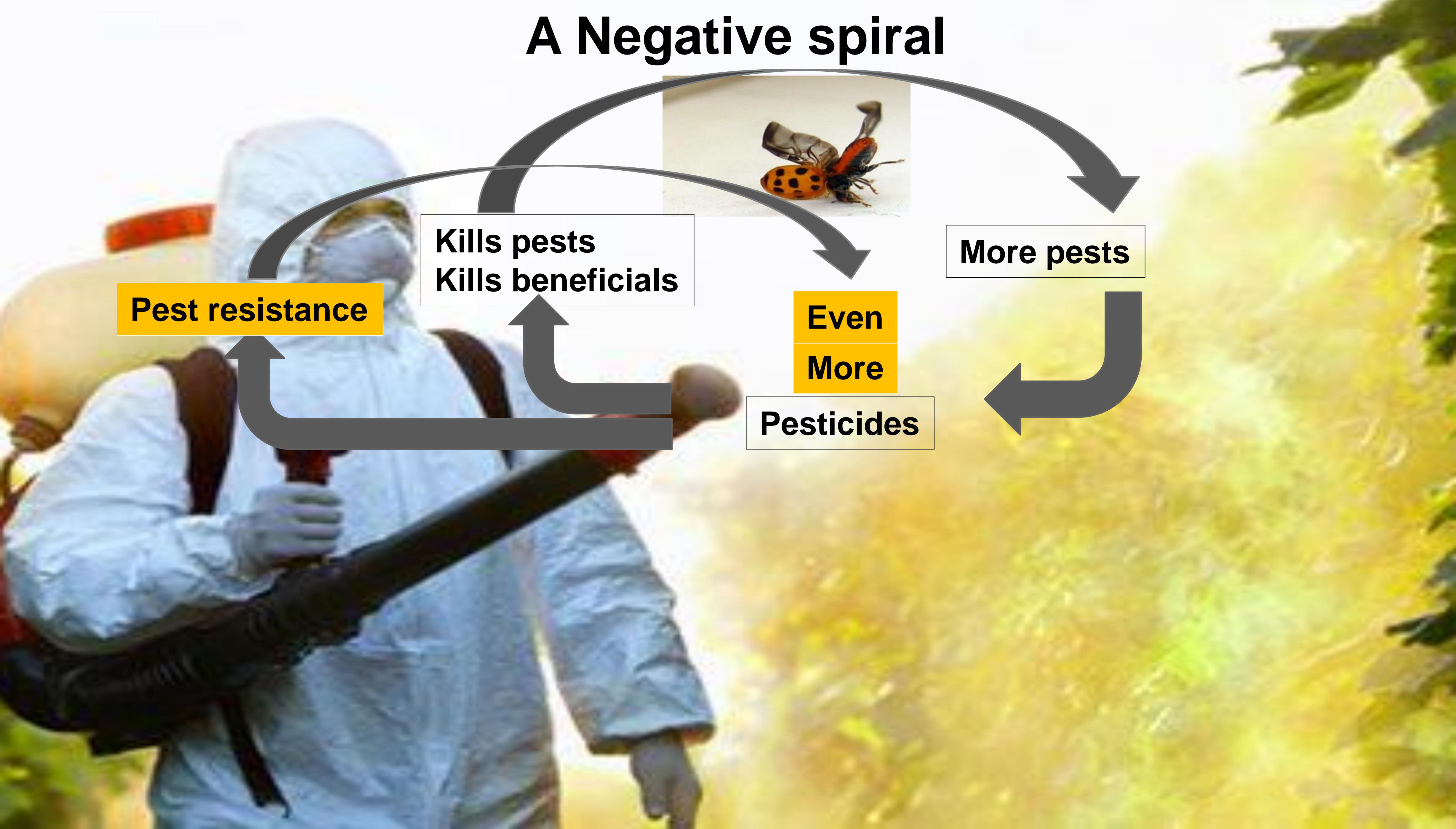
Perceived



Conflict

Yield or environment?

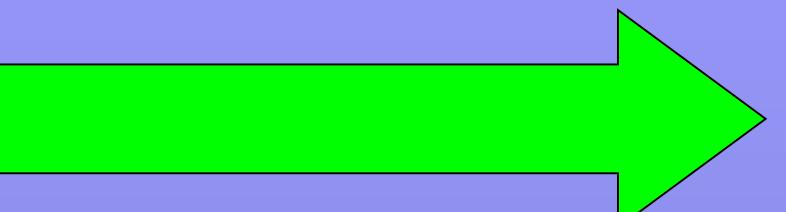
A Negative spiral



Agri Environment Schemes



Agriculture



Environment



Focus on ecosystem services

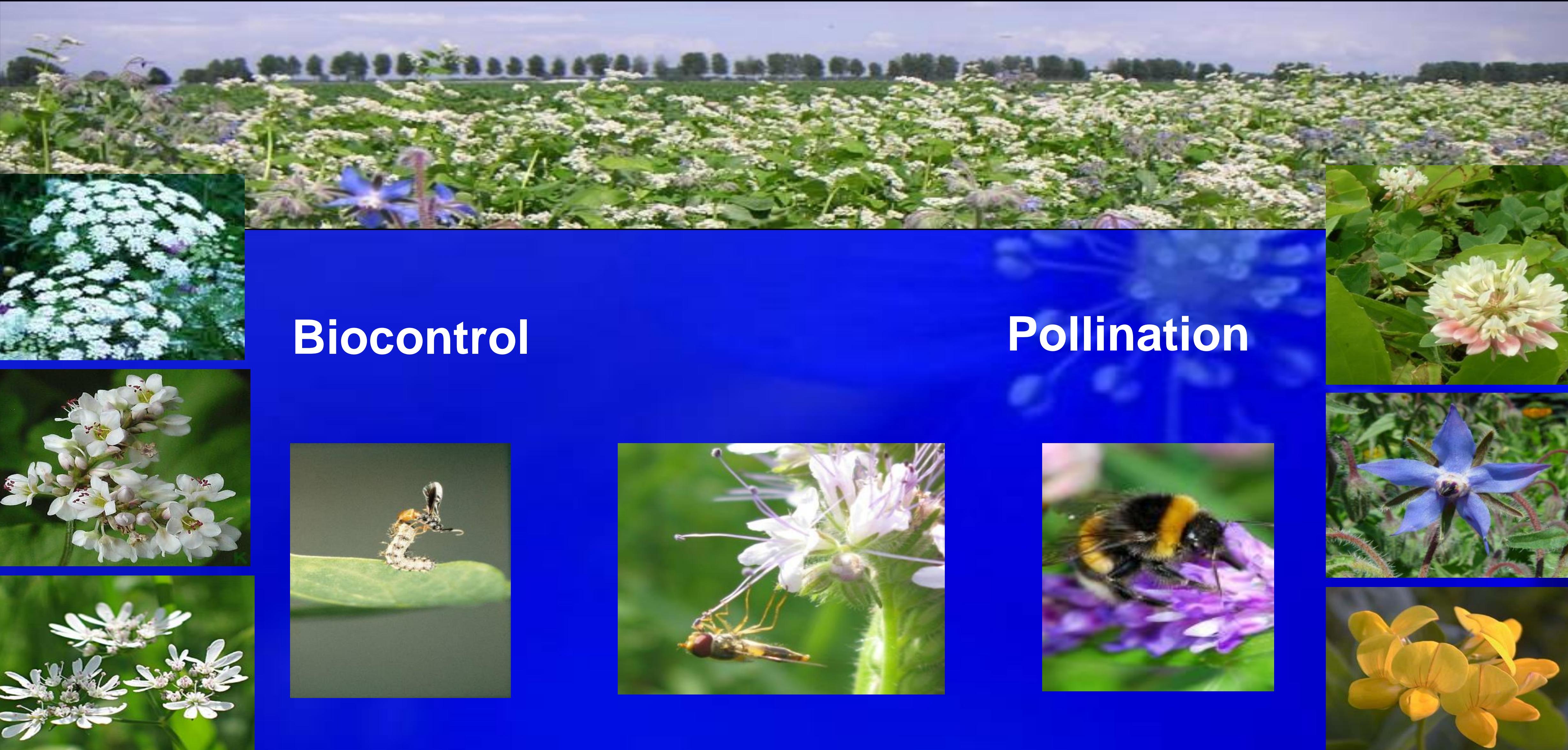


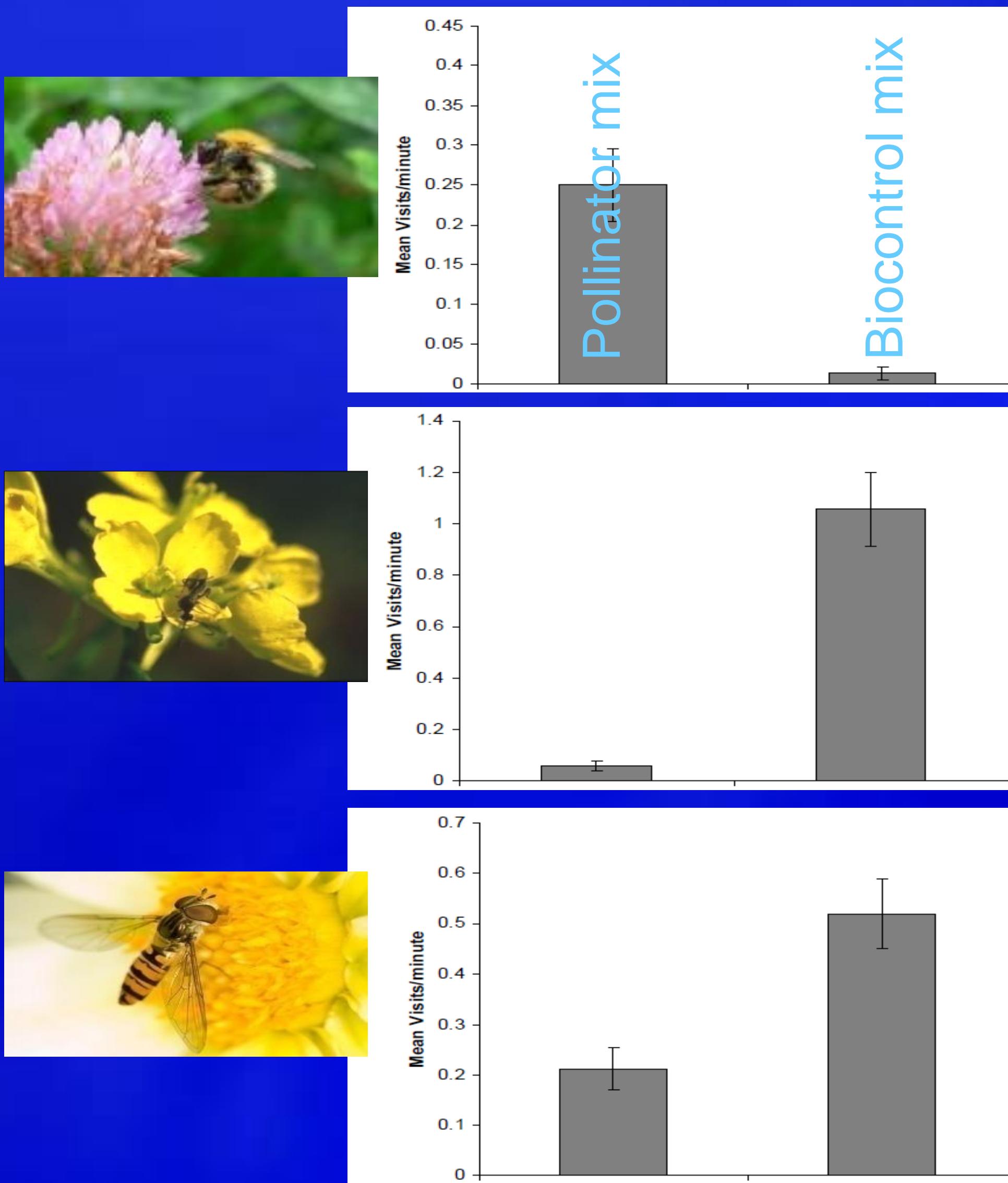
€320 billion/year



€90 billion/year
(Constanza 1997)

How to optimize Ecosystem Services? Select the right (flowering) plants



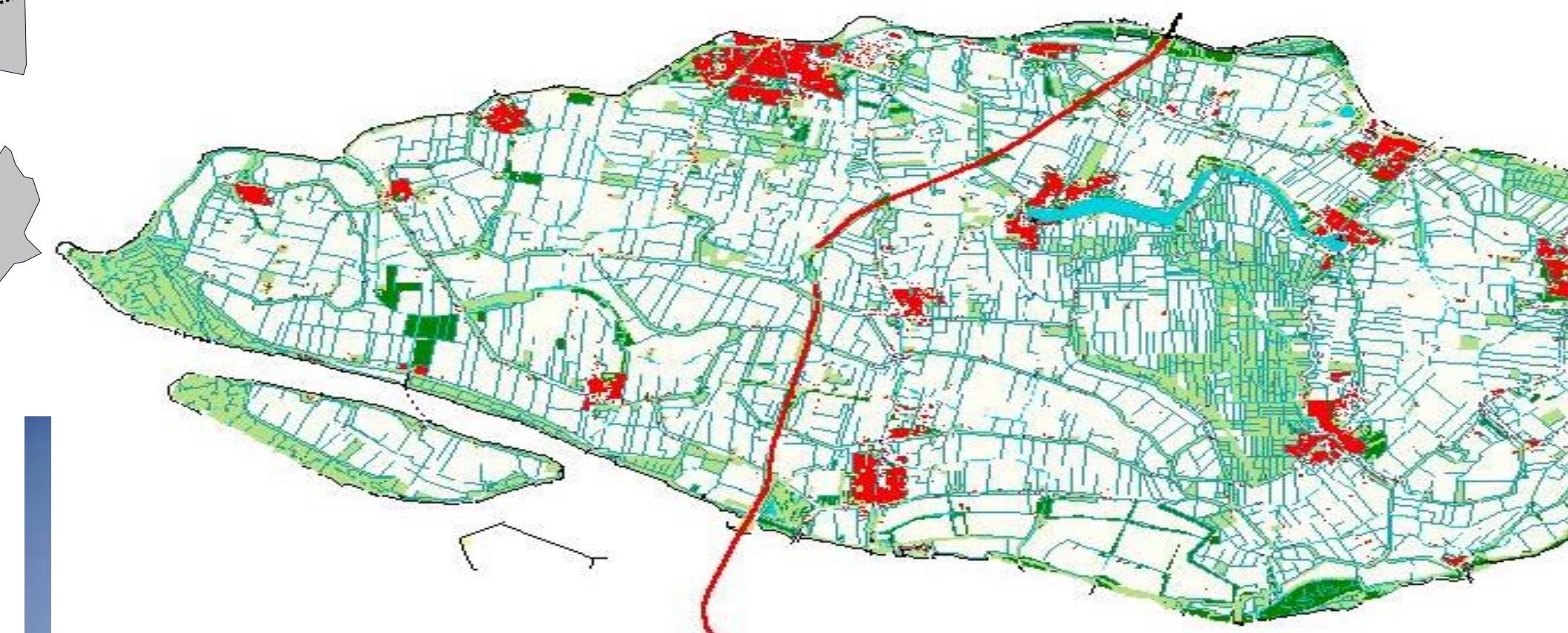
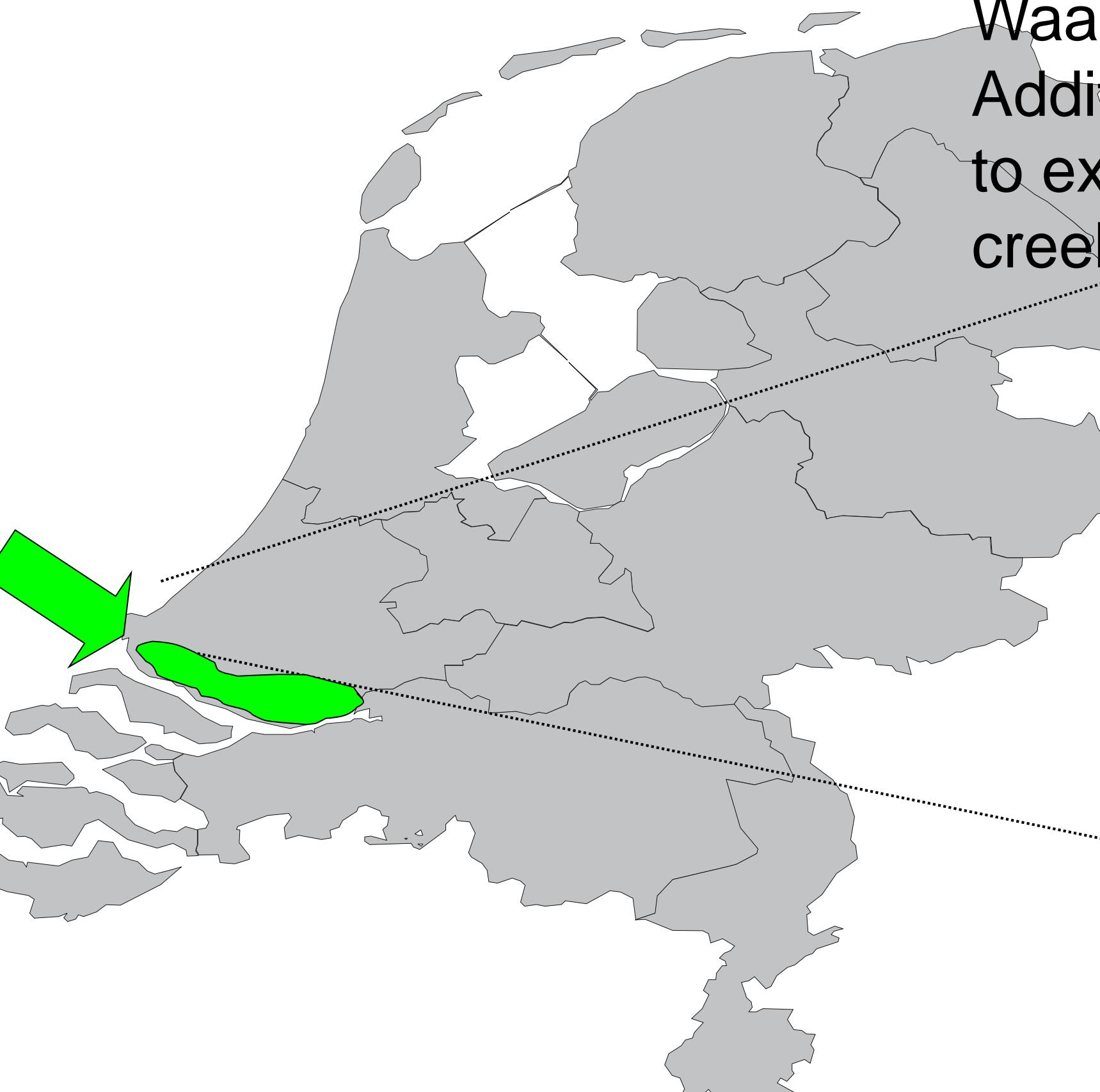


Taking it to the Farmer

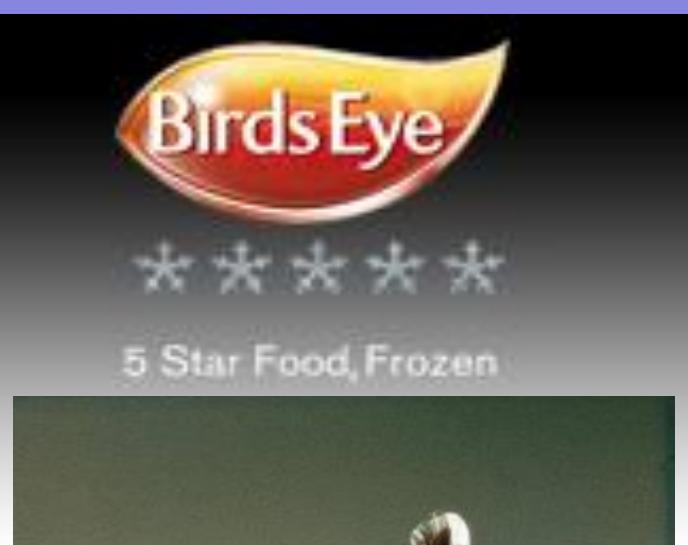
FAB (Functional Agrobiodiversity)

Large scale biodiversity project in the Hoekse Waard working with conventional growers.

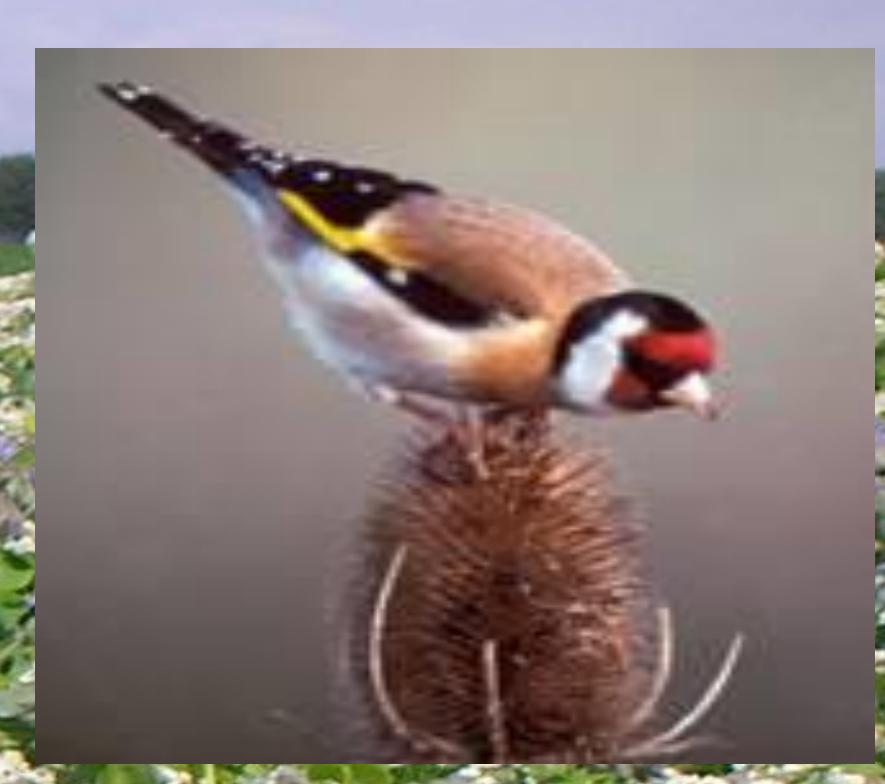
Addition of annual and perennial field margins to existing landscape features (polders, dikes, creeks, canal borders).



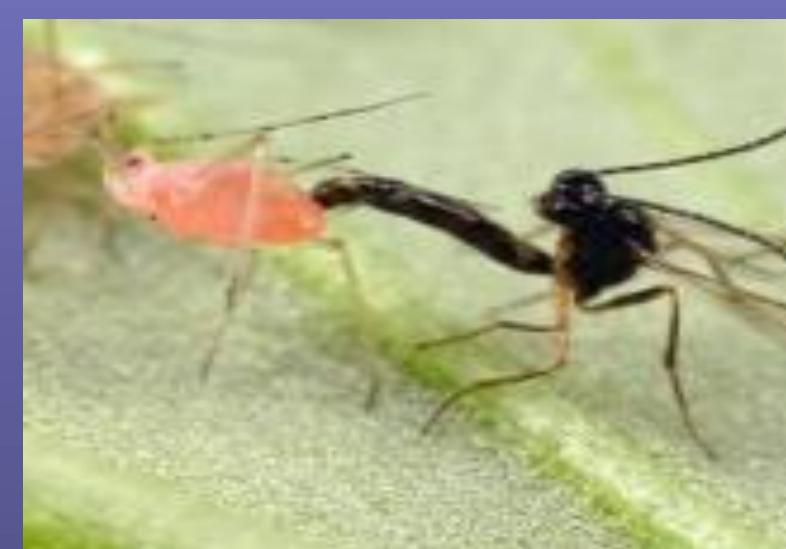
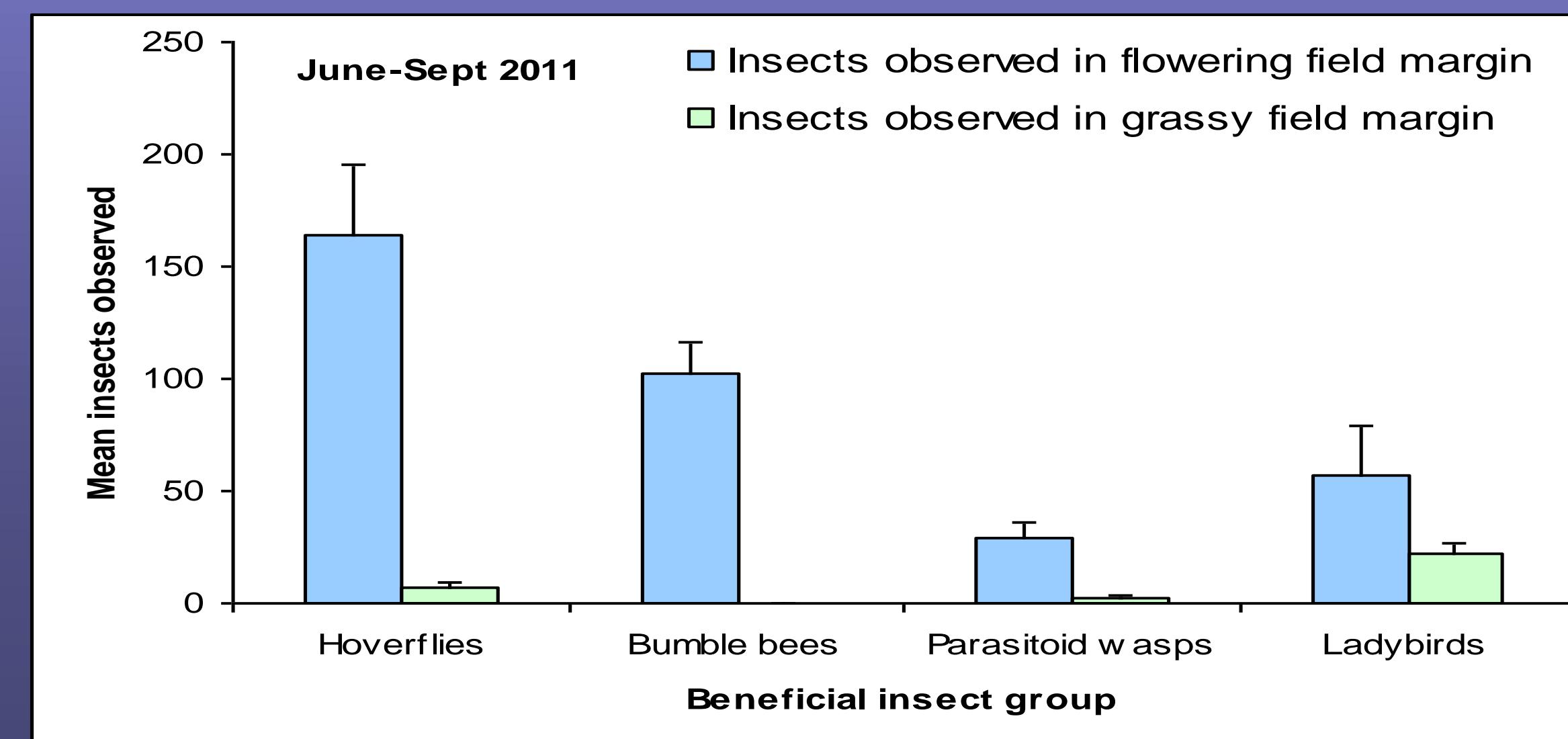
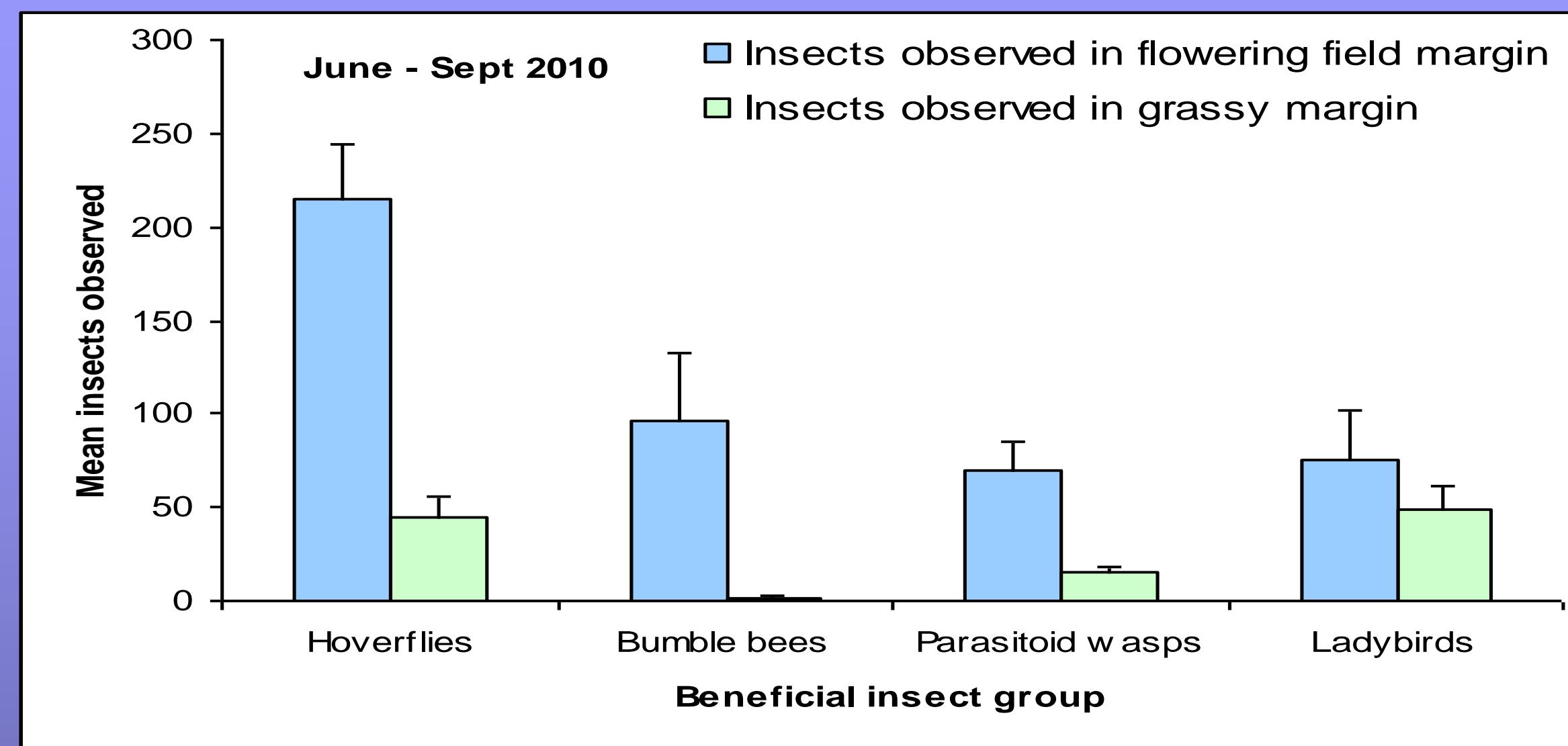
Optimizing Ecosystem Services in Terms of Agronomy and Conservation (ECOSTAC.CO.UK)



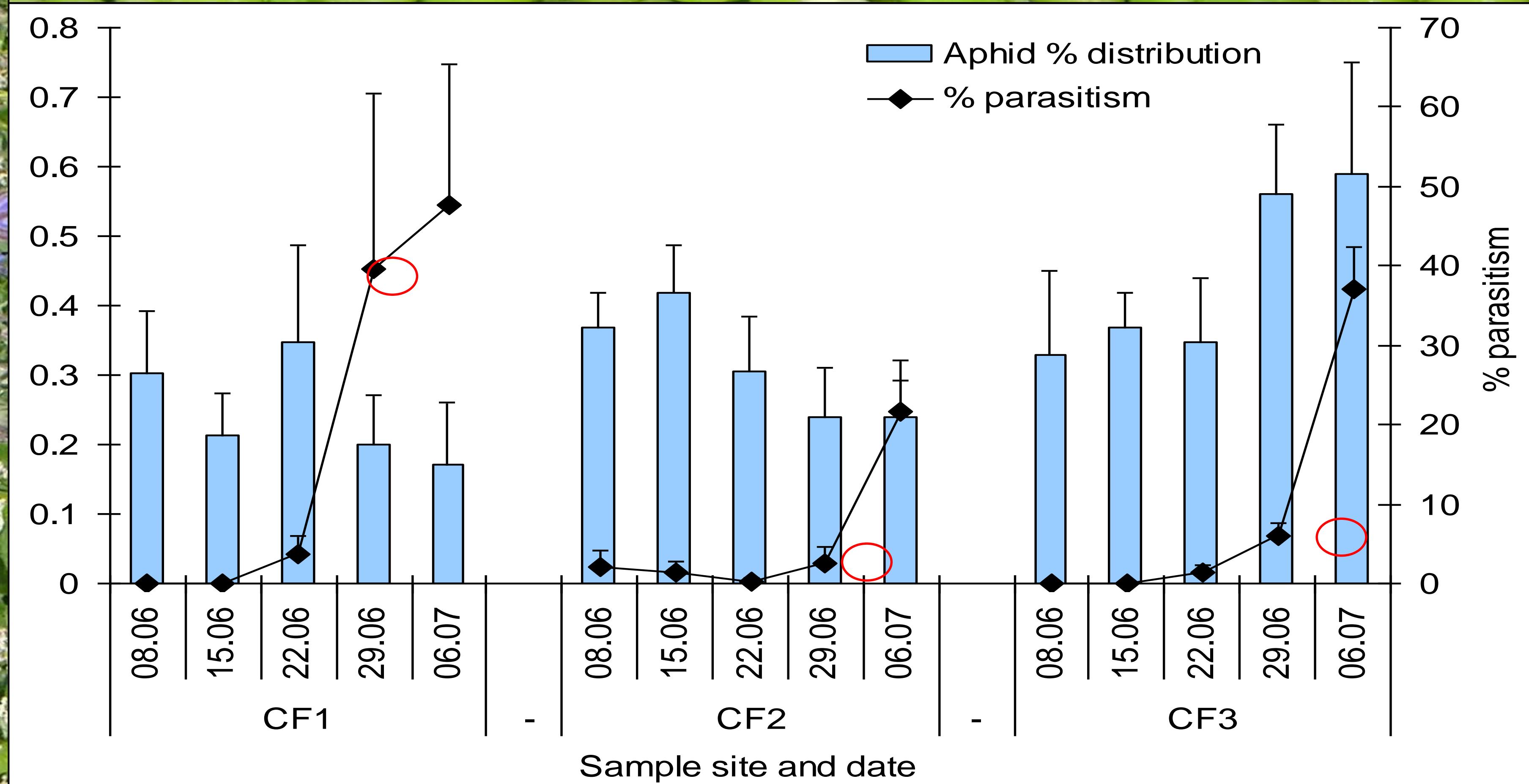
Waitrose
Sainsbury's



Beneficial insects in field margins



Aphids in peas



The positive spiral

More biodiversity

More beneficials

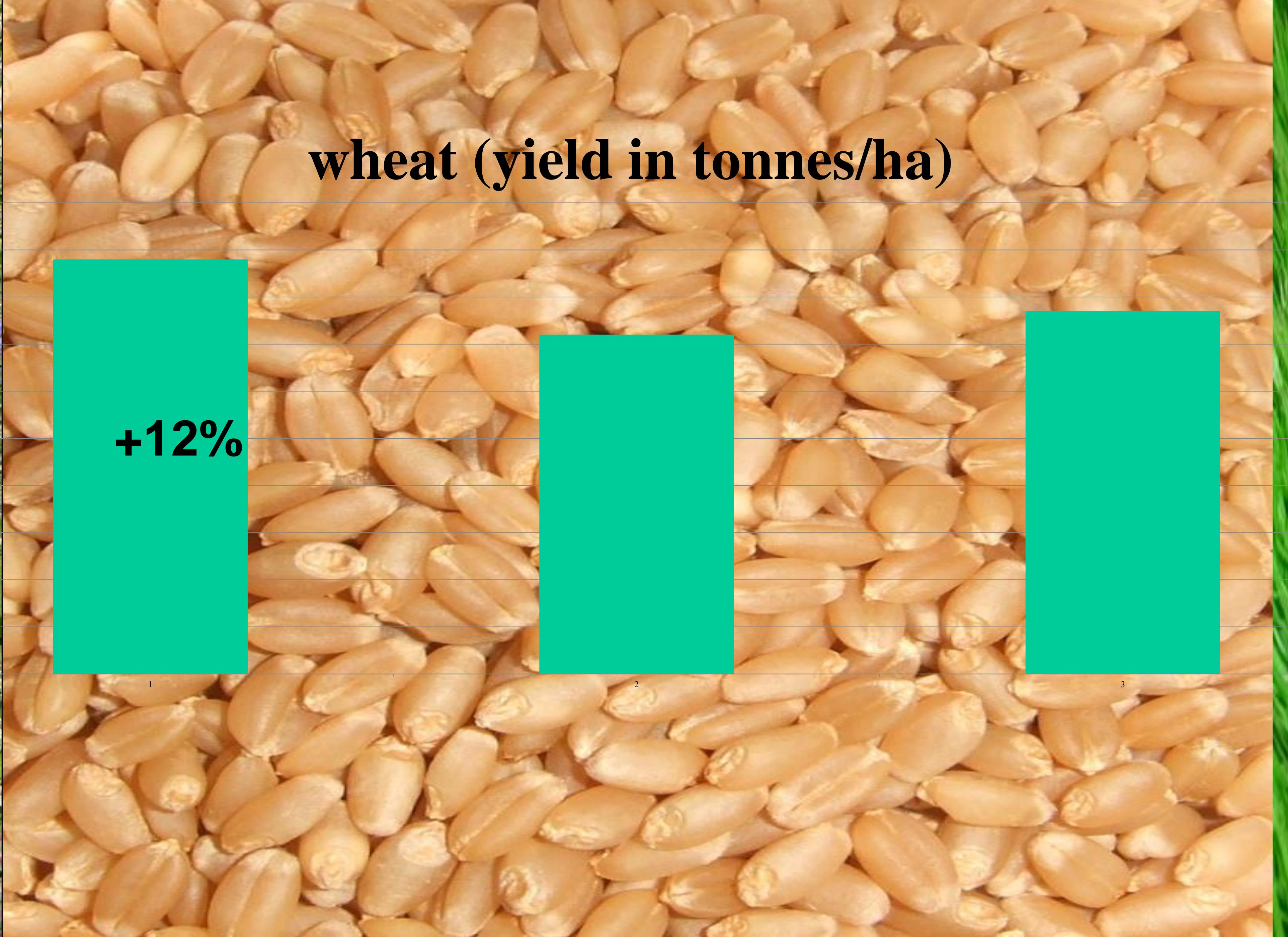
Fewer pests

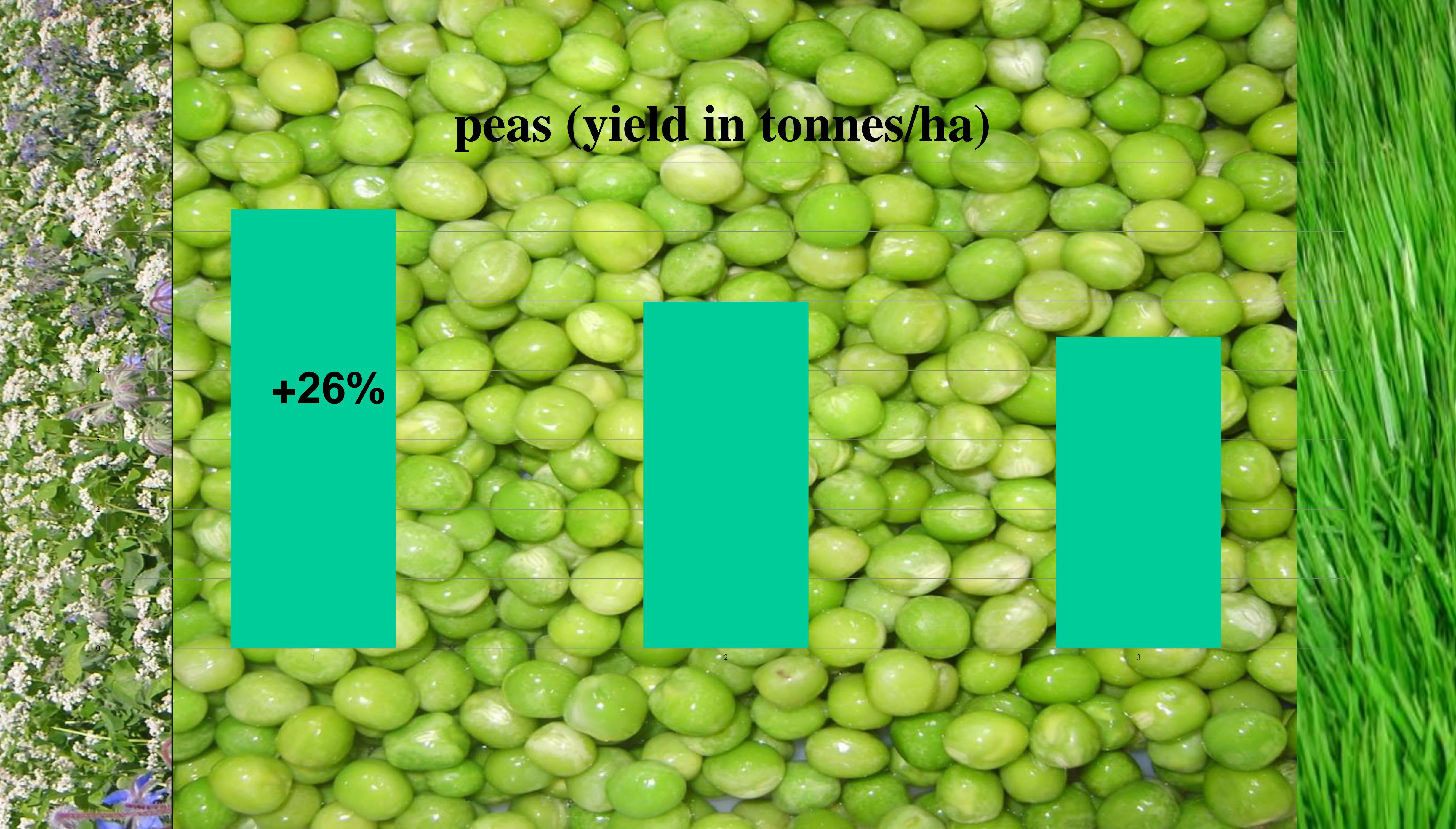
Fewer pesticides



A close-up, low-angle shot of a large metal chute, likely from a combine harvester,倾倒出大量的黄色玉米粒。玉米粒从黑色的出口处涌出，形成一个巨大的黄色喷泉，落在下方的一张蓝色防水布上。背景是清澈的蓝天。

Yield impact?





peas (yield in tonnes/ha)

+26%



carrots (yield in tonnes/ha)

+32%

1

2

3



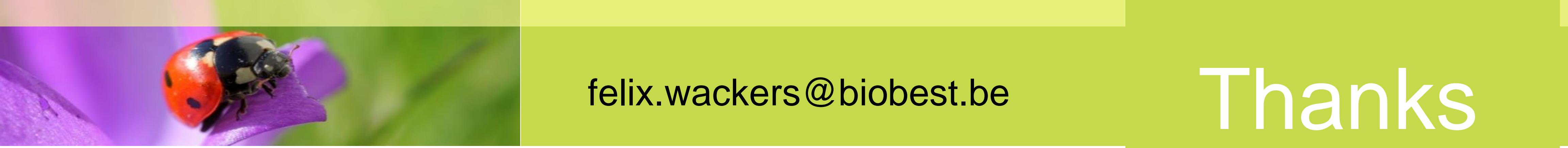
Biodiversity and Profitability

There is no conflict between

- Biodiversity and Food Production;
- Yield and Environment;
- Yield and Consumer Health

They can go Hand in Hand





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Thanks

