



Ecosystem service supported by Pollinators

- Pollination
- but also*
- Food production
- Raw materials
- Recreational opportunities
- and . . .*



Ecosystem service supported by Pollinators

- Climate Regulation
- Erosion Control
- Nutrient Cycling
- Cultural Support



Ecosystem services provided by pollinators

- Pollination
- Raw Materials
- Food Production
- Recreation



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Ecosystem services supported by pollinators



Climate Regulation
Nutrient Cycling

Erosion Control
..and others

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Climate Regulation
Nutrient Cycling

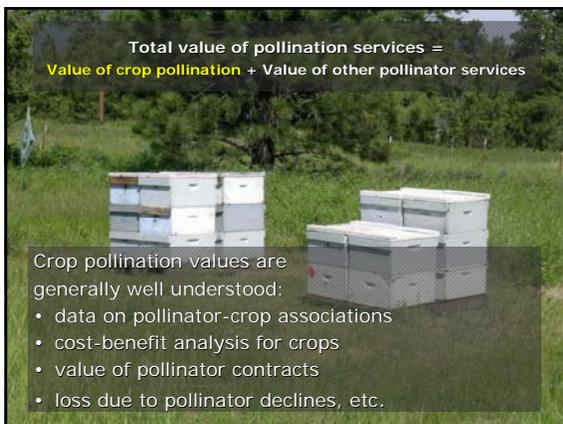
Erosion Control
..and others

How do we value pollinator services?



Value of crop pollination
+
Value of other pollinator services

Total value of pollination services =
Value of crop pollination + Value of other pollinator services



Crop pollination values are generally well understood:

- data on pollinator-crop associations
- cost-benefit analysis for crops
- value of pollinator contracts
- loss due to pollinator declines, etc.

What values do we already know for crop-based pollinator services?



\$217 billion dollars
in global crop production a result of insect pollination
Gallai et al. 2008

Total value of pollination services =
 Value of crop pollination + Value of other pollinator services

Total (true) value of pollination services =

crop +
 and a percentage of the following:

- recreation +
- climate +
- disturbance regulation +
- raw materials +
- erosion +
- nutrient cycling +
- culture +
- unknown ...

Pollinators are in distress

- Habitat Loss
- Diseases
- Pathogens
- Pests
- Competition for non-native species
- Non-target effects of chemicals
- Climate Change
- Colony Collapse Disorder

Thank you and welcome

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PARTNER

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