Pollinators in Bosnia and Herzegovina

Animal pollinators play a important role in flowering plant reproduction and in the production of most fruits and vegetables.

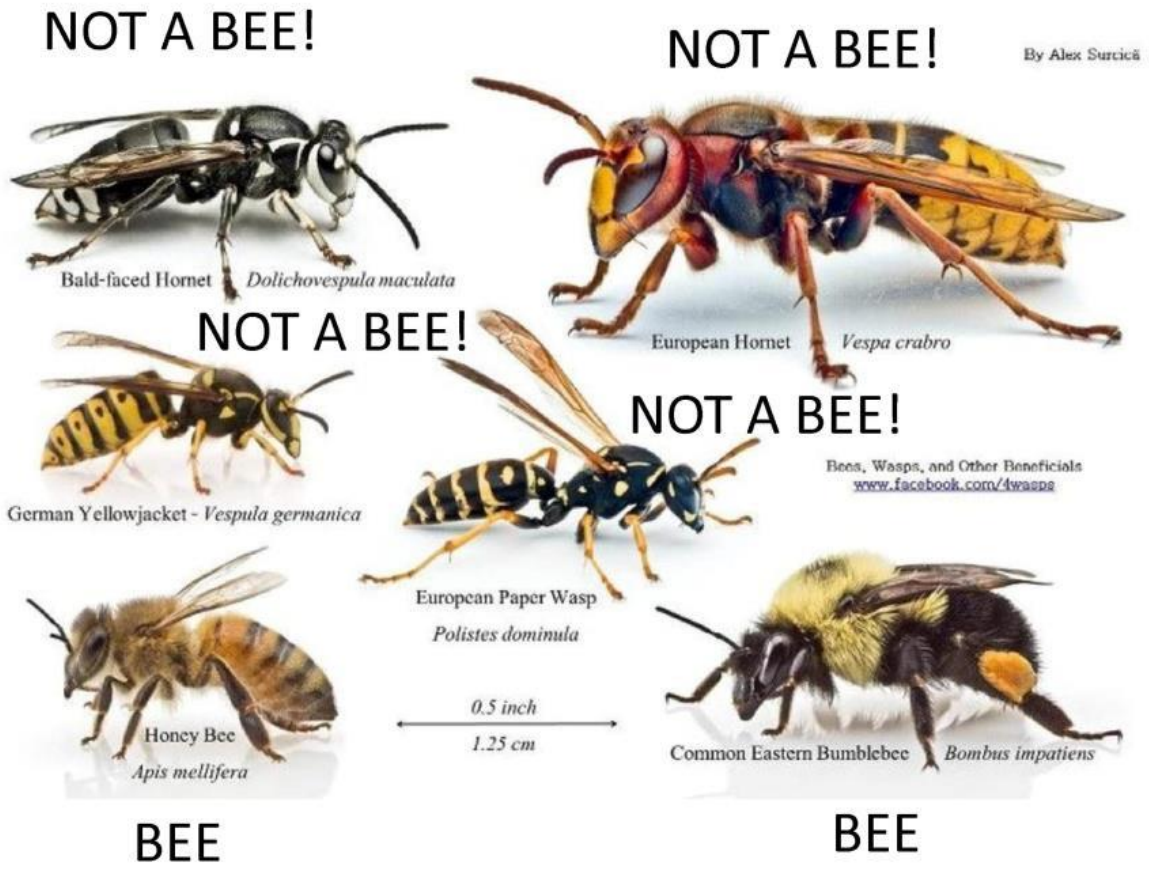
Most plants require the assistance of pollinators to produce seeds and fruit.

Pollinators visit flowers in search of food, mates, shelter and nest-building materials.

In recent years, the decline of pollinators has public attention.

Insect pollination, which is currently under threat in Europe, has an estimated economic value of €15 billion per year in the EU alone **The European Red List of Bees**.

The European Red List of Bees provides, for the first time, factual information on the status of all bees in Europe, nearly 2,000 species.



The status of pollinators in Bosnia and Herzegovina

Outdated faunistic data regarding wild hymenoptera pollinators
Data on Apidae Apfelbeck (1896); 121 year old data

Since first data no additional fundamental investigations on population dynamic of bees were undertaken.
No monitoring programs.
No founding for entomologists in Bosnia and Herzegovina for fundamental investigations of wild entomofauna.

135 bee species in Bosnia and Herzegovina revision needed
32 genera - revision needed
14 subfamilies/families - revision needed

No species on the Red List of FBiH

1896

2017

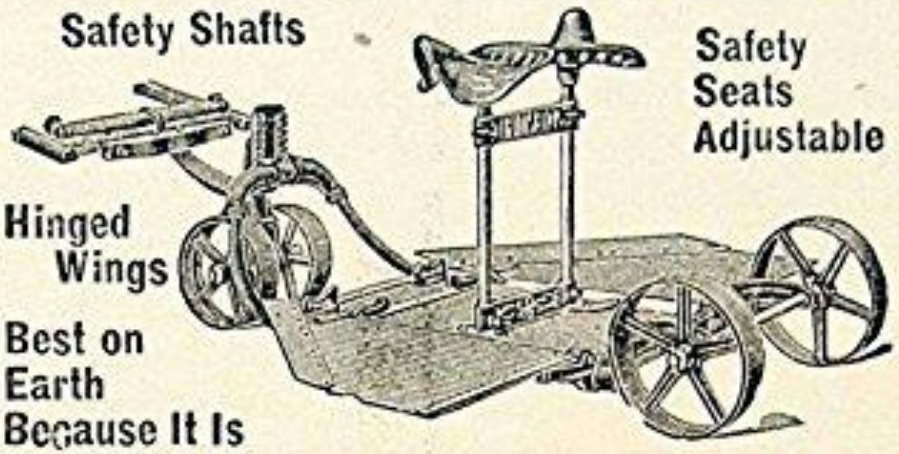
Corn Fodder is the Farmers Gold Mine

this year. Cut it quick and cheaply with

The Scientific Corn Harvester

Safety Shafts

Safety Seats Adjustable



Hinged Wings

Best on Earth Because It Is

EASIEST to HANDLE,
SAFEST to OPERATE,
HANDIEST to STORE AWAY.

Will save many times cost in one season. We have several styles, prices just right. Send for cata

THE FOOS MFG. CO., Springfield, O

Other polinators: Lepidoptera

Continous faunistic investigation since Austro-Hungarian times.

More than 1900 species.
Decline in number of butterfly species?

On the Red List of FBiH 23
butterfly species.

Habitat destruction

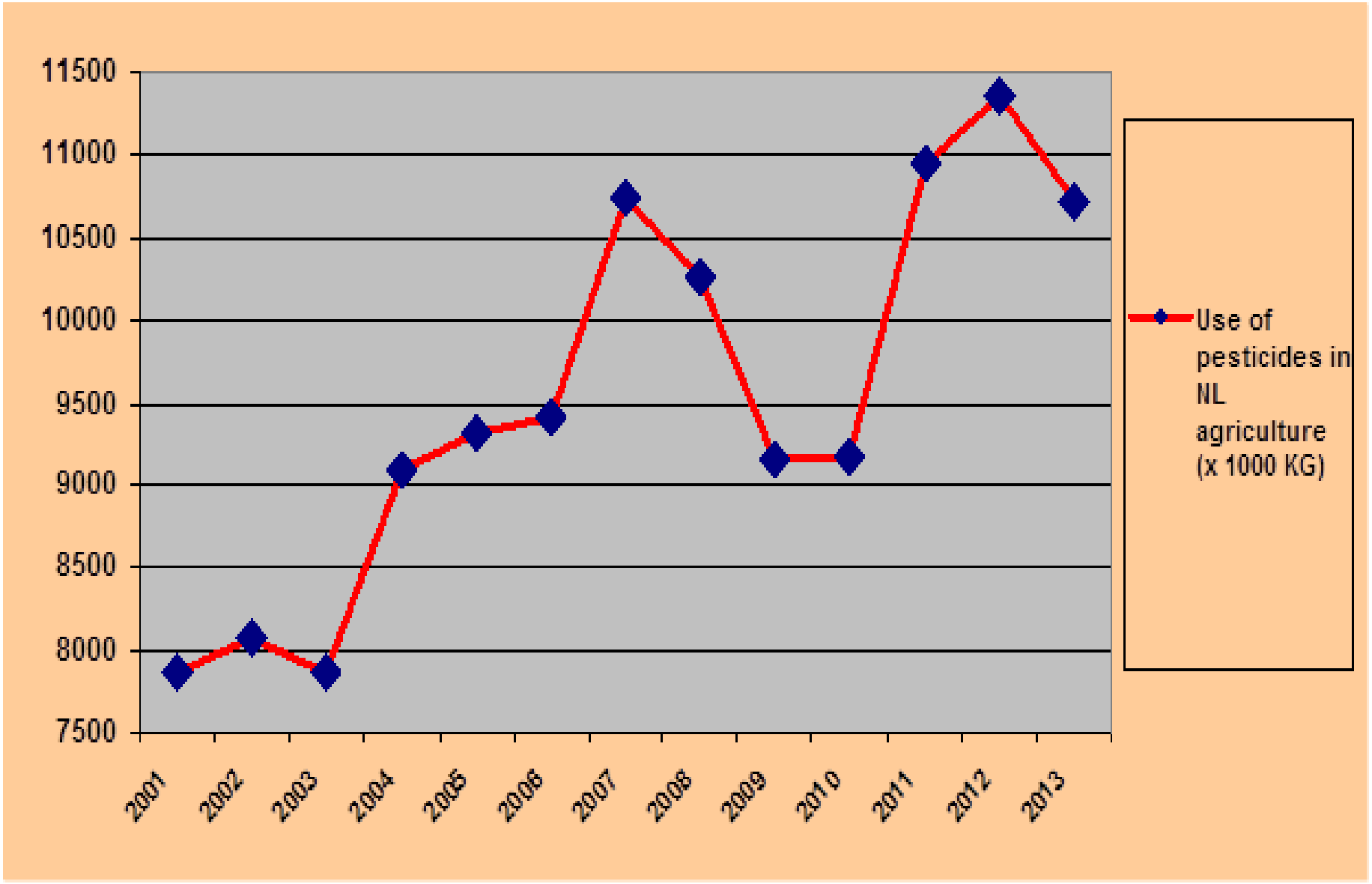
INDUSTRIAL AGRICULTURE

Invisible threats for pollinators (insects)

Average use of pesticides, sample taken in 8 EU-MS

Total No of pesticides used in wine grapes: 56; b Total No of pesticides used in BE potatoes: 42

EU Member State/crop	Average No of pesticides used	Average spraying frequency	Main pesticide type sprayed
NL oignons	42	21	Herbicide/fungicide
IT apples	41	26	Fungicide
IT wine grapes	38a	14	Fungicide
UK apples	37	17	Fungicide
NL potatoes	36	19	Fungicide
NL lettuces	30	9	Fungicide/insecticide
BE potatoes	29b	13	Fungicide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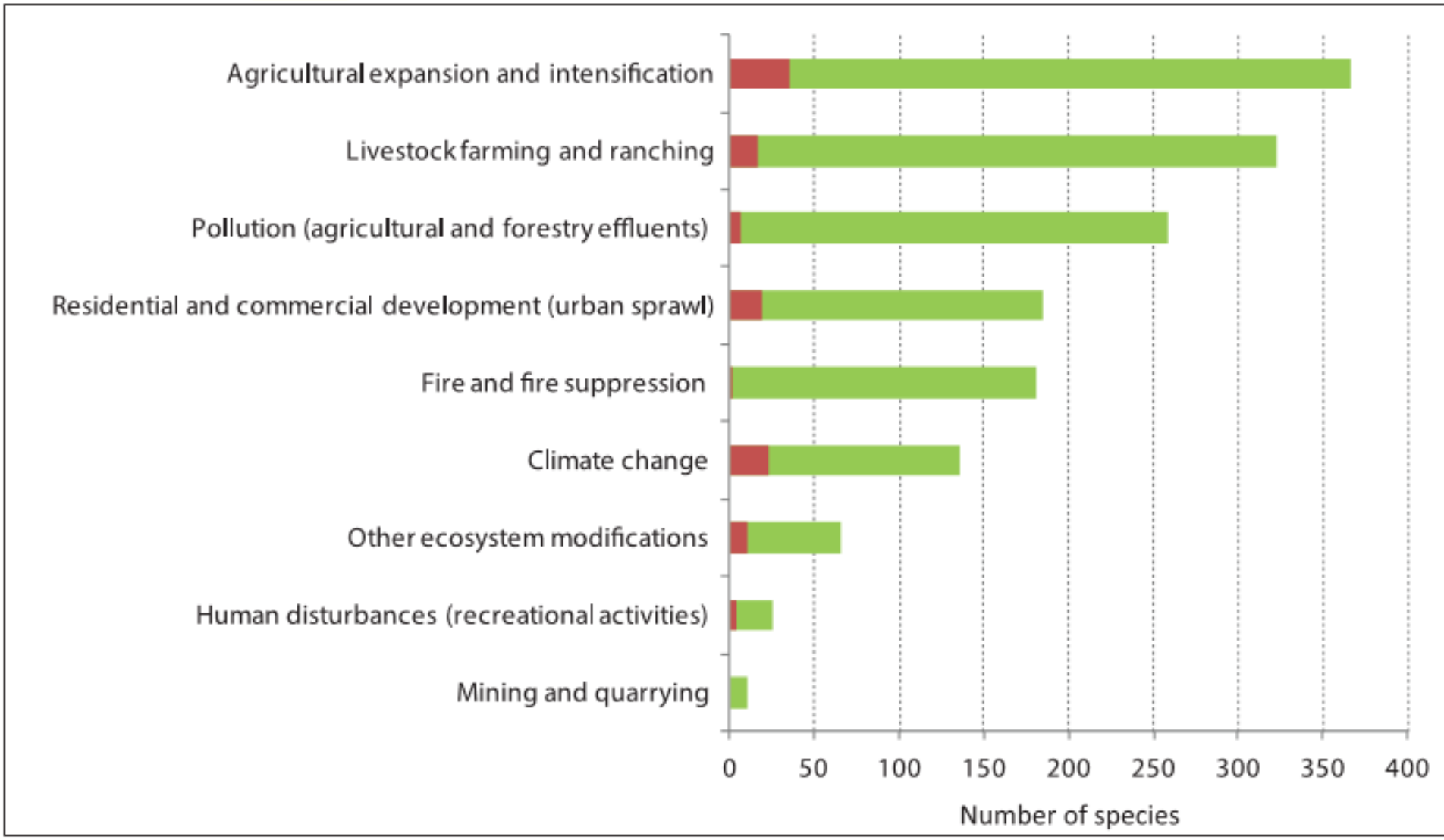
Use of pesticides in NL agriculture (x 1000 KG)



Main threats for bees in EU

Identified problems in Bosnia and Herzegovina regarding insect pollinators

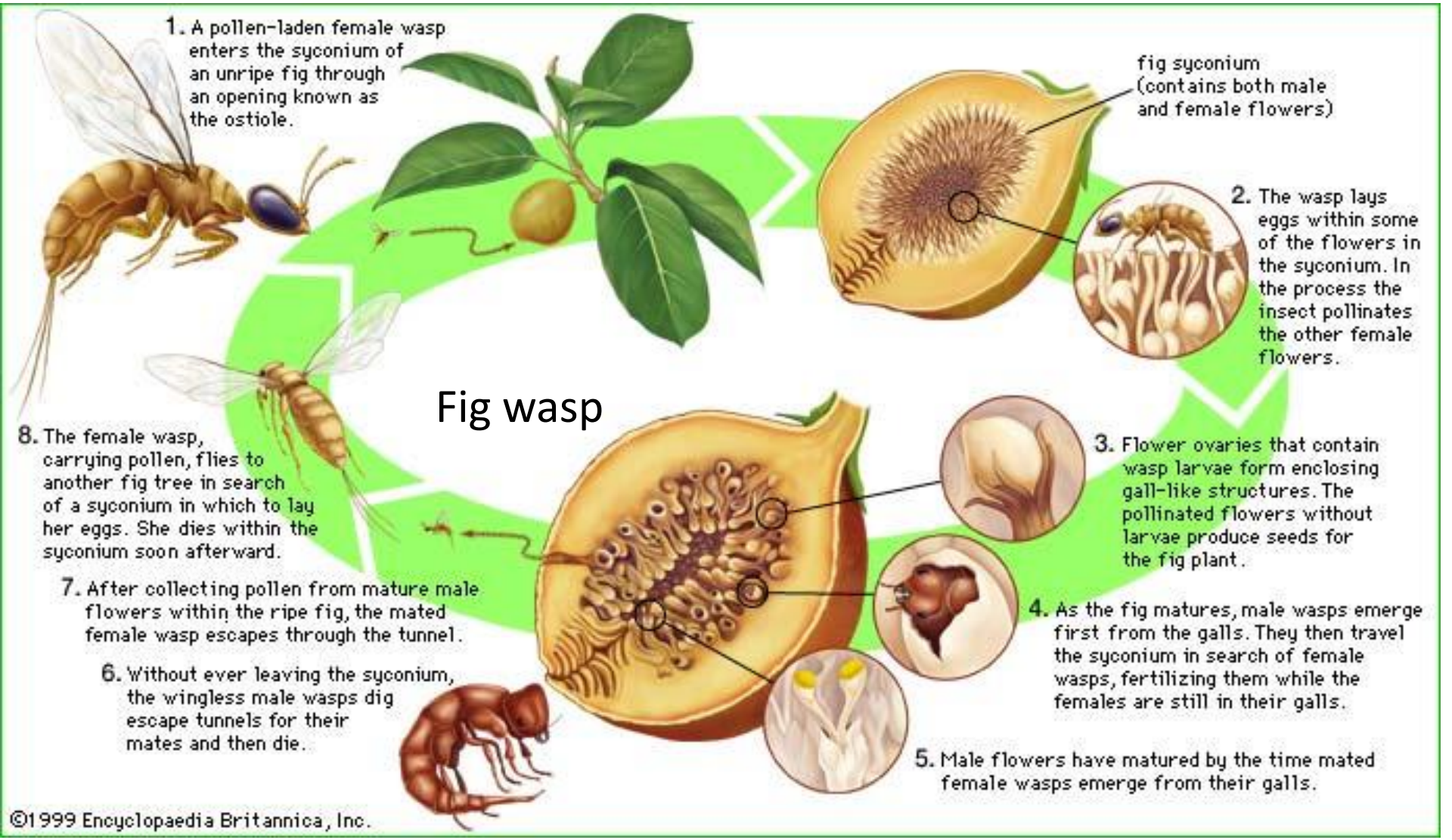
Old or data deficient for wild life polinators in B&H.

No monitoring programs for pollinators.

Inability to measure the effects of human activity on pollinators in Bosnia and Herzegovina.

Use of pesticides is common.
(Raspberry)

Habitat conversion.



About 900 species of tiny wasps responsible for pollinating the world's 900 species of figs.

Each species of wasp pollinates only one species of fig, and each fig species has its own wasp species to pollinate it.

Future Prospects

- Capacity building in scientific community – effective monitoring and assessment of species
- Data exchange between scientific community and policy makers
- Promotion of organic production – new ways of crop protection – replacing pesticides
- Conservation of important habitats for wild pollinators

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