



Conservation and Management of Pollinators for Sustainable Agriculture – the International Response

FAO

Workshop on Solitary Bees: Conservation, Rearing and Management for
Pollination

Beberibe, Ceará April 26-30, 2004



Conservation and Management of Pollinators for Sustainable Agriculture – the International Response

- ☀ Global Challenges
- ☀ FAO
- ☀ Pollination - a function of an agro-ecosystem
- ☀ Pollination related issues
- ☀ International Instruments
- ☀ International Pollinator Initiative
- ☀ Project Funded by GEF
- ☀ Other activities carried out

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Global Challenges

- 800 millions people undernourished (food security, nutrition and livelihoods improvement)
- International Commitment to the Millennium Development Goals
- Globalisation
- Migration to cities

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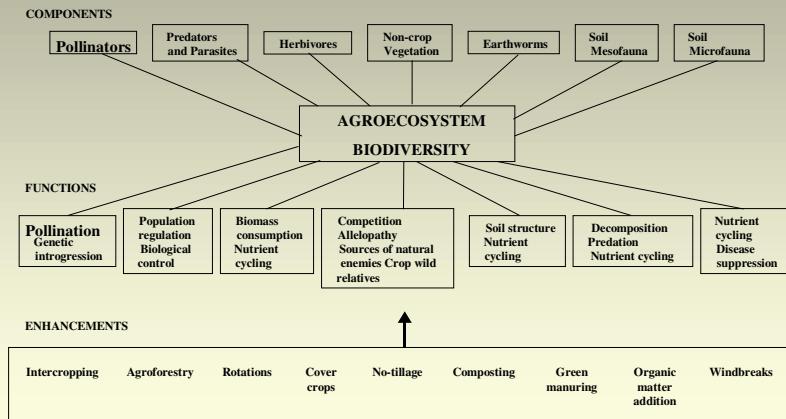
FAO

mission to reduce food insecurity

- UN Specialized agency – food and agriculture (including fisheries and forestry)
- Secretariat (data management, etc)
- Intergovernmental forum (e.g. CGRFA)



Pollination – a function of an agro-ecosystem



From Altieri, M. A., Biodiversity and Pest Management in Agroecosystems, Haworth Press, New York, 1994



Pollination related Issues

- ☀ Over 75% major world crops and 80% of all flowering plant species rely on animal pollinators (Nabhan and Buchmann, 1997)
- ☀ Agricultural production, agro-ecosystem diversity and biodiversity are being threatened by declining pollinator populations
- ☀ Some contributing factors to declining pollinator populations include habitat loss/fragmentation, land management practices, agricultural and industrial chemicals, parasites/diseases, alien species



International Instruments

- ☀ Global Plan of Action for the Conservation and Sustainable Utilization of Plant Genetic Resources for Food and Agriculture
- ☀ International Treaty for the Conservation and Sustainable Utilization of Plant Genetic Resources for Food and Agriculture
- ☀ International Plant Protection Convention
- ☀ Convention on Biological Diversity



International Pollinators Initiative (IPI)

- ☀ Convention on Biological Diversity, Decision III/11 of the Conference of the Parties (COP):

Established the Programme of Work on Agricultural Biological Diversity and called for “*priority attention to components of biological diversity responsible for the maintenance of ecosystem services important for the functioning sustainability of agriculture, including pollinators*”



International Pollinators Initiative (IPI)

THE SÃO PAULO DECLARATION ON POLLINATORS

- ☀ Document prepared as a contribution for the implementation of the Programme of Work on Agricultural Biodiversity of the Convention on Biological Diversity
- ☀ Document discussed at SBSTTA 5
- ☀ Document endorsed at COP V (2000)



International Pollinators Initiative (IPI)

- ☀ CBD COP Decision V/5:
In consideration of the urgent to address the issue of worldwide decline in pollinator diversity, COP V/5 established the International Initiative for the Conservation and Sustainable Use of Pollinators (International Pollinators Initiative - IPI) and called for the development of a Plan of Action

Requested the Executive Secretary to “*invite the Food and Agriculture Organization of the United Nations to facilitate and coordinate the Initiative in close cooperation with other relevant organizations...*”



International Pollinators Initiative (IPI) - Plan of Action -

☀ CBD COP Decision VI/5 (2002):

Adopted the Plan of Action for the International Initiative for the Conservation and Sustainable Use of Pollinators (IPI)

* prepared by FAO and CBD Secretariat

* based on the Sao Paulo Declaration and on a meeting held at FAO in 2000

* endorsed by SBSTTA 7 and recommended for adoption at COP VI



International Pollinators Initiative (IPI) Plan of Action

☀ Objectives of the IPI Plan of Action:

- ☀ Monitor pollinator decline, its causes and its impact on pollination services;
- ☀ Address the lack of taxonomic information on pollinators;
- ☀ Assess the economic value of pollination and the economic impact of the decline of pollination services; and
- ☀ Promote the conservation and the restoration and sustainable use of pollinator diversity in agriculture and related ecosystems.



International Pollinators Initiative (IPI) Plan of Action

Elements of the IPI Plan of Action

- ☀ Element 1: Assessment
- ☀ Element 2: Adaptive Management
- ☀ Element 3: Capacity Building
- ☀ Element 4: Mainstreaming



Contribution to the International Pollinators Initiative (IPI)

Ecosystem Approach – Cross-cutting Issue

- ☀ GEF-funded global-sized PDF-B project:
“Conservation and Management of Pollinators for Sustainable Agriculture, Through an Ecosystem Approach”

Conservation and Management of Pollinators for Sustainable Agriculture, Through an Ecosystem Approach



Three Principal Objectives of the Full-size Project

- ✿ **Develop and implement tools, methodologies, strategies and best management practices for pollinator conservation and sustainable use.**
- ✿ **Build local/national/regional/global capacities to enable design, planning and implementation of interventions to mitigate pollinator population declines, and establish sustainable pollinator management practices – including raising awareness and strengthening existing networks dedicated to conservation of pollinators.**
- ✿ **Promote co-ordination and integration of activities related to the conservation and sustainable use of pollinators at the international level to enhance global synergies.**

Conservation and Management of Pollinators for Sustainable Agriculture



Other Activities carried out

- ✿ **Technical assistance to countries – mainstreaming agricultural biodiversity and pollinators**
- ✿ **Participation in events at national and international levels**
- ✿ **Provision of support to regional initiatives**
- ✿ **World Food Day 2004 – Biodiversity and Food Security**



Thank you
