

The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search
http://ageconsearch.umn.edu
aesearch@umn.edu

Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.

U.S. Department of Agriculture

Agricultural Outlook Forum 2005

February 25, 2005

FIGHTING INVASIVE ALIEN SPECIES IN BRAZIL

Dr. Silvia Ziller, Founder and Executive Director Instituto Horus de Desenvolvimento e Conservação Ambiental



Fighting invasive alien species in Brazil

Dr. Sílvia Ziller, Founder and Executive Director



Fellow Ashoka Innovators for the Public





THE HORUS INSTITUTE

FOR ENVIRONMENTAL CONSERVATION AND DEVELOPMENT

Founded in March, 2002

in Florianópolis, Santa Catarina, BRAZIL

Mission:

Develop alternatives in environmental conservation integrated with social and economic development, production systems and the daily life of people.

Focus: invasive alien species

sustainable use of native biodiversity as

alternatives to replace aliens

Initial support: Ashoka Social Entrepreneurs



THE HORUS INSTITUTE

FOR ENVIRONMENTAL CONSERVATION AND DEVELOPMENT

Action:

Generate data and information systems on IAS

Control IAS in the field

Awareness and capacity building

Influence public policies and action at federal

and state governments

Disseminate information through the press

Build Brazil network to work against IAS

Network: GISP, GISIN, ISSG/IUCN, IABIN/USGS - I3N, Ashoka

Partners: The Nature Conservancy, Universidad del Sur Argentina,

IDEAAS, Liga Ambiental, Brazilian NGOs

The first website on invasive species in Brazil

www.institutohorus.org.br



SOUTH AMERICA CONSERVATION REGION

INVASIVE SPECIES PROGRAM FOR SOUTH AMERICA

Starting January, 2005

Action plan: Brazil survey of IAS (ongoing)

I National Brazilian Symposium on IAS

Official list of invasive alien species in Brazil

Improve forest management to control invasions

Adjustments in herbicide labels for control of IAS

Integration with GISP / I3N / ISSG / GISIN

Disseminate database/survey to other countries

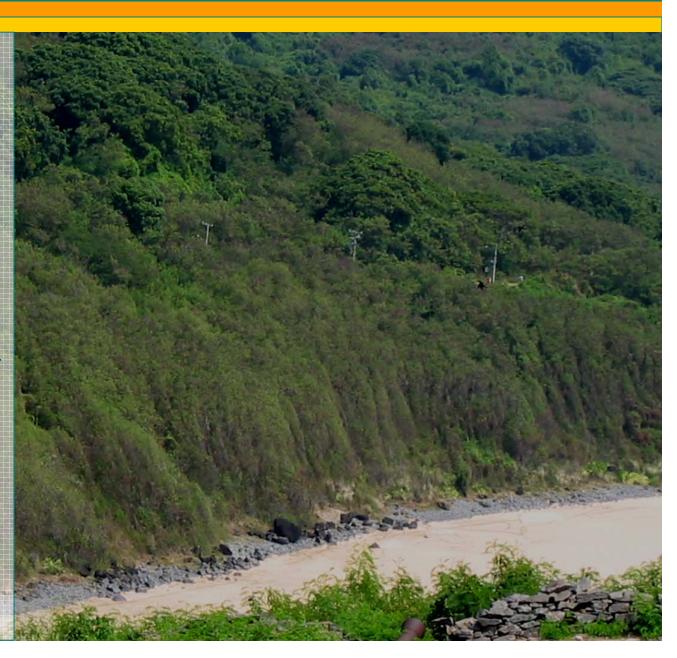
Improve prevention strategies

Build regional network for work against IAS

http://tncweeds.ucdavis.edu/

The context of IAS in Brazil

Scarce awareness No council Not part of professional courses Scarce action Scarce research Promotion of IAS for development No weed risk assessment includes environmental variables



Causes of introduction in Brazil

Horticulture: 32%

Food: 24%

Forage: 12%

Forestry: 8%

Soil erosion control: 4%

Total: 86.5%

Accidental: 13.5%

Number of species: 167





Information

Awareness

Regulations



Information

National survey on IAS supported by Ministry of Environment (influence of GISP regional workshop in 2001)

DATABASE FOR WEB ACCESS

- Species description and origin
- Places of occurrence in Brazil and elsewhere
- Habitat invaded
- Description of invasion
- Impacts
- History of introduction
- Control methods
- Data providers and experts
- References

Cyrsium vulgare

PHOTO BANK

I Brazilian Symposium on IAS October 2005, Brasília, Brazil

Leveling concepts and science
Capacity building
Data collection to improve survey
Scientific papers

Encouragement of research
Side events: polemic issues – IAS of

commercial value; herbicides for conservation; regulations

Issue of national relevance
Support from Ministry of Environment
Federal Environmental Agency - IBAMA





AWARENESS

Average 2 lectures/month in 2004: universities, scientific events, extension courses and government meetings

Media: newspapers, magazines, TV and radio; increased visits to website



Lagoa do Peixe National Park, RS - Brazil

Regulations

Convention on Biological Diversity
National Policy on Biodiversity
(with influence from GISP workshop)

Environmental Crime Law Rare legal resolutions on some species

MISSING
Official list of IAS to back up the laws

ACTION

Forum on IAS and Sustainable
Development in Rio Grande do Sul
Parana State Environment Council





Control of IAS in 100,000 ha of Atlantic Forest

Legal preservation areas

Espírito Santo / Bahia, Brazil

Species are:

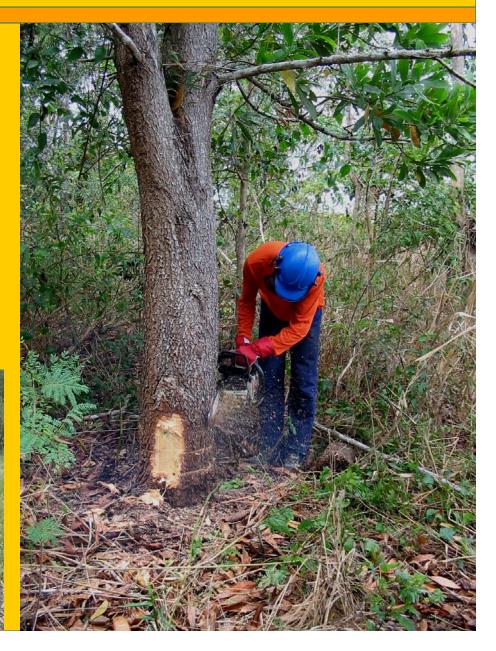
Acacia mangium - wattle

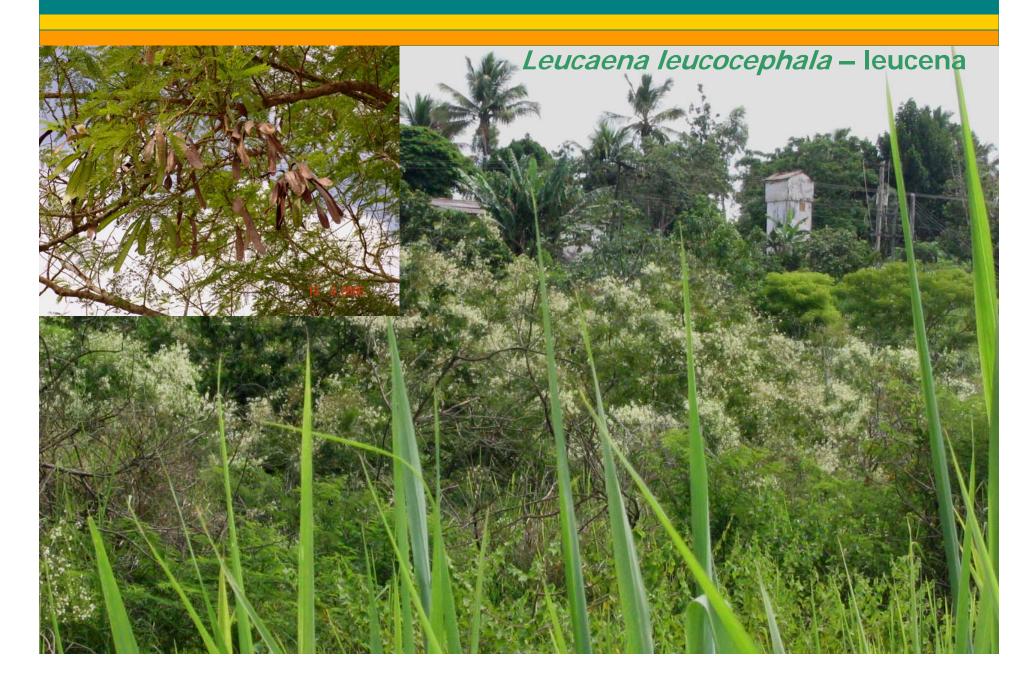
Elaeis guineensis - oil palm

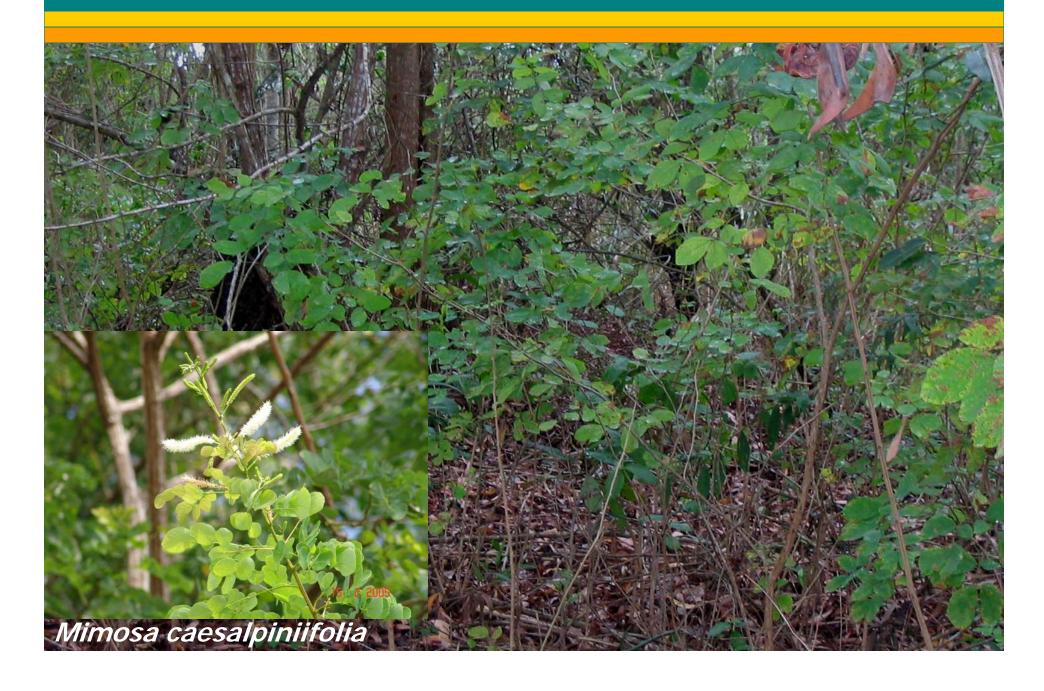
Leucaena leucocephala – leucena

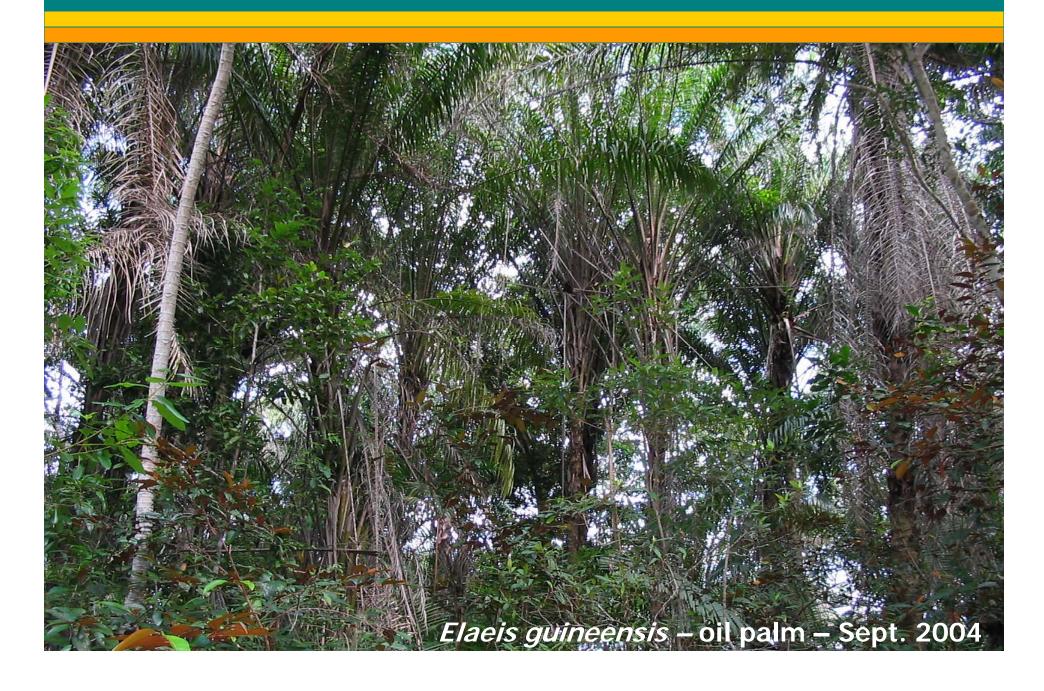
Mimosa caesalpiniifolia





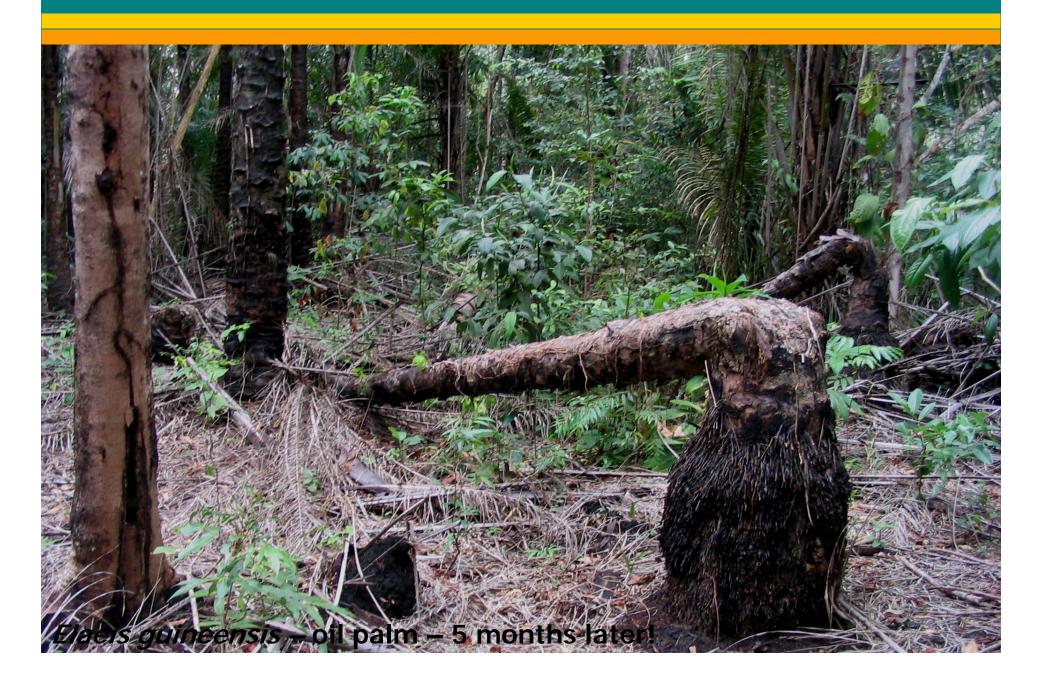












SURPRISE: the forest is coming back!

GIVING THE ATLANTIC FOREST A SECOND CHANCE! ALL TREATED OIL PALMS DIFD! STRONG REGROWTH OF NATIVE **SPECIES MORE LIGHT FOR PIONEER** SPECIES, BUT LESS OIL PALM SEEDLINGS!





For more information, please visit:

www.institutohorus.org.br

http://tncweeds.ucdavis.edu

or email us at

contato@institutohorus.org.br

THANK YOU!

Silvia Ziller, The Horus Institute, Brazil