


Analytic Hierarchy Process for Prioritization of Exotic Plant Pests and Pathogens






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Early Detection


- High cost of introduced plant pests
- Benefits of early detection

Cooperative Agricultural Pest Survey (CAPS)



- USDA APHIS and State Departments of Agriculture
- Early detection of exotic plant pests
 - ◆ Arthropods
 - ◆ Weeds
 - ◆ Pathogens
 - ◆ Mollusks




Identifying High Priority Pests

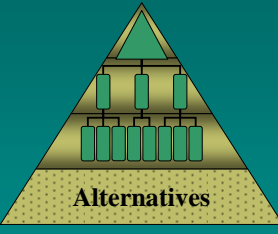


Prioritization Method Needs

- Dynamic
- Incorporate subjective and objective data
- Scientifically defensible
- Transparent
- Adaptable process to meet changing needs



Analytic Hierarchy Process



Pest Universe (139 pests)

Focus: Exotic or limited distribution

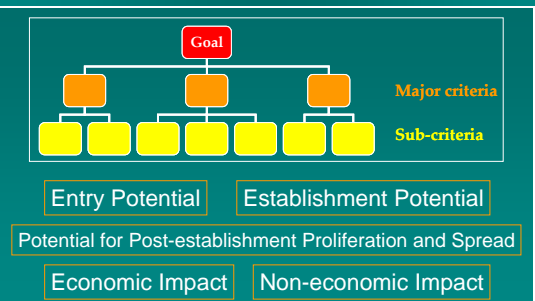
- Professional Society Pest Lists
- APHIS Pest Lists
- NAFC Exotic Forest Pest Database



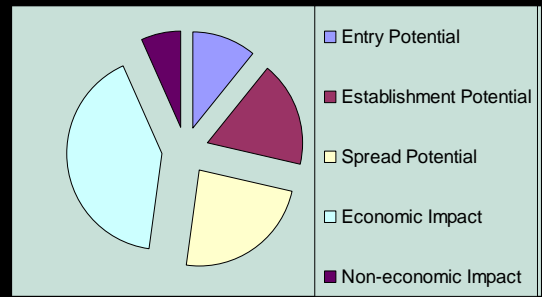
Criteria Development



Criteria Hierarchy



Priorities of Major Criteria



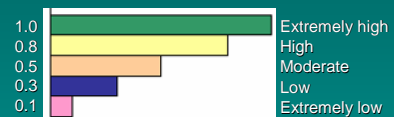
Pest Evaluations

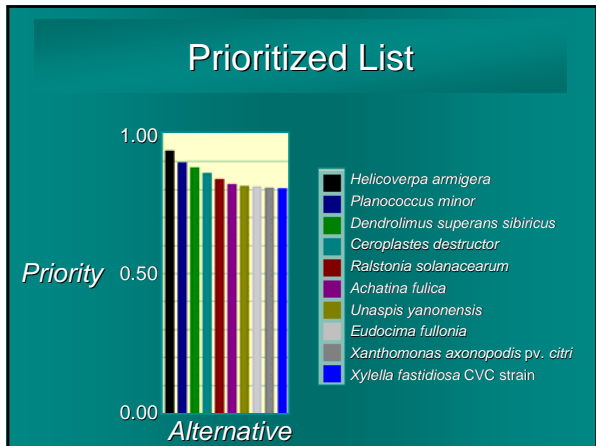
- Questionnaire
- 32 subject matter experts



Pest Evaluations

The pest's reproductive potential is:





View for the Future

- CAPS Program
 - ◆ Subgroup for pest prioritization
 - ◆ Peer review of pest evaluations
 - ◆ Online access
- Other Programs/Projects

CPHST Pest Prioritization Team

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