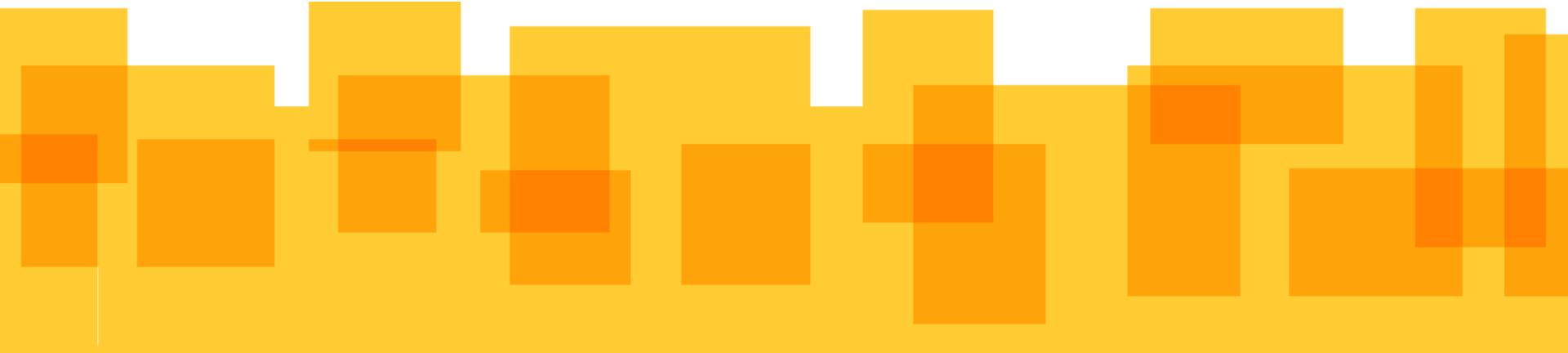


The Minnesota Invasive Terrestrial Plants and Pests Center: Research for Results



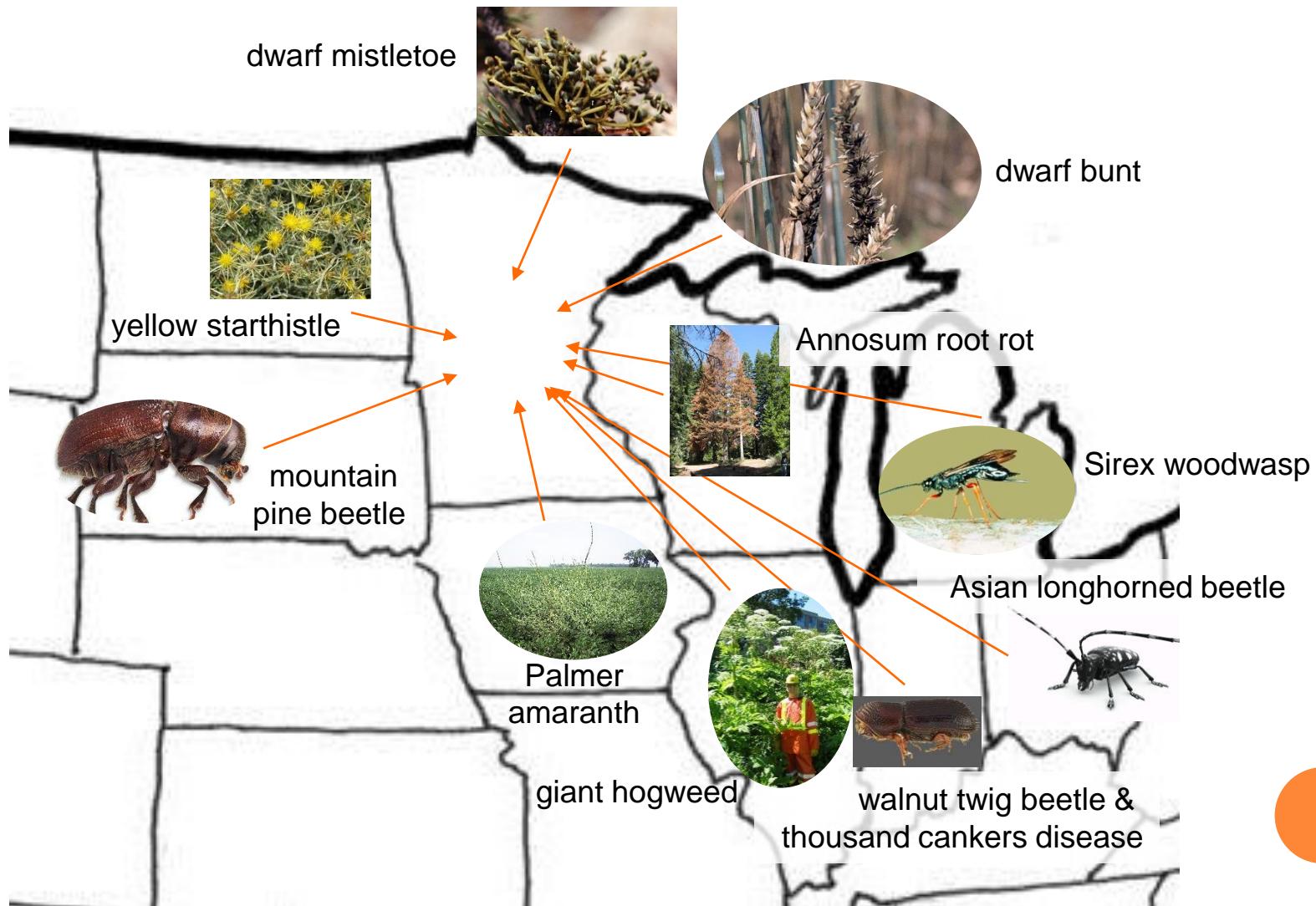
Dr. Rob Venette, Director
Ms. Heather Koop, Associate Director

UNIVERSITY OF MINNESOTA

Overview

- Terrestrial invasive species as an issue (brief)
- History of MITPPC
- Initial prioritization and project selection
- Expanded prioritization and project selection

Terrestrial invasive species, a growing costly problem for Minnesota



Legislation to create MITPPC passed in 2014

“The purpose of [MITPPC] is to research and develop effective measures to prevent and minimize the threats posed by terrestrial invasive plants, pathogens, and pests, including agricultural weeds and pests, in order to protect the state’s native prairies, forests, wetlands, and agricultural resources.”

[ML 2014, Ch. 312, Sec 44]

Key points

1. University of Minnesota
2. Research!
3. Outcome based
4. All lands (including wetlands)
5. All terrestrial invasive species



Allocations to MITPPC from ENRTF

- FY2014 - \$1.46 million
- FY2015 - \$5.00 million
- FY2016 - \$3.75 million
- Funding scheduled to end in 2022
- Center Operations funded through a separate allocation from the General Fund in FY2014
- Damage from invasive species is expected to cost more than \$24 billion over the same time period (two story house = our Center vs 3.5 times the tallest building in the world = damage from terrestrial invasives).

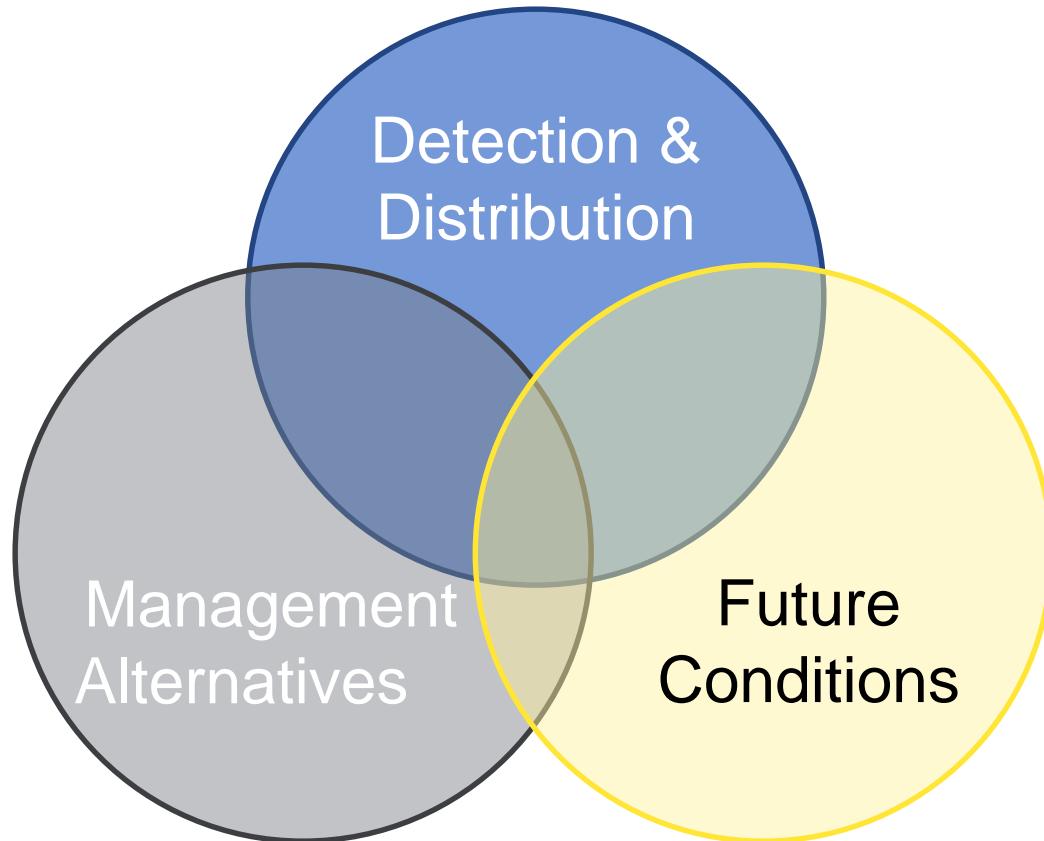
More than just extra funding: MITPPC adds value

- Prioritization
- Coordination
 - New teams
 - New talent
- Integration
 - University-wide
 - Stakeholders
- Preparation
 - Grad. students & postdocs
 - Moving beyond “one-off” projects
- Communication



University Research and
Outreach Centers

Priority topics for MITPPC: 2015



Initial research projects



Oak wilt:
New diagnostic technologies



Buckthorn:
New, sustainable
management



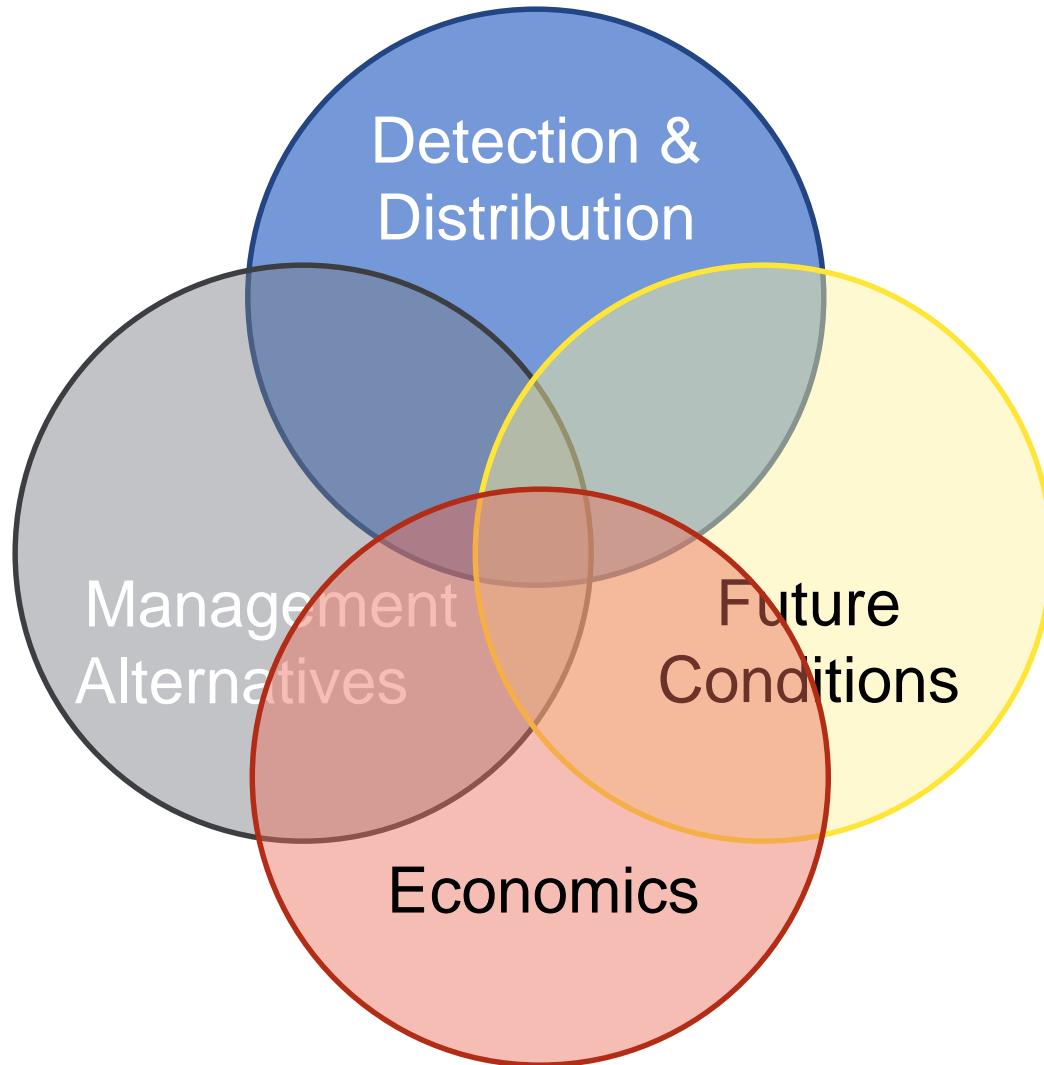
Brown marmorated stink
bug: Detection, distribution
and forecasts



Nine noxious weeds:
Current and future
distribution



Priority topics for MITPPC: 2016



124 Species were analyzed in ExpertChoice

http://comparison.expertchoice.com/Comparison.aspx#/Project/ Evaluate Project («MITPPC ...

Expert Choice® Workgroup: MITPPC, University of Minnesota Project: MITPPC Threat Comparison The project is OFFLINE Heather Koop Resource Center ? FAQ 🔍 Logout

Structure Measure Synthesize Allocate Iterate Reports

Rate the preference of *Phytophthora cinnamomi* given the following objectives

Phytophthora cinnamomi **Proximity to MN** **Phytophthora cinnamomi WRT Proximity to MN**

Objectives	Intensity Name	Priority
Proximity to MN	Very High	100%
Existence of Pathways	High	75%
Innate Dispersal Capacity	Moderately-Low	50%
Climatic suitability	Negligible	25%
Presence of hosts	High	100%
Hybridization/Host Shift	Medium	66%
Existence of Pathways	Medium	66%
Dispersal Capacity	High	100%
Extent of Invasion	Moderately-Low	40%
Existence of Vectors (Non-human) to Facilitate Spread	Low	50%
Problem Elsewhere	Medium	66%
Impacts to Yield or Marketability	Low	33%
Costs of Quarantine or Other Mitigation	Low	33%
Impacts to Recreation or Real Estate (Aesthetic impacts with economic consequences)	Low	33%
Consequences to native species	2	50%
Consequences to ecosystem services	0	13%
Impact to Human Health	0	14%

Proximity to MN

Intensity Name: Medium

Priority: 50%

Scale description

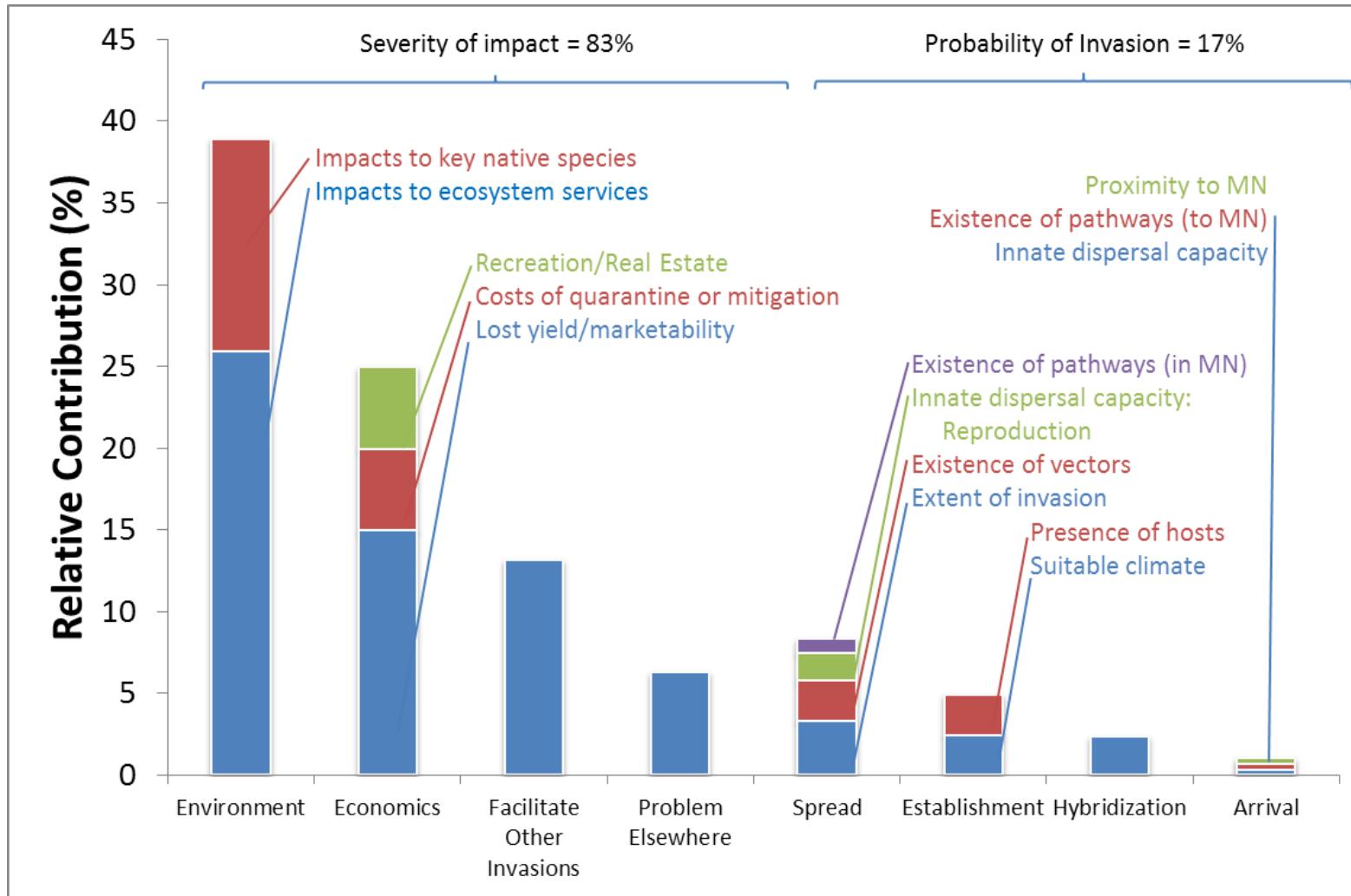
Navigation Box

Steps: 1 ... 152 153 154 155 156 157 158 159 160 ... 166 Evaluated: 2263/2263

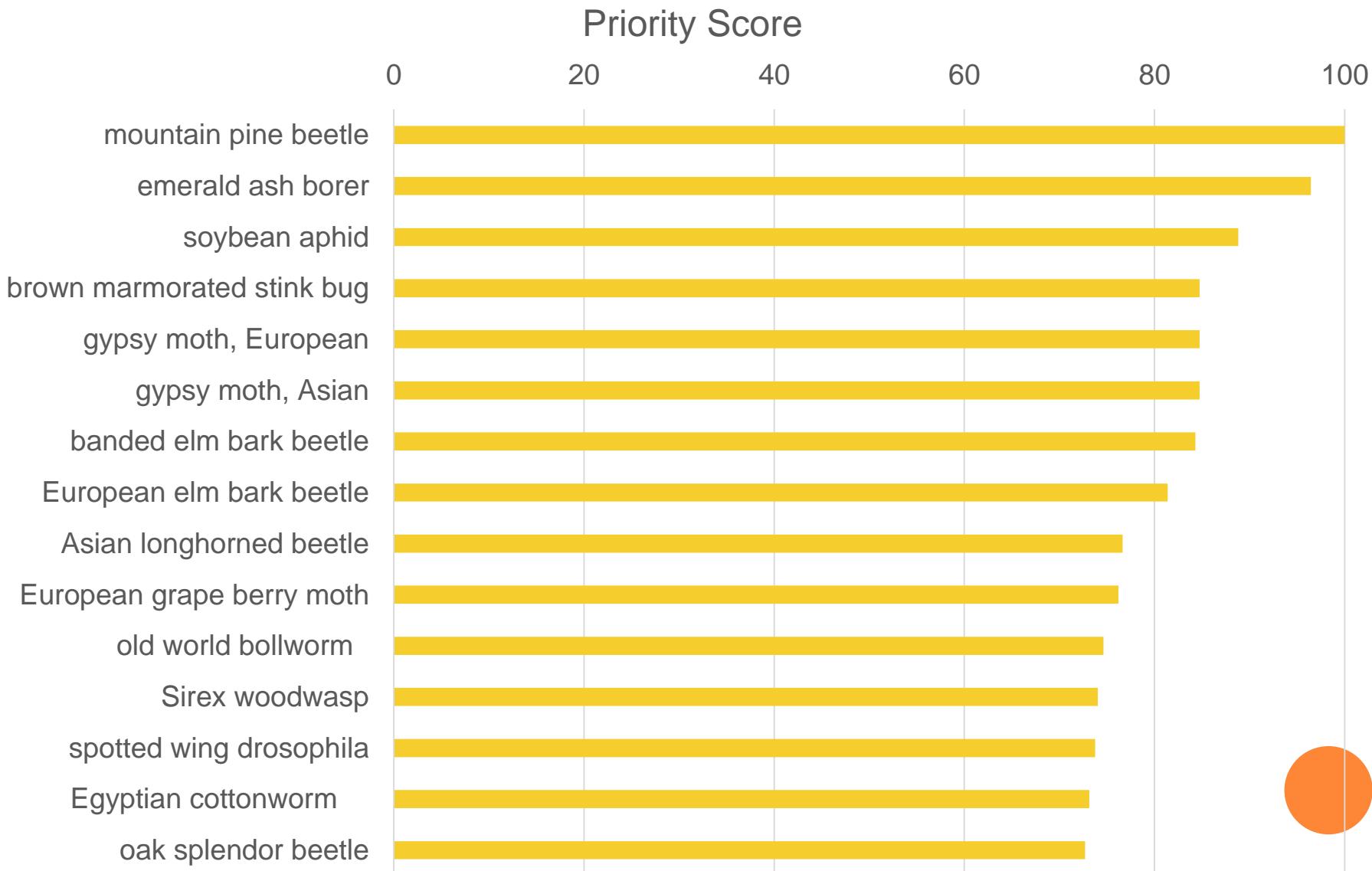
Next Unassessed Previous Next

English Release Notes Project status: Available but offline Version: 5.40.11

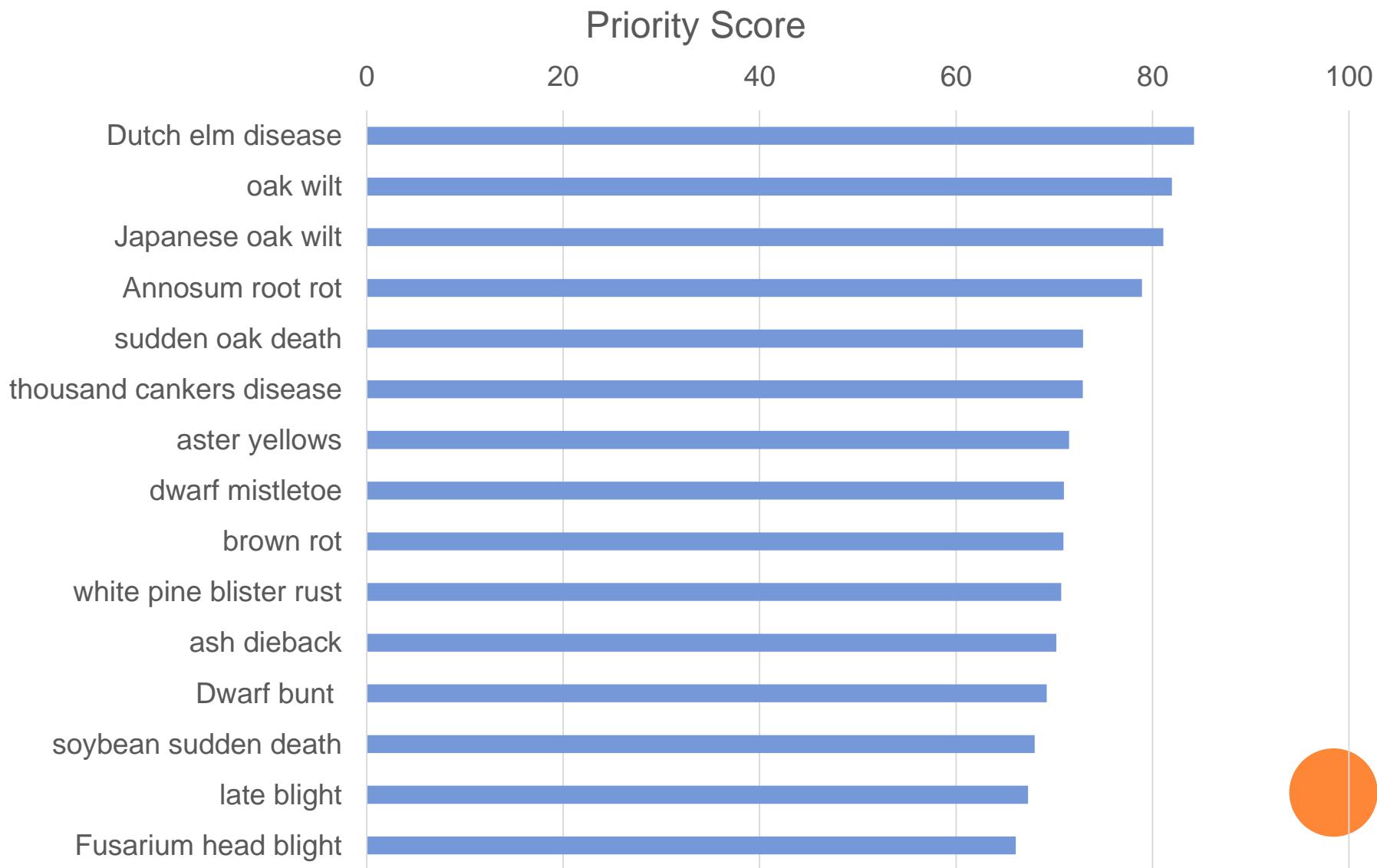
Final importance assigned to each criterion



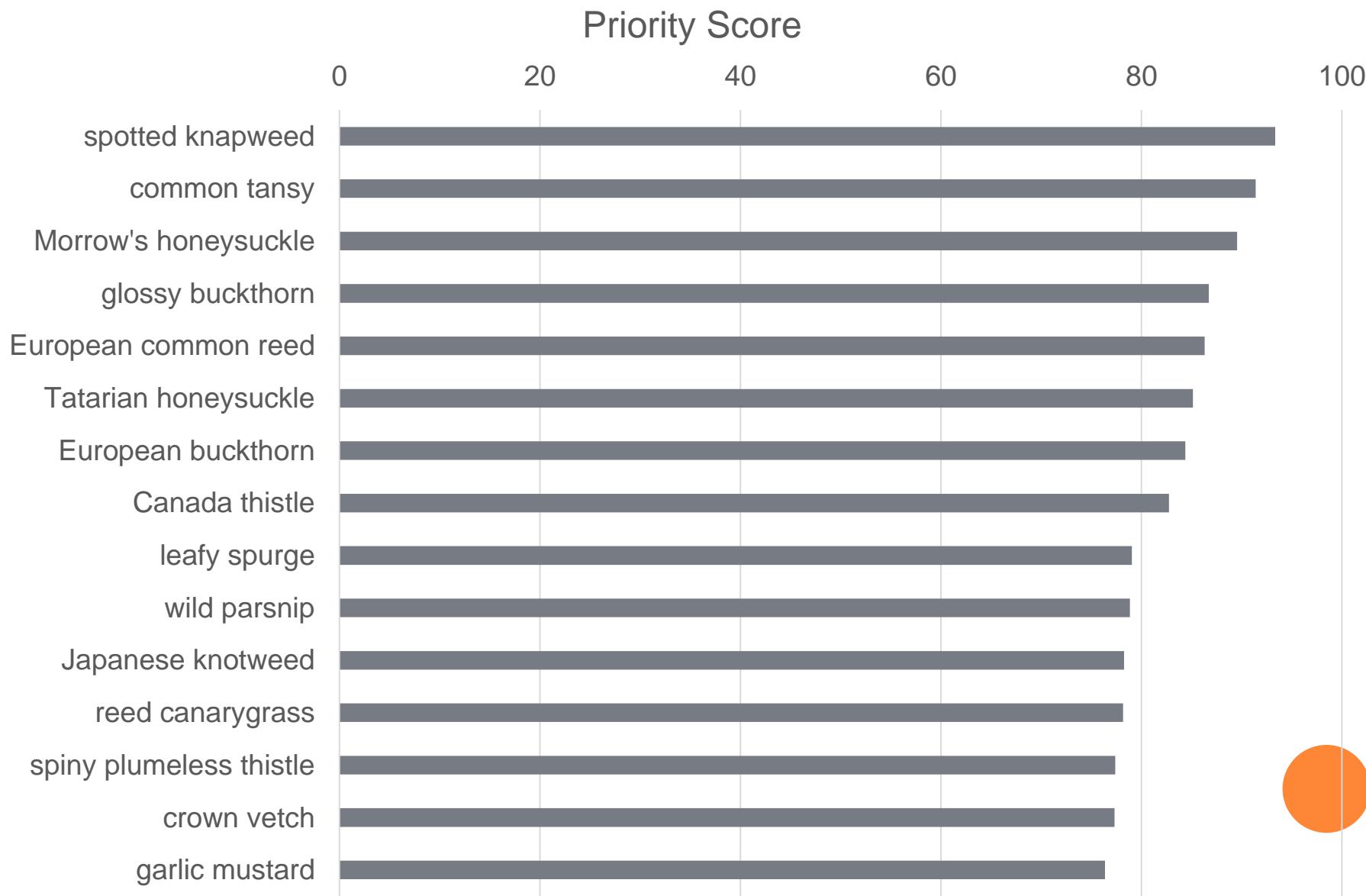
Top 15 insects



Top 15 Diseases



Top 15 Plants

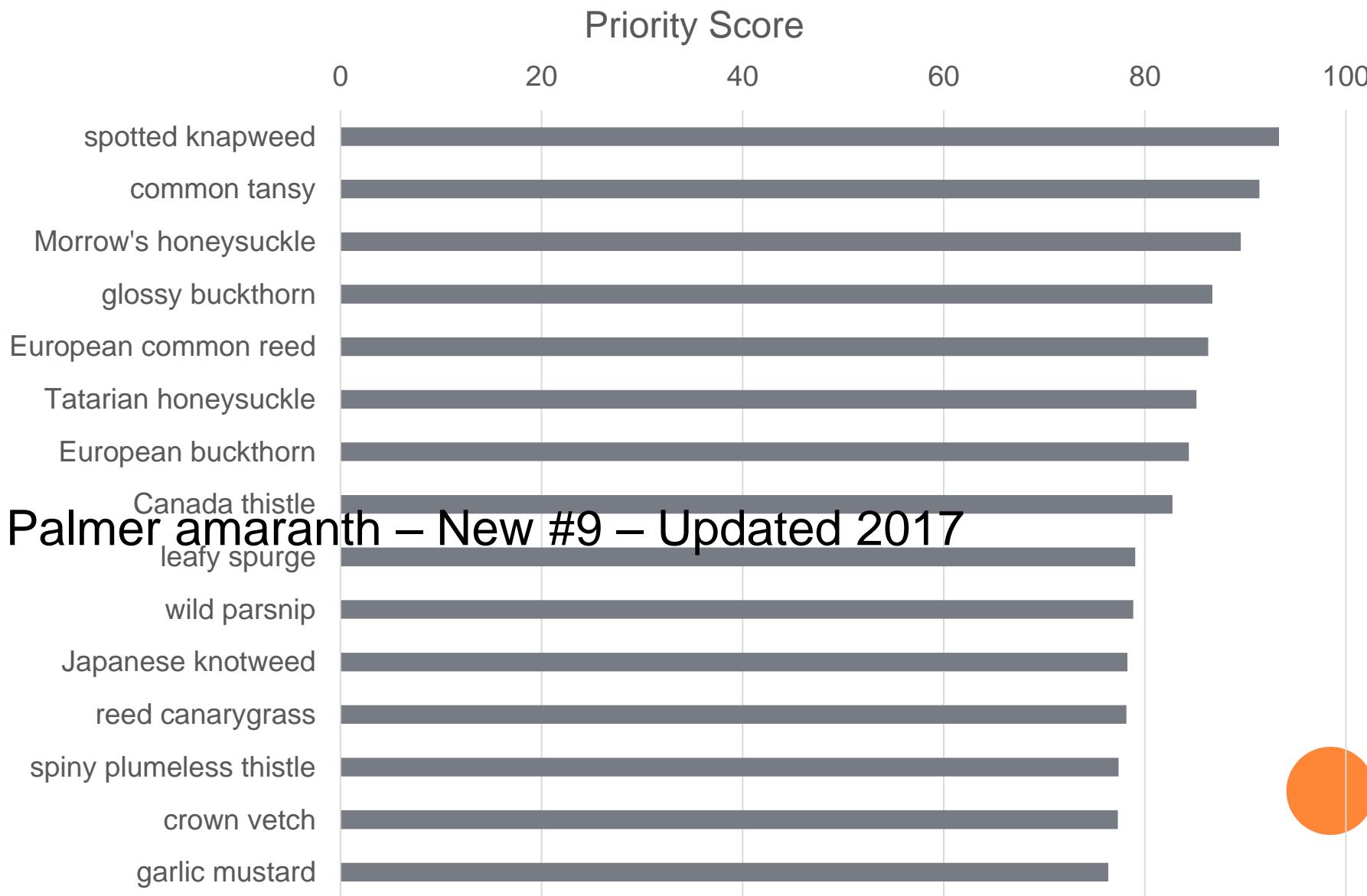


New projects for FY17

- 11 new projects funded with M.L.2015 ENRTF
- \$4.5 million in total project funding
- New forestry-related projects
 - Dispersal of larval gypsy moth
 - Emerald ash borer & “herd immunity”
 - Landscape detection of oak wilt
 - Buckthorn & bush honeysuckle
 - Mountain pine beetle
 - Garlic mustard biocontrol



Top 15 Plants





**ENVIRONMENT
AND NATURAL RESOURCES
TRUST FUND**

Thank you to the following
organizations for their
support of MITPPC

College of Food, Agricultural
and Natural Resource Sciences

UNIVERSITY OF MINNESOTA



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