

2010 PSW Research Needs Assessment

Forestry Results

Organizing Concept

Rizzo DM, Garbelotto M, Hansen EM. 2005. *Phytophthora ramorum*: integrative research and management of an emerging pathogen in California and Oregon forests. Annu. Rev. Phytopathol. 43:13.1-13.27

- Pathogen characterization
- *Phytophthora ramorum* in forests
- Determination of impacts
- Management actions

Forestry Results

Category	Expert				Public			
	1	2			1	2		
	% of 81 responses	Rank	Mean	SD	% of 173 responses	Rank	Mean	SD
<i>Evaluation of management approaches</i>	25	1	4.70	0.47	28	3	4.20	0.82
<i>Spread in forests</i>	32	2	4.52	0.90	32	1	4.39	0.69
<i>Eradication & remediation</i>	6	3	4.13	1.10	1	2	4.22	0.98
<i>Detection & diagnostics</i>	5	4	3.91	1.06	7	4	4.03	0.99
<i>Ecological impacts</i>	9	5	3.70	0.93	17	5	4.01	0.79
Host plants (including resistance)	9	6	3.34	0.97	5	7	3.68	0.95
Human dimensions of management (regulatory and policy)	2	7	3.30	0.97	5	9	3.44	0.98
Restoration	7	8	3.22	1.00	3	6	3.75	0.98
Social & economic impacts	4	9	3.04	0.88	0.5	10	3.15	1.02
Pathogen characterization	2	10	3.00	0.95	2	8	3.49	1.03

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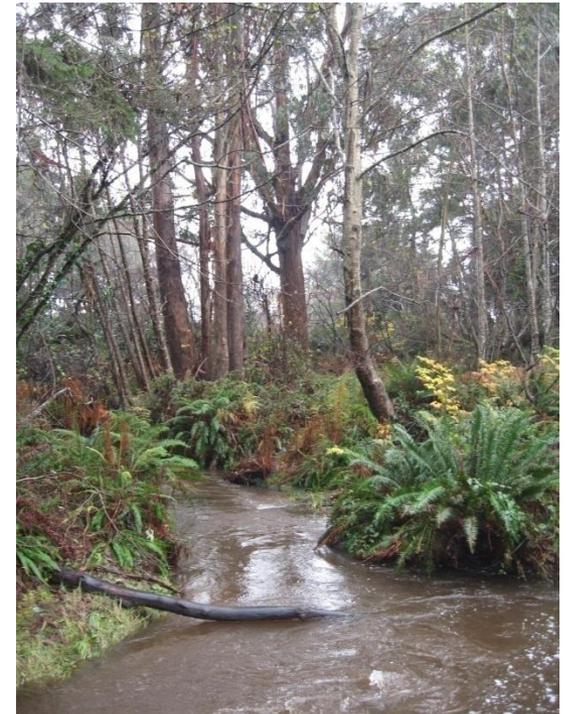
Interesting themes

- High level of concern about spread of disease in eastern U.S. forests—especially among public respondents



Interesting themes

- Interest in soil and water as inoculum reservoirs and their possible role in facilitating disease spread



Interesting themes

- Continued uncertainty about risk of spread via wood, esp. firewood



Interesting themes

- “Modeling multidecadal recovery of ecosystems based on resistance and effects of lowered inoculum from death of foliar hosts or their deliberate removal.”



Interesting themes

- Management research suggestions centered on four components:
 - Prevention
 - Eradication
 - Mitigation
 - Restoration



Interesting themes

- The greatest impact-related interest centered on these two things:
 - Wildlife
 - Fire risk



Photo courtesy Kerri Frangioso, UC Davis

Interesting themes

- Among public and experts alike, there was relatively low interest in human, social, and economic dimensions of SOD as a topic for research.
 - Few social/economic/policy researchers among respondents?
 - A perception that these subjects don't require the same kind of "research" with the same kinds of funding needs?
 - A perception that this kind of research is peripheral to disease management?

Conclusions

1. In general, public responses were very similar to expert responses
2. Not a lot of brand-new issues were identified
3. In general, “applied” research was highly valued; there was a heavy management orientation to responses