



Working Across Cultures

Western Region Tribal IPM Work Group

Nina Hapner, Kashia Band of Pomo Indians

8th International IPM Conference

Salt Lake City, Utah

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Western Regional IPM Work Group

 Multi-tribal/multi-agency workgroup

 Goals

 Increase communication.

 Work cooperatively.

 Find management solutions that minimize impacts.

 Preserve native natural resources.



Mission

Protect Tribal natural and cultural
resources through understanding



Activities

Five meetings

-  Big Valley Rancheria, September 12, 2013
-  SCIHP, November 15, 2013
-  Yurok Tribe, February 25, 2014
-  Nevada, October 29, 2014
-  Pala Band of Mission Indians, August 19, 2014
-  TEK Work Shop, November 19, 2014

Participants

-  Tribal communities
-  Research organizations and government entities



Outcomes

- 🌰 Current invasive pests information
- 🌰 Expanded understanding
- 🌰 Review of IPM management strategies
- 🌰 Broader tribal participation in IPM
invasive species management in the
western U.S.
- 🌰 Future potential projects and funding
that will benefit all parties



Results of Needs Assessment Survey

- 🍪 IRB-approved survey
(<http://ucanr.edu/survey/survey.cfm?surveynumber=12917>)
- 🍪 Participation across meetings at various California locations, as well as via an online version of the survey
- 🍪 64 responses, almost evenly split between tribal (30) and non-tribal (32) participants



Top invasive species of concern, currently and for the future,
among the entire Work Group

goldspotted oak borer (*Agrilus auroguttatus*)

sudden oak death (*Phytophthora ramorum*)

polyphagous shot hole borer
(*Euwallaecea* species vectoring *Fusiarum euwallacea*)

broom and gorse (*Cytisus*, *Genista*, and *Ulex* species)

star thistle (*Centaurea* species)

mistletoe (*Phoradendron* species)

tamarisk (*Tamarix* species)

beetles

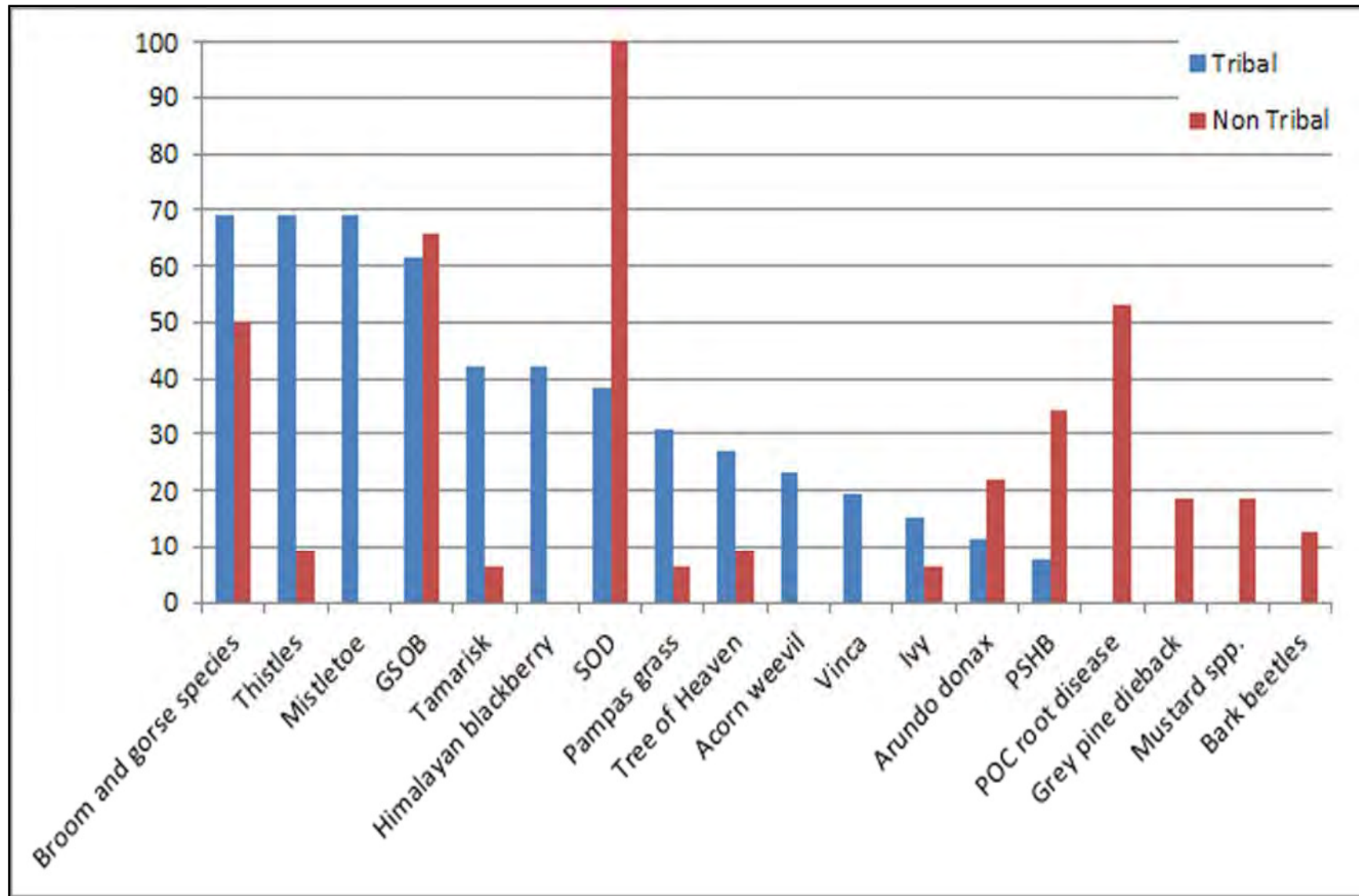
giant reed (*Arundo donax*)

laurel wilt (*Raffaelea lauricola*)

- 🍷 Tribal concerns for current pests distinctly different from non-tribal respondents.
- 🍷 While overlap on more than half of the responses, over 40% of the responses from one group were not included by the other.
 - 🍷 Tribal responses included 4 unique pests (mistletoe, Himalayan blackberry, acorn weevil, and vinca).
 - 🍷 Four pests mentioned by non-tribal participants were not included in any tribal responses.
 - 🍷 Even among the species that were agreed upon, the amount of importance each group gave an individual pest differed greatly.



Most Important Invasive Species Currently Impacting Natural Resources



Apparent differences in knowledge and practice of IPM techniques.

Knowledge and practice of IPM techniques, by group				
	n	Are you familiar with IPM techniques?	Do you practice IPM techniques?	Are you actively managing any of these pests?
Total	64	76%	65%	69%
Tribal	30	57%	38%	48%
Non- Tribal	32	94%	96%	90%



🍂 Consider: Is the definition of IPM clear?



Limitations to management action		
	Tribal	Non Tribal
Money/funding	20	22
Knowledge	12	3
Environmental concerns	3	--
Approval of community/ neighbors	3	--
Regulations	--	4
Public opinion	--	2



Connections



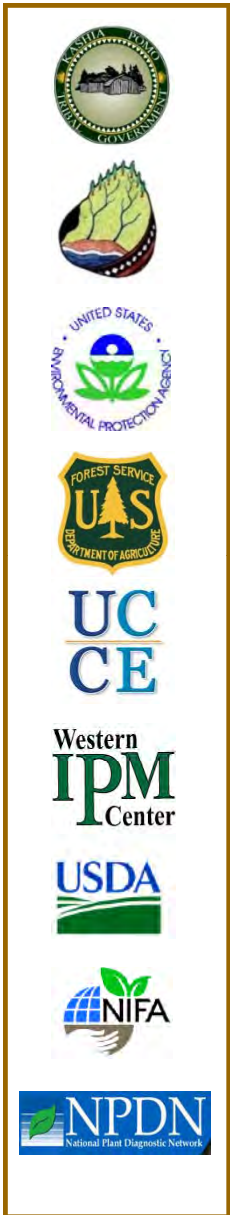
What's Next?

- 🍪 Localized workshops in communities
 - 🍪 Received funding from Western IPM Center - Sharpening Tribal Skills in Forest Pest Detection and Response.
 - 🍪 Focus: SOD, PSHB, GSOB and field guide
- 🍪 More tribal IPM projects
- 🍪 Weave our Traditional Ecological Knowledge through mainstream IPM management policies



Work Group Base

- ❁ Kashia Band of Pomo Indians
- ❁ USDA-Forest Service, Pacific Southwest Research Station
- ❁ University of California Agriculture and Natural Resources, Cooperative Extension, Marin County
- ❁ Western Integrated Pest Management Center/Western Plant Diagnostic Network
- ❁ US EPA Region 9 Pesticide Programs



Funding

Western Integrated Pest Management Center

<http://www.wrpmc.ucdavis.edu/>

Work Group Meetings Resources & Documents

<http://www.westernipm.org/index.cfm/center-projects/project-websites/tribal-work-group/>

USDA Farm Bill, FY14-15





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Questions?

