

CALIFORNIA INVASIVE SPECIES ADVISORY COMMITTEE (CISAC)
Invasive Shot Hole Borer Sub-Committee
Survey – Early Detection and Rapid Response

Tuesday, April 2nd, 2019

Meeting Notes

Meeting Action Items

- **Next Meeting: Tuesday, April 16, 2019, 2:00pm-4:00pm**
- **Working Group:**

Sub-Sub-Committee	Charge	Participants
Trapping Next meeting: April 9th 2019 2-3pm.	Develop plan for trapping, including: <ul style="list-style-type: none"> ● Where – high-priority areas ● Where data should go, and who will get it there ● Actions/response to new detections 	Coordinator: Andrea Hefty Participants: Curtis Takahashi, John Kabashima, Madeleine Rauhe, Matt Kaiser, Ed Williams
Visual Surveys. Will continue via Email.	Develop protocol for tiers of surveys, including: <ul style="list-style-type: none"> ● Expertise for each tier ● Tools ● Reporting mechanisms ● Where data should go, and who will get it there 	Coordinator: Rosi Dagit Participants: Kim Corella, Sabrina Drill, Gretchen Heimlich, Beatriz Nobua-Behrmann, Jamie Whiteford, Abigail Barraza, John Kabashima, Curtis Takahashi
Rapid Response: Next meeting: April 11th 2019 10am.	<ul style="list-style-type: none"> ● Develop protocols for removal of highly infested trees in wildlands. ● Public outreach ● Regulator authority ● Funding 	Coordinator: Ed Williams Participants: John Kabashima, Chris Shogren, Rosi Dagit, Madeleine Rauhe, Andy Cline, Kim Corella

Other Action Items:

- **Tom Smith** will look at Calflora data for a Box Elder layer (amplifier tree).
- **Trapping Working Group** Collaborate with Green Waste Pathways Working Group to develop protocols regarding trapping around Green Waste Facilities.
- **All** review Visual Surveys Working Group report and send Rosi Dagit comments on the document by the end of next week (April 12th)
- **Alexey Tishechkin** loop in Dr. Stephen D. Gaimari
- **Kim Corella** will investigate Cal Fire's ability to remove infested trees.
- **Michael Scholl** Set up Webinar for Subcommittee meetings. RRP
- **Rosi Dagit** will contact Rose, an arborist, to invite her participation and background her.

- **Kevin Turner** will share Mountain Area Task Force incident action plans. – Sent to Ventura, will send to Andrea Hefty, Ed Williams and Rosi Dagit.
- **All:** send Rapid Response Plan examples to Rosi Dagit and David Pegos – **DONE**
 - **Matt Kaiser and Curtis Takahashi** developed draft protocols and sent them to Andrea Hefty and Ed Williams. - **DONE**
- **Rosi Dagit/David Pegos:** distribute RRP examples to Survey Sub-Committee members, including Oregon example – Stacy Hishinuma sent it to Rosi Dagit
- **Rosi Dagit** will share her draft RRP once prepared (by end of April)
- **Kyle Beucke** will share an RRP example - **DONE**
- **Matt Kaiser** will share an RRP example - **DONE**
- **David Pegos** will identify for April 2 if the CDFA lab has capacity to handle samples
- **David Pegos** will work with **Sean Farnum** and **Curtis Takahashi** to determine whether a draft version of statewide insect trapping guide content regarding SHB is sufficiently finalized to share.

Meeting Proceedings

4. REVIEW OF THE SUB-COMMITTEE MISSION

Background

David Pegos of CDFA presented background for the convening of the subcommittees. In January of 2018 the ICSAC convened a statewide summit. Out of the summit came suggestions that were incorporated into AB 2470, signed by the governor in 2018. The bill allocated \$5 million for a coordinated statewide effort against invasive shot hole borers (ISHB). The funds are ready to be disbursed and four subcommittees are tasked with advising how the funds should be allocated and helping develop the RFPs. Each subcommittee will meet four times at two-week intervals, while taking actions between meetings due to the tight timeline. This is the second of the four meetings. After the fourth meeting Shannon Lynch will compile the consensus of the subcommittees into a single report document. Simultaneously the subcommittees will utilize boilerplate RFP language from CDFA and CAL FIRE to begin developing the RFPs which will be discussed in a fifth meeting.

5. SUB-COMMITTEE BUSINESS/DISCUSSIONS: Development of ISHB Action Plan

Trapping Working Group

Email Andrea Hefty if you are interested in joining the trapping working group.

Created a list Actions/response to new detections. Andrea Hefty walked the subcommittee through Climate Map model that could be used to decide placement of traps. Values above 20 are areas where the insect can survive well. The map showed Red and Orange areas where they climate is modeled to be good for the bug while yellow and blue areas are areas where it would have a harder time surviving. Andrea Hefty noted that the map helps define a northern edge that may be good to focus on. The data is getting refined so that the northern edge can be more clarified.

- Is the model based on experimental data or current distribution?
 - a. The model currently uses both experimental and current distribution

2. Concerns about the climate model
 - a. There was concern that using current distribution data may not encompass the fact that the species has not reached equilibrium yet.
 - b. There was a further concern that since the beetle reproduces inside the tree that it may not be as subject to climate effects.
 - c. A climate based model may not accurately look at how the beetle is moved by human locomotion.
- If we are not going to prioritize by climate then what method will we use to prioritize?
 1. It was suggested that host suitability should be included in the modeling.
 2. NASA may have area satellite data that has tree types.
 3. **Action Item: Tom Smith** will look at Calflora data for a Box Elder layer (amplifier tree).
- **Action Item: Dr. Kabashima** will reach out to Dr Paine regarding risk models
- Trapping group will continue work on trapping map.
- **Action Item:** Collaborate with Green Waste Pathways Working Group to develop protocols regarding trapping around Green Waste Facilities.
 1. Suggestion that firewood dumps and campgrounds be added to the list of trapping areas.
 2. Previous trapping in state parks found that increased infestations around camp grounds and maintenance yards.
 3. Biomass facilities in Fresno area bringing biomass waste from Los Angeles area pose a risk and need trapping.
 4. Visual surveys to fill in the gaps.
- The working group felt that trapping in Wildland riparian corridors and using visual survey more in the urban forest. The Ag Commissions may have the infrastructure for this as they trap for other invasives.
- People currently doing trapping in Riparian areas:
 1. Boland
 2. Fish and Wildlife
 3. Lynch
- **Sheri Web** asked if the map at PSHB.org is up to date with current trapping.
 1. There has been some interagency surveys to figure out gaps in trapping.
 2. Beatriz Nobua-Behrman is updating the map with data that is being sent to her and it is up to date with all the information they have received.
 3. The map does not use a grid or transact system, it uses the information that is reported to UC ANR.
 4. Some traps are set up in a grid, such as traps along the El Capitan River and Shannon's data.
 - Shannon Lynch's system might be a good model to use as protocols for riparian areas.
 - High value trees, sensitive species, erosion control, protected native fish, historical value.
- **Matt Kaiser:** wood boring survey focuses on ports of entry, campgrounds, and green waste receivers.

- Clarifying question, is there a protocol for spacing the traps. The traps usually have a spacing for the lures to not to interfere with each other.

Visual Survey Working Group

Started by thanking everyone in the sub-committee. The report represents a great collaborative effort.

Action Item: All please send Rosi Dagit comments on the document by the end of next week.

Targeting trained professionals and training them regarding material already developed by UC ANR And Emerald Ash materials developed by Purdue University. Create an online tool similar to the Emerald Ash tool produced by Purdue. Have a lead agency identify areas of concern vs opportunistic reports.

- Jessika presented on TreeKeeper 8 a Davey proprietary tool can be used as a reporting tool.
 1. 8th version. Jessika Mitchell has unlimited licenses. Admins can control people's permissions.
 2. Data Layers, trap, map, county layers
 3. Add polygons
 4. Madeleine Rauhe and Christopher Shogren from Disney both use TreeKeeper 8. Christopher expressed concerns that Treekeeper8 will need someone experienced to manage it.
- Community Science. Naturalists may provide a lot of data that then needs to be sifted through.
 1. Sycamore Protocol that was done with Master Gardeners.
 2. Reporting tools could either be iNaturalists or Qualtrics Survey.
- **Action Item:** Kim Corella will look into Cal Fire's ability to remove infested trees.
- Suggestion to use weed abatement ordinances.

Rapid Response Working Group

Ed Williams discussed templates that they pulled together. Mr. Williams Suggested that a Rapid Response Working group be added to focus in on turning the templates into protocols. Mr. Williams offered to lead the Working Group. Those interested in joining the working group were: Dr. Kabashima, Chris Oesch, Rosi Dagit, Madeleine Rauhe, Andy Richards, Kim Corella. Any others interested in joining the working group should contact Mr. Williams. Mr. Williams asked for feedback on the potential scope of the working group.

Suggestions included:

- Develop protocols for removal of highly infested trees in wildlands.
- Public outreach
- Regulator authority
- Funding

6. PUBLIC COMMENT ON ITEMS NOT ON THE AGENDA

- Alexey Tishechkin had audio issues. Please email in comments.
- Chris Shogren will try to get Collin from the Climax modeling in on the next call.
- Jessika Mitchell is excited about building momentum.
- Madeleine Rauhe wanted to make sure she was getting emails regarding working groups that she is on.

Next Meeting – Tentatively, Tuesday, April 16, 2019 from 2:00pm to 4:00pm

7. ADJOURNMENT

Meeting adjourned at 4:02 pm.

Meeting Participants

Participant	Affiliation
Dr. Andrea Hefty (co-chair)	U.S. Forest Service
Ed Williams (co-chair)	Ventura County Agricultural Commissioner
Kyle Beucke	CDFA
Kim Corella	CAL FIRE
Rosi Dagit	RCD of the Santa Monica Mountains
Sabrina Drill	UC Cooperative Extension, Los Angeles and Ventura counties
Curtis Ewing	CAL FIRE
Katie Harrell	Board of Forestry
Gretchen Heimlich	Disneyland
Stacy Hishinuma	U.S. Forest Service
John Kabashima	UC Cooperative Extension
Matt Kaiser	CDFA
Bill Kirk	Orange County Parks
Andy Cline	CDFA
Jessika Mitchell	Davey
Beatriz Nobua-Behrmann	UC Cooperative Extension
David Pegos	CDFA (Convener and facilitator)
Madeleine Rauhe	Disneyland
Joe Sheele	Customs and Border Protection
Michael Scholl	CDFA
Chris Shogren	Disney
Tom Smith	CAL FIRE

Sheri Smith	U.S. Forest Service
Robert Suzuki	
Alexey Tishechkin	CDFA
Kevin Turner	CAL FIRE
Jamie Whiteford	Ventura County RCD
Rhonda Wood	Disney
Sophia Yun	Orange County Agricultural Commissioner's Office