

## 20100304 KISC Roadside Survey Weekly Report

- 1) Neighborhoods/areas surveyed: Kalaheo, Lawai
- 2) Number nurseries/botanical gardens, etc. surveyed: Not an official survey, but walked some of the McBryde and Allerton Garden areas with Tim Flynn. Noticed some of the survey species (*Macaranga mappa*, *Costus speciosus*) but none that were not already known to be there.
- 3) Species of interest? (Is this something to panic about, or something that is just interesting to note?)

We've come across a few that could be targetable if we don't find more of them (nothing to panic about right away, but possibly so in the future):

***Paulownia sp.***- We're not sure of the species (the individual was dying back, and reduced to a stick with a few leaves hanging off of it.) We'll continue to map for *Paulownia* in order to determine whether it will be worthwhile to re-visit this individual for more photos and/or contact the homeowners.

***Muntingia calabura***- this plant was collected as naturalizing in Kekaha by Clay and Natalia. It received a score of 12 on the WRA. We spotted a couple individuals of questionably naturalized status along a concrete ditch near a home. This species could be a good candidate for control in the future, and we will continue to map for distribution.

***Melochia umbellata* (New island record)**- *Melochia* was spotted spreading in a localized upland area in Kalaheo, near a series of properties owned by one family. One of the homeowners inquired about what we were doing and showed a good deal of interest in identifying this plant and getting rid of it from his property. We will continue to look for this plant on future surveys- if it is found to have low island distribution, it may be an excellent candidate for removal.

***Piper auritum***- this rather large plant was seen outside a home in Kalaheo

***Clerodendrum macrostegium***- found naturalizing in a gulch in Kalaheo off of Lauoho Road.

***Cissus verticillata* (New naturalized record)**- This population was known to Tim Flynn, as well as a population in Koloa. It also has been collected from the NTBG gardens. This species is a nasty smothering vine on O'ahu, and if no new populations are discovered it may be a good candidate for future control.

***Dillenia cf. suffruticosa***- This was not a confirmed ID, but is likely. There is a plant in the Allerton garden which closely resembles this species which has become a major problem in windward O'ahu in the last decade or so, rapidly spreads. Tim said it hasn't spread in the garden. If no new populations are found elsewhere on the island we will confirm the ID of this potentially horrible weed.

Other notable species (but not candidates for control):

***Pennisetum setaceum* (Range extension?)**- a fairly localized population (40-50 individuals) of Pen set was found up a side road off of Kuli Road in Kalaheo.

***Schizachyrium condensatum***- This is a new island record of this horrible weed for Kauai, though you guys already know it's abundant here. This species is a can of worms/information- Last year Neil Snow and I looked at the specimens of all the various *Schizachyrium*'s and *Andropogon*'s in Hawaii (results were just published this week-

<http://hbs.bishopmuseum.org/pubs-online/pdf/op107p46.pdf>) and found that Sch con was only recorded from the Big Island. There have been many misidentifications in Hawaii for plants in these genera. The grass on O'ahu, being managed by OISC, was NOT Sch con, and was

actually *Andropogon glomeratus* var. *pumilus*. We also found that *And glo* was NOT known from Kauai, that all the Kauai material had been misidentified, and that it all was a match for *Andropogon bicornis*, a mostly central and S. American species (see below) otherwise not known from the state. Well, we'll have to update our records because on our Kalaheo/Lawai surveys we found more than 20 populations of *Shizachyrium condensatum*, sometimes intermixed with *And bic*, usually on it's own. It is quite abundant (as you know), but it should be new information that this is the same thing that's the huge management concern for the Big Island in Volcano.

***Andropogon bicornis***- This is the taller of the two beardgrass species, the one known up until now as *Andropogon glomeratus* (which was a misidentification, and is NOT known from Kauai yet). Though we weren't able to collect good flowering material from Kalaheo/Lawai, we believe it is a match for all the specimens of *and bic* deposited here at BISH. We will continue to be on the lookout for good flowering material to confirm this.

4) Name of any new state/island records found:

*Schizachyrium condensatum* (NIR), *Melochia umbellata* (NIR), *Podranea ricoliana* (NIR), *Cissus verticillata* (NNR), *Dovyalis hebecarpa* (NIR), *Ardisia crenata* (NIR), *Ochna thomasiana* (NIR), *Murraya paniculata* (Mock Orange, NIR), *Tradescantia spathacea* (NIR), *Schefflera arboricola* (dwarf *schefflera*, NIR)

5) Any surveys done that are a follow-up or delimiting survey for plants previously found?

None

6) Any species, previously deemed "actionable" (e.g. kudzu) found? Cultivated or naturalized and in which neighborhood?

*Piper auritum*: Kalaheo

7) Any outreach, research, presentations or other items of interest?

Botanical garden tour with Tim Flynn.

Also we have a couple new publications which are available online, regarding the distribution and taxonomy of naturalized plants in Hawaii:

<http://hbs.bishopmuseum.org/pubs-online/pdf/op107p3.pdf>

<http://hbs.bishopmuseum.org/pubs-online/pdf/op107p46.pdf>

8) Any IDs (other than OED), or other herbarium-related work (label-making, mounting, etc)? None

9) Any upcoming funding/work opportunities?

Not Kauai work, but we are waiting to hear more from Paul Weissich about a large project to work on the inventory of the Honolulu BG system. This would mean identifying their indet accessions, and ground truthing the collections as well. It should be a good opportunity to document what is spreading (and what is apparently not spreading) in the 5 gardens of this system, and will certainly be of great benefit to the garden system. It should be a ways off however since the whole scope would take several to many years to pull off- the scope needs to be prioritized.