



Provide Information
Encourage
prevention and
control
Help build People
Networks
Create
Publications

BIISC Outreach Program

Jan, [Page](#), Kanoe, Jimmy, Bobby, Jean and all BIISC field staff

Past Year in Review

Honokaa Earth Day



- 55 (15 green industry) events,
- 11,300 people actively studying booth
- 9 published articles, 4 TV radio
- Kona Little Fire Ant Taskforce
- certified pesticide applicator license
- Helped Hilo High students do field miconia control'
- scholarship to attend a seed symposium
- some updates made to website
- Meetings with community associations, particularly Waimea and Volcano
- Produced new exhibits and brochures
- Beekeepers outreach
- BIISC Facebook page started by Jan

X-mas in Kau



Lava tube box
Threatened by invasives



Jan's
First
Event:
Palace
Sustain-
-ability
Forum



BIISC Recent Outreach Efforts in North Hawaii



Waimea Plant Sale

North Hawaii Today ED Article

Waimea Community Assc. Mtg

Waimea Solar System Walk

Pu'ukohalā Cultural Festival

Waikoloa WiliWili Festival

Kohala Mtn News Article

Waimea Paniolo Festival

Honokaa Peace Parade Resource Fair

Kohala County Fair

April 2010

May 2010

July, Aug, Sept

August 7, 2010

August 14-15,

August 28, 2010

Sept 15 issue

Sept 18, 2010

Sept 19, 2010

October 2, 2010

Ralph History Research

- Melora gives presentation →
- Plantation worker remembers decade, reason, planter
- HARC-Ann Marthouller-, based on above, finds News clipping 1957, tranquilizer tree planted, Seeds from mainland
- Lyman Museum-Libby Bourke-second News clipping, seed source city
- Internet search “Ravolfia vomitoria Beltsville MD” → Citations
- BARC-Beltsville Agricultural Research Center, USDA
- NEXT: Lyman MacNut Industry Records



Some UnWanted Invasive Species for Waimea

<p>Little Fire Ant (<i>Wasmannia auropunctata</i>) First Hawaii's is infested, new sites have been found in Kona and Maui. Treemounting ant with a very painful sting, can have very negative impacts on agriculture, humans, and tourism. Control is difficult. Test all incoming plants or soil with chemical dipped in peanut butter.</p>			<p>Paspalum grass (<i>Cortaderia</i> spp.) ornamental landscaping, white pink flower plumes, large tussocks. Has been spotted in Waimea. Narrow, pointed saw-toothed leaves. Plant can reach 15', creating access issues. Fire prone, drought tolerant, can flourish in wet areas. It produces millions of wind-dispersed seeds.</p>
<p>Cowbird (<i>Eurostoichia</i> spp.) small frigate native to Puerto Rico, always in nursery plants, both males on vehicles from islanded areas. They threaten native insects which feed native birds and pollinate native plants. The cowbird frigate loud nocturnal calls disturb sleep and tourists.</p>			<p>Grass (<i>Des. europaeus</i>) shrub, sharp spines, dense thickets 6'. Seeds erect 7'. Fire develops only above-ground, roots regenerate rapidly. Fire results in seed germination. Natural enemies have been released but ineffective. The plant is spreading around the flank of Mauna Kea and Hakalau National Wildlife Refuge.</p>
<p>Palau Devil Pepper (<i>Rauvolfia</i> spp.) agricultural weed in South Kohala covering over 2000 acres. Nitrogen fixer, growing at 10 feet each 6 months. Trees produce thousands of red fruits which are spread and spread by birds. HISC is assisting with control with Kohala Watershed P.</p>			<p>Jerusalem thorn (<i>Purdomia</i> spp.) shrubby, thorny tree like liana. Clump shaped leaves, yellow flowers, densely weeping habit, drought tolerant, grows in wide range soils. Dense thickets along gulches. Perennial seed pods. Seeds viable many years, water bouise.</p>
<p>Rubber Vine (<i>Crotonia</i> spp.) Fast growing, climbing plant, pinkish-purple flowers. Shiny dark green leaves 3" long, with triangular 4" woody pods that grow in white like rain. Tangles tightly around other plants, restricting their growth. Extremely poisonous, dust and sap can cause burning rashes. HISC has controlled in Kona area.</p>			<p>Bananae gooseberry (<i>Pteris</i> spp.) caespitose, very hard, ferns impenetrable, open thickets, dense smothering canopy. Woolly vine, full green alternate leaves 12' branches in 10' covered in clusters of long, slender spines. One sighting in Kohala.</p>
<p>Sandwichbush (<i>Scaevola</i> spp.) ornamental climbing shrub, can grow into tree canopy, 3-5' grey-green leaves, clusters of small orange flowers. Invasive throughout area and creates dense thickets that exclude other native plant species. Numerous seeds are dispersed by wind and birds. HISC has controlled in area.</p>			<p>Red vented Bulbul (<i>Pycnonotus</i> spp.) black body, head, eyes, lighter gray underparts, bright red feathers under tail, 8" long. Male & female similar. Only black bird in Hawaii with crest on head like a cardinal's. Major pest of agriculture and gardens. Feeds on fruits, vegetation, flower buds, insects. Spreads seeds of invasive plants.</p>

Most pictures from www.hear.org, Forest & Kim Starr

Fall workplan

- Focus on Eyes and Ears Citizen Outreach
- October produce plant id guides and exhibit materials
- Workshops in November
- Continue updates Waimea Community Assc (and Volcano)
- Continue articles in Kohala Mtn news
- Continue Green industry and LFA outreach