

## T& E Species Activity D.T. Fleming Arboretum- 2016 Report

*Abutilon menziesii* (E) 5 air layers of Pukalani origin made annually each Spring for Arboretum planting and distribution - single petal light pink flower, distributed April & May 2015 for nursery propagation and home landscaping for Arboretum planting and distribution

*Abutilon menziesii* (E) 5 air layers of Puu O Kali origin made annually each spring for Arboretum planting

*Acacia koaia* (SOC) – 4 seedlings from Puu Okali origin planted in arboretum in 2015 Martha: I don't believe SOC need to be reported only T & E.

*Achyranthes splendens splendens* (SOC) – volunteer seedlings sprouting thru out Arboretum-origin East Maui

*Alectryon macrococcus auwahiensis* (E/PEP)

*Alphitonia ponderosa* (SOC)

*Bobea sandwicensis* (SOC)

*Bonamia menziesii* (E) – 1 *Bonamia* from PEPP in 2013 doing great.

*Brighamia insignis* (E) (Kauai/Niihau)

*Canavalia pubescens* (C)

*Capparis sandwichiana* (SOC)

*Cenchrus agrimonioides* (E/PEP) No work done by PEP; we need to determine (or I just don't know) if this is from Kanaio NAR or the later Ranch plant This patch really needs some TLC

*Chamaesyce celastroides lorifolia* (SOC) - volunteer seedlings sprouting thru out Arboretum  
Now *Euphorbia celastroides*

*Claoxylon sandwicensis* (SOC) -

*Colubrina oppositifolia* (E/PEP) 3 from Maui in Arboretum

*Delissea rhytidisperma* (E) (Kauai)-One seedling from Puu Mahoe keiki to be outplanted in 2016

*Dubautia linearis*-24 seedlings from Arboretum seed / Kanaio origin out planted into Arboretum. 2014 and 2015

*Erythrina sandwicensis* (SOC)

*Gardenia brighamii* (E/PEP) –2 of the only fruiting Nau in 2016 from Lanai seed -distributed to Native Nursery, Maui Nui Botanical Gardens , Maui College and Hoolawa Nursery., Lanai, and Ailene Yeh in Big Island 3 seedlings from Native Nursery- 3rd generation Lanai origin planted from Native Nursery for out planting into Arboretum Seeds collected from 2 of the 3 plants (in storage and for storage research at Lyon Arboretum in 2015. 3 airlayers harvested of fruiting Nau, 7 new airlayers in 2016

*Hibiscadelphus giffardiensis*- 1 in Arboretum

*Hibiscadelphus hualalaiensis* (E) (Hawaii) 3 seedlings of *H.hualalaiensi* from Hualalai seed outplanted into Arboretum

(Yet to determine which *Hibiscadelphus* species to keep/ remove. At this time we are growing the trees, not collecting seed)).

*Hibiscus arnottianus immaculatus* (E/PEP) 3 growing in Arboretum Not a PEP but a “POP” but a Moloka`i species 1 new air layer planted in 2016

*Hibiscus brackenridgei* (E/PEP) - all *H. brackenridgei* in Arboretum from Puu O Kali. 5 new seedlings from Puu O Kali seed outplanted into Arboretum These are at least F2-F3 not directly from wild plants

20 seedlings from Puu Okali planted in 2016.

*Hibiscus clayi* (E) (Kauai)

*Hibiscus kokio kokio* (SOC)

*Hibiscus kokio saintjohnianus* (SOC) (Kauai) 2 Air layers from Arboretum trees planted in Arboretum 2016

*Hibiscus waimeae hanneriae* (E) (Kauai) –1Air layer from Maui College planted into Arboretum 2016air layers made annually each spring for Arboretum planting and distribution

*Kokia cookei* (E) (Molokai) Cross pollination managed by PEP Seeds sent to Lyon for micropropagation

Scions of Arboretum individuals grafted onto approx. 20 *drynoides*.rootstock at Olinda nursery.

*Melanthera kamolensis* (E/PEP) *Melicope adscendens* (E/PEP)-1 plant out planted into Arboretum from PEPP doing only OK. Not holding flowers for seed

*Melicope knudsenii* (E/PEP) 5 seedlings and 3 air layers of fruiting old Alani ready for outplanting Arboretum will plant 2 of the fruiting air layers in arboretum in 2016. The 5

seedlings were gifted to PEPP. 1 fruiting Alani airlayer gifted to Anna Palomino to plant in the fields of the Olinda Nursery 7 new air layers of old fruiting Alani done March 2016

*Munroidendron racemosum* (E) (Kauai): 1 specimen tree doing very well. Now called *Polyscias racemosum*

*Nesoluma polynesianum* (SOC)

*Nototrichium humile* (E)

*Ochrosia haleakalae* (C) – 1 Auwahi origin planted into Arboretum 2015

*Phyllostegia haliakalae* (E/PEP)- from KipAHULU. Plants did not persist; probably a bit too dry

*Pritchardia forbesiana* (SOC)

*Portulaca molokiniensis* (SOC)

*Portulaca villosa* (SOC)

*Pritchardia aylmer-robinsonii* (E) (Niihau)

*Reynoldsia sandwicensis* (SOC) now *Polyscias sandwicensis*

*Santalum freycinetianum* var. *lanaiense* (E) – group of young trees/Flowers annually

*Sesbania tomentosa* (E)

*Stenogyne angustifolia* (E)

*Tetraplasandra kavaiensis*-(SOC) Total 3 young trees in Arboretum Now *Polyscias kavaiensis*

*Vigna o-wahuensis* (E/PEP) – none

*Zanthoxylum hawaiiense* (E/PEP-)