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99-193 Aiea Heights Drive, Suite 109
Aiea, HI 96701

Phone 808-483-8600 ext. 3
Fax 808-483-8619
www.hi.nrcs.usda.gov

USDA Natural Resources
Conservation Service and
the O'ahu Soil and Water
Conservation Districts

Windbreak Replacement Options



Do you need to replace your windbreaks?

*Almost everyone in Hawaii has noticed the damage caused to local Coral and Wiliwili trees by a new invasive pest, the Erythrina Gall Wasp (*Quadrastichus erythrinae*). This tiny wasp cannot sting people, but damages its host trees by laying eggs in the leaves, causing galls, curling and other leaf deformities that have led to the death of many host trees. 'Tropic Coral' trees are one of the most common varieties used for windbreaks in Hawaii and many have been killed by the Erythrina Gall Wasp. Many options are available to replace affected windbreaks—this brochure features just a few of the large selection of trees available and recommended by NRCS specialists. Please contact the NRCS or your Conservation District for more information.*



The NRCS offers funding to help replace damaged windbreaks.

Windbreak Replacement Options 2007

Replacement of damaged 'Tropic Coral' windbreaks is done using trees that are not hosts for the Erythrina Gall Wasp. This brochure offers several windbreak tree options that are available through the NRCS Hoolehua Plant Materials Center. The NRCS has cost-share funding available for those who qualify to replace windbreaks damaged by the Erythrina Gall Wasp.

Considerations for a new windbreak might include:

- Growth rate
- Water needs
- Height
- Fruit production
- Native plants
- Spacing

Besides those trees listed here, we have many other options available, including grasses and palms. We can help you decide on a tree that will meet your needs. Contact us or consult the Hawaii Vegetative Guide, available online at:

www.hi.nrcs.usda.gov/technical/pmc.html

Trees up to 20 ft. in height



Hibiscus
Hibiscus spp.
Moderate growth rate
Min. rainfall: 30 in. per year
Native or Chinese varieties



Oleander
Nerium oleander
Rapid growth rate
Min. rainfall: 30 in. per year
Salt tolerant, poisonous sap



Croton
Codium variegatum
Slow growth rate
Min. rainfall: 40 in. per year.
Attractive foliage



Dracaena
Dracaena fragrans
Dracaena dermensis
Moderate growth rate
Min. rainfall: 50 in. per year

Trees 20—40 ft. in height



Avocado
Persea Americana
Moderate growth rate
Min. rainfall: 30 in. per year
From seed for windbreak use



Panax
Polyscias guilfoleyi
Moderate growth rate
Min. rainfall: 30 in. per year
Compact columnar shape



Milo
Thespesia populnea
Rapid growth rate
Min. rainfall: 30 in. per year
Salt tolerant, Polynesian



Gliricidia
Gliricidia sepium
Rapid growth rate
Min. rainfall: 40 in. per year
Nitrogen fixing tree

Trees > 40 ft. in height



Dunn's White Gum
Eucalyptus dunnii
Rapid growth rate
Min. rainfall: 30 in. per year
Popular windbreak tree



Brushbox
Lophostemon confertus
Rapid growth rate.
Min rainfall: 40 in. per year
Popular windbreak tree



Cook Pine
Araucaria columnaris
Moderate growth rate
Min. rainfall: 40 in. per year
Salt tolerant

