AAA Members 2013

Individual:

- → Ashlen Aquila
- → Eli Blanchard
- → Lance Bookless
- ◆ Larry Borgatti
- → Jim Campbell
- → Philip Henry Cedillos
- ◆ Eric Chun
- → Michael Clark
- Steve Connolly
- Steve Ebisuya
- → Kevin Eckert
- → Glen Fujiwara
- Brian Fukada
- David M Gwinner
- → Eileen Helmstetter
- Coursen Hoke
- → Curtis Hopper
- → Dudley Hulbert
- → Wayne Hu
- ◆ Lester Inouve
- Loren Johnson
- → Morris Kozai
- ◆ Carol Kwan
- Randy Liu
- Matt Lyum
- → Elaine Malina
- → Donna Mann
- ◆ Tv McDonald
- * Ty IVICDUITAIC
- ◆ Ed Miyashita
- Maureen Murphy
- Amv Nichols
- Quintin Nilo
- ◆ Steve Nimz
- → Thomas Null
- Terry Nutt
- Jose' Olvera
- → Roxane Orian
- → Jackie Ralya
- → Bill Rector
- David Rohner
- Joshlyn Sand

→ Jonel Smith

- → Dean Takayama
- Michael Tobin
- → Amy Tsuneyoshi
- → Sergio Vasquez
- Philippe Visintainer
- → Garrett Webb

Company (Tree Care):

- Aloha Arbor Care
- → Hana-Hou Tree Service
- Kauai Nursery & Landscaping Inc.
- ★ Kendall Landscape Services
- → KONGstruction LLC
- LPN Landscaping
- Malafu Contractors LLC
- Paradise Landscape Maintenance, Inc.
- Tahitian Tree Service, Inc.
- The Hawaii National Landscape
- Trees of Hawaii, Inc.
- Tropical Tree Care, Inc.
- → Wailea Trees & Landscape Professionals

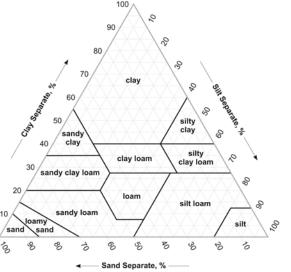
Company (Other):

- Altec Industries
- → Hale Koa Hotel AFRC
- Pacific Stihl

For more information, please visit www.alohaarborist.com and www.treesaregood.com/treecare/ treecareinfo.aspx.

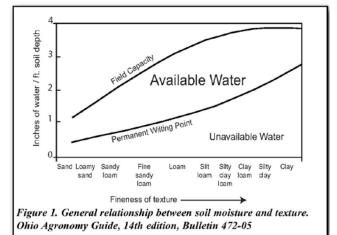
Hawaii Pest Hotline (808) 643-PEST

Soil Texture Triangle Soil Textural Triangle



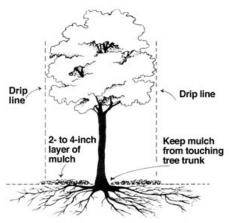
Courtesy USDA Natural Resources Conservation Service

AVAILABLE WATER



Courtesy USDA Natural Resources Conservation Service

TREES FROM THE GROUND DOWN



Courtesy International Society of Arboriculture

A workshop presented by Aloha Arborist Association (AAA) in cooperation with the Urban Garden Center



(808) 381-1342 www.alohaarborist.com

Mulching

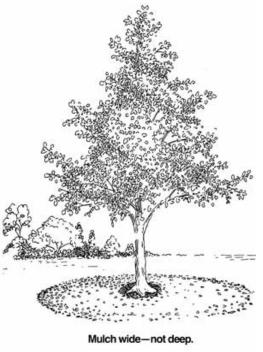
- Organic mulch is good for trees.
 - Reduces moisture loss
 - Minimizes weed competition
 - Improves plant growth
 - Reduces soil compaction
 - Improves soil aeration and structure
 - Increases soil fertility
 - o Reduces salt buildup
 - Protects trunks and surface roots from string trimmer and lawn mower damage
 - Improves landscape appearance



"Mulch volcanoes" cause many problems for trees

Courtesy International Society of Arboriculture

- Mulch materials
 - Organic materials such as composted chips from Hawaiian Earth Products, fresh wood chips, leaf litter
 - Inorganic materials such as gravel and river rock



Courtesy International Society of Arboriculture

- Mulch application
 - o Wide, not deep, 2"-4" thick
 - Stay away from the trunk
 - o Replenish as needed (annually)
 - Know your soil before applying

SOILS

- Know your soil and plants before applying fertilizers
- Soil pH affects nutrient absorption and microbial activity
- ◆ Salt content can impair plant growth
- ◆ Texture sand, silt, clay
- Soil texture affects drainage rates
- Hawaii has volcanic soils vary around each island
- Compacted soils are bad for plants because roots need oxygen to function
- Soil samples can be dropped off at the Urban Garden Center for analysis by the Agricultural Diagnostic Service Center

IRRIGATION

- Hawaii's fresh water resources are precious. Don't waste them!
- Different types of plants need different amounts of water.
- Absorbing roots are generally in the top 6" of soil, 2-3 times the diameter of the crown
- Too much water is bad for trees anaerobic conditions
- Too little water stresses trees and makes them more susceptible to insect infestations
- Maintain good drainage flow. Avoid ponding.
- ♦ Avoid watering the trunk