



MAUI NUI BOTANICAL GARDENS

November 2009 . Newsletter . Volume 28

Arbor Day Celebration

by Lisa Raymond

Arbor Day will be celebrated on Maui with the annual Arbor Day Lawn & Garden Fair and Hawaiian Tree Give-away. The Maui Association of Landscape Professionals and MNBG partner to present this wonderful event full of educational offerings, free trees, garden and holiday gifts, ono food and more! Please join us this year November 7th from 9:00- 2:00 at the Maui Nui Botanical Gardens.

Our other partners supporting this event include the DLNR Kaulunani Urban Forestry Program, The Maui County Department of Water Supply, the Maui Electric Company, and the Maui Farm Bureau, and the Maui County Office of Economic Development.

At 12:00 the Maui Invasive Species Committee (MISC) will be presenting their 2009 Mālama i ka 'Āina Award to a landscape professional that promotes and aids in the use of non-invasive plants on Maui.

Activities and demonstrations will include:

- 1,000 Hawaiian Tree Give-away
- Educational speakers, and booths
- Plant Sales, Fruit trees, Succulents, Native Plants
- Tree Planting & Pruning Demonstrations
- Landscape Industry Trade Show

- Small equipment maintenance trouble shooting
- Ono Food, Garden Door Prizes, Silent Auction

Ongoing throughout the day:

- Small Engine Troubleshooting by Service Rentals & Supplies,
- “What’s Bugging you?” Insect and plant pest and diseases – Diagnosis and treatment ongoing at the booth with Norman Nagata - Plant Pathologist, and Mach Fukada - Entomologist. Bring a sealed sample.

- Soil pH testing and education ongoing at the Maui Community College booth. Bring a sample of soil for testing.

- Tree planting, pruning, and selection information at the Maui Nui Botanical Garden Plant Information booth by the Free Hawaiian Tree Give-away.

This event strives to support community education, beautification, and to plant the right tree in the right place. In support of this effort, the Maui Electric Company has prepared the following informational article that will help you to save money on your electric bill. Now that’s something everyone can appreciate!



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NEW MNBG EMAIL !!!!
info@mnbg.org

Layout Editor
U'i Naho'olewa

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Cool your home with landscaping

On a hot summer day it's always pleasant to relax under the shade of a big leafy tree. The tree's shade and the evaporation of moisture on its leaves can reduce surrounding air temperatures by as much as 9° F.

A well-planned landscape can make a home more comfortable and can reduce an un-shaded home's summer air-conditioning costs by 15% to 50%.

- To use shade effectively, you need to know the size, shape, and location of the moving shadow a tree or shrub will cast. Note the sun's angle in the summertime as well as the wintertime.
- Before planting a tree make sure that it won't interfere with overhead power lines when it reaches maturity. Also note where underground utilities are located.
- When planting trees close to your home or driveway, select trees with non-aggressive roots.
- To provide continuous shade year round select trees that don't lose their leaves seasonally.
- Consult a professional arborist or landscaper when selecting trees and avoid planting trees that are invasive to our environment.
- To help cool the trade winds entering your home, plant trees along the windward side of your home.
- Plant tall trees with spreading crowns to the south of your home to provide maximum shade over your home's roof—taking care to not shade solar panels.
- Plant medium-sized trees on the west side of your home to shade it from the lower afternoon sun angles.
- Hedges or shrubs can also shade your home's walls. However, avoid having dense foliage growing immediately next to your home, especially if wetness or continual humidity is a problem. It is around the home.
- You can also use a trellis with climbing vines to shade the side of your home.
- To reduce heat radiation and cool the air around your home, plant trees, shrubs, and groundcover to shade the ground and pavement near your home—perhaps shade your driveway, a sidewalk, or your lanai.
- If you have an air conditioner, shade it to increase its around the condenser.

Letter from the President

Aloha Friends and Supporters of Maui Nui Botanical Gardens—

If you have not visited the Gardens lately, please do come! The Gardens are for everyone.

As we approach the holiday season, I always focus on Thanksgiving as a time for recognition of blessings. In that spirit, I would like to offer the following "Thanksgiving" for blessings bestowed.

To our wonderful, ever creative and dedicated staff--all of whom extend themselves way beyond their jobs--

To the volunteers who give freely of their time and energy to help our staff make the Gardens the beautiful haven it is—

To the Board of Trustees for their time given to oversight of policies, budgets, and occasional issues— and for their volunteer time at special events—

To the County of Maui for its continuing support of the Gardens through grants—

To our many constant and generous donors without whom we would not be able to offer educational programs to the community—

To all the members of the Maui community who participate in our special events and fund raisers—

To everyone who makes a contribution to Maui Nui Botanical Gardens—no matter how large or small—

My aloha and thanks to you all.

Dorothy Pyle

MAUI NUI BOTANICAL GARDENS MISSION STATEMENT

The mission of the Maui Nui Botanical Gardens is to foster an appreciation and understanding of the living Hawaiian Islands of today, emphasizing the plants of Maui Nui (Maui, Moloka'i, Lana'i, Kaho'olawe), and providing a center for environmental education, Hawaiian cultural expression, conservation, biological study and recreation.

With Gratitude from Our Garden

Electrical surveying (Erik Nelson), Maui County Parks Department, Terry Nutt (arborist surveying & service), Diana Schulte (drill), Gloria Adlawan (buckets), Maui Coastal Land Trust (volunteer field trip), Mach Fukada (Plant sale expertise), Lumix camera (Paul Kastner & Phyllis Sato)
Mahalo to couple who donated gloves at the Plant Sale, Weed & Pot Club and Cub Scouts Pack 68.



MNBG Community Contributions

Maui Waena Intermediate: Kalo plants for school class, MCC Tours & workshops, Kamehameha Schools (wauke, irrigation consultations, tours), *Kokia cookei* for replanting on Moloka'i, Kalo for Taro Task Force, Plant donations to KIRC for rain ceremony, Maui Coastal Land Trust: coastal seeds, and kalo for Waihe'e site, Punanaleo: Hala, Paeloko: Red Hala,

Wish List

- -New or used Golf Cart in good condition,
- 10 5-gallon buckets
- 15 pairs of gardening gloves
- Large Chainsaw
- 12 yards of compost
- Drip irrigation supplies
- Digital answering machine
- Canon Rebel Digital Camera
- Maui News Subscription
- Wood Chipping Services
- Dump Truck Services
- Backhoe services

*If you would like to contribute to the purchase of one or more of the items above, please call 249-2798.

LOCATION & HOURS

150 Kanaloa Avenue
Keōpūolani Park, Kahului
Across from the War Memorial Sports Complex
Monday-Saturday
8:00 am—4:00 pm*
Closed Sundays & Major Holidays
*Weather permitting & staff availability.

GROUP RESERVATIONS

Reservations are required for group activities.

CONTACT INFORMATION

Mailing: P.O. Box 6040
Kahului, HI 96733
TEL: (808) 249-2798 FAX: (808) 249-0325
Email: info@mnbg.org
Website: www.mnbg.org



SAVE A TREE!

If you would like to receive your newsletters via email, please email us at info@mnbg.org. You may also view them online on our website at www.mnbg.org.

Garden News

New Sponsor:

Hawaiian Springs

Hawaiian Springs LLC, a premier natural water brand recognized for bottling some of the purest and most sustainable waters in the world, has sponsored the Maui Nui Botanical Gardens, supplying the Gardens' volunteers with fresh, sweet water to drink while they work to conserve native species.

"The Maui Nui Botanical Gardens works diligently to care for the plants and flowers that characterize Hawaii as a flourishing tropical locale, and that we also strive to protect by supporting groups such as the Nature Conservancy," said Rick Hadley, CEO of Hawaiian Springs. "As our company continues its expansion into the mainland and more consumers are able to enjoy the refreshing, smooth taste of Hawaiian Springs, we plan to further extend our commitment to our local community by increasing awareness of the natural, yet fragile beauty of Hawaii."

"Our staff deeply appreciates Hawaiian Springs' dedication to protecting our state's rare wildlife," said Lisa Schattenburg-Raymond, executive director of Maui Nui Botanical Gardens. "We are extremely thankful to the company for its generous contribution to our cause, and we look forward to our joint efforts toward keeping Ha-



waii green and beautiful."

Like the Maui Nui Botanical Gardens, Hawaiian Springs makes a concerted effort to minimize waste and conserve its local environment. With a sustainable use rating of 740 million gallons per day, the Hawaiian Springs aquifer is one of the most robust and healthiest water sources in the world. In addition, the company protects natural resources by acquiring production materials from local Hawaiian suppliers, and by using fewer materials and fuel miles from water source to market. As part of its commitment to preserving Hawaii's most cherished resources—its natural flora, fauna and ecosystem—Hawaiian Springs also serves on the Corporate Council for the Environment for the Nature Conservancy. For more information on Hawaiian Springs, visit www.hawaiianspring.com.

A big mahalo to Paradise Beverages for helping to facilitate the pick up of the Hawaiian Springs donation.

Plant Sale: Review



Over 300 Maui residents came to the plant sale to take advantage of the rare opportunity to purchase unique native plants. Experts were on hand to answer questions on landscaping, propagation and

everything else having to do with plants. Six nurseries and the Water Department participated, giving the public numerous native plant varieties to choose from for all types of landscapes and elevations. We thank the nurseries, the experts, the Water Department, our volunteers and the Maui community for making the event successful, and playing their part in the conservation of our beautiful islands.

2009-2010 Calendar

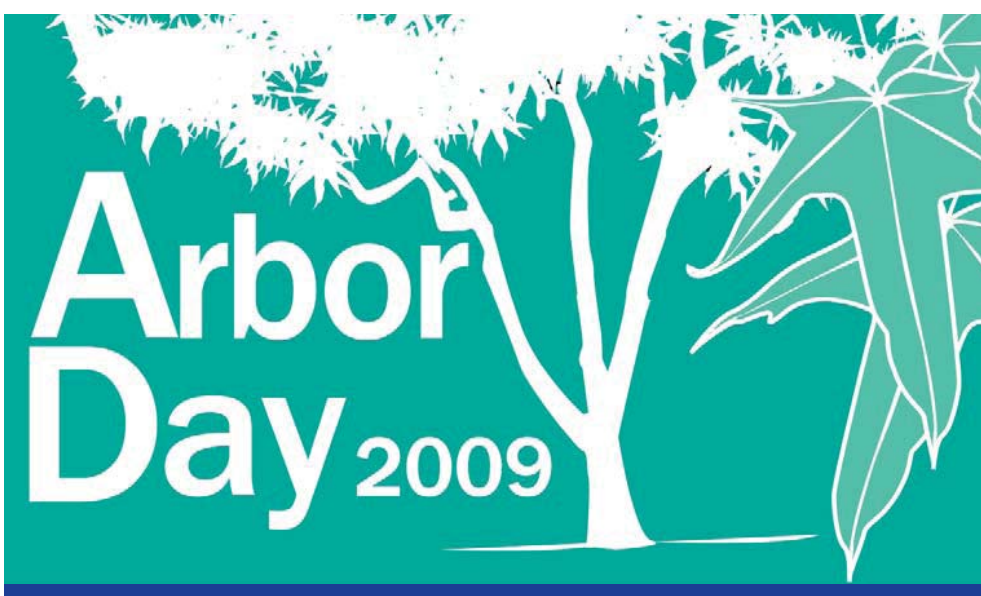
Arbor Day Lawn & Garden Fair & Hawaiian Tree Give Away November 7, 2009 Saturday 9:00am - 2:00pm

MNBG and the Maui Association of Landscape Professionals partner to present the 3rd Annual Arbor Day event, with a 1,000 tree give-away and Lawn & Garden Fair. In addition to the tree giveaway, there will be vendors with new and innovative products as well as educational information about all things green. Free Admission.

New Year's Plant Sale!

January 30, 2010 Saturday 9:00am - 12:00pm

Help ring in the New Year with new plants! Make good on your resolution to conserve Hawai'i's resources by planting native. Multiple growers and plant experts to answer all questions. Great pricing on rare and unique plants! Don't miss it.



Maui Nui Botanical Gardens &
Maui Association of Landscape Professionals

Lawn & Garden Fair and Hawaiian Tree Give-away



**1,000 Hawaiian Trees
Will Be Given Away**

Saturday

November 7, 2009

9am to 2pm

At Maui Nui Botanical Gardens, 150 Kanaloa Ave., Kahului.

Free Admission.

Parking across the street at the War Memorial Football Stadium.

www.mnbg.org 249-2798 www.malp.org

- Educational Speakers & Booths
- Plant Sales: Fruit Trees, Succulents, Native Plants
- Tree Planting & Pruning Demonstration
- Soil pH Testing & Education by M.C.C. Agriculture Department
- Plant Pest Identification & Education
- Landscape Industry Trade Show
- Ono Food, Door Prizes & Silent Auction
- Landscape Equipment Troubleshooting



The Garden View

by Nohea Daliva



The Maui Nui Botanical Gardens displays more than 500 varieties of native and Polynesian introduced plants. In the last few years MNBG initiated a number of collections surveys throughout the state, to determine the status of collections of rare Hawaiian plant varieties. MNBG has supported the tracking, documentation and research of several species at the Gardens. Special attention has been given to studying food crops such as Kalo (Taro), 'Uala (Sweet Potato) and Kō (Sugar Cane). Since MNBG features these crops in our collection, we have been host to a number of research initiatives.

Stanford University Ph.D candidate, and Maui native, Noa Lincoln, recently spent six days at the Gardens intensely studying and documenting the 40 varieties in our Hawaiian sugar cane collection. Noa is conducting this research under esteemed scientist Dr. Peter M. Vitousek whose has been doing fascinating research in nutrient cycling and limitations in Hawai'i.

Dr. Vitousek and his team have been re-

searching traditional agricultural practices in the Kona field system which may reveal clues about how the Hawaiian systems of land management were so successful over hundreds of years of continuous cultivation. The results of this study could have profound influence and could potentially change the way we look at the agriculture presently and in the future.

The Garden has also initiated efforts to document taro and sweet potato varieties, and MNBG will be pooling these efforts with other organizations state-wide to increase understanding of our collections. Some of these collections have not been studied for more than 40 years.

Hawai'i island resident, kalo farmer, Taro Task Force representative, and kalo expert Jerry Konanui, has been heavily involved in helping to sort out and correctly identify taro collections around the state. Maui resident, conservation planner, kalo grower, and Taro Task Force representative, Penny Levin, and O'ahu resident, and taro enthusiast Weston Yap has also been involved in the collections identification, process. Weston and Penny have embarked on an ambitious project to extensively photograph and document taro varieties. This information will be available and accessible on a new kalo website being developed by Weston.

Recently these and other supporters from the community helped to ensure legislation was passed for the protection of kalo from genetic modification. The resolution introduced by Councilmember Bill Kauakea Medeiros was unanimously supported by our Council Members. Mahalo to the County Council and Mayor Charmaine Tavares for their understanding of the importance of this Hawaiian cultural resource.

The Garden View

Continued from pg. 6

Historically there may have been as many as 300 varieties of kalo in cultivation throughout the islands. These varieties were selected for certain favored characteristics and growing conditions. We are now only rediscovering and reacquainting ourselves with the vast knowledge that was commonplace to our ancestors. MNBG's collection has over 70 varieties of kalo displayed in raised beds in the garden.

The importance of securing the biodiversity of these food crops could hold the key to sustainable agriculture for our future. These nutritious traditional foods can help to wean the community off our dependence of imported products thus re-investing into our local agriculture. We strongly encourage those of you who are interested to grow your own food and if unable, to buy local.



Volunteer Central

Mahalo to our volunteers who contributed numerous hours to making the Gardens beautiful. Special thanks to: Valerio Mesek, MCC Ethnobotany service learning students Johnattan Topinio, Richie Campas, Nick Timpone, Josh Sommer and Kim Rose, plant sale volunteers, Weed & Pot Club, Robert Lee, Mach Fukada and John Aquino.

Mahalo to Our Weed & Pot Volunteers

Gloria Adlawan
Janet Allan
Raymond S. Higashi
Darlene Kashuba
Paul Kastner
Fred Kober

Deborah Kremins
Becky Lau
Renee Leiter
Martha Martin
Valerio Mesek
David Newell

Jennifer Rose
Phyllis Sato
Florence Shotts
Diana Schulte
Cindy Singer

Anudeva Stevens
Terry Thomas
Jamie Thompson
Madi Witt



If you love working with plants, you'll love the Weed & Pot Club! Meeting every Wednesday morning, at 8:30am till 10:30am. Spend time helping the Gardens thrive through weeding and propagation. Offsite field trips, workshops and lectures scheduled several times a year for our volunteers only! Come prepared to work with covered shoes, water bottle and garden attire. All tools, gloves, sunscreen and expertise provided. Join us every Wednesday!

For more information, call 249-2798 or visit www.mnbg.org

MNMG Continues Conservation Efforts

The MNMG recently sent 200+ rare Nānū *Gardenia brighamii* to Lāna'i for reintroduction into the wild. Currently, less than 50 individuals remain in the wild. This native gardenia was formerly also found on Hawai'i, Maui, & O'ahu. Two of our three gardenia species are endangered. Stephanie Seidman, our nursery manager works with Hank Openheimer, the Maui Coordinator for the Plant Extinction Prevention Program to grow seriously endangered plants for eventual reintroduction into the wild. "Working with these plants is a great privilege and we're thankful to have the opportunity to partner with the PEPP program and other Maui nurseries to help these species. (Photo credit: Forest & Kim Starr)

Charmaine Tavares
Claire Terry
Kay Tesoro
The Thomas Ames Family
Walter Tokushige
The Village Gallery
Eugene Wasson III, MD
Melody Ann Watral
Elaine Wender
Susan Wyche
Anna Wynn
Joan Yokoyama

Hala (\$35)

Gloria & Sid Adlawan
Janet Bal
Louise Barr
Christel Blumer-Buell
Bernadette Boteilho
George Brown
Cynthia Burns
Robert Carroll
Mikki Clark
Sandra Clifton
Karyn Cochran
David & Maggie Cole
Rici Conger
William Davisson
Leslie & Pamela Dunn
Ann Emmsley
Joseph Fell-McDonald
Mary Jean Gose
Scott Greeley
Isaac & Dana Hall
Skippy Hau
Elaine Haupu
Mikahala Helm
Wade Holmes
Island Plant Co.
Gael Ito
James Johnson
Tina Jones
JoAnne Kahanamoku
Lei Kalehuawehe
Pamela Kantarova
Kathy Kaohu
Leonard Kapahulehua
Nathan Kekahuna
Caroline & Gilson Killhour
Ed Lindsey
Mary & Michael Lock
Barbara Long
Steven & Rene Long
Seiko Machida
Jan MacKnight
Montessori School of Maui
Theo Morrison
Sue Perry
Manon Pretre
David Quisenberry
Michael Quisenberry
Margaret Raymond
Amber Rohner
Laurie Rohrer
Olivia Leigh Rossi
Arlene Salomon
Warren Shibuya
Lauren Spallino
Miles Takakura
Richard K. Temple
Winnie Wagstaff
Charles Wallace
Richard Wirtz
Carl Yanagawa

Jim Yeskett

Naupaka (\$25)

Desiree Ah Sau
Ku'ulei Alcomindras-Palakiko
Pamela Alconcel
Donnie Almazon
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Carol Bull
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Mona Harris
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Pauahi Hookano
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Lei Ishikawa
Farley Jacob
John Jowaiszas
Jo Loyce Kaia
Na Leo Kako o
Netta Kanoho
Lisa Kasprzycki
Luana Kawa a
J. Wainani Kealoha
Janice Kekahuna
Kalele Kekauoha-Schultz
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Kami Montalvo
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Koana Smith
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Venus
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Judy White
Paul Wood
Chelle Wright
Ron Youngblood

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In Memoriam

Rene Sylva
Bob Wagstaff
Brenda Jowaiszas
Dorothy Patterson



Maiapilo
Capparis sandwichiana
 Endemic
 Vulnerable



MAUI NUI BOTANICAL GARDENS ANNUAL DONOR PROGRAM

(Donor period is for one year from when donation is processed.)

- | | |
|---|----------------------------|
| ___ \$25 Naupaka | ___ \$35 Hala |
| ___ \$50-\$499 'Ilima | ___ \$500-\$999 'Iliahi |
| ___ \$1,000-\$4,999 Ka Palupalu O Kanaloa | ___ \$5,000+ Ma'o Hau Hele |
| ___ \$ I would like to donate to the Rene Sylva Memorial Fund in the amount of: \$ _____. | |

Mail your tax deductible donations to: Maui Nui Botanical Gardens P.O. Box 6040 Kahului, HI 96733

DATE: _____				ENCLOSED IS MY CHECK # _____		IN THE AMOUNT OF \$ _____	
PLEASE CHARGE MY VISA _____ <i>or</i> MASTERCARD _____ IN THE AMOUNT OF \$ _____.							
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FOR STAFF USE ONLY

ID#	BATCH #	DATE	EXPIRATION DATE	OUTLOOK GROUP	MAHALO
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