



MAUI NUI BOTANICAL GARDENS



SPRING 2019 . Newsletter . Volume 50

Nā ana o Hawai‘i: Hawaiian Body Measurements

by Kara Ueki



Kara demonstrates the anana measurement

Have you worked in your yard and found yourself needing a measuring tape? Ancient Hawaiians found ways to approximate measurements by using the body!

What's great is that we can use the measuring tape to measure our Hawaiian body measurements before going out into the garden and memorize the lengths. There is a song to help us remember the body measurements which starts from the smallest to the largest:

Nā ana o Hawai‘i

Kiko, kiko*

Kiko‘o lā

Pī‘ā, pī‘ā**

Ha‘ilima lā

Iwilei, muku, anana

Eia nā ana o Hawai‘i lā

This song was shared with me during Kūlia I Ka Pono on Hawai‘i Island in the summer of 2013. In order to memorize the words with the correct body measurement, there are movements which compliment the lyrics to help match the body measurements and words. Let's define the words which are found in the Hawaiian Dictionary or online at wehewehe.org.

***Kiko** – Start the measurement from the tip of the finger to the first bend which represents about an inch in imperial measurement.

Kiko‘o – Start the measurement from the tip of the index finger to the tip of the thumb as if you were making an L shape.

****Pī‘ā** – Start the measurement from the tip of the thumb to the tip of the pinky, also known as a shaka.

Ha‘ilima – Start the measurement from the tip of the longest finger to the elbow of the same arm.

Iwilei – Start the measurement from the center of the chest to the tip of the longest finger while the arm is stretched out to the side of the body, parallel to the ground.

Muku – Resembling the hula stance, both arms stretched out to the side of the body and parallel to the ground, then bend one arm at the elbow inward to the center of the body. Start the measurement from the bent elbow to the tip of the longest finger of the opposite arm.

Anana – Start the measurement from longest fingertip to the longest fingertip when both arms are stretched out and parallel to the ground.

Eia nā ana o Hawai‘i lā translates to “Here are the body measurements of Hawai‘i.”

For more detailed instructions with photos, please visit the following sites:

hanaleiwatershedhui.org and search “moon calendar”, deviantart.com and search “ohukaniohia measurement”

For those who understand ‘Ōlelo Hawai‘i, ua wehewehe iki ‘ia nā anakahi o nā mahele o ke kino.

E kipa iā: Nupepa.org a e imi i ka nūpepa ‘o Ka Nupepa Kuokoa, Puke 18, Helu 18, 3 Mei 1879, ‘ao‘ao 4. Aia ia atikala ma lalo o “Ke Ano o ka Hana...”

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Layout Editor, U‘i Naho‘olewa

Have you ever wondered how to collect 'ōhi'a seeds?

Find out at the Maui 'Ōhi'a Seed Conservation Workshop, Monday, May 13, 2019.

By attending the FREE workshop hosted on Maui, you will help to expand capacity for collection and banking of 'ōhi'a seeds in response to Rapid 'Ōhi'a Death.

You will learn how to properly collect, handle, and process 'ōhi'a seeds, without doing harm to trees or forests, using methods that protect seed viability and ensure conservation value for future restoration. Maui Nui Botanical Gardens is proud to be a partner in this statewide effort to store seeds from wild 'ōhia trees before the disease spreads further.

Online registration is required. To register, go to <http://www.friendsoflyon.com/ohia-workshops/> or search for "Ohia Seed Conservation Workshops".



Docent training program revived

By: Tamara Sherrill

The Garden's mission is to foster appreciation and understanding of Maui Nui's plants and their role in Hawaiian cultural expression by providing a gathering place for discovery, education, and conservation. The education program includes events, Saturday workshops, and group visits.

This year, we are working to address the increased demand for our group visits and tours, by training new volunteer docents with our Alaka'i Kuhi Program. A docent is a knowledgeable guide; alaka'i means leader, guide; kuhi means gesture and point, as well as infer and imagine.

In 2014, we hosted 34 school group tours. Five years later, we are in our third quarter and have already hosted 60 groups, making fiscal 2019 on track to be the most group visit requests to date. Most requests are from local schools, ranging from preschool to college, but we also get tourist visitors who call to schedule a tour. Every visit features a tour highlighting the ethnobotany of 10 to 20 different plants in our collection. Depending on the ages of the students, school groups then additionally participate in a hands-on activity with our staff, such as planting seeds in newspaper pots (preschool), learning to make kaula (cordage, elementary), learning the parts of a kalo plant, (intermediate), or helping us weed, mulch, and plant (high school and older). In all, there are about a dozen possible hands-on activities, in addition to the one-hour tour. The suggested donation per student is \$2; for tourist visitors who schedule a tour by appointment, we ask \$10 per person.



June 1986 – Rene Sylva, who started the native plantings while this site was the County zoo, leads a Maui High School Biology class on a tour of the plants.

We currently do all this with the Executive Director, three garden staff who already have plenty to do keeping the garden functioning, and wonderful docents, Gloria Adlawan and Becky Lau, and we need more! Therefore, we are doing a six-session training program in exchange for committing to at least 6 tours per year according to each person's availability. The Alaka'i Kuhi training program will run through July. Topics to be covered in training include MNBG history, Hawaiian geography, species evolution, conservation of native plants, Hawaiian migration and agricultural development, and religion. Docents will practice speaking about 20 core species, including demonstrating some of their uses, and will be given flash cards for many more species to allow for future creativity. We will repeat docent training in the Fall, so please contact us if you are interested.

With Gratitude from Our Garden:

Courtney Turner for office supplies, Paul Kastner & Phyllis Sato for garden gloves, Ron & Becky Lau for trays, pans, chaffing dishes and paper products, Jeremy Spencer for milo distributed at Arbor Day 2018, Steven Klopping for niu distributed at Arbor Day 2018, RoseAnn Chapman for volunteer drinks, Native Hawaiian Plant Society for 10 hala mats, Anna Mae Shishido for volunteer drinks and garden gloves, Vilma Seiler for gardening gloves and buckets, Dorli Reeve for a weed whacker, and Maggie Sniffen for latex-free gloves.

MNBG Contributions to the Community:

Kaua'ula Valley (kukui, 'ōhi'a 'ai, hau, kalo, 'uki'uki, hame, milo, kamani), Baldwin High School (hala pepe, kulu'i, 'a'ali'i, 'uki'uki), Ha'ikū Elementary School (kulu'i, 'ihi, nehe, 'uki'uki), Hawaii Nature Center (nehe), Keiki O Ka 'Āina Fest (kalo, hame, 'ilima papa, 'uki'uki, 'ōhi'a 'ai, hala pepe), Native Hawaiian Plant Society (pā'ū o hi'iaka, naupaka papa), Kamehameha Elementary School (kalo, kulu'i, 'ala 'ala wai nui, mau'u 'aki'aki), Kahului Library (palapalai, 'āhinahina, hala pepe, 'ālula), Imua Preschool (koali 'ai).

Mahalo to our Interns & Volunteers:

Arbor Day 2018 Volunteers: Boy Scouts Troupe 808, Kamehameha Schools Maui National Honor Society Members, Jody & Patrick Singsank, Fern Duvall, Susi Mastroianni, Missy Dunham and Jeff Gray. Baldwin High School's Workplace Readiness Program: Russel Frendo, Jesse Jesse, Jano Aquino, Franky V., Serina Juda, Marlene Belschner, Alton Jesse, and Tiara Matsui. Easter Seals Volunteers: Keala Dudoit, Hayato Makabe, Howard Reinhardt, Danielle Pagaduan-Chow, Sasha Gomes, Letti Maika, Cindy Vandaele, Kalani Fontes, Gwen Moniz, Gerry Wingate, Mark Lausterer, and Nathan Ley. UH-MC Volunteers: Cory Early, Vonnie Kanae, Koa Wolf, Trisha Tabbay, Kaipō Park, Alicia Martin, Cherryl Eckley, and Margaret Pereyra.

Save the Date

Saturday, June 8, from 9 AM to 3 PM: Kapa Making Workshop with Lisa & Lei

In this in-depth, hands-on workshop, students will learn special techniques regarding the cultivation and maintenance of wauke plants, the harvesting and processing of the fiber, proper tool design and use, and traditional practices for making cloth with skilled kapa makers, Lisa Schattenburg-Raymond & Lei Ishikawa. Workshop fee includes all materials. Cost: \$125, or \$100 for current garden members. Email info@mnbg.org for reservations.

Saturday, June 22, from 9 AM to 3 PM: Dye Making Workshop with Lisa & Lei

Participants will learn innovative processing techniques of many Hawaiian plants, and other substances, to produce traditional natural dyes used on kapa cloth! Lisa Schattenburg-Raymond and Lei Ishikawa will share information on identifying, collecting, preparing dyes, and the use of natural additives to manipulate color. Cost: \$125, or \$100 for current garden members. Call 249-2798 or email info@mnbg.org for reservations.

Saturday, July 13, from 9 AM to 12 PM: Kukui Torch Making with Ko'i Lum

Learn to make lamalama (a torch) from the kukui tree with cultural practitioner, Ko'i Lum. Lamalama refers to the traditional Hawaiian practice of night fishing by the light of torches. Cost: \$50, or \$25 for current garden members. Call 249-2798 or email info@mnbg.org for reservations.

Sat. July 20 (9AM – 6PM) & Sun. July 21 (8AM – 11AM): Imu Workshop with Ikaika Nakahashi

This two-day in-depth workshop will teach many aspects of imu (Hawaiian underground oven) creation and use. Hands-on instruction will include how to gather materials, create, ignite, seal, open, and serve food from an imu; recipes and ingredient preparations; how to properly place food for cooking; imu monitoring and timing. Imu cooking is a healthier and delicious method of food preparation that perpetuates the Hawaiian culture. Cost: \$125, or \$100 for current garden members. Call (808)249-2798 or email info@mnbg.org for reservations.

Garden News

Taro Preparations

By: Namea Hoshino



UH-MC student group Mu'ō A'e volunteered with the MNBG staff to help prepare for this year's East Maui Taro Festival. Student volunteers assisted with huki kalo (pulling taro) from Uncle Jerry Konanui 'āina malo'ō (dryland) kalo. Mu'ō A'e participants learned about the oral-history and Hawaiian cultural connection to the taro plant.

They harvested twenty-two different kalo varieties which added up to 261 huli (taro tops). All huli were distributed for free at the East Maui Taro Festival held in Hana on Saturday, April 13th. People from all over the island dropped by the MNBG booth excited and interested in the different varieties of kalo available. Each person was pleased by the bountiful huli display and could not wait to plant their huli at home.

'Ōlelo No 'eau #2204: "Nā 'Ali'i Ke Kuamo'ō o Hāloa."

Translation: Chiefs of the lineage of Hāloa

Meaning: Perpetuate our lineage of Hāloa until the very end!

Glyphosate Herbicide Use Discontinued

By: Chris d'Avella

Glyphosate (commonly sold under the name "Roundup") has been a broad-spectrum weed killer at MNBG in recent years. If you noticed blue dye on weeds, chances were good that it was marking an application of glyphosate. It has filled a role in maintaining our garden beds that could not have been sustained with hand weeding alone.

Increasingly, health issues associated with glyphosate and other conventional agricultural products have become a concern, both in the opinions of the staff and the volunteer base. As a result, MNBG is discontinuing the use of glyphosate. We will be substituting OMRI (Organic Materials Review Institute) listed products when possible.

As substitutes for glyphosate, we now use broad-spectrum

weed killers utilizing citrus oil and clove oil. These products are made from sources like real oranges and work by stripping away the waxy cuticle that protects the leaves of a plant. Without the cuticle the plant cannot maintain sufficient moisture and will dry out and die. Another method of control is to apply a flame near the weed. With a propane torch we apply heat to the weed causing tissue damage and killing the weed.

We have found these methods to be effective. They are approved for use on farms that have been certified organic. We believe in combination with our other garden practices including, organic fertilizer and lots of natural mulch, that this is a step in the right direction.



Garden and Nursery Manager Chris d'Avella, center, working with volunteers Mikki, left, and Anna, right.

MNBG's Endangered Logo Plant

By: Tamara Sherrill

January marked our first 2019 working field trip to mālama the endangered dwarf naupaka (*Scaevola coriacea*), inhabitant of increasingly rare consolidated dune systems in Central Maui. Since 2016, Maui Nui Plant Extinction Prevention Program Coordinator Hank Oppenheimer has accompanied us and helped our volunteers understand the history and importance of this species. Volunteers are careful not to trample native plants as they weed and cut invasive shrubs. To join a field trip, come to our Wednesday Weed and Pot Club garden work days held every Wednesday from 8:30 to 10:30 am, or ask to be put on our field trip mailing list.

U L U

Breadfruit Day
MAUI NUI BOTANICAL GARDEN
(150 Kanaloa Avenue, Kahului)

**HAWAIIAN
PLANT +
VARIETIES
SALE!**

**FREE
COMMUNITY
EVENT!!!**

Come learn, share & try 'ulu (breadfruit)!
SATURDAY, SEPTEMBER 7TH • 10AM-3PM

LIVE MUSIC AND HULA - HAWAIIAN CULTURAL ACTIVITIES
COOKING DEMONSTRATIONS - EXPERT INFORMATION ON 'ULU

*For more information and full schedule of events visit, **WWW.MNBG.ORG***

HAWAII TOURISM



MAUI BREADFRUIT
COMPANY



Support provided by Hawai'i Tourism through the Community Enrichment Program.

The Garden View



*Arbor Day 2018 participants marked their tree planting destinations
(photo courtesy Amanda Emmes Photography)*

Arbor Day Recap

The Maui Nui Botanical Gardens' 15th annual Arbor Day 1,000 Hawaiian Tree Give-Away was held on November 3, 2018, supported by Kaulunani Urban & Community Forestry Program, DLNR Division of Forestry and Wildlife; and the USDA Forest Service. A total of 1,525 trees and shrubs of 28 Hawaiian species were given away. Twenty organizations, five certified arborists, and ten Master Gardeners helped give away the trees and educate attendees about native Hawaiian plants. Ten free cultural activities funded by the Fred Baldwin Memorial Foundation allowed families to make a native plant lei, a lauhala bracelet, kaula (cordage), oeo (kamani nut whistles), or kapa (cloth), or play a Makahiki game, all activities that use some part of a native or Polynesian introduced tree. New this year were maps for each species provided by the U.S. Geological Survey showing historic ranges and an interactive tree planting map to show where each tree being given away would ultimately be planted.

Welcome Kara!

We are delighted to welcome Kara Ueki to our staff as a Grounds and Maintenance gardener. Kara was born and raised on Maui and has a B.A. in Kinesiology and Exercise Science as well as Hawaiian Studies. She is a speaker of 'ōlelo Hawai'i, is a former Kupu and PIPES intern, and has done land use internships in north Kona, Kauai, and Malaysia. Kara has quickly become invaluable to MNBG as a leader of the Wednesday Weed and Pot Club, and she began including 'ōlelo no'eau each morning for the group. Kara has been tackling each new challenge with great cheer. Welcome to the team!



Kara Ueki going deep to fix an irrigation leak.

Seed Bank Update

This summer, we will be hosting three interns provided by The Hawai'i Tourism Authority's Aloha 'Āina Program and Atherton Family Foundation to help us with seed storage and improve the plant collection. These funders also helped us purchase a laboratory balance for weighing that allows us to count seeds which are impossible to count by hand, such as tiny seeds like 'ōhia lehua being stored as part of the Rapid 'Ōhia Death seed banking initiative. #OhiaLove (See page 2 for info on an important workshop.)

Our heartfelt thanks goes to Margaret Pereyra, who began volunteering with MNBG in February for her UH-MC Ethnobotany class. Margaret is an associate scientist for Columbia University living in Maui. She made an extraordinary effort that included a complete redesign of our accessions (plant tracking) database, cleaning up years of data, and making data entry more user friendly for interns.



Margaret Pereyra with MNBG Executive Director, Tamara Sherrill

Volunteer Central



Weed & Pot Club volunteers, Linda & Dericke, on green waste duty.



MNBG Board President, Ikaika Nakahashi, with Staff members, Chris & Kara, at Hōmau 2019.



Weed & Pot Club Member, RoseAnn Chapman, is a weeding champion!



If you love working with native plants, you'll love the Weed & Pot Club! This volunteer gardening group meets every Wednesday morning, from 8:30 AM to 10:30 AM. Spend your morning helping the Gardens thrive through weeding and propagation. Come prepared to work with covered shoes and gardening attire.

Mahalo Weed & Pot Club

- | | | |
|-------------------|-----------------|-----------------------|
| • Gloria Adlawan | • Becky Lau | • Anna Mae Shishido |
| • Janet Allan | • Renee Leiter | • Maggie Sniffen |
| • Diane Carr | • Jennifer Rose | • Linda Tesar-Amimoto |
| • RoseAnn Chapman | • Fred Rymsha | • Irene Newhouse |
| • Mikki Clark | • Janet Rymsha | • Margi Calder |
| • Paul Kastner | • Enid Sands | • Sandy Viloria |
| • Perrisa Kilmer | • Vilma Seiler | • Robin Yamashita |



MNBG appreciates Kaunoa's RSVP partnership for its support of MNBG volunteers. Like MNBG, Kaunoa provides opportunities for people 55 and better to learn and grow through a variety of programs throughout Maui Nui. Call (808) 270-7986 for more information.

Wish List

- | | |
|-------------------------------|--|
| • Umbrellas | • Leaf shredder |
| • Garden gloves (all sizes) | • Wood chipper |
| • Rakes (leaf or landscaping) | • Pressure washer |
| • Medium sized picks | • Outdoor tables & chairs |
| • Shovels | • Hawaiian Miles (for interisland travel for staff training) |
| • Sickles | • 50+ inch television screen or power point projector |
| • Hand pruners (clippers) | |

NEW! Check out MNBG's wish list on AMAZON by visiting this link: <http://a.co/eWBZKw3>
We are no longer accepting drop offs of used plastic pots. If you have new or used cement or ceramic pots to donate, please give us a call and we will be happy to arrange a pick up.

Officers:

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Chris (Ikaika) Nakahashi

Vice-President

Diane Carr

Secretary

Janet Allan

Treasurer

Jennifer Higashino

Directors:

Kathy Baldwin
Andrea Buckman
Koa Hewahewa
Robert Hobdy
Ellen Osborne
Dorothy Pyle

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Horticulture:

Heidi Bornhorst

Hawaiian Culture:

Hökūlani Holt-Padilla
Nāpua Greig-Nakasone

Community Relations:

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Tamara Sherrill

Program Manager:

Whit Germano

Garden & Nursery Manager:

Chris d 'Avella

Kalo Varieties Manager:

Nameahea Hoshino

Grounds & Maintenance

Gardener:

Kara Ueki

Nā Hua Ho'ohuli i ka Pono

Intern:

Emmely Felipe

MEO Americorps Interns:

Marta Alvarez
Mary Alleca

CURRENT DONORS:

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Anne Carter
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Current Grantors:

County of Maui Office of Economic Development,
Hawai'i Tourism Authority, County of Maui Department of Parks
and Recreation, Ceres Trust, Anonymous, Hawaii Community
Foundation, Maui Nui Community Fund, Fred Baldwin Memorial
Foundation, the Zadoc W. and Lawrence N. Brown Foundation,
AHS Foundation, and the Kaulunani Program of the DLNR
Division of Forestry and Wildlife and the USDA Forest Service.

Ma'o Hau Hele

(\$1,000 - \$4,999)

Rose Marie Gooding
Raymond S. Higashi
Robert & Doreen Hobdy
Malamalama Maui Project
Maui Breadfruit Company
Papa Ola Lokahi
Jennifer & Charlie Rose
Beth Savitt
Ulu pono Fund of the
Hawaii Community Foundation

'Iliahi (\$500 - \$999)

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Murlin Marks
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Michael Williams & Linda Love

'Ilima (\$50 - \$499)

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Hokulani Holt-Padilla
Pamela Jayne
Bob Jones & Gayle Fernandez
Sylvia Jones
Kaho'olawe Island Reserve
Commission
Kahului Hongwanji Mission
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Hanna Hammerli
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Timothy Donahoe
Wayne Watkins & Helen Felsing
William & Judith Weaver
Robert & Helena Weltman
Elaine Wender
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Peter & Melinda Wing
Katherine & Robert Wirsing
Susan Wirtz
Larry & Joan Yokoyama

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 Galan Arakak
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 Ron Thomas
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 Kenui Nelson

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 Jennifer Akiona
 Darryl Amaral
 Christine C. Andrews
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 Lynn Araki-Regan
 Kathy Baldwin
 Louise & George Barr
 Reuben Batangan
 Kathy Bauman
 Heather Kuleana Benton
 Laura Berthold
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 Tyler Blythe
 Rosamond M. Bray
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 Cordell Chang
 Victoria Cheromcka
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 Hoku Chong-Imamura
 Claudia Clapton
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 Leihua Crabbe
 Ohai & Sheri Daniels
 Roxanne Darling
 Kay Deck
 Anna Lissa Dela Cruz
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 Dennys Eymard
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 Kaipo Like
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 Rance Villarimo
 Alvanette Ulu Vitcovich
 Mark Yoshida

In Memoriam

Dr. Isabella Abbott
 Lucy Feinberg
 W.S. Merwin

**MAUI NUI
BOTANICAL GARDENS****MISSION STATEMENT**

The mission of the Maui Nui Botanical Gardens is to foster appreciation and understanding of Maui Nui's plants and their role in Hawaiian cultural expression by providing a gathering place for discovery, education, and conservation.

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

**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

We are extremely grateful to all who have made donations to the Gardens over the years.

We make every effort to assure an accurate membership list; however, if your name was omitted or misspelled, please contact us at info@mnbg.org and we will be happy to update our records.

**Become a friend of
MNBG on Social Media!**

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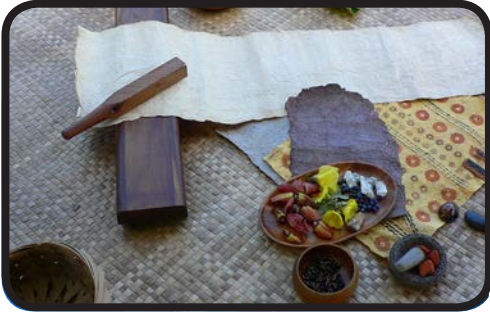
SAVE A TREE!

If you would like to receive your newsletters via email, please email us at info@mnbg.org.

You may also view them on our website: www.mnbg.org

MAUI NUI BOTANICAL GARDENS
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Kapa Making Workshop with Lisa & Lei
Saturday, June 8, from 9am-3pm
For more info, See Page 3

SUPPORT THE GARDENS & HELP NATIVE PLANTS THRIVE

Kupu means to sprout or grow. Just like the kupukupu ferns, you can help the Gardens grow through donations, memberships, bequests or by volunteering. Your contribution helps to ensure the survival and perpetuation of native Hawaiian plants and culture.

DONATE

Donations of monetary or in-kind contributions are greatly appreciated.

To contribute, please fill out the enclosed donation envelope, call 249-2798 or visit www.mnbg.org to donate online.

MEMBERSHIP

Yearly memberships help to fund important botanical and educational programs, research and conservation efforts. Fill out the enclosed donation envelope or call 249-2798 to become a member.

LEAVE A LEGACY

Play a lasting part in protecting Hawai'i's native plants through planned giving. Consider making a bequest to the Maui Nui Botanical Gardens in your will or trust. Call 249-2798.

VOLUNTEER

Give a gift of time. Volunteering at MNBG helps the Gardens accomplish many projects and also gives you an opportunity to learn about and work with native plants.

Join our Weed & Pot Club every Wednesday morning from 8:30 am - 10:30 am.

Call 249-2798 or visit www.mnbg.org for more information.