

NATIVE HAWAIIAN PLANT SOCIETY
NEWSLETTER FOR JANUARY 1989

* * *

ANNUAL MEETING

The NHPS annual meeting will be held on Friday, February 3, at the Kahului Library. The business meeting will convene at 6:30 when we will elect the year's Board of Directors. After this at 7, Art Madieros, Haleakala National Park research scientist, will give a slide presentation on Hawaiian Flora and Fauna. Our Canavalia haleakalaensis teeshirts will be available. Refreshments will be served.

VOLUNTEER PROJECTS

Feel like getting involved? Here's your chance to pull weeds, mend fence or do whatever else is necessary to keep native Hawaiian plants growing. Listed below are several opportunities to help.

The Nature Conservancy/Haleakala National Park joint projects: Throughout the year, these entities will work together on fence mending and weed control. The projects are slated for two or more days, usually on long weekends. You may join them for one or both days. Camping facilities are available for overnights (minimum 4 people to camp).

February 18 & 19; March 25 & 26; May 27 & 28; weed control and electric fence removal

July 10-14; brushing Kaupo fenceline and backcountry campout

September 2 & 3; November 11 & 12; open

There is a limit of 30 volunteers per day. Call Peter Connelly at HNP (572-9230) to sign up.

Banana Poka Eradication: Lorna Harrison and Anna Mae Shishido continue to lead the fight to eradicate this weed from 250 acres in the Kula area, the only place it's found on Maui. On Kauai and the Big Island, this pest has choked out thousands of acres of native forest. The State has begun to move on this question. To encourage the momentum, please send commending and encouraging notes to one or more of the following:

Mr. William Paty, DLNR, 1531 Punchbowl St. Honolulu, HI 96813

Mr. Yukio Kitagawa, Dept. of Ag., P.O. Box 22159, H'lu 96822

(Your representative) Hawaii State Capitol, Honolulu HI 96813

Gov. John Waihee, Hawaii State Capitol, Honolulu, HI 96813

To stop its spread on Maui, we must act now. Work parties will be on January 29, February 11 and 25. Call Lorna at 572-6338 or Anna Mae at 572-0306 to sign up.

Ed - 871-4891

Haleakala National Park Work Days: The Park is short-handed these days and needs help in weeding around the headquarters and other public places. Mary Evanson will coordinate a workday on the second Friday of each month. Call her at 572-9724 to help.

Lisa Raymond - 878-3564

Lahaina Harbor Work Party: the Lahaina Harbor native plant garden needs help. We plan to get together a group of volunteers to weed and clean, generally put it right. February 12 is the date, with Janet Allen and Linda Nelson coordinating. Interested? Call Linda at 661-4303.

AUWAHI PROJECT REPORT

The Auwahi Project was conceived by Rene Sylva in 1987. Its purpose is to preserve endangered and rare native trees located in Auwahi. This preservation process includes the following stages: determination and location of target species; fencing to exclude herbivores; control of exotic weeds; propagation; and replanting. Rene Sylva, in consultation with Robert Hobdy of the state Division of Forestry and Art Madieros of Haleakala National Park, picked nine target species in ten locations.

EXCLOSURE #1

The target tree in this enclosure is Ochrosia haleakalae (Holei). Other native species in the enclosure are one Nestegis sandwicensis (Olopuu) and one Alyxia olivaeformis (Maile). Alien species are Pennisetum clandestinum (Kikuyu grass) and Bocconia frutescens (Pan camarron). This enclosure is roughly square and measures 31' X 22'6" X 19 X 29 for a total of 101'6" of fence. The ground surface is rugged a'a lava with small patches of soil. Therefore, Kikuyu grass was not a major problem. However, it is difficult to eradicate because it is tangled with the Maile and will require careful manual control. Less than 20% of the enclosure was covered with Kikuyu grass. Elevation is 3650'. Two Ochrosia haleakalae (Holei) seedlings were planted in this enclosure, and one survives.

EXCLOSURE #2

The target trees here are two Streblus sandwicensis (A'ia'i). Accompanying them is one Nestegis sandwicensis (Olopuu) and one Pleomele auahiensis (Halapepe). Aliens include Kikuyu grass, Bocconia frutescens, and one Cinnamomum camphora (Camphor). This enclosure is located 25 yards east of enclosure #1 on a steep a'a slope. The enclosure is rectangular, measuring 68' X 36'6" X 57'6" X 26'6" for a total of 187'8" of fence. The Kikuyu grass has been sprayed once but needs more attention. Three Ochrosia haleakalae (Holei) and one Planchonella auahiensis (A'ia'a) were planted and are surviving.

EXCLOSURE #3

This enclosure is one of the largest, measuring 138' X 112' X 57' X 70' for a total of 377' of fence. It encloses the head of a rough a'a gully. The target tree here is Planchonella sandwicensis (A'ia'a), which is accompanied by Nestegis sandwicensis (Olopuu), several Chamaesyce celastroides (AKOKO), Alyxia olivaeformis var. myrtillofolia (Maile-lau-li'i), several Dodonea viscosa (A'ali'i), one Pipturus hawaiiensis (Mamake),

Pleomele auahensis (Halapepe), Osteomeles anthyllidifolia ('Ulei), and Coprosma pilosa (Pilo). It also contains the ferns Pteridium aquilinum var. decompositum (Kilau), Pteris and Asplenium adiantum-nigrum. The ground surface is steep a'a with some soil. It is located at 4000'. The main alien is Kikuyu grass. There are three sapling 'Ala'a under the crown of the big tree. On January 2, 1989, two Canavalia forbesii vines were planted in this enclosure.

EXCLOSURE #4

The target tree here is Santalum freycinetianum var. auahiense Stennermann ('Ili-ahi). This tree is supposedly the largest sandalwood tree on Maui. The other natives accompanying it are one Nothocestrum latifolium ('Aiea) and an 'Ili-ahi sapling. The ground surface is gently sloping, primarily dirt, covered with a thick mat of Kikuyu grass. The fence is roughly square, measuring 38' X 28' X 30' X 42' for a total of 138' of fence. The enclosure is located at 3850'. The Kikuyu has been sprayed and is presently under control. One 'Ala'a volunteer has come up in this enclosure since spraying the Kikuyu.

Exclosure #5

The target species herein is Myoporum sandwicense var. degeneri (Naio). This Naio is accompanied by one Claoxylon sandwicense (Po'ola). The enclosure is roughly square, measuring 23' X 19' X 25' X 20' for a total of 87' of fence. The ground is sloping and covered by a thick mat of Kikuyu grass. It is at 3850' elevation.

Exclosure #6

The target tree in this enclosure is a rather sad looking Alectryon macrococcum (Mahoe). Other species accompanying it are two Nestegis sandwicensis (Olopuu), one Osteomeles anthyllidifolia ('Ulei), one Nothocestrum latifolium ('Aiea), and one Cinnamomum camphora (Camphor). This location is at elevation 3400' on a fairly steep slope of a'a and soil covered with a thick mat of Kikuyu, which needs to be sprayed. The fence measures 56' X 55' X 47' 6" for a total of 158' 6" of fence.

Exclosure #7

A single Planchonella auahiensis is the only native species in this enclosure. The location is 70 yards south of enclosure #6. It is roughly square, measuring 19' X 22' X 20' X 21' for a total of 82 feet of fence. The ground is gently sloping, composed of soil and rock, and covered with Kikuyu grass.

Exclosure #8

Drypetes phyllanthoides (Mehamehame) is the only native in this small enclosure, measuring 17' X 15' 6" X 17' 6" X 16' 6" for a total of 66' 6" of fence. This small tree appears to be growing from a larger trunk that may have fallen over or possible it was pushed over. There is a pipeline close by and evidence of bulldozer work. The enclosure is located at 2700' elevation in a rough a'a lava flow where the ground is fairly level. Exotics found inside are Lantana camara (Lantana) and Bidens pilosa

(Spanish needle). These have since been removed by hand except for one large stubborn Lantana. The tree has been watered and fertilized. The area was also treated with a pesticide to control ants and termites. Subsequently, new growth appeared, the plant's appearance improved, and it is presently flowering.

Enclosure #9

This fence also encloses one Drypetes Phyllanthoides (Mehamehame) and one Nothocestrum latifolium ('Aiea). This Mehamehame is much larger than the one in the previous enclosure and stands about 20' tall. This tree is located approximately 40 yards southeast of enclosure #8. The fence is roughly square and measures 30' X 29' X 23' X 20' for a total of 102' of fence. Bidens pilosa and Bocconia frutescens are the aliens within the enclosure. The ground is rugged and, fairly level. The Mehamehame was infested with termites which were subsequently controlled by a pesticide. Fertilizer and water have been applied, but the tree's appearance has not changed markedly.

Enclosure #10

The enclosure is in the ahupua'a of Papaka Kai near LaPerouse Bay at 180' elevation. The target species is the vine Canavalia haleakalensis ('Awikiwiki). Also within the enclosure are Rauwolfia sandwicensis (Hao) and several Capparis sandwicensis (Mai'apilo). It is located in a recent lava flow. The primary alien inside the fence is Leucaena leucocephala (Koa-haole), made difficult to control manually due to deep rooting in the lava. Maui helicopters provided air time at fuel cost to drop of materials at this remote site. Ulupalakua Ranch provided a rock drill for setting posts in the pahoehoe. The fence measures roughly 70' square for a total of 280' of fence. Since the fence was built, the hao trees have sprouted new growth below the former browse line.

The work to date (1-15-89) represents 432 man hours of work by numerous volunteers, mostly NHPS members. It took 11 separate trips to accomplish this fence building. These figures do not include the first two enclosures for which no records were kept. A total of 1,580 feet of fence was built at a materials cost to the Plant Society of \$1,307.

Mr. C. P. Erdman kindly allowed the Plant Society to pursue this project on his Ulupalakua Ranch. Ms. Kathy Smith graciously and patiently coordinated the Plant Society's activities on the Ranch. The Ranch donated fencing materials, and their helicopter dropped materials at enclosure #10 when it was necessary to make repairs.

Thanks to Robert Hobdy and Art Medieros for their professional advice, guidance and labor. Our gratitude to the Nature Conservancy of Maui for their assistance and the loan of their 4-wheel drive truck. Thanks to Ron Nagata of Haleakala National Park for his concern and advice. Finally, thanks to the following volunteers and guests of the NHPS who contributed their valuable time, sweat and blood: Max Agather, Chris Alexander, Marion Ardoin, Pat Bily, Pat Conant, Tanee Connally, Cathy Davenport, Mary Evanson, Don Gard, Bob Getzen, Lurna Harrison,

Ross Hart, Torrie Haurez, Paul Higashino, Chuck Hirata, Steve Hodges Charles Lindsey, Steffanie Hagata, Cathleen Natividad, Linda Nelson, Alan Ornellas, Terry and Cynthia Guisenberry, Anna Mae Shishido, Jennifer Sykes, David Texeira, Euphence Vockrodt, and Mark and Linda White. --Peter Connally

KANAHA POND PLANTINGS

You may look forward to a beautiful Kanaha skyline in a few years. We have planted 100 coconut palms. That makes our 1988 contribution to the Kanaha Pond Wildlife Sanctuary landscape, an assortment of 150 native Hawaiian coastal plants. Heidi Mathison and Kimi Ouchi of Seabury Hall are analyzing the soil of our Ohai (Sesbania tomentosa) and Mai'apilo (Capparis sandwichiana) sites, and were certainly appreciate this help. Now, 75 plants are ready to be set out and we need your Kokua. If you can volunteer a definite time once a week, once a month or once a year, please sign up at our annual meeting or phone me at 871-4891.

3rd
Sat.

Thanks to the following dear people for their interest and help in our project: Anna Mae Shishido, Lorna Harrison, Martha Martin, the Miller family, the Bruces, Ian Kinneary, Seabury biology instructor Sandy Lee and son Troy; Mr. Dods of Safeway Stores, Inc.; Mr. Horneman of Hawaiian Cement; Nancy Bergau and Francis Lono of PBTG's Kahanu Garden; Meyer Ueoka, Bob Hobdy and Richard Nakagawa of the State DLNR; James Tavares of U.H. Agriculture Extension Office; the staff of U.S. Weather Service; Mr. Murray and Momi Magglente of UMS Realty Partners; and Susan Graham of Oasis-Maui. --Eda Kinneary

J. L. GRESSITT RARE PLANT SANCTUARY

This is our longest on-going project, dating from the planting of a grove of Koa trees (Acacia Koa) in 1984. In the intervening years we have put in access roads and paths and planted throughout the 62 acre preserve. Our plan is to establish viable colonies of rare native Hawaiian plants in this safe place. In 1988, we took time out to map and label the plantings. We also planted, weeded and generally maintained the Sanctuary. It was not all work. In September, we had a campout, setting up in a grassy area near the plantings. Highlights were a sunset picnic dinner looking down on the Maui coast with Molokai and Lanai in silhouette, and a hike next morning up the ridge trail to a point overlooking Honokahua Stream. Everyone agreed that we must make it a yearly event. So we will. Mark June 17 on your calendars as our next campout date. We will also have monthly work parties: March 12, April 16, May 21. Call Linda at 661-4303 to help.

I also want to thank the volunteers who helped: Janet Allen, Mike Nelson, Leslie Hiraga and kids, Lisa Raymond, Eda and Ian Kinneary, Russ and Kathy Riley, Kiope and Mark Raymond, Leslie Lawson, Lorna Harrison, Becky Lau, Ron Kawahara, and Anna Mae Shishido. --Linda Nelson

CONTRIBUTIONS

Besides the contributions of time, labor and money listed above, we want to thank the following for their generous support: Max Agather, George Theros, Mrs. Mary Moore, and Geary S. Mizuno.

MEMBERSHIP

As the year begins, it's time again to pay your yearly dues. Just fill out the form below and mail it to us with your \$5 check.

MEMBERSHIP FORM--NATIVE HAWAIIAN PLANT SOCIETY

NAME_____	CATEGORIES	INDIVIDUAL	JOINT
ADDRESS_____	REGULAR	--\$5	__\$10
CITY_____ZIP_____	SUPPORTING	__\$50	__\$55
PHONE_____	LIFE	__\$500	
VOLUNTEER___			
	DONATION___		

Mail to: NATIVE HAWAIIAN PLANT SOCIETY, P.O. BOX 5021, Kahului, HI 96732 .
