

**MAUI INVASIVE SPECIES COMMITTEE  
MEETING  
FRIDAY, DECEMBER 6, 2002  
9:00 AM - 12:00 NOON**

ATTENDANCE: Bob Hobdy, Randy Bartlett, Kim Starr, Forest Starr, Mach Fukada, Fern Duvall, Tina Lau, Erik Barnard, Teya Penniman, Christy Martin, Anders Lyons, Melissa Chimera, Mele Fong, Alex Michailidis, Mike Walker, Mike Ade, David Pyle, Steve Anderson, Laurel Murphy, Christopher Grasa, Clinton Fukushima, Jonathan Ciacci, Pat Bily, Allan Rietow, Alenka Remec, Keren Gundersen

- The meeting was called to order by Randy Bartlett (ML&P/Chair pro tempore) at 9:10 a.m.
- The minutes from the October 11, 2002 meeting were approved. They will be posted on the web-site.
- This is the last MISC Meeting for Bob Hobdy; DOFAW...Aloha `oe me ka mahalo nui loa nou kokua `oe! Bob is retiring at the end of the month.

**NEW BUSINESS**

PERSONNEL/FACILITIES

**New Personnel** (R. Bartlett)

- The MISC "Manager" has been hired! Aloha `oe, Teya Penniman, E komo mai i ka hale o MISC! Randy introduced Teya Penniman to the group. We have entered a brand new era in MISC Management.
- Teya noted that she has been on board officially for one week. She has had a chance get to know the staff and to observe some of the field operations. She is very impressed with the abilities and dedication of this staff and is happy to be here. She has already been exposed to some of our public relations work and the nuances of RCUH. Teya has had the opportunity to see some of the committee members at work and was able to attend the Vertebrate Subcommittee meeting last week. She is pleased to see all the resources that are coming together at MISC. She views her job as carrying out the objectives that the committee has set and ensuring that we have the resources to do the job. This involves marketing. She will be knocking on committee members' doors to get up to speed.
- MISC has two field worker openings that we are in the process of filling. We will be replacing Tiffany Kayama and Matt Snow. The positions should open in the next couple of days.

**Position Descriptions Review/New** (Teya Penniman, MISC)

- MISC would like to do an internal review of our overall structure and evaluate position management. We want to ensure that position descriptions match the work that folks are actually doing. Rather than looking at only a couple of individual positions we want to evaluate the entire operation. We will try to get started on this sometime in January.
- As a result of discussions at the last two Vertebrate Subcommittee meetings, we are moving forward with the development of a Vertebrate Position Description. We hope to have the position advertised at the beginning of January. We will advertise for three weeks on all islands in order to attract a strong applicant pool. There are still a few internal details to be worked out regarding the pager and firearms for this position, but the PD is ready to move forward and has been reviewed by Fern, Randy, and Steve.

### **Whither Goest MISC? (R. Bartlett, T. Penniman, E. Anderson)**

- MISC is moving forward with plans to relocate to the CTAHR Haleakala Field Station on Piihola Rd. We may need to have our herbicides and helicopter operations out of NifTAL by the end of the year in order for the County to complete an Environmental Assessment (EA) on the site. We are hoping they don't decide we have to move everything out by the end of the year. Steve asked if we know what all they are looking at with the EA. We still need to be concerned about the invasive plantings on the NifTAL site. Randy replied that they are primarily looking at chemicals. We realize that NifTAL has planted some things that we wouldn't approve.
- We are proposing MISC purchase two yurts to put on the Piihola site for office and meeting space. The park has been doing a lot of research into portable/temporary structures to house miconia crews in Hana, and we are tagging along on the results of their research. It looks like we could procure two 30' diameter yurts for ~\$24,000 not including shipping. This would give us 1,400 square feet of office space, and we can use the existing wooden building for gear storage. The materials for the foundations will probably cost another \$4,000. The state is OK with us re-budgeting some of this year's funding for the purchase. After we have the go ahead from the committee, we will need to put a re-budget through the University. We are looking at a minimum of two or three months before we can have the new buildings in place up there.

### **Burning Bush(els of Pampas Grass) (E. Barnard)**

- We have a Quonset hut full of pampas grass that must be removed before we move. Maui Pineapple was set to help us haul it all away, but the landfill will only take one truckload per day. At a rate of one truckload per day, it will take us at least two weeks to dump all of the pampas and it is not practical for Maui Pineapple to help us out.
- Randy put in a request to the Mayor's office to see if we can burn the pampas grass as a training exercise for local fire crews. If the Fire Department can't help us, we may need to ask DOFAW for fire control help if we are able to burn it.
- Anders noted that although he knows we have talked to HC&S before, he would be willing to try again to see if they can burn it for us at Puunene. Mach added that HDOA uses the incinerator at Puunene to burn confiscated material, but they are dealing with small amounts and there are logistical problems with getting it loaded.
- Erik concluded that the worst-case scenario would be that we have to pay to move it over an 18 day period.

### **BUDGET/FUNDING/REPORTS STATUS**

#### **MISC Budget Status (E. Anderson)**

- We are currently spending down the last of the FY 02 County funding. There will be a little bit of supply money left in that account to carry over to CY 03, but everything else should be spent down by 12/31.
- Our payroll is currently coming out of this year's NFWF grant.
- MoMISC's year-one HCF account is pau. Lori is being paid by the MISC State account right now. We expect the HCF year-two money to come on-line in January or February. MISC's year-one HCF funds will cover Mike Walker's salary through January.
- Our FY02 FWS account is spent out. There has been no word on when the FY03 \$25,000 from FWS will be available.

- With cost of yurts figured in and with some added payroll expenses we've incurred, we estimate our current accounts will see us through March, but we will need to have the new County funding in place with the University by then. We haven't factored in any additional materials, like dividers, for the yurts.
- The Hana crew account will carry the crew until mid-January with current funding.

#### **County Funding/Reports Update (T. Penniman),**

- MISC has submitted a 2003 proposal to DWS for \$200,000. The funding was already allocated and approved. Submission of the proposal was a follow-up action. It is an interesting transition time at DWS as the Board no longer has authority. The agreement needs to be approved by Corporate Counsel and then by the Director.

#### **Federal Funding/Reports Update/Haleakala N.P. (Steve Anderson, HALE-NP-RM)**

- Steve raised questions regarding the status of the \$50,000 the Haleakala NP committed to support bio-control research. The money is sitting in PCSU waiting to be used. These funds can cover exploratory work and/or the propagation of bio-control here at MISC. The funding is there, but the park hasn't been involved in setting up how the funds will be used. Randy noted that he saw Cliff Smith on Oahu recently. He was planing to talk to David about bio-control. Elizabeth mentioned that after Cliff's visit there were a number of bio-control purchase orders cut. Things appear to be moving forward again.
- Steve asked if funds are needed here at MISC for bio-control work. Erik responded that we have all the materials, but we don't have enough labor and we will be losing the autoclave when we move from NifTAL. Eloise is maintaining the culture, but she can't do more. Randy asked if we could take one of the autoclaves with us. Erik replied that even if we could, we won't have the facility for raising the cultures. Randy noted that we should explore the possibility of hiring someone to help Eloise.
- The revised draft of the Miconia EA has been distributed for review. If anyone wants to see it and did not receive a copy, let Randy, Jeremy or Alex know. The EA still needs quite a bit of flushing out. It is not currently clear what lands are covered. We need to make that very clear as far as the EA is concerned. The EA will go out to all landowners within the EA coverage area. There are also T&E species issues we need to clear up. Alex added that he doesn't know what lands are officially part of the Partnership. Forest asked how the private land in Nahiku is going to be dealt with. Steve replied that the EA only covers East Maui Watershed Partnership lands. Private land will be dealt with one-on-one using PR staff. Fern asked about endangered birds. Plants were addressed but not birds. Steve responded that birds will be addressed based on the best available information. The threat of miconia is far worse than the threat of our actions for endangered species.
- Pat asked if there would be any value in having sampling plots out there to quantify what is there. Even a limited survey might be better than nothing. We would have some data to back us up. Mike W. noted that the Heritage database could be helpful. Steve confirmed that they are planning on using the Heritage data, but we need to know the footprint of the EA first in order to see where there is overlap with the rare elements in the database. Fern asked who is ultimately in charge of the EA. Steve responded that it is in the hands of Jeremy and the State. Jeremy should contact Fern regarding addressing endangered birds in the EA.

#### **Federal Funding/Reports Update/USFWS**

- Fern suggested we should see if Katie Swift can come regularly to our MISC meetings. We need to make a direct inquiry to Earl to have Katie attend.

### **Federal Funding/Reports Update/USFS**

- We are mourning the loss of Duane Nelson. He is moving on to a Forest Service job on the West coast. We will miss his input. Duane has been instrumental!

### **NFWF**

- The semi-annual NFWF narrative report was submitted to Tri-Isle and NFWF. Erik, Mike Walker, Elizabeth, and Mele worked as a team to pull the report together.
- We also submitted another \$100,000 grant proposal to NFWF for the upcoming funding cycle. Mahalo to everyone who sent in support letters and helped us pull together in-kind contribution figures.

### **PR/EDUCATION STATUS REPORT** (Mele Fong; MISC)

#### **Community Outreach/Meetings**

- Mike Walker and Mele attended the GISP “Prevention and Management of Invasive Alien Species Workshop” at Bishop Museum in Honolulu, October 15-16. Mike presented a poster on how MISC uses GIS to record data on tracking miconia.
- Mele attended both the CGAPS and all ISC meetings in Honolulu on November 7. Mele gave the MISC report in lieu of Randy who couldn’t make the meeting. Afterwards, Mike from OISC, Keren from KISC, and Mele discussed the need for a unified plan to redesign the ISC web-sites. Mele also suggested having an all day ISC meeting to work on common issues such as web-site redesign, infrastructure lessons learned, and strategic planning. There was a budget meeting at PCSU November 8. Mele attended the meeting for MISC and brought back spreadsheets and plans for tracking all ISC budgets.
- Mele attended an Earth Day Planning Meeting at Maui Nui Botanical Garden. Earth Day is April 19 this year. We are hoping to involve locals in celebrating Earth Day through hands-on activities, music, and information on jobs in conservation that connect our Hawaiian culture to the environment. MISC will participate by staffing a booth, leading children’s activities, and having staff to talk to youth about jobs in conservation. Mele submitted written comments to the proposal that was used to solicit participation from conservation organizations.
- MISC had three crew staffing a booth at the Maui Lawn and Garden Fair sponsored by Maui Association of Landscape Architects and Maui County at Queen Kaahumanu Center on November 9. We talked to over 106 people. One landscaper wrote on the comment sheet “Invasive decorative plants are still being imported and available at nurseries for sale. Major landscapers continue to install invasives if clients request it!” Mele talked with Mayor-elect Alan Arakawa at the MISC booth. He will be hiring an environmental coordinator, and MISC will need to be at the table when budget discussions commence.
- Christy Martin organized a Pest Update at the State Capitol on November 14. Mele talked to Channel 2 News reporter about the update. The story led off that evening’s news.
- Mele has simplified the EMI permit process for miconia in Nahiku and Keanae. It will be easier for us to request permit extensions in the future.
- Mele attended a Proposal Writing Workshop on November 18.

#### **Veiled Chameleon in Makawao**

- See the vertebrate section below for a detailed discussion. Press releases were sent out on November 22 to let the public know MISC would be posting flyers and searching the Makawao area for veiled chameleons. Articles appeared in The Maui News and The Honolulu Advertiser, and KITV ran the story on November 23. Radio spots were heard on KNUI on November 25.

## Products

- We have a new “Media Coverage” binder for press releases sent, copies of actual articles printed, and summaries of each related event. We also have a new binder for “PR Products – Pest Alerts, Plant Flyers, and other publications.”
- A veiled chameleon Pest Alert flyer was developed (see the vertebrate section below).
- A handout on “Resources to Learn What Not to Plant and What To Plant” was developed in response to an email request from a landscaper.
- Products in development include: “How to respond to invasive species call-in reports/phone tree” and a MISC Brochure for the Legislature
- We also will be working with all the ISCs to redesign the web pages that are attached to the HEAR site. We hope to develop a template for all the ISCs. Christy noted that there is some movement on the web-site redesign. USGS may be hiring a person who would be one of the folks targeted to redesign the web-sites. Mele added that there is a Conservation Hawaii web-site that she found that seems to be more public oriented and user friendly. We should look at making a site that is more external and geared toward the public.
- Mike W. asked why the web-site is under USGS in the first place. Forest noted that it is free. We could get our own domain name. Mike added that it is only \$75 to get the name. Randy commented that Philip offered to deal with it when MISC first started and at the time we didn’t have the expertise to do it ourselves. Mike continued that it seems like it might be time for a change. Randy suggested that we could get off the HEAR site and have links to it. It would be nice to be consistent across the ISCs and have the same public face for the all ISCs. We need a new look. Mele suggested that CGAPS should possibly be the main face. Christy added that it is a priority and we should be able to do it within the next year.

## MOMISC UPDATE (Tina Lau; TNCH-Moloka`i)

- Things are going well. Lori is now working 32 hours a week, and with the increased time she is doing more field work and working more with volunteer groups. She has been working both with paid TNC volunteers and also with long term residents. Lori completed OAS helicopter training last week, and she completed the Restricted Use Pesticide class in July. She is still waiting to take the test when HDOA gives it on Molokai again. Lori is focusing on field activities.
- There have been six days of work done on cat’s claw. We are continuing ground control on outlying populations in East Kalae. Stumps are being treated with Garlon 4. There were 1,791 seedlings pulled. We are conducting herbicide trials to see if we can spray the seedlings rather than pull them. Volunteers and TNC staff did one day of work on Barbados gooseberry,
- We have been surveying around the known gorse population. We found one plant with immature seeds. The main population can be dealt with, but we need to keep looking for outliers. Pat noted that he usually thinks of gorse as having limited dispersal. He wonders if francolins eat it. Gorse populations are exploding on Haleakala Ranch right now and there may be an animal vector. Tina noted that the francolin population on Molokai has exploded.
- The flax herbicide trials that we started in September are continuing. Creighton will be coming over in January to help us out.
- We cut a 100 x 100-foot population of arundo and treated it with 1.5% Round-up Pro. After one month, the plants were hardly affected and there was a lot of re-sprouting. We will need to retreat with a higher

percentage solution. Forest suggested a 100% cut stump application with a repeat every month. Tina asked if anyone has any success spraying the re-sprouts. Erik responded that re-sprout spraying is effective, but you must revisit often. Mike Ade continued that as soon as the leaf unfurls you should spray it with 2%, but you must keep revisiting.

- Australian tree ferns continue to be for sale at the nursery. We have given the nursery information. It needs to be added to the noxious weed list. We also found four Hawaiian tree ferns at the nursery with clidemia. We have consulted with HDOA. It is illegal to sell the plants with clidemia on them, but since MoMISC has no authority we need to request HDOA assistance for follow-up.
- There has been a bulbul reported on Molokai. The person reporting it saw the poster in the post office. After his report, Tina tried calling the numbers on the poster. All of the numbers are no longer valid except the one for the Cooperative Extension Service and they didn't know what to do. The poster needs to be revised. We contacted Fern for follow-up. Fern added that the person did not want to give access to his property, but said he would shoot the bird. We told him he must produce the bird but that hasn't happened yet. If nothing happens in another week, we will need to go in with a strong arm. At this juncture the sighting is still considered unconfirmed. We need to get access permission or a photo so we can confirm the identification before we go in to deal with it. Christy asked if a pest alert had been posted. Fern noted that this is the first report from Molokai.
- Forest asked if we are going to follow-up on shama on Molokai. Fern replied that they are well distributed on Molokai already. The numbers have built up. This is something we have talked about in the vertebrate subcommittee meetings. We really need to have our eyes open. They will show up on West Maui first.
- The next MoMISC meeting will be January 15, 2003 at the Plant Materials Center.

#### HEAR PROJECT UPDATE

- No report: Philip is in North Carolina and Lloyd is in Washington, DC.

#### **FIELD WORK**

**See the attached Activity Summary for an overview of the MISC crew's schedule since the last meeting.**

#### VERTEBRATE CONTROL UPDATES (Fern Duvall; DOFAW)

##### **Vertebrate Subcommittee Workshop on 11/25** (F. Duvall)

- We have had two subcommittee meetings on vertebrates. The first goal was to define the issues. In the second meeting we began a decision/action matrix. We looked at all the categories of vertebrates and defined action categories in the matrix for each species. For birds there are all sorts of legal mandates involved and we will need to take them into account. MISC now has a frame of reference for vertebrates for the first time and focused actions to take in the future.
- The MISC position is "No new vertebrates in Maui County."

##### **Parrot-Type Birds** (F. Duvall)

- During the vertebrate subcommittee meetings we prioritized bird species for action. It was agreed that the top priority will be the Molluccan cockatoos in Waikapu. We need to train an Invasive Bird Survey Team. We should involve Molokai and Lanai and other crews in this process.
- We plan to survey the conures in January so we can provide information to Wildlife Services for a control contract.

### **Frogs (E. Barnard)**

- There has been a lot happening statewide and a lot of agency involvement. The USDA is trying to get permission for federal employees to use caffeine and also get a label for use of citric acid, which is not restricted. There is a big discrepancy between the wildland and nursery situations. There will be an attempt at eradication.
- UDSA has funding and is pushing for the caffeine label. FWS is working on the label for general use of citric acid, which would include homeowners. There also is hand-picking going on where possible.
- Laurel Murphy noted that she has friends on the Big Island whose property is infested. It is horrible to try to spend the night in an area that is infested. You can't sleep. The Big Island is being written off. Frogs could destroy the hotel industry. She wants to know what the Maui Outdoor Circle can do to help. Fern replied that it would be good for the Outdoor Circle to be part of any PR announcements we do. Take our flyers to all of your functions and coordinate with Mele. Laurel continued that she is trying to get Val Monson to do a big article on frogs. The Outdoor Circle is happy to call the legislature or do whatever else is needed. Randy confirmed that MISC will let the Outdoor Circle know when it is time to go to the County for funding, etc. We would love to have the Outdoor Circle assistance and support on this.
- Mach added that if any of the crews see dead frogs, he is very interested. There is a fungus that we think could help with the coqui. If you find dead frogs, take down information on where they are found (elevation, etc.) and bring a few back in a ziplock bag for us.
- Fern noted there are DLNR regulations that prohibit moving frogs and HDOA law allows moving them. HDOA has said they will conform, but there are issues of economic impact. Randy added that HDOA isn't likely to change unless there is a directive from the new director. Steve noted that there are two sides to the pro-business issue. We need to hit the other side of the pro-business issue.
- Forest asked about the status of the greenhouse frogs. Fern replied that we need better identification on where they are and we need to wait for the citric acid tests to be done. It is more likely going to be spot control than eradication for them.

### **Veiled Chameleons (F. Duvall)**

- Erik, Mele, and the MISC crew did a great job dealing with the chameleons. Things went like clock-work. A dead male veiled chameleon was found November 13 in Makawao. A "Pest Alert" for veiled chameleons was developed and posted in Makawao, given to homeowners around the neighborhood where the animal was found, and given to HDOA and DOFAW offices. An initial search on December 3<sup>rd</sup> showed that our worst fears were true. Two females were found and one was pregnant. Fred Kraus (Bishop Museum) joined us for an additional search on December 4. Domingo and Lisa from HDOA also participated. The second search yielded one male and three juveniles. All of the animals were turned over to HDOA in Honolulu. We need to conduct additional searches to estimate the size and geographic extent of the population. It will take a lot of skill to deal with the homeowners. The night surveys were easier than the morning and had less impact on the residents. We do know they are breeding in wild.
- Forest asked if we have any idea how long the chameleons have been here. Fern replied that we don't know that, but we do need to find out. It takes 60 days for the eggs to hatch. It has been at least that long, since we are seeing young juveniles. The first report came from West Maui. The crew (especially Sam) is getting an eye and a search image. Forest asked about the chameleon collector's house. Assuming it came from there, can we search his house? Fern responded that it is not easy. There are all sorts of concerns. The neighborhood has had robberies by people saying they were chameleon hunters. We are looking at the drainage primarily. We have indication that some were taken out of the area also.

- Fern said that we need a strategic plan. We need to estimate the size of the population and plan surveys for at least a year. The PR needs to be statewide and HDOA is concerned about how we do that. The fear is that Jackson's chameleons spread because of PR. We think that where the chameleons are being found is a result of intentional releases. PR will help us find the cores, but HDOA is afraid PR will encourage people to move them. We need to reconcile this. Fred has a great picture of a veiled chameleon with a fully feathered bird the size of an apapane in its mouth. We need to get a copy of the picture from him. Veiled chameleons could range all the way up to the top of the mountain. Ecologically they function like a snake, but in reality they are worse because they can occupy a wider range of habitats. Veiled chameleons are a very glamorous animal so the PR will be difficult.
- Teya reiterated that landowner cooperation will be a key. There is a ditch along which the animals could move. We have 10-12 people down there with flashlights. Dogs are barking and babies crying. We are disturbing the community. Fern noted that the situation was handled admirably by MISC. Randy asked if the searches could be done in daylight to minimize the impact. Fern replied that the chameleons weren't seen in the daylight in areas where we did find them later at night.
- Fern emphasized that every time you see a chameleon, you should look at it and not assume it is a Jackson's. Steve asked how we should deal with Jackson's being so popular and legal to sell, etc. Christy suggested that we need to differentiate between them ecologically. Fern added that the flyer is good. It is really helpful in getting people to ID them. We did have cat-callers while we were out searching saying "save the Jackson's." Randy suggested that we make room on the flyer to show native birds and what this creature is going to threaten. We can give a visual impression of what is at risk. Alenka commented that the average person doesn't care about native birds. We need to get something that people care about like disease. Fern continued that we do have people who are pro-frog. It won't be hard for the same thing to happen with the veiled chameleons. Our PR needs to be really well thought out, but it needs to happen now. These animals are probably being purposely released in ideal habitat. They are a hot item in the pet trade. It is illegal to have them. HDOA is very concerned about the chain of possession. These animals are on a list that federal authorities track.
- Erik asked if there is a possibility of getting information on the suspected breeder to see if there is any connection between him and the Lahaina reports (i.e. maybe he works in Lahaina). Teya noted that what people are talking about is enforcement and MISC can't do that. Fern agreed that MISC's role should be PR and education and actually seeing if we can deal with them in the field. If we assume there are other clutches, we are condemned to continue looking. Randy suggested that Forest has a good point. The person who is releasing them may be doing it intentionally and hoping that they will get to the same point as the Jackson's where they can be sold legally. Randy added that since we have a new administration and a new director, maybe we can get some support. Christy commented that she did get a call from Earl stating that Domingo would like her to meet with their PR folks.
- Alex asked if we could get somebody to put up rewards? An award might lead to incrimination and turning in the person who is doing this. Fern countered that there is no funding to do that. Alenka asked if we could establish a reward with private funds.
- Fern noted that there is a discrepancy in agency mandates. DOFAW is concerned about them in wild. HDOA's concern is getting the person who is releasing them. We don't want people moving them around. Randy asked if an anonymous phone call is enough to start an investigation.
- Pat asked if anyone knows what happened to the guy who got busted for a bunch of exotic animals. Christy said the attorney general was involved. Mindy asked what evidence is needed to get a warrant. Pat suggested that we will keep re-visiting this issue until we deal with the bigger picture. There is obviously a

black market pet industry going on here. There is a trade and there is a network of individuals. Mach continued that it isn't illegal to send them through the mail. First class mail can't be touched unless you have a warrant. Fern noted that exporters do break federal law by not labeling live animals in the mail.

- Randy emphasized that this issue needs to be dealt with at the CGAPS level. If we can keep the publicity high, we can make it an issue when the new legislature starts. Laurel suggested that new legislation is needed. We need someone to put it forward and decide where to push. Alenka asked what exactly needs to be changed. Fern replied that it is very difficult to get a warrant. Judges are reluctant to issue a warrant. Forest asked if the state law is strict enough. Fern replied that it is difficult to go through the judicial system and get the warrant. There have been two cases of known snakes with more evidence than this and we couldn't get a warrant for those. We need to elevate this to a higher level issue.
- Teya suggested that it would be helpful to have a review summary of the different agencies' roles, what legislation exists, what the punishments are, etc. This way we can evaluate if what is in place is adequate and define what is needed to get a warrant. What are the specifics we should collect in the field to help an agency get a warrant? Should MISC pull something like this together? Randy responded that a consolidated summary would be helpful.
- The Committee agreed that MISC should plan on moving forward with the next steps. Fern also suggested holding a meeting at Eddie Tam with the community to discuss what we would like to do and how. With Fern's assistance, MISC will develop a strategic plan for chameleons. Mach added that we should get Bob Yonahara involved because Domingo may not always be available.

#### PLANT CONTROL UPDATES (Erik Barnard; MISC)

- We are going to try a new method for reporting plant activities. We passed out a summary of our results since the last meeting. We plan to start sending a results summary via email before the regular meetings.

#### **Miconia**

- We assisted with a Sierra Club miconia service trip. Four people participated. We took them up to the Hana Ranch pasture and loaned them gear. The group killed 384 plants including several seeding trees and covered ~50 acres. Everyone came out alive and had a good time. The group was really interested and the trip was a success. After the holidays we will get together with the Sierra Club to set up another trip. Alex requested that in the future if we do something with one of the East Maui partners, we include him in the loop.
- Pat reminded the group that he has responsibility for the western miconia populations. He hasn't been able to reach his old contacts for access lately. He is going to need to work a little more closely with MISC as a result. We will need to go over the TMKs and we may need to send out letters. Pat will need more help from MISC with the satellite populations than he has in the past.
- Fern mentioned that DOFAW has the Koolau hunter volunteer group. It would be good to go to one of their meetings and talk to them about miconia. There is a potential for them to be a vector when they move from one area to another. Pat added that he tried to get the message out via the Hunter Education program awhile ago. He was told there wasn't room in the course for additional topics. It might be time to try again now that it has become a bigger issue.

#### **Miconia Hana Crew (B. Hobdy, DOFAW)**

- The crew continues to do a thorough job moving through the forest. We did two days of aerial work recently. Glenn has noticed that the number of loads of herbicide going out is decreasing. They are finding fewer large trees out there. This is due to the crew's thoroughness. There is much less new growth coming up.

- We were over on Lanai for a Watershed Symposium and we visited the fountain grass site at Kanepuu. The numbers there are decreasing. We found only about two dozen, but it was good we went because the ones we found were going for it. We controlled them.

### **Pampas Grass**

- We knocked out all of our pampas way-points via aerial surveys during the last round of Kona weather.

### **Ivy Gourd Bio-Control (Mach Fukada, HDOA)**

- Mach said that he has a conference call this afternoon to discuss the status of the next two insects that HDOA will release. It seems like the weevils are doing well. Mach hasn't gotten back to monitor as much as he hoped. Mach will need some biomass to establish the next bio-controls. He will have a new stem-boring weevil. We don't have the biomass here on Maui to really establish many of them here.
- With miconia, if they do find a good bio-control agent, we run into a problem with who propagates and releases it. The problem is having the manpower and resources to follow through.

### **Other Business**

- Forest noted that there are samples of two *Piper* species on table (*Piper aduncum* and *Piper auritum*). If anyone in the field sees these plants, please report the locations to us. Lloyd thinks the *Piper aduncum* might be the next miconia. It definitely is spreading in the Nahiku area.
- Fern added that we had two recoveries of a naturalized weed for West Maui --- starfish flower (*Stapelia nobilis*). It is very obvious when it flowers and it smells like carrion. Forest asked if we should take it on as a target. Fern continued that one patch is ~3m long. There is one small patch along the Lahaina Pali Trail and a larger patch at Hana Ula. Hank may know about others. Randy will check with him.

**Next Meeting Date/Time: Friday, 2/07/02, 9am-12noon**

### **MISC ACTIVITY SCHEDULE October 14 to December 6, 2002**

- 10/14 Miconia: Travel to Hana, camp setup, new employee training (Mike A., Jamie, Sam, Russ, Tiffany, Shannon, & Jin-Wah)
- 10/15 Miconia: Hana, rain-out (Mike A., Jamie, Sam, Russ, Tiffany, Shannon, & Jin-Wah)
- 10/16 Miconia: Hana, rain-out (Mike A., Jamie, Sam, Russ, Tiffany, Shannon, & Jin-Wah)
- 10/17 Miconia: Hana Ranch, training and control (Mike A., Jamie, Sam, Russ, Tiffany, Shannon, & Jin-Wah)
- 10/18 Miconia: Hana Ranch, return from Hana, decontamination (Mike A., Sam, Russ, Tiffany, Shannon, & Jin-Wah)  
Vertebrate Sub-Committee Meeting at MISC (Erik, Jamie, Mele, & Elizabeth)
- 10/21 Helicopter Water Ditching Survival Course (Mike A., Jamie, Sam, Tiffany, Shannon, & Jin-Wah)  
Pampas Grass: Kula (Russ)
- 10/22 Helicopter Manager Course (Erik, Mike A., & Jamie)  
Ivy Gourd: Kapalua (Sam, Russ, Tiffany, Shannon, & Jin-Wah)
- 10/23 Helicopter Manager Course (Erik, Mike A., & Jamie)  
Ivy Gourd: Kapalua (Sam, Russ, Tiffany, Shannon, & Jin-Wah)
- 10/24 Helicopter Manager Course (Erik, Mike A., & Jamie)  
Ivy Gourd: Kapalua (Sam, Russ, Tiffany, Shannon, & Jin-Wah)
- 10/25 Helicopter Manager Course (Erik, Mike A., & Jamie)  
Ivy Gourd: Kapalua (Sam, Russ, Tiffany, Shannon, & Jin-Wah)

- 10/28 Ivy Gourd: Kapalua (Mike A., Jamie, Sam, Russ, Tiffany, Shannon, & Jin-Wah)
- 10/29 Helicopter Recon: Pampas Grass, Upcountry & W. Maui (Erik, Mike A., Sam, & Russ)  
Office projects & decontamination (All field staff)
- 10/30 Helicopter Recon: Miconia, Nahiku (Mike A., Sam, Jamie, Russ, Tiffany, & Mike W.)  
Arundo: Kahalui (Russ, Tiffany, Shannon, & Jin-Wah)
- 10/31 Arundo: Kahalui and Kula (Mike A., Russ, Tiffany, Shannon, & Jin-Wah)
- 11/1 Arundo: Waikapu Reservoir (Mike A., Jamie, Russ, Tiffany, Shannon, & Jin-Wah)
- 11/4 Chainsaw training and NPS fuel reduction (Mike A., Jamie, Russ, Tiffany, Shannon, & Jin-Wah)
- 11/5 Election Day Holiday
- 11/6 Chainsaw training and NPS fuel reduction (Mike A., Jamie, Russ, Sam, Tiffany, Shannon, & Jin-Wah)
- 11/7 NPS fuel reduction (Mike A., Jamie, Russ, Sam, Tiffany, Shannon, & Jin-Wah)
- 11/8 Arundo: Waikapu Reservoir (Mike A., Jamie, Sam, Russ, Tiffany, Shannon, & Jin-Wah)  
TIAA-CREF Retirement Seminar (Erik, Mike A., Sam, Russ, Mike W., & Elizabeth)
- 11/9 Lawn & Garden Fair, Maui Association of Landscape Architects (Mele, Jamie, & Jin-Wah)
- 11/11 Veterans Day Holiday
- 11/12 Arundo & Pampas Grass: Kula (Mike A., Jamie, Sam, Russ, & Jin-Wah)
- 11/13 Pampas Grass: Kula (Mike A., Jamie, Sam, Russ, Shannon, & Jin-Wah)
- 11/14 Arundo: Kula (Mike A., Jamie, Sam, Russ, Shannon, & Jin-Wah)
- 11/15 Fountain Grass: Waiehu (Mike A., Sam, Shannon, & Jin-Wah)  
Pampas Grass: Olinda (Shannon & Jin-Wah)
- 11/18 Miconia: Upper Nahiku, travel to Hana, camp setup (Mike A., Sam, Russ, & Jin-Wah)  
Fountain Grass: Kahalui (Jamie & Shannon)
- 11/19 Miconia: Upper Nahiku (Mike A., Jamie, Sam, Russ, Shannon, & Jin-Wah)
- 11/20 Miconia: Upper Nahiku (Mike A., Jamie, Sam, Russ, Shannon, & Jin-Wah)
- 11/21 Miconia: Upper Nahiku (Mike A., Jamie, Sam, Russ, Shannon, & Jin-Wah)
- 11/22 Miconia: Upper Nahiku, return from Hana (Mike A., Jamie, Sam, Russ, Shannon, & Jin-Wah)
- 11/23 Miconia: Hana, Sierra Club Trip (Mike W.)
- 11/25 Fountain Grass: Kahalui (Sam, Russ, Shannon, Jin-Wah, & Bessie)  
Vertebrate Sub-Committee Meeting at MISC (Teya, Mele, Erik, & Elizabeth)
- 11/26 Helicopter Spray Operation: Pampas Grass, Honomanu (Erik, Jamie, Russ, Sam, & Bessie)  
Veiled Chameleon: Makawao door-to-door canvassing (Mele & Shannon)
- 11/27 Helicopter Spray Operation: Pampas Grass, Honomanu/Iao (Erik, Jamie, Russ, Shannon, & Bessie)
- 11/28 Thanksgiving Holiday
- 11/29 Ivy Gourd: Kihei (Jamie, Shannon, & Bessie)
- 12/2 Ivy Gourd: Kihei (Jamie, Jin-Wah, & Bessie)  
Ivy Gourd: Paia & Kahalui (Russ & Shannon)
- 12/3 Veiled Chameleon: Makawao survey (Teya, Erik, Mele, Jamie, Mike W., Russ, Sam, Shannon, Jin-Wah, Bessie, & Anna Mae Shishido)  
Ivy Gourd: Kahalui (Jamie, Russ, Sam, Shannon, Jin-Wah, & Bessie)
- 12/4 Ivy Gourd: Kihei (Jamie & Jin-Wah)  
Rubber Vine: Kahalui (Russ, Sam, Shannon, & Bessie)  
Veiled Chameleon: Makawao survey (Teya, Erik, Mele, Russ, Sam, Shannon, Jin-Wah, Bessie, Fern, Domingo, Fred, Lisa, Anna Mae, & Mach)
- 12/5 Ivy Gourd: Kapalua (Jamie, Sam, Russ, Jin-Wah, & Bessie)  
Moluccan Cockatoo: site visit and planning (Teya, Erik, Jamie, Russ, Fern, Trevor, & Creighton)
- 12/6 Ivy Gourd: Kapalua (Jamie, Sam, Russ, Jin-Wah, & Bessie), MISC Meeting