

**MAUI INVASIVE SPECIES COMMITTEE  
MEETING  
THURSDAY, AUGUST 29, 2002  
9:00 AM - 12:00 NOON**

ATTENDANCE: Mach Fukada, Mindy Wilkinson, Fern Duvall, Randy Bartlett, Lloyd Loope, Philip Thomas, Earl Campbell, Pat Bily, Kim Starr, Forest Starr, Steve Anderson, Christy Martin, Mele Fong, Nathan Varns, Alex Michailidis, Art Medeiros, Jeremy Gooding, Erik Barnard, Mike Walker, Mitch Craig, Mike Ade, Creighton Low, Mark Ono, Trevor Lu, Elizabeth Anderson

- The meeting was called to order by Randy Bartlett at 9:20am.
- The minutes from the June 7, 2002 meeting were approved. They will be posted on the web-site.
- Aloha `Oe PR/Education Specialist(s) Christy Martin and Mele Fong. This is Christy's last meeting as the MISC PR Specialist. Christy will be moving on to Oahu shortly. Her last day at MISC is September 10. Christy's replacement, Mele Fong, was introduced. Mele officially starts work at MISC on September 4.

**NEW BUSINESS**

NEW STAFF RECRUITMENTS (E. Barnard)

- MISC is in the process of hiring five new staff members, two field crew supervisors and three field crew workers. We hope to have all five on board by October. The following people have been selected and hiring is pending approval by RCUH.
  - Mark Frey, Field Crew Supervisor;
  - Jamie Bruch, Field Crew Supervisor (EPMT Account);
  - Tiffany Kayama, Field Crew Worker;
  - Jin-Wah Lau, Temporary Field Crew Worker;
  - Shannon Wianecki, Temporary Field Crew Worker.

COORDINATOR PD REVISION STATUS (R. Bartlett)

- The revised MISC Coordinator Position Description has gone in to RCUH. Nelson Sakamoto is making a few last changes before the PD is approved. There will be an ad going out for the position in a week or two.
- Forest asked what the major revisions to the PD were. Randy replied that the scope of work was changed shifting the position to more of a fundraising focus to deal with the Legislature, County Council, etc. There will be less day-to-day management and more writing of proposals and reports. The position is a little higher end. There were enough changes that RCUH felt it would be an entirely new position and would need to be advertised.
- Erik added that although Jack could not be at today's meeting due to a neck injury, he is 100% committed to MISC and planned on remaining in the Coordinator position. He hopes the ad for the new job will be in-house. Jack has stated that if the position goes out as a full posting he will not reapply.

BUDGET/FUNDING STATUS REPORTS

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

- We are currently continuing to operate on County funds. Those funds will take us into early October at which point we will be set to switch over to NFWF. We have just finished meeting our NFWF match and the \$100,000 NFWF account through Tri-Isle is up and ready to roll (Three Cheers!). NFWF funds should take us through January and after that our State fund should carry us into

May/June. This year's State funding is being handled differently than in previous years. The funds will need to be used up by the end of the fiscal year in June. In the past, we've been allowed to roll these funds over into the next year to provide a cushion until other sources come on-line. This could make things a little tense in June/July this year.

- Current Hawaii Community Foundation funding should carry Mike Walker through January. We will need to ask for an extension on that account. It is set to be pau the end of November, but since the account was very late getting set up (March) we will not have spent down the entire one year award by November. The MoMISC HCF account should see Lori Buchanan through November.
- Earl mentioned that FWS is concerned that funding isn't being drawn down in the accounts they have for the ISCs. Elizabeth noted that this might be an RCUH invoicing issue. MISC has been continually drawing down our FWS/RCUH funds, but RCUH may not be invoicing FWS in a timely manner.

### **County Funding Update (Nathan Varns)**

- Nathan passed around a current budget of MISC Tri-Isle accounts from their Financial Manager, Michelle.
- The County has approved funding for MISC again this year. The OED \$200,000 will include \$50,000 earmarked for fireweed. The proposal is in OED hands now and will be ready in 3-4 weeks. The Department of Water Supply also approved another \$200,000.
- Christy noted that we tried to send a message to the County this year that we are doing more than miconia. As a result, they put all the invasives money into one lump including fireweed. They think they gave the money to us. The fireweed results are consequently going to reflect on us this year. We need to make sure the fireweed operation is sound. This past year they didn't spend down their funding very well and the program was not effective for at least 2-3 months. The fireweed folks are happy for the help we've given them.
- Lloyd noted that the program sounds ineffective. It seems obvious that fireweed should be an integrated pest management program rather than an eradication effort.
- There is a meeting scheduled for 1:30pm this afternoon with Tony Durso, Mark Redeker, and Nathan to discuss how we will handle the County money through MISC for fireweed. Fern asked if there is a formal memo of understanding with MISC for fireweed. Randy replied that there isn't but that is something we should discuss.
- Christy continued that the fireweed program does have a good educational message regarding reseeding pastures. Philip asked if the County understands the difference between the concept of fireweed control and MISC's goals. Christy replied that we can't say we are out eradicating stuff with all the miconia work we do. A lot of the educational material we put out to folks will be confusing because they don't have a grasp of the difference between control and eradication. We rewrote the fireweed proposal because they were using the "E" word instead of the "C" word in last year's proposal.
- Elizabeth mentioned that we should be aware that out of the \$400,000 in FY03 County funds, MISC will only see ~\$160,000. There will be \$50,000 taken out for fireweed, \$40,000 for Tri-Isle's overhead, and ~\$150,000 to support the Hana miconia crew. This is substantially less than the \$320,000 we had to work with this year.

### **State Funding Update**

- MISC's FY03 DLNR/FS account with RCUH is open with a \$50,000 advance.

### **CGAPS Legislative Committee Meeting (Earl Campbell)**

- The meeting was canceled because Lyle Wong was not able to attend. It was critical for him to be there. It will be rescheduled for next week (either Wed. or Thur.) when Lyle and Mike Buck can both attend. We will be pushing some issues for the Dept. of Agriculture including quarantine issues. We hope the CGAPS steering committee will be there and representatives from the ISCs. It is an open meeting. Mark Fox's staff will nail down the date.
- Steve Lohse has been working on an invasives plan for the state. The skeleton of the plan is complete. It will be handed out to people for review. It is a template for the new administration regarding what can be done with invasives. It should also help with securing federal funds and it will serve as a guideline for (HISC).
- Mindy indicated that the first HISC meeting will be at the end of September/early October.

### **Haleakala National Park Funding Update (S. Anderson)**

- The NRPP soft money project for miconia was approved --- \$828,000 for miconia over three years! This provides a strong statement from the NPS that they are behind the miconia program. There is a work plan for these funds due September 30. We would like to have a Maui Miconia Control Program/Incident Command Task Force Planning Subcommittee meeting to discuss the plan.
- Don Reeser also responded to a funding call for Federal Highways money with a miconia proposal. It is a long shot. He asked for \$1.5 million over three years to see if it can fly. Lloyd noted there is a connection between miconia and road building along the Hana Highway. Steve added that there are also related erosion issues. Don is being creative.

### **USFWS Funding Update (E. Campbell)**

- There is an upcoming potential pass through to the ISCs. There is a budget add-on for invasives. It was originally \$1.5 million, but was upped to \$2.7 million when it went through the Senate. At this point there would be \$750,000 to split between all the ISCs and \$750,000 for incipients that could be knocked off in a year (i.e. the "E" word).
- Lloyd noted that there is a lot of skepticism in MISC regarding this as a goal. Earl countered that if you have funding and manpower you can do it. Pat asked about follow-up. Earl replied that it is one-year work money. We would like to have continuing monitoring and if we succeed, then we could ask for more funding next year.
- Pat asked if there would be money for mapping as part of the program. Earl indicated that he will solicit proposals for incipients. There will be a small group to review the proposals. They are likely to fund one or two big things and several small proposals. It will be very competitive. Pat asked if the funds could be used to survey new areas that are suspect. Earl replied yes, but the proposals will need to be very tight.
- Randy noted that eradication is a tricky word. If it is gone at the end of the year, is it eradicated? If it is back next year, is it a new infestation? We don't have the quarantine laws to keep things from being reintroduced.

### **NFWF Proposal**

- The deadline for NFWF proposals is in early November. This would be MISC's fourth year applying for NFWF funds. In order to apply this year we need to show that we are approaching sustainability in our funding. With all the NPS funding for miconia we are getting close on that end. We need to play up the continued State and County support. Additionally the development of a statewide strategic plan is heading in a good direction.

- Christy noted that the Mayor's budget is being put together. We need to get put on the Mayor's budget, so we don't have to go in for soft funds every year. Christy talked with Bob Carroll about this and we need to meet with Miles from the Mayor's office.

#### PR/EDUCATION STATUS REPORT (C. Martin/M. Fong)

- Christy's last progress report for FWS at MISC is available.

#### **News Media**

- Christy thanked Mindy for putting together the AP story on aliens. The article was picked up all over.
- Helen Gillette called about doing a follow-up parrot story.
- We were also contacted by CBS Evening News regarding coqui frogs. They came over and set up filming with us. They also set up their own tour and went to the Ritz Carlton to interview people. They did their own little PR journey around the island. There will be a 2-3 minute story on the evening news in late September. We weren't able to sell them the miconia story.

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

- We went to the Keanae Hoolaulea. Patsy Mink showed up and we gave her an action plan.
- We are hoping to put on an Invasive Species Forum on Oahu similar to what we did on Maui awhile back. We are tentatively aiming for the Tuesday or Thursday following Veterans Day in November. We will be asking a few people like Art and Ellen to go over and do updates.

#### **Global Invasive Species Programme**

- We will do a poster for the upcoming conference. The abstract is due soon. The conference will be at the Bishop Museum Oct 15-17, 2002.

#### **Other PR Topics**

- Alex mentioned that he had heard through the grapevine that MISC is trying to set-up something with Hana Ranch in November. Lucienne from the Sierra Club approached him. Alex would like to be kept in the loop and is interested in participating. Mike W. said that this is a brainstorm they came up with during a helicopter operation at the Ranch. It would be an easy volunteer project to do miconia on the Ranch where the Spike was applied. It is easy terrain. They started calling around to see about the logistics, liability, etc. The Sierra Club has agreed to host it as a service trip. They have their own liability waivers. We can do the processing through them and the public can still come.
- Steve asked how long it has been since the Spike was applied. The answer was that it was applied last November. The Spike may be moving too quickly through the soil to impact the miconia. Steve indicated that we should leave some miconia trees to see if this actually does anything. Erik added that according to the label it takes several growing seasons. It has had an effect on the guava but not the miconia. Art noted that at least we can see the miconia with all the guava gone.

#### HEAR PROJECT UPDATE (Philip Thomas)

- All MISC updates for the web-site should still go to Philip. Philip reiterated HEAR's commitment to supporting MISC. He is trying to get caught up and will hopefully have more continuity now that Carol is on board. He is going to try to be more up-to-date. Philip would like to get some of the MISC maps and pictures up on the web soon.
- In December 2001, Kaulunani (in partnership with DOFAW and USDA) brought together a group of landscape professionals on the Big Island to discuss the impact of invasive species. The proceedings from that workshop are now available on the Internet. In October 2002, a series of five meetings will

be held as a follow-up to get landscape professionals and invasive species folks together. There will be one meeting on each island (two on the Big Island). We hope to work toward voluntary compliance. The meetings will discuss the impact of invasive species and look at how the risk assessment process works.

- Lloyd asked if HDOA would be involved in the meetings. Mindy replied that they are aware of them.
- There is a new popular press book out on invasive species --- “A Plague of Rats and Rubber Vines” by Yvonne Baskin. It is fairly easy to read and will serve as a good resource to pull extracts out of for public relations and education. Forest, Kim, and Lloyd are all quoted. Philip donated a copy to the MISC office.
- In the periodical “Conservation in Practice” there was recently an article on HEAR by Jason Van Driesche. One criticism that came out of the article is that it is hard to find things on the HEAR web-site. Philip will be working to improve the web-site. Christy noted that Mele has extensive web-site design experience. Hopefully she can work with Philip on redoing the MISC section.
- Philip just received a video on brooms in the mail. He is not sure how concerned about brooms we are, but the video might be an idea for something we might want to do here on Maui.
- Lloyd mentioned that he and Philip are going to New Zealand in mid-September. There were some meetings in Rarotonga back in July. The book that Philip mentioned earlier has a great chapter on the New Zealand quarantine system. We hope to find out what kind of information management they are doing. Neil Reimer and Domingo Cravalho will be going with Lloyd and Philip.

## **CURRENT BUSINESS**

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

## VERTEBRATE CONTROL UPDATES (F. Duvall)

### **Caribbean Frogs**

- Mitch gave the group an update on his progress with coqui on Maui. He plans to do his first spray tomorrow. There are two additional sprays scheduled for sure and maybe a fourth additional one from Fern before the end of September. The Maliko Gulch site is spreading and Howard’s does seem worse now. This is a site we will spray. The worst sites appear to be a Kihei nursery, the Ritz Carlton Hotel, Howard’s, and Maliko.
- Mitch has been going out and following up on old reports. Of 32 sites that Mitch has looked at that had verified frogs in the past, 13 sites had no frogs when he revisited and 13 sites still had frogs. Another six sites where we had unverified reports in the past did not have frogs when he checked them out. It seems like there are a hand full or less of really important sites. If there is a substance like caffeine or citric acid to work with, it seems possible to eradicate or control them. The other sites have very small numbers. For example, the Maui Prince has one frog in their courtyard. Most of the home sites have only one frog and there are a number of reports where frogs are no longer there. The large populations are few and after that there is an ongoing small problem. Fern reminded us that we’re talking about coqui. There are big lumps of greenhouse frogs out there.
- Earl indicated that it is important to follow-up with the nurseries. Mitch replied that there had been no frogs at Lowe’s for six months, but they just got a shipment from Howard’s and they had two frogs.

- Mach asked if the places where Mitch is following up and not finding anything were originally single sightings or larger populations. Mitch replied they are mostly small. Earl noted that just before it starts to cool down in the fall is when the activity seems to really pick-up.
- Christy brought up the fact that Howard really is trying to do something about the frogs. On his own he has purchased a chill container. He is not doing rush orders. He is chilling the plants for six or so hours so the frogs drop off the plants. He doesn't know if this is impacting the eggs and of course some frogs may not be seen or may drop into the pot. He is really making an effort and yet we still see them pop up at Lowe's and elsewhere. Earl agreed that Howard is one of the best nurserymen dealing with this issue. Randy asked if we could find out how much this is costing him. We can use this to show the economic impact of the frogs. The information might help us to get more funding and could help Howard out too.
- Randy asked Mitch if he is getting information on where plants came from when he goes to home sites. Mitch replied that he does when it is possible.
- Fern noted that it all goes back to knowing the biology of the frogs. He has been intrigued that in dense populations you have a cut off in frogs that call. It may be that they do lek type calling. Either they are all calling to attract mates or they are silent. It makes it difficult to know if an area has some or none. Earl added that as far as herpetological sampling goes, we have it easy with this species. Pat asked if there are other good detection methods. Earl replied that there is nothing as good. Pat countered that maybe we shouldn't stake it all on the audio detection.
- Earl added that all plant shipments from Hawaii to Micronesia are pre-cleared so there is no quarantine. This discussion will start. They have issues and they don't want frogs. Philip noted that Figi exports to New Zealand and New Zealand is very strict. They are working on a database to report incidence of invasive species on a plant. Earl continued that coqui are on the mainland. There are reports from Los Angeles, Palm Springs, and Connecticut and they are spreading to other states now.
- Randy asked about the use of citric acid to control frogs. Mark Ono replied that they are getting 100% kill in the lab using 15%. Earl added that there is a person who has a patent claim on a citric acid/caffeine solution. Citric acid will burn plants. Mark Ono shared that the Big Island is getting excited about it because they think it won't kick in FIFRA. Mitch added that according to Glenn it is safe. Earl countered that if you use it at a level above what someone would consume, you kick in FIFRA
- There was a Federal Notice regarding coqui and the EA planning process. There was scoping meeting in July. They wanted to put it out for comments before the NEPA process begins so they can see if there are criticisms before they start the NEPA process. Wildlife Services is getting \$200,000 for frog work thru CTAHR. They are looking at using the funding on Kauai.
- People have been asking what the half-life of caffeine is in the environment. It lasts 12 days with no microbial action and two days if there is microbial action.
- Mark Ono indicated that they will be going out with MISC when we spray caffeine and looking at how we are doing it. They will help out if they can
- Mindy interjected that Avis Onaga is rewriting the label for caffeine. Mindy has been asked to provide comments. Let her know if you have any. Mark stated that the idea that there must be a certified applicator at each nozzle is ridiculous. Earl suggested that Howard should have an opportunity to comment on the label.

- Forest asked where things stand with *E. planirostris*. Are we keeping track of locations? Fern responded that a survey of Maui is needed. Mark indicated that is what they are targeting on Kauai. Mindy added that the Hilo Base-yard is infested and they've instituted the hot water treatment. Fern reminded us that for delicate plants hot water may be an issue and therefore they are not likely using it for rare and endangered plants. Forest said that the Kahului Nursery has *planirostris* and they are impacting the ability to do out-planting.
- Philip brought up the fact that there are claims that coqui are not in natural areas and shouldn't be considered a threat to them. What environmental constraints will limit the frogs? Christy noted that they are doing fine in Volcano. Philip suggested that if the minimum temperature information could be mapped it might indicate where they could go.
- Fern apologized for missing the MISC Workshop in July. He was out on a fire. He passed out a handout he had prepared for the Workshop on what MISC should be doing for vertebrates (see attached outline at the end of these notes). We should plan to have a vertebrate workshop soon. Fern's outline hits on specific species issues. We need to do more flyers for vertebrates. For parrots we need to instigate some sophisticated surveys soon so we can get a proposal for control together. MISC should have an Action Plan for quick response for vertebrates and an invasive bird survey team that is trained and ready to go.
- White-rumped shama have shown up on Molokai. This is a concern because they could jump to Maui. They are fruit eaters and they could like miconia berries.
- The gold-dusk day gecko is getting into natural areas.
- There was a turtle turned in Huelo. It may be a state record. The identification hasn't been confirmed yet, but it is probably a western palm turtle. They are rare in west and were being considered for listing.
- Randy asked Fern to work on the rapid response Action Plan and to be the chair of vertebrate sub-committee. Fern indicated it would be nice to have both Earl and Fred come over for the sub-committee meeting.
- Mach indicated that there may be a possible frog pathogen in quarantine, but it is a long ways off. Earl countered that there is a fungus that is spreading, but it affects aquatic frogs not terrestrial frogs.

### **Parrot-Type Birds**

- On an alarming note, Mike Ade saw six cockatoos in Waikapu while doing arundo work. This is scary as it means there may have been juveniles reared. In the past there were four birds at most. We need to check this out soon.
- Mindy added that there will be a meeting for a comprehensive strategy for parrots at the end of October.
- Fern continued that the MARS mitred conure permit runs out at the end of month. We will renew their permit, but it will run parallel with other control methods. There are two surveys we need to do by the end of October. One is to get a bunch of people out there and do a general survey to determine numbers, patterns, and feeding locations. Second we need to use the results from the first survey to determine feeding locations and possible control locations. Fern envisions that we stay away from the core and control at distant feeding areas.
- There seems to be a consensus that there are three primary groups of birds. We think most of the birds fly off into forest areas where it will be easier to control them. Alex indicated that this is a

watershed issue and if we need EMI access, he will help. Fern replied that the surveys will tell us where we would like to have access.

- Mark Ono indicated that they do operations in sensitive residential areas as long as they can deal with the landowner.
- The rose-ringed parakeets are seen occasionally flying over, but we don't know where to find them

### **Saffron Finches**

- We haven't seen them recently. We need to survey.

### PLANT CONTROL UPDATES (E. Barnard; MISC)

#### **Miconia MISC Crew**

- We have just about recovered from the EEWf program, which was pau at the end of June. We haven't done any miconia groundwork since the end of June and have been catching up on other species. We will be picking back up on miconia in September and have three upcoming weeks scheduled in Hana.
- Since the last MISC Meeting we covered 135 acres on the ground and controlled 1,700 plants (11 days in June).
- We had eight days of helicopter spraying scheduled. We got in four days (one day we had 2 birds operating). We covered 850 acres and controlled 2,000 plants via helicopter. Two spray days were canceled because of the Big Island fire and two were canceled due to weather.

#### **Miconia Hana Crew**

- Creighton was out with the Hana miconia crew on August 8 & 9. They are continuing to do a lot of groundwork in the core area. They are doing a terrific job in some rough terrain. Both days he was with them they were rained out in the afternoon. Creighton will be going out to Hana about once a month. Darryl is still the primary supervisor for the crew.

#### **Miconia Bio-Control (Erik Barnard; MISC)**

- We are still having some contamination issues. Eloise is producing plates on Oahu and sending them to Mach. Erik is doing the final expansion (grow out). We received 300 plates on Monday and our next bio-control spray is scheduled for September 9. Eloise doesn't mind keeping a small batch. She just doesn't want to mass-produce anymore. Eloise may be shifting to a homelands defense position.
- Our new crew member, Tiffany, has microbiology experience from college and should be able to help out.

#### **Pampas Grass (*Cortaderia jubata*, *C. selloana*)**

- The MISC Crew spent 13 ground days on pampas since the last meeting. We controlled 326 plants over 7 acres. Most notably, we controlled the population at Sandalwood Golf Course. We collected and bagged approximately 3,500 seed heads. The next day they dug them out with heavy equipment. They buried the plants for us.
- We did 2.5 days of pampas aerial reconnaissance covering 1,800 acres including Honomanu and Kahikunui. We found 24 new plants.
- Forest added that he and Kim did surveys on all the roads where they had legal access. At the top of Waipoli Road and other mauka areas where it is private we plan to do aerial surveys.

- Forest asked where we are with getting seloana added to the noxious weed list. Mindy replied that the letter to convene the Board to evaluate new submissions was never submitted. The petition letter didn't happen. She will need the data again and then she will proceed. Mindy needs the data by the end of September and then she will submit it to Lyle Wong. There is no set schedule. The Board convenes only when requested.

#### **Fountain Grass** (*Pennisetum setaceum*)

- The crew spent five days on fountain grass since the last meeting. They controlled nine plants and covered 65 acres including Maui Lani, The Waiehu Dunes, and Kahakaloa. Again: On 65 acres of "core" there were only 9 plants

#### **Ivy Gourd** (*Coccinia grandis*)

- Eighteen work-days were spent on ivy gourd since the last meeting. Eleven acres were covered and 400 plants controlled. All known sites have been visited.
- There were three releases of ivy gourd bio-beetles since the last meeting. There will probably be another species of beetles coming on-line soon.
- We may want to look at controlling the peninsula below the driving range because it is too hard to monitor. When the access is difficult, dealing with monitoring the bio-control is too hard. Fruit flies have helped to reduce the fruit production and the beetles have spread.

#### **Giant Spanish Reed** (*Arundo donax*)

- The crew spent one day on arundo at the Beach Road site. We are doing foliar spray and with the big stands cutting it back first. We also assessed the Waikapu situation.

#### **Malabar Melastome** (*Melastoma candidum*)

- The Makawao Hongwanji site has been taken care of.

#### **Downy Rose Myrtle** (*Rhodomyrtus tomentosa*)

- We spent two days on the Hogback Road site and controlled 85 plants on two acres. We also did a follow-up/revisit.
- Forest asked if we saw any regeneration. Were the 85 plants we controlled planted or was there seed spread/keiki? Mike Ade replied that they varied in height from 7 to 20 feet tall and there were some that looked vegetative.

#### OTHER CURRENT BUSINESS

- Christy asked when we are going to have the meeting to look at the matrix and add species to the list for Earl's funding. Randy suggested we wanted to run the species through the weed risk assessment first. Lloyd countered that we said we weren't going to do that. Mindy added that the assessment would just tell us it is weedy. It gives very limited information and isn't going to help much in this case. Christy asked what we can get on our short list to get Earl's funding. Lloyd suggested that we need to have a full day workshop to make this decision. There is no magic formula. Earl noted that we will know about the funds between now and October. Lloyd's staff will do what they can to get background information and we will look at having a workshop in November.
- Kim brought up the point that there are some species that have discrete populations. Can it be considered eradication if a discrete population is controlled? Earl responded that he thinks there will be a preference for things that can be done on an entire population rather than just sub-population eradication unless there is a sub-population where you have a very distinct conservation reason for taking it out. If we have things funded where we knock things out and we can show there is reinfestation potential, we can get more funding because money has already been spent.

- Things are still up in the air regarding MISC's continued residence at NIFTAL. Randy has been talking to Clarice and David Duffy. Alex will be moving into the Piipolo site. The West Maui Mountains Watershed Partnership will not be moving to Piipolo so there may be room for MISC. Alex is moving into the metal building. HC&S may be an option in Paia. There is a good chance MISC will move sometime between now and December.
- Christy noted that we need to thank Bob Yonehara. He got wind of the Saint John's Wort being sold at Lowe's. Christy contacted Lowe's and got them to stop selling it and Bob called the Pukalani Plant Company and Kula Hardware and got them not to sell the plants or seeds. A good success story!

**Next Meeting Date/Time: Friday, 10/11/02, 9am-12noon**

### MISC ACTIVITY SCHEDULE

June 10 to August 29, 2002

- 6/10 Kamehameha Day Holiday
- 6/11 Miconia: Keanae (Russ, Sam, Matt, Jeremiah, & EEWf Crew)
- 6/12 Miconia: Keanae (Russ, Sam, Matt, Jeremiah, & EEWf Crew)  
Frog caffeine site inspection with G. Sahara, HDOA (Jack & Mitch)  
Ivy Gourd: bio-control with Mach (Christy)
- 6/13 Miconia: Keanae (Russ, Sam, Matt, Jeremiah, & EEWf Crew)  
Helicopter Spray Operation: Miconia, canceled, helicopters out on fires  
Miconia: bio-control lab work (Erik)
- 6/14 Field Crew meeting at MISC  
Helicopter Spray Operation: Miconia, canceled, helicopters out on fires
- 6/15 Maui Ag Fair (Christy)
- 6/17 Miconia: Keanae, Rain Out!  
Ivy Gourd: Kapalua (Russ, Sam, Matt, Jeremiah, & June)  
Coqui Frog Working Group Meeting, Hilo (Jack)
- 6/18 Miconia: Keanae (Russ, Sam, Matt, Jeremiah, & EEWf Crew)  
Fountain Grass: Kahakuloa (Erik, Mike A., Jeremiah, & Erica)
- 6/19 Miconia Finance Committee Meeting (Miconia Task Force) at MISC  
Miconia: Keanae (Russ, Sam, Matt, Jeremiah, & EEWf Crew)
- 6/20 Miconia: Keanae (Mike A & EEWf Crew)  
Ivy Gourd: Kapalua, Lahaina (Russ & Matt)
- 6/21 Miconia: Keanae (Mike A., Sam, & EEWf Crew)  
Pampas Grass: Kula (Russ & Matt)
- 6/24 Miconia: Keanae (Mike A., Russ, Sam, Matt & EEWf Crew)
- 6/25 Miconia: Base-yard cleanup (Mike A., Russ, Sam, Matt, Jeremiah, & EEWf Crew)  
Frog caffeine site inspection with G. Sahara, HDOA (Jack & Mitch)
- 6/26 Miconia: Base-yard cleanup (Mike A., Russ, Sam, Matt, & half of EEWf Crew)  
Miconia: bio-control lab work (Erik)  
Helicopter Spray Operation: Miconia, canceled due to weather  
Hawaii State Association of Counties Conference (Christy, Jack)
- 6/27 Field Trip w/ Rene Sylva (Mike A., Russ, Sam, Matt, Jeremiah, & part of EEWf Crew)  
Helicopter Spray Operation: Miconia, canceled due to weather  
Miconia: bio-control lab work (Erik)  
Hawaii State Association of Counties Conference (Christy)  
Frog caffeine sites inspections with G. Sahara, HDOA (Jack)

- 6/28 Miconia: Base-yard cleanup (Mike A., Russ, Sam, & Matt)  
 EEWf Crew Pau! (phew!)  
 Hawaii State Association of Counties Conference (Christy)
- 7/1 Rhodomyrtus: Haiku Rd. nr. Hogback (Mike A., Russ, Sam, Matt, & Jeremiah)  
 Melistoma candidum: Makawao (Mike A. Russ, Sam, Matt, & Jeremiah)
- 7/2 Ivy Gourd: Lahaina (Mike A. Russ, Sam, Matt, & Jeremiah)
- 7/3 Pampas Grass: Olinda (Mike A. Russ, Sam, Matt, & Jeremiah)  
 Miconia: bio-control lab work (Erik)
- 7/4 Fourth of July Holiday  
 Miconia: bio-control lab work (Erik)  
 FY 03 County Funding proposal draft completed & submitted to Tri-Isle (Jack)
- 7/5 Crew Off ; Jack on annual leave until 7/17.  
 Miconia: bio-control lab work (Erik)
- 7/8 Fountain Grass: Maui Lani (Mike A. Russ, Sam, Matt, & Jeremiah)
- 7/9 Fountain Grass: The Dunes (Mike A. Russ, Sam, Matt, & Jeremiah)
- 7/10 Ivy Gourd: Kahului (Mike A. Russ, Sam, Matt, & Jeremiah)
- 7/11 Ivy Gourd: Kapalua (Mike A. Russ, Sam, Matt, & Jeremiah)  
 Miconia: bio-control lab work (Erik)
- 7/12 Ivy Gourd: Kapalua (Mike A. Russ, Sam, Matt, & Jeremiah)  
 Miconia: bio-control lab work (Erik)
- 7/14 Watershed Forum at Twin Falls (Christy)
- 7/15 Ivy Gourd: Kihei (Russ, Sam, Matt, & Jeremiah)  
 Supervisory Training (Erik & Mike)  
 Camp Maluhia Boy Scout presentations (Christy)  
 Coqui Frog Working Group Meeting, Hilo (Mitch)
- 7/16 Ivy Gourd: Kihei (Mike A. Russ, Sam, Matt, & Jeremiah)  
 Camp Maluhia Boy Scout presentations (Christy)
- 7/17 Ivy Gourd: Kihei (Mike A. Russ, Sam, Matt, & Jeremiah)  
 CGAPS meeting, Honolulu (Jack, Christy)
- 7/18 Hawaii Conservation Conference (all staff)
- 7/19 Hawaii Conservation Conference (all staff)
- 7/22 Ivy Gourd: Waikapu, Pukalani (Russ, Matt, & Jeremiah)  
 Camp Maluhia Boy Scout presentations (Christy)
- 7/23 Fountain Grass: Waiehu Mac Nuts (Mike A. Russ, Sam, Matt, & Jeremiah)  
 Miconia video meeting with Masako, Chris, Art (Christy)
- 7/24 Fountain Grass: Waiehu Dunes (Mike A. Russ, Sam, Matt, & Jeremiah)  
 Ivy Gourd: bio-control with Mach (Christy)  
 Coqui hunt in Pukalani (Mike W. & Christy)
- 7/25 Ivy Gourd: Kapalua Golf Academy (Mike A. Russ, Sam, Matt, & Jeremiah)
- 7/26 Pampas Grass: Recon, Poli Poli, Kanaio (Erik, Mike A., & Sam)
- 7/29 MISC Strategy Workshop (all day, at MISC)
- 7/30 Miconia: Nahiku Crash Site (Mike A. Russ, Sam, Matt, & Jeremiah)  
 Miconia video meeting with Masako, Chris, & Art (Christy)  
 Pampas Grass: door to door (Christy, Matt)
- 7/31 Helicopter Recon Operation: Pampas Grass, Honomanu (Jack, Erik, & Russ)  
 Pampas: Kula (Sam & Jeremiah)  
 Camp Maluhia Boy Scout presentations (Christy)
- 8/1 Helicopter Spray Operation: Miconia, Hana (Erik, Russ, Mike W., Jeremy, & Aaron)  
 Ivy Gourd: Kapalua (Mike A., Sam, Jeremiah)

- 8/2 Helicopter Spray Operation: Miconia, Hana (Mike W., Jeremy, & Aaron)  
Nene Survey Training (Mike A., Russ, Sam, Matt, & Jeremiah)  
Pampas Grass: Upcountry (Mike A., Russ, Sam, Matt, & Jeremiah)  
FY 03 County Funding proposal with Fireweed completed & submitted to Tri-Isle (Jack)
- 8/5 Public Relations Specialist Interviews  
Pampas Grass: Upcountry (Mike A., Russ, & Sam)
- 8/6 Nene Survey (Mike A., Russ, Sam, Matt, Jeremiah, & Mike W.)
- 8/7 Nene Survey (Mike A., Russ, Sam, Matt, Jeremiah, & Mike W.)  
Ivy Gourd: bio-control with Mach (Christy)
- 8/8 Nene Survey (Mike A., Russ, Sam, Matt, Jeremiah, & Mike W.)  
Pampas Grass: door to door (Christy, Erika)
- 8/9 Nene Survey (Mike A., Russ, Sam, Matt, Jeremiah, & Mike W.)  
Miconia video meeting with Masako, Chris, & Art (Christy)
- 8/12 Pampas Grass: Sandalwood Golf Course (Russ, Sam, Matt, & Jeremiah)  
All ISC meeting, Honolulu: Statewide PR & HCF funding proposal (Jack)
- 8/13 Crew Supervisor hiring Interviews (Jack, Christy, Erik, Mike, Jeremy, Randy)  
Pampas Grass: Sandalwood Golf Course (Russ, Sam, Erica, Shawna)  
Pampas Grass: Kula (Matt & Jeremiah)
- 8/14 Pampas Grass: Kula (Mike A. Russ, Sam, Matt, Jeremiah, Erica, & Shawna)  
Pampas Grass & Rhodomyrtus: door to door with Mach (Christy)
- 8/15 Helicopter Spray Operation: Miconia, Hana (Russ, Matt, & Mike W.)  
Pampas Grass: Upcountry (Mike A., Sam, & Jeremiah)
- 8/16 Admissions Day Holiday
- 8/17 Keanae Hoolaulea (Christy & Mele)
- 8/19 Field Crew Worker Interviews (Jack, Erik, Mike)  
Ivy Gourd: Kapalua (Russ, Matt, & Jeremiah)
- 8/20 Ivy Gourd: Lahaina (Matt & Jeremiah)  
Ivy Gourd: Kihei (Mike A. & Russ)  
CBS Evening News frog filming (Christy, Mitch, Mele, & Jack)
- 8/21 Ivy Gourd: Kahului (Matt & Jeremiah)  
Arundo: Kahului (Mike A. & Russ)  
CBS frog filming (Christy, Mitch, Mele)  
Pampas Grass: dig in Kula (Russ, Matt, & Jeremiah)
- 8/22 Miconia Staffing Meeting (Jack, Erik, Mike A., Mele, Elizabeth, Steve, & Jeremy)  
Pampas Grass: dig in Kula (Russ, Matt, & Jeremiah)  
Ivy Gourd: Kahului (Russ, Matt, & Jeremiah)  
Malama Hawaii planning committee meeting, Kauai (Christy)
- 8/23 Ivy Gourd: Kahului (Mike A. & Jeremiah)  
Pampas Grass: Upcountry door to door (Matt)  
Tibouchina granulosa: Makawao (Mike A., Mike W., & Jeremiah)  
Rhodomyrtus: Hogback check-up/revisit (Mike A)  
Malama Hawaii planning committee meeting (Christy)
- 8/24 KISC target tour, PowerPoint talks training with K. Gundersen (Christy)
- 8/26 Pampas Grass: Olinda, Kula (Mike A., Sam, Matt, & Jeremiah)
- 8/27 Ivy Gourd: Kapalua Golf Academy, Kihei (Mike A., Russ, Sam & Matt)  
Waikamoi Field Trip w/Pat Bily (Christy, Mele, & Elizabeth)
- 8/28 Pampas Grass: Upcountry (Mike A., Russ, Sam, & Jeremiah)  
Intro to County Council, EMI (Christy & Mele)
- 8/29 MISC Meeting, Fireweed Taskforce planning meeting

**VERTEBRATES AND MAUI MANAGEMENT PROPOSAL**  
**MISC 2002-2003**  
**By Fern Duvall**

**MOLOKAI**

Birds: White-rumped Shama (*Copsychus malabaricus*)

- survey distribution/feasibility of control [with IBST or analogous -see below]
- count/determine incipient status

Frogs:

- Flyer/ad/radio spot (call-in locations, log-in data on a web site [HEAR?/MISC])

**MAUI**

Reptiles:

Gold-dust Day &/or Orange-spotted Day Gecko (*Phelsuma* spp.); Veiled Chameleons

- Flyer - "seen in your area" please report to... for Makawao, Olinda, Puu Koli
- Immediate response, preparation of incident step-down plan for preparedness

Snakes:

- MISC and other staff: Current field training exercise (last done 3 years ago)
- Develop Snake Quick-Response Action Plan\* with stake-holder contact list, agency and organization's agreements to staff/respond, equipment lists (and acquire), and training requirements/schedule.

Frogs:

- Caffeine (continue with planned actions...); citric acid trials etc. when ready
- Response, preparation of incident step-down plan for frog (Coqui, Green House) control [Craig Mitchell lead with USFWS and DOFAW, others?]
- development of frog free certification procedure and dissemination [MISC with CGAPS, USFWS, USDA, NPS, DOFAW, HDOA...a Frog Control Team/subcommittee]

Poison Dart Frog:

- survey Makapipi, Iao Valley
- Flyer (as above) to Wailuku, Iao, some Hana side

Birds:

Saffron Finch

- Survey 2 x each area (sunrise for 2h) for Pukalani [0.5 mi. x 0.5 mi.] from ground zero and for Keopulani Park with "Invasive Bird SurveyTeam"

Note: Invasive Bird Survey Team or IBST is many *Pre-trained* MISC, DOFAW, USFWS, USDA, HDOA, NPS, and other organizations/'Agencies', and dedicated volunteers to perform structured invasive bird surveys. Goal: 12-20 person trained invasive bird survey team and IBST methodology.

- Flyer - as above for Pukalani, Keopulani neighborhoods, etc.
- IBST survey to allow for planning mist-net live capture and/or lethal control
- execute control

Salmon-crested or Moluccan Cockatoos (4-6 birds, currently reproducing?)

- IBST survey 2-3 x to allow for planning mist-net live capture with recordings and/or live lure bird use; design and plan alternate lethal control
- execute mist-net capture or lethal control

Mitred Conures (*Aratinga mitrata*)

- Flyer with questionnaire as to number and time seen (call-in or log in responses) Maliko to Nahiku + Miconia Crew + NPS-Kipahulu
- Survey A IBST. Numbers/patterns/feeding locations
  - 5 days/daily 3 x a.m., 2 x p.m. Rosses/Kepler (Waipio Bay)/Twin Falls-Peahi Gulch to 10 mile marker of Hana Highway. [Additional is Koolau Ungulate Transect information Lupi Road to Kuhiwa Gulch - in September]
- Survey B IBST. Determine feeding and possible control locations/scenarios. 3 x a.m. based on Survey A results.

Permitting & Control:

- MARS\*\* - permit to be renewed if requested. Captures as many as possible.
- Control\* (USDA-lead/contract, MISC, DOFAW, USFWS) post A & B surveys.

Note: Precision surveys are 1<sup>st</sup> priority to allow development of contract proposal and incident step-down plan for removal of parrots, and rapid response planning for all other future parrot (bird) incipients.

\* An Action Plan for Quick Response to Invasive Vertebrates should be developed for vertebrates generically. APQR to IV should cover the main groups of vertebrates expected to occur as incipient species. Plan should list stake-holders, contacts, step-down plan for any incident tailored to each vertebrate group "type" (e.g. Snake, frog, lizard, bird, mammal), equipment lists, equipment costs, storage location(s), training requirements, training schedule(s), etc. Priority item: To be developed by MISC and stakeholders buy-in (?).

\*\* All methods must ensure that the core population does not become fragmented. Goal is removal of all birds with no fragmentation. Likely scenario is some captures (MARS) "near" to Huelo core area, and lethal removals at more distant feeding, resting/loitering areas in mauka areas until control is achieved.