

MAUI INVASIVE SPECIES COMMITTEE
MEETING
FRIDAY, APRIL 19, 2002
9:00 AM - 12:00 NOON

ATTENDANCE: Les Matsuura, Linda Hara, Fern Duvall, Mindy Wilkinson, Mach Fukada, Erik Barnard, Jack Peterson, Michael Simon, Mike Walker, Kim Starr, Forest Starr, Nathan Varns, Pat Bily, Steve Anderson, Alex Michailidis., Trevor Lu, Christy Martin, Renate Gassmann-Duvall, Elizabeth Anderson

- The meeting was called to order by Fern Duvall; Acting MPC/Chair at 9:15am
- Minutes from the February 22, 2002 meeting were approved. They will be posted on the web-site.

NEW BUSINESS

EMERGENCY ENVIRONMENTAL WORKFORCE UPDATE (Jack Peterson, MISC)

- Things are going very well. The crew in Hana is working almost exclusively in the peripheral areas around Nahiku and Keanae. There have been 36 miconia workdays since the last meeting. The crew has become more and more skilled and trained. We had a map and data training session with them on March 18 and the data that is coming back has improved.
- The official EEWf program is almost over and in order to bridge the gap until there may be more funding from the legislature, Steve and Jeremy have agreed to pick-up most of our EEWf workers on the EPMT account until the first of July. We have combined the EPMT crew, NPS-EEWF crew, regular MISC crew, and MISC-EEWF crew into a consolidated miconia crew. There were several planning meeting between Steve, Jeremy, and the MISC staff to set-up guidelines for the successful merger. There was an operational/procedural guide developed for the combined crew that will serve as an excellent guideline (for any similar crew).
- Steve added that we have a unified work group now. As we know, the NPS is planning to put more money into miconia. We choose to put EPMT funds on the ground right now. There is also an NPS fire crew program to remove the pines adjacent to, and spreading into, the park. These pines present a hazardous fuel problem. There will be some times when parts of this crew will work on the pines. This \$60,000 in fire funding will help us to pay everyone and keep things going.
- Jack continued that through consolidation of the ground crews, the infamous gap in the EEWf program has been bridged at least until July. It is still up in the air as to whether the EEWf program will be funded again after July 1.
- Forest noted that their EEWf crew is finished on the 25th. They would definitely be interested in rehiring if there was additional funding in the future.

BUDGET/FUNDING STATUS REPORTS

Budget Status Report (E. Anderson, MISC)

- Our current \$100,000 NFWF account has been spent out. Christy and Jack are working on the final report. We just found out we've been awarded an additional \$100,000 form NFWF through Tri-Isle for the upcoming year pending their receipt of this year's report.
- The new Hawaii Community Foundation account for our data specialist is on-line finally with a balance of ~\$37,000. Our old Fish and Wildlife Service account has a balance of \$4000 and the new FWS account is set-up with \$40,020.
- All of the core MISC staff, except Christy and Mike W., are on the County money now. That account has an un-obligated balance of ~\$243,000. MISC's remaining EEWf workers will be picked up on the EPMT account from April 24 until July 1.

- We have a meeting set-up this afternoon with Nathan/Linda to go over the details of the invoicing, reporting, etc. for this year's County Funds.

Highlights of Budget Subcommittee Meeting (E. Anderson, MISC)

- A MISC Budget Subcommittee meeting was held on April 5. Detailed notes are available. Contact Elizabeth if you would like a copy.
- The subcommittee agreed to seek a reallocation of the County funding. We will work with Tri-Isle through OED to re-budget to salaries \$100,000 of the \$130,000 currently allocated for helicopters. This re-budget is recommended in light of the shortfall in our State account and should carry the MISC staff into October at current staffing levels. The park's increased emphasis on miconia helicopter operations should balance the decrease in the MISC helicopter budget.
- It was also agreed that MISC's total bio-control support for this year would be \$28,000. The \$16,667 already committed for bio-control will be absorbed into that \$28,000 instead of in addition to it.
- We finally have a bottom-line on our State account situation thanks to Linda and Karl's hard work. In addition to the \$60,000 that was de-obligated earlier this year to support the Hana crew, there was a PO for \$47,000 that was de-obligated from 2000 that we weren't told about. The account is in the hole, but we will let it be for now and see what happens with next year's money.
- We also discussed the need to show we're heading towards self-sufficiency in order to continue applying for NFWF grants in years 4 and 5. It was suggested that we need to touch base with Mark White regarding this issue.
- One promising source of funds for the future, the NPS Challenge Cost Share program, was discussed (see details below). We also discussed the need to do a better job of quantifying matches and in-kind contributions.
- The subcommittee recommends that MISC hold off on pursuing non-profit status till we see how things go for the West Maui Mountains Watershed Partnership.
- Fern asked how we plan to deal with funding issues if we go to an Incident Command system for miconia. Steve replied that there will be a Budget and Finance Committee. The committee will be determining what monetary resources are available. This information will then go to the Incident Commander. Fern asked how this would impact district funding. Was this discussed at the budget meeting? Steve continued that he was considering the budget subcommittee meeting to be a start of the IC function.

County Funds/Tri-Isle (Nathan Varns; Tri-Isle RC&D)

- Nathan talked to Dain Kane and Alan Arakawa regarding possible county funding for MISC next year. They are considering another \$200,000 for MISC. They are also talking about combining the fireweed funding with miconia funding. The \$200,000 would include support for the Hana crew. This is Office of Economic Development funding. The Board of Water Supply is separate and we still need to approach them.
- Christy added that Ros Baker wanted to know how much Federal funding is going to miconia. Ros was concerned that it was all coming from the County. Christy detailed the Federal funding for her and also left messages at Arakawa and Kane's offices.
- The fireweed pasture-spraying project was contracted with Mid-Pacific Pest Control. Pat Bily's EEWf crew has been out doing public outreach and pulling fireweed along roadsides to increase awareness. Pat's crew is now based at MISC. Increased awareness should help them spend the \$50,000 they have this year.

DOFAW Budget

- It will be the first week in May before we know anything regarding state funding for the upcoming year. The \$250,000 statewide for the ISCs appears to be agreed upon, but we still don't know for sure if we will get it. It has been agreed on by House and Senate budget committees, but funding is so tight all over that everything is being looked at as potential for cuts.
- DLNR line item 402 is for \$500,000. Jack noted that originally from the \$500,000 MISC was slated for \$200,000 and asked if that was still the plan. Mindy replied that because Federal funds are so tight, they will be looking at redistributing the amounts. There is less overall funding available and we will need to get agreement from the Coordinators on how to divide it up.

Other Legislative Bills

- The Senate version of the EEWf bill is strong. It includes \$3 million statewide for a one-year period. This is a substantial amount as there will be fewer programs to divide the funds between than there were initially. Both Senator English and Representative Davis were at the Taro Festival and Christy had a chance to talk with them.
- The Hawaii Invasive Species Council bill has not been decided on yet. It was circulated through CGAPS and two existing bills were merged. Originally the plan was for a coordinator to be housed under RCUH to coordinate the EEWf crews. The merged version of the bill calls for a committee composed of all the department chairs to be housed in the Governor's office. There is no budget attached to the bill. It is just a mandate to meet. Christy added that CGAPS would also provide support and guidance. Steve Lohse is developing an invasive species plan patterned after the National plan.

Federal Funding Update/Haleakala N.P. (Steve Anderson; HALE-NP)

- Back in November Patsy Mink wrote to Don Reeser regarding the status of the miconia situation. Don replied to her this week. His reply outlines the IC model we have been discussing. Steve read an excerpt from the letter: "Haleakala is preparing to commit about \$750,000 this FY to supplement the funding contributions by Maui County board of Water Supply, Maui County Council, USFWS, Hawaii DLNR Natural Area Partnership, and The Nature Conservancy. We will be hiring an Incident Commander who we believe will be able to coordinate the effort and quell the advancement of miconia in the next six months. We can not give you an exact dollar figure on how much it will cost to eradicate this invasive species that you asked me for in your letter. I was hoping to use \$1.5 million from Haleakala National Park Kipahulu entrance fee revenues to fight miconia but Department of Interior solicitors have stated that congressional legislation requires that entrance fee money be used on federal lands. I believe that if we could get an additional \$1,000,000 per year over and above the funding we have now, for possibly as much as ten years, while utilizing the incident command system we have proposed, we will be able to eradicate miconia from Maui. Your offer of help is greatly appreciated."
- The new NPS Challenge Cost Share Program (Cooperative Conservation Initiative) is being put forward in the Federal 2003 appropriation. It requires a 1:1 non-federal match. We will be in good position to compete for these funds. The proposed program is on the order of \$500,000 per year.
- There is language being included to clarify to issue of using NPS funds to work off of park-lands. We don't have a clear authority to use regular park funds off park-lands yet. Use of park funds outside of park boundaries is clearly prohibited in fee funding legislation. The solicitors are looking at the whole situation. Nobody is telling us to stop, but we don't have clear authority. We need to proceed cautiously. Fern asked if MISC could request funds under the cost share program if the issue is resolved. Steve responded that we would put together a proposal through Haleakala National Park and we might include other species in addition to miconia. We have ~\$300,000 unmatched non-federal funds that should overlap with the time period for the FY03 proposals.
- Forest asked if there are other parks with similar issues regarding using funds outside of their boundaries. Steve responded that nationwide invasive species awareness has increased and there is example after example of this need. We are on the cutting edge in doing this sort of work. The upper level management in the NPS is looking at this as a positive thing.

- We are planning to put around \$400,000 into a helicopter contract for miconia. Ron is going to Alaska to receive training on setting up the helicopter contract.
- The other round of NPS funding that we are hoping for is through the Natural Resource Preservation Program (NRPP). We have a proposal pending for \$300,000 per year for three years for miconia. The proposal will be going to Washington next week to compete nationally.
- Fern asked if the NPS frog funding is still available. Steve replied that he had a productive conversation with Earl. He is encouraging us to work with Bob Sugihara from the Big Island. We have a specific exemption from EPA under FIFRA for field use of caffeine that expires September 27. We need to show some good results by the end of September. We should set up a conference call with Bob and Earl soon. We need to get a feeling from Bob as to how much energy he could put to Maui.
- Fern asked about the requirement for certified pesticide applicators. MISC now has four certified applicators: Jack, Erik, Matt, and Mike Walker.
- Forest asked if we could treat the *planirostris* at the County nursery. Fern suggested that since it is experimental we should do both species.
- Steve concluded that it is very important we get the best results possible while we can. We will try to set up a meeting next week.

Federal Funding Update/USFS

- We put in a request for \$65,000 for MISC. Duane is pretty sure not everyone will get the full amount requested this year.

Federal Funding Update/USFWS

- With less total Federal funding available this year, USFWS is looking at trying to use their funds to support the entire state. This will mean a reduction of the funds for MISC by \$15,000 next year (we received \$40,000 this year) to support a statewide Public Relations/Education position. We feel strongly that we need to maintain a PR/Education position here at MISC as well. We will need to find the balance of the funds necessary to continue to fund a full-time position here on Maui. It is VERY important for us to have someone here at MISC on the ground. We think the most desirable model is for each island to have their own PR/education position.
- Les commented that the new “start-up” ISCs are facing difficulties because of limited funding. The Big Island suffers from a lack of County funding. They are willing to kick in to fund a statewide coordinator. A centralized person could offer advantages including providing a more unified statewide effort to raise the visibility of invasive species issues. The Big Island is losing their PR person. They are in a bind and are looking for help. This could benefit everyone.
- Fern asked where this idea come from. Les responded that it was first discussed at the USFWS funding meeting.
- Jack noted that the idea is coming from a posture of scarcity. With KISC and OISC up and running we have two more groups at the table competing for limited funds.
- Fern questioned whether some of the statewide functions could be met by Earl, Mindy, and CGAPS. We need someone here at MISC who can respond very quickly when things come up. The statewide concept really doesn’t work. We need to maintain local control. Fern questioned whether there is a need for statewide coordinator. There needs to be an explanation as to why this can’t be dealt with given existing people/positions.
- Mindy added that the reason her office hasn’t supported the outreach position on each island is because it was not made clear that there were the specific local needs. The feeling is that there was duplication of effort.

- Forest commented that if there is a feeling it is replication of effort to have outreach people on each island, the answer is in dealing with enforcement of existing legislation. We assume that everyone knows the situation as clearly as we do.
- Fern asked if it is necessary to make a decision regarding whether this move to a statewide position is going to eliminate the local position. Les replied that the decision must be made between the ISCs and all the coordinators. It isn't something CGAPS can do.
- Christy continued that as far as MISC is concerned the funding for the PR/Education position doesn't have to come from FWS. We have developed a successful model here. This is MISC's decision regardless of whether the other islands decide to fund someone to share.
- Fern asked if FWS is saying that the \$46,000 normally given to MISC will be re-appropriated for this new statewide position. Jack responded that yes that was his understanding. He continued that when he left the last FWS funding meeting he felt we had successfully lobbied to keep our program and that they would "continue to fund existing positions." Now it appears they have changed their minds.
- Christy noted that everyone had to reduce the amount of funding requested. The MISC amount went down to \$25,000 from \$40,000.
- Jack added there would still be benefit to MISC from a statewide position. We need to just say we plan to continue our current structure.
- Les continued that one of the reasons this came up is due to the number of times we've slipped under someone's radar. It is an effort to boost our presence and keep that from happening. There is no doubt that the local contact is critical. We need to consider that both the statewide and local positions have value.
- Jack added that the statewide position is still up in the air a bit. There is not really enough money to support an entire position. They haven't determined who will supervise the position, who they will be under, etc. There are a lot of details still undecided. The position will probably be with RCUH.
- Christy confirmed that she will be applying for this new position. She would like to know everyone's concerns so we can figure out how we can make this work.
- Jack stated that a big concern will be how to fill Christy's shoes. There is a hiring lag and we want to have some overlap of the replacement with Christy before she leaves.
- Christy mentioned that she sends in a progress report every six months to FWS. Copies of the most recent report are available if anyone wants one.

PR/EDUCATION STATUS REPORT (Christy Martin, MISC)

Statewide EEWf Video

- Christy and Russell Suzuki (MISC Field Worker) have been working on statewide EEWf. They filmed all the EEWf projects and edited the footage into a 27-minute video. The tape will air several times on Akaku and all the EEWf project leaders will receive a copy. It has already been on Akaku several times. If anyone else wants a copy, they are \$9.99.

Veiled Chameleons on Maui (w/Fern Duvall; DOFAW)

- There has been an outreach push and several press releases on the veiled chameleons. Fern thanked Christy for her quick response on the issue. There have been a number of things turned in under the amnesty program. It is not thought that they were wild animals. The MISC crew went back to Lahaina and did 40 hours of search based on the fact that there might be others in the area. The staff up there is really aware and we have a good chance of hearing about it if there are more.

- Mach noted that he thought he had seen a veiled chameleon from a previous year frozen in the State Ag. freezer. There are also poison dart frogs that have been turned in or picked up in past years. Fern suggested that those records need to be turned in to Domingo. Mindy added that she is working with Shannon McElvaney from the Heritage Program to establish a database on vertebrates similar to what is being done already for plants. If anyone has any records, turn them in to her even if you don't have vouchers.

Other Outreach

- We had a table at the Taro Festival. It was a great outreach opportunity. We had our MISC and EEWF crews there. A lot of folks from the community and several politicians stopped by.

MOMISC UPDATE

- MoMISC's part-time field worker, Lori Buchanan, started work on April 8 in a temporary position. There will be a regular RCUH part-time position announced for MoMISC soon. The position is funded by Hawaii Community Foundation.

HEAR PROJECT UPDATE

- Philip is still traveling, but is in-touch via email. He is working on the global invasive species products.

ONGOING BUSINESS

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

VERTEBRATE UPDATES (Fern Duvall, DOFAW)

Caribbean Frogs

- There has been a lot of vertebrate activity since the past meeting. There have been very positive developments on the caffeine labeling for coqui frogs. Some of the undoable label restrictions have been relaxed. There is caffeine available that must be used, we have frogs, we know the locations, and we need to start getting them. The deadline for the caffeine is near the end of September. We can't get another special use permit if the work isn't done now. The amount of monitoring required has been relaxed and the pest inspector doesn't have to visit every site now. We just need to work out the details of how to proceed and get the caffeine shipped.
- Aaron Kogan reported that he might have heard coqui in his yard way up on Piipolo Rd. Fern confirmed that there were coqui up there awhile back.
- Poison dart frogs have been turned in on Maui now. There may be previous records. Patti Welton may have another record on East Maui.

Parrot-Type Birds (Fern Duvall, DOFAW)

- The MARS permit is still valid and in force until 8/31/02. None of the specific permit work has been done to date. We should be getting a new report from them soon.
- We are investigating alternative plans for the mitred conures. It is clear that the birds are appearing in other areas and there are fewer birds in the main area. Christy, Fern, and a videographer visited the cliff site in a boat recently. They documented at least three juvenile birds. The birds left as soon as the boat came up. They got a good look at the cliff where the birds are nesting/roosting. They will go back again to look at the colony with Trevor so Wildlife Services can develop a plan. There will be no removal until after Aug 31 when the MARS permit expires. MISC is looking at contingency planning.
- There was also conure report from Peahi Gulch. Fern verified birds in that area. Apparently they have shifted their activity. Radar will be available in May to help us get a snapshot of numbers.
- Trevor asked how close they got to the cliff before the birds left and didn't come back? Fern estimated it was about 50m. Trevor asked about the number of birds that left/stayed. Fern replied that it was hard to tell because the birds stuck their heads out and then went back into their burrows. There were 21 that went up over the edge in one flock and never returned.

- Renate asked how wide the site is. Fern responded that it is far wider than we thought. Definitely wider than any net. The burrows are in the softer striations on the cliff and are very diffuse.
- The Peahi Gulch area looks almost identical to the Huelo Point cliff area. Fern didn't see any at the cliff in Peahi --- they are further inland.
- Steve indicated that the park has binoculars that hook up to the GPS. We could view the birds from the boat with binoculars and feed the locational data into the GPS.
- Trevor asked if anyone made contact with the landowner, Tavares. Christy asked if we want to go to the top of the cliff to look down? Trevor replied that would be best from a control standpoint.
- Renate noted that we need to involve the community more. They could maybe help us get access to the Tavares land.
- Conures are not on the state injurious species list.
- Christy talked to Dr. Fern Van Sant recently. She hasn't submitted a report yet, but assures us she will turn it in soon. Christy requested pictures. They say they are filling the feeding station. White Star hasn't followed through on this as he promised. MARS has been taking Frankie out to Huelo as the lure bird.
- Jack indicated that there was a parrot subcommittee meeting on March 14. We have notes if anyone is interested. This is a sensitive issue and we want to stay in touch with MARS. They have been informed of the possible use of the radar and that we are making contingency plans. We want to stress that we will continue to cooperate with them and support their efforts. After the MOU expires we will recommend action but not until the MOU is done. The permit could be extended by DLNR. No decision has been made on this. The USDA will need at least two months lead time to pass a contract through the Department and get set-up.
- Renate noted that Jamie Gillardi should give us a report because he is the acting director of the project. Renate still thinks we should offer them help in good faith. We could possibly help them to do their luring. There are Huelo residents that have offered to help and would let us put up stations of our own. We could try to do our own baiting. We need to get on this right now before we lose it totally. There has been a shift and the parrots are moving out of the core area. They have been seen more to the west. We may be in a situation where there are two roosting/nesting areas now. We should try to trap the burrows. This is not easy, as the sentinel bird will warn the colony. Trapping must be very well prepared. It is best done at night during the breeding time, which may be starting now. The chicks Fern and Christy saw are early in comparison to California where they usually breed in July. If we don't fight this we will lose. We know the birds can spread miconia and we are putting a lot of money and effort into miconia.
- Renate has turned in a draft of report on her parrot work. She needs to add maps and tables and will do that soon.
- Renate asked for permission to write an article on the conures for Elepaio. Christy agreed as long as MISC can edit the article.
- Trevor thanked the group for inviting him and sharing information. Because the conures are at a state where they are splintering, action should be taken sooner rather than later --- before it is too late. This is a time bomb and he hopes the committee will give this some thought.
- Fern concluded that we need to have another subcommittee meeting to talk about the nuts and bolts. This is definitely a sensitive issue.

Saffron Finches and Others (F. Duvall)

- Fern was out early this morning following up a report that turned out to be oiled myna birds in Hana.

- The finches upcountry have not been seen since at least December.
- Two male birds were seen at Keopulani Park in Wailuku. Forest and Kim have been trying to locate them. We want to use a new net gun to capture them. It has four weights powered by a shotgun shell.
- We need to consider whether the birds are getting here on their own power from the Big Island or whether people releasing them. They are seen in the pet trade now. The population on the Big Island is moving and branching out so they may be spilling over to Maui.

PLANT UPDATES (Jack Peterson)

Miconia Subcommittee Meeting Update (J. Peterson)

- We got together all of our major partners for a meeting on March 11 to look at current miconia data and talk about the NPS help that will be coming in. **In Attendance** were: Randy Bartlett, Bob Hobdy, Don Reeser, Ron Nagata, Steve Anderson, Art Medeiros, Lloyd Loope, Duane Nelson, Karl Dalla Rosa, Pat Bily, Anders Lyons, Alex Mikelitis, Robert Hauff, Nathan Varns, Jeremy Gooding, Elizabeth Anderson, Matt Snow, Mike Ade, Erik Barnard, Russell Suzuki, Mike Walker, Jack Peterson.
- We are very concerned because of the new plants we are seeing up higher than expected and because of the advanced infestations in the Keanae area. We re-evaluated our strategy. By consensus at the end of the meeting, our overall strategy hasn't changed much. We will focus more effort on bio-control and continue to focus on the periphery. The proposed miconia Incident Command system was also discussed. By Federal FY03 we should be at full war. We will need to have an EIS done. The EIS will be contracted out, but will probably be under EMWP umbrella.

Aerial Work/Peripheral populations & MISC Crew (J. Peterson, Erik Barnard, Michael Ade, MISC)

- Jack noted that Erik is doing an excellent job and charged ahead while Jack was on vacation. The crew put in 36 days of miconia groundwork covering 732 acres. They treated 77 acres and 32 seeding trees.
- We have conducted six helicopter missions since the last meeting. Four were spray operations (including one bio-control spray) and two were reconnaissance. The bio-control spray was on the south wall of Keanae Valley and in Wailuanui Valley. Aerial reconnaissance covered 2275 acres and spray operations killed 237 trees including nine seeding trees. We killed just about everything we could find in the Keanae area.

Bio-Control (Erik Barnard, MISC)

- Eloise is ready to get out of the bio-control business and move on. We are working with her to get our lab up and running at MISC. We will be starting our first batch next Thursday and will continue raising fungus until at least September. NIFTAL has agreed to let us use lab space and equipment. Eloise will be delivering her last batch on Thursday and will help us get our first batch up and running.
- Mach mentioned that there is evidence some of the other melastome bio-controls may not be as specific as was originally thought. This may be helpful in holding over a bio-control agent when one target goes down.
- Fern asked about follow-up on the bio-control. The EA specified this, but he is not sure of the details. Do we know how efficient it really is? Jack indicated that Eloise and Art actually did some follow-up but it has been discontinued. Christy added that Julie Denslow and Tracy Johnson were doing some follow-up on Big Island, but they have had problems with their control group.
- Mach added that the fungus should be fairly easy to recollect and re-isolate if needed.
- Forest stressed that we should be looking at the non-target impacts as well. This should be our responsibility. We should be confident that they are doing exactly what we say. Mach countered that this was already dealt with in the permit process. Erik added that the fungus is naturalized and we aren't releasing anything new.

Fountain Grass

- MISC participated in a 3-day fountain grass mission in conjunction with the National Guard, Ulupalakua Ranch, the EPMT crew, and the TNC-EEWF crew in Kanaio. There was a helicopter survey covering 2700 acres that found nothing. Ground coverage in the NAR was 988 acres. Erik commented that it was very successful operation and it was nice to work with multiple agencies. Jordan set the operation up.
- Mike Walker added that they did find a *Cortaderia* above the NAR (>6000 ft).
- Additionally the MISC crew spent five days on fountain grass town sites/the core. They covered 53 acres and controlled 14 seeding plants. We still need to deal with the Kahakoloa site. We can't reach them. David Norbriga reported some in the Kahakaloa area. We will get an exact location.
- Mindy mentioned they have been doing a cost analysis on dealing with big infestations. The Big Island is spending more than \$1 million a year on fountain grass.

Ivy Gourd

- A small crew spent five days on ivy gourd since the last meeting. They controlled several hundred plants in West Maui and brought back 15lbs of fruit. Ivy gourd is spreading in West Maui and showing up above the places we knew about before. We need to really keep our eyes on this.
- Mach is concerned that we could get 90% of these plants, but we are going to miss some because the terrain is difficult.
- Pat noted that the law is one thing, but the precedent of MISC doing this by cooperation is more productive. We are better off doing what we can with education and cooperation than with legal action.

Ivy Gourd Bio-control (Mach Fukada; DOA)

- Mach released two agents in the Kapalua area. One is a leaf-mining weevil and the other is a stem-boring moth. The weevil appears to be established and he is seeing reproduction already. We will probably not see anything from the borer for the next 4-6 months. Both agents should be able to disperse from the release site across the golf course. For more distant areas we will need to translocate the animals.
- Forest asked if there are any non-target impacts. Mach answered that there have been choice and non-choice tests.
- Mach has also been releasing a fruit feeding lepidoptera for clidemia at mile marker 12 on Hana Hwy. It is well established on the Big Island. If they do become established here, he will see about distribution. It seems to be a more of a lowland, warm climate species.

Other New Business

- Fern found 10 more plants of the Australian chenopodium, *Aenchylaena tomentosa*. The plants had come up with the rain. He pulled and bagged them on Mar 23. It has been eradicated again.
- There is a good chance MISC will be looking for a new home in September. We are expecting that we will need to vacate the NIFTAL site. The County came over earlier this week and said they want to use the site as a homeless shelter. They indicated that they don't want to displace us and we might be able to stay, even if only temporarily. We are concerned that this use might not be compatible with our operation. They are targeting the building that we are in. There is a possibility we could move into Paul's office. We will maintain a posture of cooperation. They evidently have \$3 million in funding available and this is a priority for the Mayor. We are interested in finding another location if anyone has suggestions. We are continuing to explore the Piiholo site and we looked at the old Haleakala Dairy, which may be available in 6 months. We need to look at the financial ramifications. The Dairy would take some money to fix up. Other ideas include the Puunene facility and the old Paia Mill.

- We've also discussed the idea of a consortium --- several partners (TNC, EMWP, WMMWP) going in together on a place. TNC will be losing their base-yard soon. The Dairy would be \$1600-2000/month. This might be manageable if we split it.

Next Meeting Date/Time: Friday, 06/07/02, 9am-12noon

MISC ACTIVITY SCHEDULE
February 25 to April 19, 2002

- 2/25: MISC crew travels to Hana
Miconia: w/ MISC-EEWF, TNC-EEWF, HALE-EEWF crews in Upper Nahiku
Basic Helicopter Safety Training, Matt & Elizabeth
EEWF filming: Long thorn kiawe w/ HDOA at Kapalama; Russ & Christy
- 2/26: Miconia: w/ MISC-EEWF, TNC-EEWF, HALE-EEWF crews in Keanae Valley
EEWF filming: Kaneohe Marine Corps Base; Dengue crew at Pupukea; Russ & Christy
- 2/27: Miconia: w/ EEWF crew in Keanae Valley
Helicopter Recon w/ Pacific: Waihoi Valley; Jack, Erik, & Mike W.
EEWF filming: Mt. Kaala w/ Army Nat. Resources; Kaena Point w/ DoFAW; Russ & Christy
- 2/28: Miconia: w/EEWF crew in Keanae Valley
EEWF filming: Kokee State Park w/ KRCP, Russ & Christy
- 3/1: Miconia: w/EEWF crew in Keanae Valley
Helicopter Recon w/ Pacific: Waihoi Valley; Jack, Erik, & Mike W.
MISC crew returns from Hana
EEWF filming: Barking Sands w/ HI-ANG, KISC; fireweed w/ HDOA; Russ & Christy
- 3 /4: MISC crew travels to Hana
Miconia: w/EEWF crew in Keanae Valley
Ivy Gourd: Kapalua; Russ
EEWF video: editing at Akaku; Christy
- 3/5: Miconia: w/EEWF crew in Keanae Valley
Ivy Gourd: Lahaina & Kapalua; Russ & Matt
EEWF video: editing at Akaku; Christy
USFW & USFS funding meeting, Honolulu; Jack
- 3/6: Miconia: w/EEWF crew in Keanae Valley
EEWF video: editing at Akaku; Christy
- 3/7: Miconia: w/EEWF crew in Keanae Valley
Helicopter Spray Operation: Miconia, Hana; Erik, Matt, & Mike W.
EEWF video: editing at Akaku; Christy
- 3/8: Miconia: w/EEWF crew in Keanae Valley
Helicopter Spray Operation: Miconia, Hana; Erik, Russ, & Mike W.
MISC crew returns from Hana
Meeting with Myles Inokuma re: EEWF future funding; Christy
- 3/11: MISC crew travels to Hana
Miconia: w/EEWF crew in Keanae Valley
Fountain Grass: Waiehu & Wailuku; Russ & Matt
Maui Miconia Program Subcommittee Meeting at MISC; Multi-agency representation
- 3/12: Miconia: w/EEWF crew in Keanae Valley
EEWF video: editing at Akaku; Christy
- 3/13: Miconia: w/EEWF crew in Keanae Valley
EEWF video: editing at Akaku; Christy
- 3/14: Miconia: w/EEWF crew in Keanae Valley
Parrot Subcommittee Meeting at MISC; Fern Duvall, Trevor Lu, Jack, Christy, Erik, & Mike W.
- 3/15: Miconia: w/EEWF crew in Keanae Valley
MISC crew returns from Hana

MISC ACTIVITY SCHEDULE con't

- 3/18: MISC crew travels to Hana
Miconia: w/EEWF crew in Keanae Valley (Rain out)
Meeting & Training w/ EEWF Supervisors & Crew Leaders in Keanae; Jack, Erik, Mike².
- 3/19: Miconia: w/EEWF crew in Keanae Valley
TNC EEWF crew moves to MISC
Fireweed: w/ TNC-EEWF crew; Russ
UH-CTAHR/HDOA Pesticide Applicator Course; Erik, Mike W., & Matt
- 3/20: Miconia: w/EEWF crew in Keanae Valley
Fireweed: w/ TNC-EEWF crew, Russ
Pesticide Applicator Course; Erik, Mike W., & Matt
Jack begins annual leave
EEWF video: editing at Akaku; Christy
- 3/21: Miconia: w/EEWF crew in Keanae Valley
Fireweed: w/ TNC-EEWF crew, Russ
Pesticide Applicator Course; Erik, Mike W., & Matt
EEWF video: editing at Akaku; video edit completed; Christy
- 3/22: Miconia: w/EEWF crew in Keanae Valley
Fireweed: w/ TNC-EEWF crew; Matt
Restricted Pesticide Applicator Licensing Certification Test; Mike W. (Aced it)
Miconia EEWF/EPMT funding and planning meeting; Erik, Elizabeth, Christy, & Jeremy
MISC crew returns from Hana
- 3/23: Puu-o-Kali in-kind support to Art M: video bulldozing/assist with bulldoze lines; Russ & Christy
- 3/25: MISC crew travels to Hana
Miconia: w/EEWF crew in Keanae Valley
- 3/26: Prince Kuhio Day Holiday, Mike A. works the Holiday
Miconia: w/EEWF crew in Keanae Valley
- 3/27: Miconia: w/EEWF crew in Keanae Valley
- 3/28: Miconia: w/EEWF crew in Keanae Valley
Restricted Pesticide Applicator Licensing Certification Test; Erik & Matt (Aced it)
Video veiled chameleons at DLNR baseyard; Mike W. & Christy
MISC crew returns from Hana
- 3/29: Good Friday Holiday (everybody)
- 4/1: MISC crew travels to Hana
Miconia: w/EEWF crew in Keanae Valley
County Council budget hearing; Christy
- 4/2: Miconia: w/EEWF crew in Keanae Valley
Heli-ops: Fountain Grass Recon, Kanaio; w/Nat'l Guard, Ulupalakua Ranch, EPMT; Erik & Mike W.
- 4/3: Miconia: w/EEWF crew in Keanae Valley
Fountain Grass: Sweeps, Kanaio NAR w/ Nat'l Guard, USFWS, Ulupalakua Ranch, EPMT; Erik, Matt, Mike W., Christy, Mike A., & Russ
- 4/4: Miconia: w/EEWF crew in Keanae Valley
Fireweed: Ulupalakua w/ National Guard & TNC-EEWF crew; Christy, Mike W., & Russ
Meeting w/ Steve & Jeremy re EEWF/EPMT transfer/merger; Erik, Mike A., & Elizabeth
- 4/5: Miconia: w/EEWF crew in Keanae Valley
Fountain Grass: Kahului; Matt & Russ
Budget Subcommittee Meeting at MISC; Multi-agency representation
MISC crew returns from Hana

MISC ACTIVITY SCHEDULE con't

- 4/8: EEWf evaluation meetings, data collection, & re-hire paperwork; Erik & Mike
Fountain Grass: Kahului; Russ, Sam, & Matt
- 4/9: MISC crew travels to Hana
Miconia: w/EEWF crew in Lower Nahiku
Bio-control preparation; Erik, Jeremy, & Elizabeth
Helicopter Spray Operation: Miconia bio-control
Parrots: Visit ocean-side cliff parrot roost w/ DOCARE; Fern Duvall & Christy
- 4/10: Miconia: w/EEWF crew in Lower Nahiku
Veiled chameleon search w/ DoFAW; Erik, Mike A., Russ, & Matt
Interview with Jackie Frost on veiled chameleons; Fern Duvall & Christy
- 4/11: Miconia: w/EEWF crew in Lower Nahiku
Veiled Chameleon search w/ DoFAW; Erik, Mike A., Russ, & Matt
CGAPS, ISC meeting; Christy
- 4/12: Miconia: w/EEWF crew in Lower Nahiku
Ivy Gourd: Lahaina/Kapalua; Matt, Russ, & Mike A.
MISC crew returns from Hana
- 4/13: Taro Festival exhibit booth; Christy, Jeremy, & MISC EEWf crew
- 4/15 MISC crew travels to Hana
Miconia: w/EEWF crew in Lower Nahiku
Gear Distribution: EPMT and HNP EEWf crew
Data Collection Meeting; Erik, Mike W., Mike A., Steve, Aaron
- 4/16: The great crew merger of 2002: MISC/EPMT/EEWF
Crew integration and orientation in Hana (all field staff)
Helicopter Spray Operation: Miconia, Hana; Erik, Matt, & Mike W.
- 4/17: Miconia: w/EEWF crew in Lower Nahiku
Jack back from annual leave
- 4/18: Miconia: w/EEWF crew in Lower Nahiku
Fountain Grass: Kahului, Russ & Matt
- 4/19: Miconia: w/EEWF crew in Lower Nahiku
MISC crew returns from Hana
Ivy Gourd: Russ & Matt
MISC Committee Meeting