

LINDA LINGLE
Governor

JAMES R. AIONA
Lieutenant Governor



Hawai'i Invasive Species Council

Co-Chairs:
PETER T. YOUNG
SANDRA LEE KUNIMOTO

MEMBERS:

Theodore E. Liu
Chiyome L. Fukino M. D.
Rodney Haraga
Evan S. Dobelle, Ph. D.

PARTICIPANTS:

Micah A. Kane
Major General Robert G.F. Lee
Mark E. Recktenwald

COUNTIES:

Mayor Alan Arakawa
Mayor Bryan J. Baptiste
Mayor Jeremy Harris
Mayor Harry Kim

FEDERAL:

U.S. Department of Agriculture
U.S. Department of the Interior
U.S. Department of Defense

PUBLIC MEETING NOTICE

Thursday, August 18, 2005
9:30 a.m. to 11:30 a.m.
Hawai'i Department of Agriculture
Plant Quarantine Branch
1849 Auiki Street
Honolulu, Hawaii 96819

HAWAII INVASIVE SPECIES COUNCIL

A G E N D A

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| 1. Call to order & introductions. | 9:30-9:35 |
| 2. Approval of minutes from September 21, 2004. | 9:35-9:40 |
| 3. Approval of a Research & Technology Working Group. | 9:40-9:45 |
| 4. Status of brown treesnake interdiction on Guam. | 9:45-9:55 |
| 5. Discussion and action on a draft letter concerning the status of brown treesnake interdiction on Guam. | 9:55-10:05 |
| 6. Status of West Nile virus planning. | 10:05-10:15 |
| 7. Working Group updates: | |
| Pests Not Present (Prevention). | 10:15-10:25 |
| Established Pests (Response & Control). | 10:25-10:35 |
| Research & Technology Program. | 10:35-10:45 |
| Public Outreach. | 10:45-10:55 |
| Resources & Interagency. | 10:55-11:05 |
| 8. Review and approval of budget for FY '05-'06. | 11:05-11:20 |
| 9. Additional public comments.* | 11:20-11:29 |
| 10. Adjournment. | 11:30 |

The next meeting is scheduled for Thursday, December 1, 2005 to discuss items for the next legislative session.

*Public comments will also be solicited at the time of each agenda item.

Persons requiring special assistance or services such as sign language interpreter should call (808) 587-0164 at least three business days before the meeting.

1151 Punchbowl St. #325, Honolulu, HI 96813 Phone: (808) 587-0164 Fax: (808) 587-0160

HAWAII INVASIVE SPECIES COUNCIL
PLANT QUARANTINE CONFERENCE ROOM
SEPTEMBER 21, 2004

MINUTES

Members Present

Peter Young, Co-Chairperson, Department of Land & Natural Resources (DLNR)
Sandra Lee Kunimoto, Co-Chairperson, Department of Agriculture (DOA)
Sam Callejo for Interim President David McClain, University of Hawaii (UH)
Larry Lau for Dr. Chiyome Fukino, Department of Health (DOH)
Bill Brennan for Mark Rectenwald, Department of Commerce & Consumer Affairs
(DCCA)
Rich Manayan for Theodore Liu, Department of Business, Economic Development, and
Tourism (DBEDT)
Rob Parsons, County of Maui

Others Present

Linda Chow, Deputy Attorney General, Attorney General's Office
Kim Langly, Coordinating Group on Alien Pest Species (CGAPS)
Christy Martin, CGAPS
Jamie Runnells, Big Island Association of Nurserymen
Bruce Caslet, The Nature Conservancy (TNC)
Cathy Goeggel, Animal Rights Hawaii
Jeff Burgett, U.S. Fish & Wildlife Services
Arnold Hara, UH-CTAHR
Clyde Tamaru, UH-Sea Grant Program
Mike Pitzler, USDA-APHIS-Wildlife Services (USDA-APHIS-WS)
Mark Ono, USDA-APHIS-WS
Chris Dacus, Department of Transportation (DOT)
Lynn Becones, DOT
Liz Corbin, DBEDT
Mindy Wilkinson, DLNR
Tony Montgomery, DLNR
Sheri Mann, DLNR
Rob Hauff, DLNR
Paul Conry, DLNR
Larry Nakahara, DOA
Nilton Matayoshi, DOA
Kenneth Teramoto, DOA
Neil Reimer, DOA
Darcy Oishi, DOA
Carol Okada, DOA

Keevin Minami, DOA
Jason Knable, Senate, State of Hawaii
Jennifer Chow, Senate, State of Hawaii

CALL TO ORDER

The meeting was called to order by Co-Chairperson Peter Young at 1:10pm.

APPROVAL OF MINUTES FROM MARCH 1 AND MARCH 31

Peter Young said that the minutes of both meetings have been circulated. Then he asked for any discussion.

MOTION: Sam Callejo made a motion to accept the minutes of the meetings of March 1 and March 31. Larry Lau seconded the motion.

Vote taken. Motion carried unanimously.

INFORMATIONAL BRIEFING ON THE STATUS OF BROWN TREE SNAKE INTERDICTION EFFORTS ON GUAM

Mike Pitzler of USDA-APHIS-WS started by saying that Wildlife Services was established on Guam in October 1993. At that time, the Department of Interior, Insular Affairs, started with \$45,000 and Department of Defense put in \$1,000,000. Funds were used to hire canine handlers, and trapping and fence line searches at night. Today, Interior funds increased to \$475,000 while the DOD funds have remained the same at \$1,000,000. Because DOD funds have not increased since 1993, Wildlife Services has had to cut four positions on Guam in June 2003 and will cut an additional four positions in June 2005. Also, beginning in October 2004, Anderson AFB will be charging Wildlife Services \$84,000 annually for kennel space, electrical fees, etc. Also, offices at Anderson AFB have been moved off base, which means slower response time for inspection of aircraft. These aircraft arrive at various times, sometimes with little or no warning.

Mike Pitzler continued by saying Interior bailed out Wildlife Services with an additional \$300,000 in 2004. Wildlife Services actually overspent \$500,000. It takes six to seven months to properly train a canine handler. 6,000 snakes are caught per year. Spot light searches will no longer be conducted. Canine handlers can conduct only one inspection per day. Household goods and military training cargo will no longer be inspected.

Mike Pitzler said he has been trying to secure more funding, especially from DOD. Senator Dan Inouye's office is pushing for \$1.8 million to re-establish four positions lost

and to secure the remaining eight positions for the current year. Will need \$2.4 million in 2006. Military will increase activities on Guam by 30%. Prior to 2002, 100% of DOD cargo and 85% of commercial cargo were inspected.

Peter Young asked if more letters need to be written.

Mike Pitzler answered that CGAPS have written letters to Senators Inouye and Akaka and Congressmen Abercrombie and Case. Also, Wildlife Services has kept in touch with Sen. Inouye through Chauncey Ching. TNC sent letters to Secretary Rumsfeld (DOD) and Secretary Veneman (USDA). More letters will help the cause.

Peter Young asked how much more funding is needed.

Mike Pitzler said at least \$1.8 million on the DOD side. DOI has kept up with their allocations. \$1 million temporary funding comes in February 2005.

Sandra Lee Kunimoto commented that it is extremely vital to keep up this program.

Peter Young thanks Mike Pitzler for the briefing.

UPDATES AND SUMMARY OF WORKING GROUP MEETINGS

Resources Working Group

Liz Corbin (DBEDT) reported that the group had two meetings with the next meeting on Sept. 30th. The group has started to identify funding groups and also new sources of funding. Also developed preliminary task list and are reviewing with other groups to find gaps in funding. Lead agency for the Resources Working Group (RWG) is the Hawaii Dept. of Business, Economic Development, and Tourism.

Prevention Working Group

Neil Reimer (DOA) reported that this group met twice to discuss the status of prevention efforts in Hawaii, review the proposed task list, and discuss, develop and recommend a budget for the funding of invasive species prevention programs. Lead agency for the Prevention Working Group (PWG) is the Hawaii Dept. of Agriculture.

Neil Reimer reported that PWG recommends that HISC fund four prevention initiatives for FY04-05: (1) \$650,000 to DOA; (2) \$90,000 to USDA-Wildlife Services; (3) \$75,000 to DLNR-Aquatic Resources; and (4) \$175,000 to DOH.

DOA proposal is to conduct a risk analysis to determine the risk of entry of invasive species through ports-of-entry across the state and determine the effectiveness of current prevention efforts. DOA will hire 13 research aids through RCUH to collect and analyze this data. The aids will work under the supervision of Plant Quarantine

inspectors. Data on commodities and pests entering the state will be collected during the intense blitz inspections of 100% commodity inspections. This collected data will be analyzed concurrently with the inspections for the generation of monthly reports.

USDA-Wildlife Services proposal is to conduct a pilot project using two canine handlers to inspect brown tree snakes (BTS) on ship containers on Guam destined for Hawaii. Snake traps will also be placed around these areas. Data collected will provide valuable information on the risks posed by these containers to Hawaii. This proposal is critical considering the recent cutbacks the Wildlife Services program on Guam has suffered. The data will be instrumental in the discussions on the need for a certification program for ship containers leaving Guam for Hawaii.

DLNR-Aquatic Resources proposal is to conduct three projects to increase communication between Aquatic Resources, other state agencies, and the shipping industry to minimize aquatic invasive species introductions.

DOH proposal is to improve surveillance and rapid response capabilities to address the threat of West Nile Virus.

Established Pests Working Group

Mindy Wilkinson (DLNR) reported that this working group met once to review efforts in Hawaii to control established pests by DOA, DLNR, and DOH; review the proposed task list; review the list of invasive species control programs. Lead agency for the Established Pest Working Group is DLNR.

Based on the discussions at the meeting, the distribution of Response & Control, funds for FY04-05 are as follows: (1) \$220,000 for support of Kauai Invasive Species Committee; (2) \$220,000 for support of Oahu Invasive Species Committee; (3) \$240,000 for support of Maui Invasive Species Committee; (4) \$320,000 for support of Big Island Invasive Species Committee; and (5) \$200,000 for DLNR-Aquatic Resources Marine Invasive Species Response Team.

Public Outreach Working Group

Mindy Wilkinson (DLNR) reported for Laura Lott (DOH) who was not present at the meeting. This group met five times to review and update the list of goals and tasks in the Interim State of Hawaii Strategic Plan; review current efforts; and develop an agency survey form to track current invasive species outreach efforts and matching funds needs. Lead agency for the Public Outreach Working Group is Dept. of Health.

The group agreed that the following issues need to be addressed in the coming year: (1) West Nile Virus; (2) coqui frogs; (3) aquatic issues; (4) Weed Risk Assessment; (5) Ports-of-entry worker outreach; (6) transport of pests (into the state, between islands, around islands); and (7) Red Imported Fire Ant. Recognizes the importance to include DOT and Dept. of Education.

Three funding strategies have been identified: (1) hire additional outreach staff for Big Island, Oahu, and Kauai to be supervised by the Invasive Species Committee to carry out Public Outreach Working Group quarterly work plan; (2) use new staff and funding to support outreach on priority species and messages, including West Nile Virus, CGAPS "Don't pack a pest, Don't plant a pest, and Report a pest" public service announcements.; and to support the development of the HISC website; and (3) make grants available for existing programs carrying out invasive species outreach and provide opportunities to coordinate messages between groups relating to priority messages. A Request for Proposals is being developed and will be finalized at the next meeting.

APPROVAL OF INVASIVE SPECIES BUDGET FOR FISCAL YEAR 2005-2006

Mindy Wilkinson explained the budget of \$3 million for a one year pilot project to provide support for both the operations of HISC and its cooperating partners to develop and implement a partnership of federal, state, country and private entities for a comprehensive state-wide invasive species prevention, detection, and control program. State dollars will be matched 1:1 by non-state dollars or equivalent in-kind services making this an overall effort of \$6 million.

Mindy Wilkinson further explained that redistributing the percentages allocated to each budget area as compared to the previous budget proposal will take advantage of the existing infrastructure of the island invasive species committees, provide jobs and involve the public with visible accomplishments on each island, and provide a stronger justification to support sustained funding for the 2005-2007 administration's invasive species budget request.

This budget request is under DLNR but it includes and involves programs and project from nine different departments, four counties, and federal and private partners. This funding will not replace any of the existing state, private, or federal funding, but will complement and expand on existing programs.

The overall goals of the Administration's budget request for HISC are: (1) Coordinate invasive species management and control programs for county, state, federal, and private sector entities by developing a structure for cooperators to work together to share resources and responsibilities; (2) Increase inspection and other "prevention" capabilities to prevent high-risk species and diseases (e.g., brown tree snake, West Nile Virus, etc.) from entry into the state, or to specific islands where they are not currently found; (3) Accelerate the control of priority invasive species already present in the state (e.g., miconia, coqui frogs, marine algae, etc.) by developing a more effective state-wide early detection and rapid response capability with the Island Invasive Species Committees and other response and control efforts; (4) Leverage increased involvement and expertise from private and academic sectors to assure that Hawaii has access to the most up-to-date, effective and efficient research and technology tools to combat

invasive species; and (5) Implement a coordinated statewide invasive species public outreach program with shared research and responsibilities among cooperating entities.

Mindy added that there are four components for state funding: (1) building up prevention capabilities – 33%; (2) establishing response and control programs – 40%; (3) enhance research and applied technology – 20%; and (4) developing a public outreach program – 7%.

Peter Young agreed that there are \$6 million in matching funds. He also questioned how the Invasive Species Committee funding is being spent.

Mindy Wilkinson said that the priorities are set at the county level because each island deals with different pests. Must set schedule and reporting accomplishments and also need to show standards and performance measures. Funding levels depended on the size of the county.

Sandra Lee Kunimoto commented that the contracts for the funding to each island Invasive Species Committee has to be very specific and detailed.

Larry Lau said that the contracts should have a general concern for all activities.

Sandra Lee Kunimoto added that we have to move cautiously and be cognizant of the overall strategy at all times.

Peter Young asked for any other comments.

Rob Parsons, executive assistant to the Mayor of Maui County on environmental concerns, said that the Maui Invasive Species Committee seems to be losing ground to the coqui frog. In the Maliko Gulch area, 150 coqui frogs were caught in two hours recently. Small backyard populations are in various areas on Maui. Commercial nurseries are infested. West and South Maui resorts are also infested. He urged HISC to increase the dollar amount for Maui County, which includes Molokai, Lanai, and Kahoolawe.

Rob Parsons added that DOT has a draft EIS for proposed commercial expansion of Kahului Harbor. The Super Ferry and cruise ships will triple the number of visitors to Maui County, but there is no mitigation language which is a cause for concern.

Peter Young then asked what county should get less dollars.

Rob Parsons could not answer that question. But he just reiterated that Maui County needed more funding because of the limited window of opportunity.

Peter Young asked Mindy Wilkinson to explain the process of allocation of money between counties.

Mindy Wilkinson answered that they first two pests looked at was miconia and coqui frogs. After that, it differed from island to island. Fireweed is a problem on the Big Island and Maui, but almost non-existent on Oahu and Kauai. For the coqui frog on Oahu, Waimanalo and three other fronts; for Kauai, one place. Distribution of funding was agreed upon by a larger group, including U.S. Fish & wildlife Service and other agencies.

Larry Lau said Oahu threats are coqui frog and miconia. The broad funding group includes federal, state, and private entities and also depends on county size. What marine species should be considered?

Tony Montgomery (LNR-R) said that snowflake coral and give species of algae are at the top of the list.

Sandra Lee Kunimoto commented that there should also be a summary on agricultural pests and called on Larry Nakahara (Plant Pest Control) to give this summary.

Larry Nakahara started with fireweed, which infests the Big Island and Maui with smaller infestations on Kauai and Oahu. Currently there are two insects or biological control agents in quarantine. These insects will probably be released some time next year. We are trying to eradicate fireweed on Kauai and prevent the introduction of fireweed in commercial carpet grass from Australia.

Larry Nakahara continued with the little fire ant. The infestation has spread from Puna, the original infestation site on the Big Island, to encompass over 20 square miles. Staff at the USDA laboratory in Florida are willing to assist but need funds for exploration. The little fire ant is very time and slow moving so most people don't know the ant is there until too late.

The coqui frog is a big problem in Hawaii because it infests areas on the Big Island that are inhabited by people. Infested areas on other islands are generally not inhabited. Currently, DOA is trying to get hydrated lime registered as a pesticide. We are trying to empower people to control this frog by researching ways for individuals to control this pest and loaning 100-gallon sprayers to community groups.

Another agricultural pest is the nettle caterpillar on the Big Island according to Larry Nakahara. This caterpillar stings people and attacks palms, coconuts, and many monocots. According to the literature search, biological agents are probably in Indonesia, Southern Thailand, and probably Taiwan. But Indonesia and Southern Thailand are areas of political unrest and not safe for exploration so we are looking at Taiwan right now.

Sandra Lee Kunimoto thanked Larry Nakahara for the report on agricultural pests.

Clyde Tamaru of the UH-Sea Grant Program commended that the apple snail threatens the taro industry in Hawaii. Taro farms are located on U.S. Fish and Wildlife reserves and, therefore, taro farmers cannot use much pesticides to kill the apple snails.

Larry Lau asked Rob Parsons what kind of dollar amount for Maui County will HISC be looking at.

Rob Parsons said anything more will make a difference. He is not prepared at this time to ask for a specific dollar amount. One suggestion would be to have a reserve to tap in to by one of the counties in case of an emergency.

Sandra Lee Kunimoto said the USDA-WS put in for funding of \$3million per year for three years.

Peter Young asked for a motion.

MOTION: Larry Lau moved to accept with an amendment to put aside 10% of Response and Control funds in a reserve for future disposition. Sam Callejo seconded the motion.

Discussion

Peter Young asked if the 10% would be for an emergency for rapid response.

Larry Lau said rapid response would be preferable.

Peter Young then said 10% should be held in reserve by each county.

Larry Lau said it would be better to have 10% put on reserve than each county reserve 10% of its funding.

Sandra Lee Kunimoto commented that it would be better to have each committee hold back 10%. If HISC holds 10% back, then the members would have to vote later on the disposition of the funds.

Peter Young wants the funds available so money must be set aside.

Mindy Wilkinson said Research and Applied Technology has a call for proposals three times during the year.

Sandra Lee Kunimoto reiterated that the purpose is to get the money to the various agencies so everyone can get started.

MOTION: Larry Lau moved to withdraw the motion. Sam Callejo seconded.

MOTION: Larry Lau moved to accept the budget as proposed. Sam Callejo seconded.

Vote taken. Motion carried unanimously.

APPROVAL OF A PLAN FOR REMOVAL OF INVASIVE SPECIES FROM STATE LANDS

Mindy Wilkinson read the proposal asked for support by HISC for DLNR personnel and contractors to remove invasive trees if they have a special use permit.

Peter Young said this is a sensitive issue and is not considered commercially harvesting trees, but removal of invasive trees from the forest. A permit is needed for removal.

Sandra Lee Kunimoto asked if DLNR only wanted support for the removal of invasive species trees from state lands.

Peter Young said the species are silk oak and eucalyptus.

Larry Nakahara commended that if silk oak and eucalyptus are not on the noxious weed list, then these species are not considered invasive species according to HISC's definition.

Bill Steiner (U.S. Geological Survey) said that the native insects found on these trees targeted for removal should be studied since the trees have been in the forests for a long time, plus these trees may not be in native forests.

Paul Conry (DLNR-Forestry & Wildlife) said DLNR just want support by this policy body. There are trees in the forest that need to be removed because they are causing problems.

Nilton Matayoshi (DOA-Plant Pest Control) wanted to be certain that this involves only state lands and not federal lands.

Sandra Lee Kunimoto mentioned that no resources will be committed to this proposal

Bill Steiner proposed consideration of a recovery program.

MOTION: Sam Callejo moved to support the program. Sandra Lee Kunimoto seconded.

Discussion

Larry Lau asked to add "appropriate" before the removal in the context of permit regulation. Upon further consideration, he said "appropriate" is not needed.

Vote taken. Motion carried unanimously.

ADJOURNMENT

The meeting was adjourned at 2:55pm by Co-Chairperson Peter Young.

Respectfully submitted,

SUE H. SAKAMOTO
Recording Secretary

Draft letter for Governor Lingle
Concerning the status of brown tree snake interdiction on Guam

Dear [entity]:

The State of Hawaii is extremely fortunate to have so many treasured endemic flora and fauna. Invasive species threaten that heritage. The impact of a single species on a Pacific island is sadly illustrated by the brown tree snake on Guam. Since its introduction in the late 1940's in materials moved by the U.S. military, the snake has caused the extinction of nine of their eleven native forest birds. It has frequently caused electrical power outages and has bitten children and adults. Without natural enemies, brown tree snake densities have grown as high as 10,000 snakes per acre—the highest in the world. There continues to be a significant risk that these snakes will be transported in military and civilian aircraft and ships to Hawaii.

In 2003, I signed Act 85 into law, which states:

... the silent invasion of Hawaii by alien invasive species is the single greatest threat to Hawaii's economy, natural environment, and the health and lifestyle of Hawaii's people and visitors.

Experts estimate that the brown tree snake could cause from \$400 million to \$1.8 billion annually in damages to the citizens, infrastructure, economy, and native environment of the State of Hawaii. The devastating impact to Hawaii's unique birds would be an irrevocable tragedy to our natural and cultural heritage, as it has been to Guam's.

The State of Hawaii would like to see 100% inspection of military aircraft, cargo, vehicles, and household goods, as well as 100% coverage by an interdiction program at seaports and airports in Guam and the Commonwealth of the Northern Mariana Islands. To protect Hawaii, we would like for invasive species prevention to be included in the budgets for military base operations. We feel the military could learn from the past and take responsibility for preventing the transport of brown tree snakes.

In the Pacific we are fortunate to have a tradition of working together. The Brown Tree Snake Control and Eradication Act of 2004 was a welcome recognition of the personal commitment of many dedicated individuals and cooperation between agencies. The greatest success of all from Hawaii's perspective has been that only one brown tree snake has been captured on Hawaiian soil since the initiation of the USDA/APHIS/Wildlife Services inspections of military and civilian aircraft and cargo on Guam. Before that program, seven snakes made it to Hawaii.

I am concerned that this critical Wildlife Services program has not been receiving adequate funding and support from the Department of Defense to continue at level commensurate with the increase in military activity on and through Guam. I hope that the Department of Defense will increase its support of and participation in brown treesnake prevention efforts by the Departments of Agriculture, Interior, and other federal agencies.

Draft letter for Governor Lingle
Concerning the status of brown tree snake interdiction on Guam

Brown tree snake control and interdiction needs to be considered a primary issue when planning military expansion on Guam. Proper facilities and funding need to be provided to all partners in this effort. I view invasive species prevention and control as essential to base operations and readiness.

I understand this is especially problematic during times of war. However, a failure to stop brown tree snakes would have permanent impacts after a war is over—to Hawaii's health, economy, and environment. A failure to stop brown tree snakes would be an irresponsible and sad legacy for future generations of Hawaii residents and visitors.

Sincerely,

LINDA LINGLE
Governor, State of Hawaii

Suggested recipients:

Secretary of Defense Donald Rumsfeld

The Honorable Gordon R. England
Acting Deputy Secretary of Defense
1010 Defense Pentagon
Washington, DC 20301-1010

The Honorable Michael L. Dominguez
Acting Secretary of the Air Force
1670 Air Force Pentagon
Washington, DC 20330-1670

The Honorable Gordon R. England
Secretary of the Navy
1000 Navy Pentagon
Washington, DC 20350-1000

The Honorable Kenneth J. Kreig
The Under Secretary of Defense (Acquisition, Technology, and Logistics)
3010 Defense Pentagon
Washington, D.C. 20301-3010

The Honorable Phillip W. Grone

Draft letter for Governor Lingle
Concerning the status of brown tree snake interdiction on Guam

Deputy Under Secretary for Installations and Environment
3010 Defense Pentagon
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Admiral William J. Fallon
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General Paul V. Hester
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Colonel Richard Johnson,
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Mr. Donald Schregardus
Deputy Assistant Secretary of the Navy (Environment)
Defense Pentagon
Washington, DC 20301

Ms. Maureen Koetz
Deputy Assistant Secretary of the Air Force (Environment, Safety & Occupational Health)
Defense Pentagon
Washington, DC 20301

**Hawai'i Invasive Species Council
Research and Technology Program
2005 Awards**

Project Title	Principal Investigator	Institution	Amount Awarded	Status as of 8/11/05
1. Development of methods to control alien algae on Hawaii's reefs	Cynthia Hunter	University of Hawai'i, Manoa	\$82,980	pending signatures
2. Accelerated evaluation of insects in Costa Rica and Brazil for biocontrol of <i>Miconia calvescens</i>	Tracy Johnson	USDA Forest Service Institute of Pacific Islands Forestry, Hilo	\$78,747	pending signatures
3. Ecology of a specialized nudibranch predator (<i>Phyllodesmium poindimiei</i>) and implications for potential biocontrol of an invasive octocoral [snowflake coral] (<i>Carijoa riisei</i>) in Hawai'i	Rob Toonen	Hawaii Institute of Marine Biology, University of Hawai'i	\$52,018	pending signatures
4. Identifying Sex Pheromone Components of the Nettle Caterpillar, <i>Darna pallivitta</i> (Moore), to Facilitate Detection and Pheromone Disruption Control	Eric Jang	USDA Agricultural Research Center, Hilo	\$50,000	pending signatures
5. Community level impacts of invasive ants in Hawaiian coastal communities	Sheldon Plentovich	University of Hawai'i, Manoa	\$47,359	pending signatures
6. Ecology and management implications of an invasive soft coral species [snowflake coral], <i>Carijoa riisei</i> in Hawai'i	Rob Toonen	Hawaii Institute of Marine Biology, University of Hawai'i	\$40,534	pending signatures
7. Pilot Multi-Agency Early Detection Reporting System [for invasive species]	Kevin Hopkins	Pacific Aquaculture and Coastal Resources Center, University of Hawai'i at Hilo	\$37,400	pending signatures
8. Quarantine testing for an insect for biocontrol of <i>Miconia calvescens</i>	Tracy Johnson	USDA Forest Service Institute of Pacific Islands Forestry, Hilo	\$37,275	pending signatures
9. Developing a database to provide risk analysis of reptile and amphibian introductions	Fred Kraus	Bishop Museum	\$36,250	in progress
10. Quarantine testing for an insect for biocontrol of <i>Tibouchina herbacea</i>	Tracy Johnson	USDA Forest Service Institute of Pacific Islands Forestry, Hilo	\$28,075	pending signatures
11. Ecological consequences of the coqui frog invasion into Hawai'i	Karen Beard	Utah State University	\$26,800	pending signatures

**Hawai'i Invasive Species Council
Research and Technology Program
2005 Awards**

Project Title	Principal Investigator	Institution	Amount Awarded	Status as of 8/11/05
12. Detecting the Veiled Chameleon (<i>Chamaeleo calypttratus</i>) on Maui: A Research Proposal to Enhance Control of an Injurious Species	David Duffy	Maui Invasive Species Committee	\$25,000	pending signatures
13. Thermal Treatment System [for coqui in nursery stock]	Bill Durston	Leilani Nursery, Oahu	\$22,675	in progress
14. Identifying Chemical Attractants and Repellents to Monitor and Manage the Black Twig Borer (<i>Xylosandrus compactus</i>) in Coffee Orchards, Koa Reforestation Areas, and Threatened and Endangered Species Restoration Plantings	Nick Dudley	Hawai'i Agriculture Research Center, Aiea	\$21,500	in progress
15. Determination of foraging and movement patterns of <i>Aratinga erythogenys</i> [red-masked conure] (Aves: Psittacidae) using mist-net live capture and radio telemetry on O'ahu Island, Hawai'i	Kirsten Silvius	Environmental Center, University of Hawai'i, Manoa	\$10,111.95	pending signatures
16. Survey and Mapping of the New Invasive Mosquito: <i>Aedes japonicus japonicus</i> on the Island of Hawai'i	Linda Larish	Hawai'i Department of Health	\$2,243	in progress
17. Effects of fountain grass management strategies on the demographics of a tropical dry forest plant community and on the promotion of a potential new invader	Danielle Frohlich	University of Hawai'i, Manoa	\$820	in progress
Total Awarded			\$599,788	

HISC Public Outreach Working Group

Current Chair: Maile Sakamoto, Hawaii Department of Health (from July 2005)

Past Chair: Laura Lott, Hawaii Department of Health (from March, 2004-May, 2005)

Goal of the Public Outreach Working Group

Develop a Public Outreach program in cooperation with private and public sector for visitors and residents to increase voluntary compliance of quarantine laws, avoid accidental introductions of invasive species, and establish an effective pest hotline that delivers timely information to managers on the ground.

Outreach Objectives and Timeframe:

1. Identify high priority messages to focus education efforts and develop outreach plans with the Department of Education (2 years).

- Recognizing that good curricula exists and partnerships are already in place with the DOE, funds were provided to groups via the Outreach Grant Program for the Ho`ike Curriculum on Fire Ants, the Leeward Community College invasive species outreach video series, the Outside Hawaii show dedicated to invasive species, the Malama I Ka Aina curriculum for schools and the Moanalua Gardens Foundation Ohia Project to update the “Silent Invasion” curriculum for Hawaii public schools.
- HISC Outreach staff is also collecting information on the available curricula and educational materials into a single database on the web to make it easier for Hawaii teachers to find age-appropriate activities and lesson plans on invasive species (project in progress, product will be posted on the HISC website).
- HISC Outreach staff has formed new outreach partnerships with the Pacific American Foundation for outreach to Pacific islanders living in Hawaii, *Malama Kalihikai & Save our Seas* and the Garden Island Arts Council to reach segments of the community not currently reached.

2. Develop a business round table of private sector transportation entities (e.g., airlines, shipping) to identify invasive species outreach opportunities (2 years).

- Outreach staff have met with representatives from public and private sector to identify outreach opportunities including: HDOT Divisions of Harbors and Airports, Honolulu City Council and Mayor’s office, HDOH, USFWS, and others. While there is not much interest by transportation entities in forming a round table, there are opportunities for outreach that are not currently being tapped, such as articles in employee newsletters, etc.

3. Develop or utilize an existing website for in-reach to HISC members and partners as well as outreach for the general public for pertinent invasive species issues (1 year).

- Two years ago the Coordinating Group on Alien Pest Species secured funding for a website designer to design a new, user-friendly site for CGAPS and the ISCs. This year it was decided

that a new HISC site could be part of this scope of work. All information from the existing sites are due at Info Grafik (the designer) by the end of August. They will produce a Beta-design for our review shortly after. The site will be hosted by the Pacific Basin Information Node and updates will be posted by one of their staff. The HISC outreach staff is assisting in gathering all information from existing sites to move to the new site.

4. Develop a series of invasive species Public Service Announcements in cooperation with a variety of media outlets to encourage travelers and residents to not introduce or transport invasive species into and between islands (1 year and ongoing).

- The Outreach Working Group agrees that one clear need identified in Public awareness surveys conducted by CGAPS is that less than 5% of the population is aware that there is a pest hotline, almost nobody knew the number or the agency to call, and neighbor island residents were reluctant to call a toll-number. HISC funds will be used to institute a new, Statewide Pest Hotline number, 643-PEST, to address these issues. Calls to 643-PEST can be dialed from anywhere in the State, without any prefix. The computer system that accompanies the number will be able to sort the calls so that calls originating on Maui will be routed to the Maui office, and calls will be forwarded to the HDOA Airport office after hours and on weekends. The current Pest Hotline number, 586-PEST will remain in existence.

- The Working Group and staff are assisting CGAPS on the Silent Invasion media campaign, which will include five 30-second public service announcements. The PSAs will include the following messages:

1. "Protect Hawaii—Don't Plant a Pest."
2. "Protect Hawaii—Don't Pack a Pest."
3. "Protect Hawaii—Report a Pest"
5. "Protect Hawaii—The Silent Invasion of Hawaii's Reefs"

- The HISC Outreach staff has conducted additional outreach including the following:

Information booths at:

- Kauai Garden Fair (hundreds in attendance)
- Kawamura Farm Expo (Kauai; hundreds in attendance)
- Kokua Festival (Maui & Oahu)
- Malama I Ke Kai Ocean Festival (Oahu).
- Community display boards at KCC library for 4 months, and at Waimea and Princeville libraries

Presentations given:

- Garden Fair presentation to an audience of 40+ about horticultural invasive introductions
- Sierra Club Kauai Chapter, Executive Committee-15 people
- Hanalei Watershed Hui-10 people
- Ohana o Ka Aina-10 people
- Kauai Blue Water Campaign & Reef Check volunteers-30 people

Media:

- Kauai 97 FM radio interview on invasive species
- Garden Island article on invasive species and KISC
- Hawaii Public Radio (HPR) radio programming on coqui frogs, brown treesnakes and miconia (100,000 listeners statewide)
- Hawaii Public Radio (HPR) radio programming on invasive seaweed and snowflake coral (100,000 listeners statewide)
- KHON-2 (Fox Affiliate) television broadcast programming on coqui frogs: “Hawaii’s Morning News” show, to discuss coqui frog control efforts.
- Voice of America (VOA) radio programming on coqui frogs and miconia (visit <http://www.voanews.com/english/AmericanLife/2005-08-10-voa12.cfm>)

Printed flyers and other materials are being developed for island-specific and statewide use. These include a new flyer on miconia, aquatic invasive species and coqui frogs.

**Hawai'i Invasive Species Council
Public Outreach Grant Program
2005 Awards**

Project Title	Institution	Amount Awarded	Status as of 8/11/05
1. Public outreach via radio to encourage coqui frog reports	Pacific Cooperative Studies Unit, UH	\$10,000	in progress
2. Invasive species information series	Leeward Community College	\$10,000	in progress
3. "Fight the Bite" West Nile virus campaign	Environmental Planning Office, DOH	\$10,000	in progress
4. Malama i ka 'aina, issues with invasive species	Curriculum Studies Department, UH	\$10,000	in progress
5. Environmental education in East Maui	East Maui Watershed Partnership	\$10,000	in progress
6. Aquatic invasive species informational booklets	DLNR	\$10,000	could not complete; used \$ for WNV and coqui
7. Ohi'a Project update--Invasive species and native plants and animals	Moanalua Gardens Foundation	\$9,800	in progress
8. Hawai'i invasive species outreach on mainstream television	Dive and Trek LLC	\$9,735	pending signatures
9. Extinguishing the little fire ant through education: Using the Ho'ike o Haleakala curriculum for early detection on Maui	Ho'ike o Haleakala Steering Committee	\$7,885	pending signatures
10. Enhancing community capacity: The Palolo Invasive Species Swat Team (PISST) phase 1	E Kupaku ka 'Aina - The Hawaiian Land Restoration Institute	\$6,750	in progress
11. School monitoring of intertidal invaders	Curriculum Research & Development Group, UH	\$6,630	in progress
12. Invasive/alien species education/outreach for Hawai'i Island	North Kohala Community Resource Center	\$5,300	in progress
13. Landscape Industry Council of Hawai'i Green Industry Conference 2005	Landscape Industry Council of Hawai'i	\$3,610	completed
Total Awarded		\$109,710	

**Hawai'i Invasive Species Council
FY06 Budget Proposal**

August 11, 2005

	FY06 Budget			FY05 Budget			Interim Plan Budget	
	Proposed	In Millions	% of HISC	In Millions	% of HISC	% Change in FY06	Working Group %	In Millions
Prevention Total	1,516,535	1.52	38%	1.34	34%	13%	35%	1.40
DOA	755,000		19%					
DOH	455,135		11%					
USDA WS	186,000		5%					
DLNR	120,400		3%					
Response & Control Total	1,560,000	1.56	39%	1.70	43%	-8%	30%	1.20
DLNR Aquatic Invasive Team	300,000		8%					
Island ISC's	1,260,000		32%					
Research & Technology Total	675,000	0.68	17%	0.70	18%	-4%	30%	1.20
Contracts (DLNR)	600,000		15%					
HISC Administrative Support	75,000		2%					
Public Outreach Total (DLNR)	248,465	0.25	6%	0.26	7%	-4%	5%	0.20
Staff	168,465		4%					
Outreach Projects	80,000		2%					
TOTAL	4,000,000	4.00	100%	4.00	100%	0%	100%	4.00

Hawaii Invasive Species Council - 08/18/05
Budget Approval Action Item

August 18, 2005

Chairpersons and Members
Hawaii Invasive Species Council
State of Hawaii

Council Members:

SUBJECT: Approval of Budget Request for the Hawaii Invasive Species Council (HISC)

The Administration's invasive species budget initiative calls for the expenditure of \$4,000,000 in state funds for State Fiscal Year 2005 to provide support for both the operations of the Hawaii Invasive Species Council (HISC) and its cooperating partners to develop, and implement a partnership of Federal, State, County, and private entities for a comprehensive state-wide invasive species prevention, detection and control program. State dollars will be matched (1:1) by non-state dollars or equivalent in-kind services making this an overall effort of at least \$8 million. Redistributing the percentages allocated to each budget area as compared to the budget proposed in the Interim State of Hawaii Strategic Plan for Invasive Species Prevention, Control, Research and Public Outreach builds on the lessons learned in the first year of the HISC budget initiative.

Although this budget request is under the Department of Land and Natural Resources, it includes and involves programs and projects through nine different departments, the four counties and federal and private partners. The funding will not replace any of the existing state, private, or federal funding, but will complement and expand on existing programs.

A preliminary detailed budget request is attached. The overall goals of the Administration's budget request for the Hawaii Invasive Species Council are to:

- Coordinate invasive species management and control programs for County, State, Federal and private sector entities by developing a structure for cooperators to work together to share resources and responsibilities to address specific invasive species issues;
- Increase inspection and other "prevention" capabilities to prevent high-risk invasive species and diseases (e.g. brown tree snake, West Nile Virus, etc.) from entry into the State, or to specific islands where they are not currently found;
- Accelerate the control of priority invasive species already present in the state (e.g. Miconia, coqui frogs, marine algae, etc.) by developing a more effective state-wide early detection and rapid response capability with the Island Invasive Species Committee and other response and control efforts;

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- Leverage increased involvement and expertise from private and academic sectors to assure that Hawaii has access to the most up-to-date, effective and efficient research and technology tools to combat invasive species; and
- Implement a coordinated statewide invasive species public outreach program with shared resources and responsibilities among cooperating entities.

The state funding is broken into four integrated components:

- 1) Building up **Prevention** capabilities (**38% of total funding**). Projects include:
 - a. \$755,000 to the Hawaii Department of Agriculture – Continuation of the port risk assessments, expansion of the Invicta Database and other tracking tools, and the hiring of assistants to increase the efficiency of the inspection process during the port risk assessments.
 - b. \$455,135 to the Hawaii Department of Health – Develop the capacity of the Department to prevent the establishment of West Nile Virus by providing supplies for the Vector Control branch and improving the capacity of the State Laboratory.
 - c. \$186,000 to the U.S. Department of Agriculture – Wildlife Services to expand on the feasibility study for certifying all outbound civilian cargo departing Guam and arriving in Hawaii as having been inspected for Brown Treesnakes.
 - d. \$120,400 to the Hawaii Department of Land and Natural Resources – To contract for a coordinator to reduce the risk invasive ant species such as the Red Imported Fire Ant establishing in Hawaii and to prevent the interisland spread of the Little Fire Ant, and to establish a contract to continue the screening of plants grown and used commercially in Hawaii via the locally developed Weed Risk Assessment.
- 2) Establishing **Response and Control** programs (**39% of total funding**) to conduct invasive species detection, response and control actions on the ground and in the water. Projects include:
 - a. \$300,000 to the Department of Land and Natural Resources – Division of Aquatic Resources supervised Aquatic Invasive Species Response Team.
 - b. \$1,260,000 to the Invasive Species Committees control efforts to provide early detection and rapid response to invasive species that threaten the economy and environment of Hawaii. The County distribution will be as follows:

Hawaii.....	\$403,200
Maui.....	\$302,400
City and County of Honolulu.....	\$277,200
Kauai.....	\$277,200
- 3) Enhance **Research and Applied Technology** funding (**17% of total funding**) for HISC support functions including the Plan Manager and to contract for research and technology application services via a matching grant program for critical

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projects such as biological control, more effective increased survey and detection efforts, master geographical information system and associated database management as well as developing and applying technology for improved efficiencies in invasive species prevention and control efforts; and

- 4) **Public Outreach Program (6% of total funding)** in cooperation with the public and private sector for visitors and residents to increase voluntary compliance of quarantine laws, avoid accidental introductions of invasive species, and establishing an effective pest hotline reporting system that delivers timely information to managers on the ground. Three new staff have been hired to carry out these tasks and a successful small grant program includes a broad array of organizations and community groups in addition to projects developed by staff.

Outreach staff and administrative support.....\$135,465
Outreach projects.....\$113,000

This budget request has been aligned with both the Hawaii Invasive Species Council Strategic Plan and the HISC working group structures to assure not only compatibility with existing efforts but also accountability with specific measures of effectiveness. Lead HISC members will administer specific program components and HISC working groups will assure funding specifications address priority statewide issues and fit into HISC members' and cooperating partners' operational programs.

RECOMMENDATION:

That the Hawaii Invasive Species Council support the Administration budget request as part of the State of Hawaii's Strategic Plan for Invasive Species Prevention, Control, Research, and Public Outreach.

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	Fiscal Year 2006 Budget			Fiscal Year 2005 Budget			Interim Plan Budget	
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Public Outreach Total (DLNR)	248,465	0.25	6%	0.26	7%	-4%	5%	0.20
Staff and Administration	135,465		3%					
Outreach Projects	113,000		3%					
TOTAL	4,000,000	4.00	100%	4.00	100%	0%	100%	4.00