

DAVID IGE
GOVERNOR OF HAWAII

JOSH GREEN
LIEUTENANT GOVERNOR



HAWAII INVASIVE SPECIES COUNCIL

1151 PUNCHBOWL ST, #325
HONOLULU, HAWAII 96813

VOTING MEMBERS

SUZANNE CASE
DEPARTMENT OF LAND & NATURAL
RESOURCES

PHYLLIS SHIMABUKURO-GEISER
DEPARTMENT OF AGRICULTURE

KEITH KAWAOKA D.Env
DEPARTMENT OF HEALTH

NICHOLAS COMERFORD, Ph.D.
UNIVERSITY OF HAWAII

MARY ALICE EVANS
DEPARTMENT OF BUSINESS, ECONOMIC
DEVELOPMENT & TOURISM

DAVID RODRIGUEZ
DEPARTMENT OF TRANSPORTATION

PUBLIC MEETING NOTICE

Hawaii Invasive Species Council

August 30, 1:00 PM

Hawaii Department of Land and Natural Resources, Board Room (Rm 132)
1151 Punchbowl St, Honolulu, HI, 96813

AGENDA

1. Call to order
2. Introductions
3. Approval of minutes from January 29, 2019 meeting
4. Submittal: Requesting approval of a recommended budget for Fiscal Year 2020
5. Presentation: Update on planning for new biocontrol research facilities
6. Presentation: Summary Hawaii Interagency Biosecurity Plan implementation progress and remaining needs requiring legislative approval
7. Presentation: Summary of 2020-2025 Joint Strategic Planning Process for HISC and the Coordinating Group on Alien Pest Species
8. Public Comments
9. Adjournment

The Council may go into Executive Session pursuant to Section 92-5(a) (4), Hawaii Revised Statutes, in order to consult with its attorney on questions and issues pertaining to the Council's powers, duties, privileges, immunities and liabilities.

Testimony may be provided in person or in writing, submitted electronically to Randal.T.Bartlett@hawaii.gov. To give Board members sufficient time to consider written testimony, please submit the testimony no later than 24 hours prior to the Board Meeting. Any late written testimony will be retained as a part of the record, but we cannot assure that Board members will receive it with sufficient time for review prior to decision-making.

Individuals requesting special accommodations (e.g., large print materials, sign-language interpreters) are asked to contact the staff below at least three days prior to the meeting.

For information, contact:

HISC Support staff: 1151 Punchbowl St, #325, Honolulu, HI 96813; Fax: 587-0160

Josh Atwood, Program Supervisor: 587-4154, Joshua.P.Atwood [at] hawaii.gov

Randy Bartlett, Interagency Coordinator: 870-6443, Randal.T.Bartlett [at] hawaii.gov

Leyla Kaufman, Mamalu Poepoe Project Coordinator: leyla [at] hawaii.edu

Chelsea Arnott, Planner: Chelsea.L.Arnott [at] hawaii.gov

Elizabeth Speith, 643pest.org Report Facilitator: speith [at] hawaii.edu

Meeting Notes

Hawaii Invasive Species Council
January 29, 2019, 10:00 a.m.
Hawaii Department of Land and Natural Resources
Board Room (Rm 132)
1151 Punchbowl St, Honolulu, HI, 96813

1. Call to Order: Jan 29, 2019, 10:04am: Suzanne Case, Co-Chair/DLNR
2. Introductions:
 - a. Co-Chair Suzanne Case: 1st order of business welcome to Denise Albano, Co-Chair/HDOA
 - i. Council Members: Suzanne Case/DLNR, Denise Albano/HDOA, Kelvin Sewake/UH, Leo Asuncion/DBEDT, David Rodriguez/HDOT (arr 10:15a), Grace Simmons/HDOH (arr 10:23a)
3. Approval of Last Meeting Minutes:
 - a. Motion to Approve: Kelvin Sewake/UH, 2nd: Leo Asuncion/DBEDT
4. Presentation: Summary of the January 2019 Hawaii Interagency Biosecurity Plan Progress Report: Josh Atwood/HISC
 - a. See powerpoint presentation hosted at hisc.hawaii.gov.
 - b. No discussion or questions from Council members.
5. Discussion of legislative goals related to biosecurity in the 2019 legislative session: Josh Atwood/HISC
 - a. See powerpoint presentation hosted at hisc.hawaii.gov.
 - b. Discussion:
 - i. Suzanne Case: In the past, have departments testified separately or as HISC?
 1. Josh Atwood: We've tried it both ways. In recent years the volume of invasive species bills has made it difficult to produce both HISC and DLNR testimony, so we've relied on DLNR testimony alone. Not sure that there is enough value added from doing HISC testimony as well, especially if they are being represented by the same person at a hearing.
 - ii. Denise Albano: How will HDOA testify? Separately or with HISC?
 1. Josh Atwood: Separately.
6. Presentation: Update on the federal Vessel Incidental Discharge Act and impacts to Hawaii's regulation of ballast water and biofouling: Christy Martin/CGAPS
 - a. See powerpoint presentation hosted at hisc.hawaii.gov.
 - b. Discussion:
 - i. Suzanne Case: Great step in the right direction. Really important to support this, moving forward.
 - ii. Grace Simmons: Is it 2 years or 4 years to address these issues with EPA?
 1. Christy Martin: 4 years
7. Presentation: Research and Technology Working Group position paper: "Understanding the Value of Glyphosate in Protecting Hawaii": Mike Melzer/UH w/Josh Atwood/HISC
 - a. Position paper is hosted at hisc.hawaii.gov.
 - b. Discussion:

- i. Suzanne Case: Should there be additional clarification on levels of risk vs. hazard?
 - 1. Mike Melzer: International Agency for Research on Cancer (IARC) measures hazard (yes or no for cancer, regardless of dose) vs EPA measurement of risk (with regard to dosage/exposure under label conditions).
 - ii. Suzanne Case: Looking at paragraph 3 of Resolution; perhaps wording should be changed to be clearer on the distinction between hazard and risk assessments?
 - iii. Denise Albano: EPA sets Best Practices regarding how the product should be used?
 - 1. Josh Atwood: Yes
- 8. Submittal: Requesting a resolution supporting the use of best available science in regulation of herbicides and recognizing the utility of glyphosate as a tool for invasive species control: Josh Atwood/HISC
 - a. Discussion:
 - i. Suzanne Case: I'm concerned that the wording doesn't explain the Hazard vs Risk better in paragraph 3 and 4.
 - 1. Josh Atwood: I would suggest the following wording in addition:
 - a. Paragraph 3: add "irrespective of dose" to the description of IARC hazard assessments
 - b. Paragraph 4: add "when used according to label" to the description of EPA risk assessment
 - ii. Suzanne Case: Any public testimony?
 - 1. None. Written testimony provided in support.
 - b. Motion to Approve as Amended:
 - i. Denise Albano: Motion to Approve Resolution as Amended. Kelvin Sewake: 2nd
- 9. Submittal: Requesting a resolution supporting the keeping of pet cats indoors and the use of peer-reviewed science in pursuing humane mitigation of the impacts of feral cats on wildlife and people: Josh Atwood/HISC
 - a. Discussion:
 - i. Grace Simmons: May I ask how effective the new Division of Boating and Ocean Recreation administrative rules re feral cats on state properties are?
 - 1. Suzanne Case: The rules were just signed into law in December, so it's too soon for any determination.
 - ii. Suzanne Case: Has there been any consideration in bills that would fund/institute trap neuter return on requiring HRS 343 compliance?
 - 1. Josh Atwood: No, not to my knowledge.
 - b. Motion to Approve: Denise Albano. 2nd: Kelvin Sewake
- 10. Public Comments: None
- 11. Adjournment at 11:00a

DAVID IGE
GOVERNOR OF HAWAII

JOSH GREEN
LIEUTENANT GOVERNOR



HAWAII INVASIVE SPECIES COUNCIL

1151 PUNCHBOWL ST, #325
HONOLULU, HAWAII 96813

VOTING MEMBERS

SUZANNE CASE
DEPARTMENT OF LAND & NATURAL
RESOURCES

PHYLLIS SHIMABUKURO-GEISER
HAWAII DEPARTMENT OF AGRICULTURE

KEITH KAWAOKA, D.Env
DEPARTMENT OF HEALTH

NICHOLAS COMERFORD, Ph.D.
UNIVERSITY OF HAWAII

MARY ALICE EVANS
OFFICE OF PLANNING, DEPARTMENT OF
BUSINESS, ECONOMIC DEVELOPMENT &
TOURISM

DAVID RODRIGUEZ
DEPARTMENT OF TRANSPORTATION

August 30, 2019

SUBMITTAL

TO: Co-chairs and Members
Hawaii Invasive Species Council
State of Hawaii

FROM: Justine Nihipali, Resources Working Group Chair, and
Joshua Atwood, Ph.D., Program Supervisor
Hawaii Invasive Species Council

SUBJECT: Requesting approval of a recommended budget for Fiscal Year 2020

Background

Since its inception in 2003, the Hawaii Invasive Species Council (HISC) has disbursed funding to support interagency invasive species projects that:

- Fill gaps between agency mandates or existing agency programs, and/or
- Advance our collective knowledge through research and development of new tools.

Funds are disbursed via an intra-governmental granting process wherein state, county, and federal offices may submit requests for funding and meet to collaboratively draft a recommended budget for HISC review.

For Fiscal Year 2020 (FY20), the legislature appropriated \$5,750,000 to the HISC via the biennium budget. This amount is subject to a 10% expenditure restriction by the Department of Budget and Finance, including a 5% “contingency” restriction that may be released at the end of the fiscal year (\$575,000, of which \$287,500 may be released as a contingency). The appropriation is also subject to a 6% overhead fee assessed by the Division of Forestry and Wildlife at the Department of Land and Natural Resources (DLNR), as the administrative host of the HISC (\$310,500 after the 10% restriction).

The amount of funding required for one year of core programs categorized as “HISC Support” is \$437,412. This supports two full-time temporary positions (HISC Planner and HISC Interagency Coordinator), one part-time Online Reporting Technician at 0.5 FTE, and intermittent support for programmers and administrators associated with online product development. HISC Support Program budget also provides associated travel, supplies, and other costs associated with administration of the HISC and its supported projects. This amount does not include the salary cost of the HISC Program Supervisor, which is provided through DLNR’s regular biennium budget. As of FY20, the HISC Support budget line also includes the Hawaii-Pacific Weed Risk Assessment, which employs one Weed Risk Assessor.

At the request of the Control Working Group chair, we are also proposing to set aside \$50,000 as match for federal funding being used to support planning of a new biological control research facility for the US Forest Service in Hilo. This is part of a joint State-Federal planning effort to provide regional biocontrol research capacity through complementary facilities managed by the Hawaii Department of Agriculture on Oahu and the US Forest Service in Hilo. This regional research capacity effort is part of Governor Ige's Biosecurity and Invasive Species Initiative under the Western Governors' Association.

The remaining balance of \$4,377,088 is available for interagency project grants. Because the Department of Budget and Finance did not release their expenditure restriction guidelines until well into August, the Resources Working Group prepared an initial budget recommendation totaling \$4,647,338. To accommodate the additional 5% contingency restriction (which, after DOFAW overhead, leaves \$270,250 less for interagency projects) we propose to account for this adjustment in the recommended awards of a small number of larger award recommendations, with the provision that funds would be reallocated to these projects if and when the Department of Budget and Finance releases the contingency restriction.

Discussion

The preparation of a recommended budget for the HISC was accomplished via the following process:

- A call for proposals was released in May, with applications due by close of business on June 21.
- As described in the proposal guidelines, applications must demonstrate applicability to funding priorities related to the Hawaii Interagency Biosecurity Plan. Guidance from additional planning documents, including the HISC Strategic Plan, HISC Resolutions, and the Regional Biosecurity Plan for Micronesia and Hawaii, was also utilized in developing these priorities.
- An evaluation committee comprised of working group chairs and other agency representatives assigned a quantitative score to each application based primarily on how well the application addressed the stated funding priorities. Applications also received points for interagency relevancy and the proportion of the overall project budget supported by non-HISC funds.
- On August 2 the Resources Working Group facilitated a meeting of the evaluation committee to discuss applications and develop a balanced recommended budget. This meeting was open to any interested parties.

Requests received for FY20 totaled \$8,476,286 across 50 applications. Thirteen applications were not recommended for funding. In most cases this was due to a lack of resources available rather than a lack of project merit. In some cases this was due to alternative funding being identified for the project. For the 37 applications remaining, the Resources Working Group recommended partial funding based on the amount requested, application merit (e.g., score), and the overall amount of available funding. Applicants were asked at the time of submission to indicate whether their projects were scalable, indicating that a partial award would be useful in contributing toward the overall project budget. Two applications addressed the same topic, the evaluation of automatically resetting mongoose traps, and a single award has been recommended for a collaborative project between the two applicants

In FY20 the legislature provided an additional \$1,000,000 in funding to the HISC for interagency projects. The budget worksheets for Act 5, SLH 2019 stipulate that this additional appropriation

should be used for the following purposes. The recommended budget proposed by the Resources Working Group meets or exceeds the amounts stipulated by Act 5:

- \$500,000 for the Invasive Species Committees Statewide
- \$61,200 for Maui Little Fire Ant Response
- \$83,000 for Maui Coqui Frog Containment
- \$255,800 for Biocontrol of 4 Invasive Plant Targets
- \$100,000 for Landscape Scale Mosquito Control Technology.

Individual recommendations for each application can be found in Attachment 1.

Legal Authority

- HRS 194-2 (a): Establishes the HISC for the purpose of cabinet-level coordination and planning among state departments, federal agencies, and international and local initiatives
- HRS 194-2 (a)(4): Directs the HISC to create and implement a plan for prevention, early detection, rapid response, control, enforcement, and education
- Act 5, SLH 2019: Provides \$5,750,000 in general funds to be disbursed by DLNR as directed by the HISC

Recommendations

1. That the HISC approve the FY20 budget for HISC support and an interagency project portfolio in substantially the same form as recommended by the Resources Working Group.
2. That, should the Department of Budget and Finance release any portion of the restriction on expenditures, the HISC delegate authority to the Program Supervisor to identify best uses of released funds.

Attachments:

- FY20 Budget Recommendations of the HISC Resources Working Group

Attachment 1: FY20 Budget Recommendations of the HISC Resources Working Group

Table 1: Projects Recommended for Funding

Rank	Project Title	Agency, Division	Request	RWG Rec
1	Hawaii Ant Lab core funds	UH, PCSU, Hawaii Ant Lab	\$311,439	\$276,302
2	Detection and Control of Invasive Species in Maui County	UH, PCSU, Maui & Molokai Invasive Species Committees	\$1,029,724	\$723,923
3	Coordinating Group on Alien Pest Species	UH, PCSU, Coordinating Group on Alien Pest Species	\$70,000	\$50,000
4	Public Engagement in Invasive Species Control on the Island of Hawaii	UH, PCSU, Big Island Invasive Species Committee	\$269,069	\$190,970
5	Early Detection, Control & Eradication for Priority Invasive Species on O'ahu	UH, PCSU, O'ahu Invasive Species Committee	\$900,979	\$623,330
6	Invasive Species Outreach and Education in Maui County	UH, PCSU, Maui & Molokai Invasive Species Committees	\$192,174	\$132,640
7	Early Detection and Rapid Response to Rapid Ohia Death on Hawaii Island	UH, PCSU, Big Island Invasive Species Committee	\$106,784	\$73,356
8	Public Outreach and Education on Kauai	UH, PCSU, Kauai Invasive Species Committee	\$165,170	\$113,285
9	Kauai Invasive Species Committee Early Detection and Control	UH, PCSU, Kauai Invasive Species Committee	\$792,171	\$579,500
10	Invasive Species Outreach on O'ahu	UH, PCSU, O'ahu Invasive Species Committee	\$167,873	\$107,279
11	Little Fire Ant Control Program for Maui	UH, PCSU, Maui & Molokai Invasive Species Committees	\$111,237	\$61,200
12	Detection and Control of Invasive Species on the Island of Hawaii.	UH, PCSU, Big Island Invasive Species Committee	\$699,483	\$493,000
13	Coqui Frog Control and Monitoring Program on Maui	UH, PCSU, Maui & Molokai Invasive Species Committees	\$220,658	\$83,000
14	Pest Response O'ahu	UH, PCSU, O'ahu Invasive Species Committee	\$198,035	\$108,317
15	The Hawaii Alien Plant Informatics Project: informing invasive plant management decisions with interconnected data	UH, PCSU	\$58,530	\$30,000
16	Landscape Scale Mosquito Control Project Coordination	DLNR Division of Forestry and Wildlife	\$30,500	\$24,274
17	Laying the groundwork for landscape-level mosquito suppression to protect endangered forest birds and human health from mosquito borne disease in Hawaii	DLNR Division of Forestry and Wildlife	\$198,996	\$92,646
18	Trap development and biological assessment of <i>Acalolepta aesthetica</i> (an invasive longhorn beetle attacking cacao)	USDA-ARS, Pacific Basin Agricultural Research Center	\$66,770	\$32,527
20	Hawaii Ballast Water and Biofouling	DLNR Division of Aquatic Resources	\$160,321	\$86,034

21	Increasing Awareness and Community Support for Albizia Related Projects on Oahu	UH, PCSU, Koolau Mountains Watershed Partnership	\$61,014	\$23,000
23	The Future Bee: Protection of Hawaii's bee stock from invasive Africanized honey bees	UH CTAHR	\$113,959	\$41,130
24	Regional Eradication is Feasible: Continuing Albizia Control in The Upper Waiawa Watershed	UH, PCSU, Koolau Mountains Watershed Partnership	\$57,671	\$19,000
26	Waipahoehoe Management Unit Feral Ungulate Removal	UH, PCSU, Mauna Kea Watershed Alliance	\$188,000	\$72,822
27	Biological control of invasive <i>Rubus</i> spp.	USDA Forest Service	\$62,413	\$31,000
28	Mongoose toxicant bait station development and evaluation	USDA APHIS WS National Wildlife Research Center	\$56,760	\$21,070
29	The Plants of Hawaii online species information system	Bishop Museum	\$223,284	\$66,025
32	Investigating a novel method to extirpate Hawaii's most prolific marine invasive, leather mudweed <i>Avrainvillea lacerata</i> .	UH, Department of Botany	\$264,645	\$45,000
34	Biocontrol of <i>Hedychium gardnerianum</i>	USDA Forest Service	\$35,409	\$9,159
36	Evaluating natural enemies of albizia as potential biocontrol agents	USDA Forest Service	\$280,000	\$180,000
37	Continued control of <i>Tibouchina herbacea</i> on O'ahu	UH, PCSU, Koolau Mountains Watershed Partnership	\$129,372	\$30,000
38/25	The efficiency of different trap types in controlling the small Indian mongoose (<i>Herpestes javanicus</i>) in Hawaii	DLNR, Division of Forestry and Wildlife and USDA National Wildlife Research Center	\$115,938	\$48,548
39	Wolbachia Outcrossing, Cytoplasmic Incompatibility Testing, and Colony Maintenance for Hawaii Lineage Ae. aegypti and Ae. albopictus Mosquitoes	HDOH, Environmental Health Services Division, Vector Control Branch	\$63,843	\$61,989
40	Biocontrol of invasive melastomes	USDA Forest Service	\$148,400	\$74,000
41	Detection and invasive potential of <i>Arcte coerula</i> (Lepidoptera, Noctuidae), a new potential pest of mamaki in Hawaii.	UH, CTAHR	\$45,793	\$15,535
42	Mosquito Rearing Technician	DLNR Division of Forestry and Wildlife	\$35,750	\$17,477
45	Cats are Heroes - Public Relations Campaign	DLNR Division of Forestry and Wildlife	\$74,200	\$10,000
	Total			\$4,647,338

Table 2: Projects Not Recommended for Funding

Rank	Project Title	Agency, Division	Request
19	RLW Education for Farmers and P-20 educators	West Oahu Soil and Water Conservation District	\$17,803

22	Assessment of incipient avian invasions in Hawaii	USDA APHIS WS National Wildlife Research Center	\$50,270
30	Mālama 'Āina- CRB Eradication Outreach & Education Project	HDOA, Plant Industry Division	\$154,494
31	Developing molecular tools to prevent the introduction of host specific biotypes of <i>Austropuccinia psidii</i>	Colorado State University, Bioagricultural Sciences and Pest Management	\$41,832
33	Management approach against lobate lac scale, an important invasive pest on ornamental and landscape plants, and its current distribution in Hawaii	UH CTAHR	\$44,145
35	Incompatible Insect Technique Outreach Video	DLNR Division of Forestry and Wildlife	\$11,000
43	Evaluating the efficacy of restoration treatments in habitats invaded by Strawberry Guava (<i>Psidium cattleianum</i>)	UH, Lyon Arboretum	\$137,916
44	Pathogen characterization and mitigation of banana Fusarium wilt disease in Hawaii	UH CTAHR	\$39,806
46	Himalayan Ginger Control on Puu Pili, Kohala	DLNR Division of Forestry and Wildlife	\$52,481
47	Scientifically-based Strategies and Action Plans for Eradication	UH PCSU	\$23,873
48	Oahu Offshore Islands Wildlife Sanctuary	DLNR Division of Forestry and Wildlife	\$71,500
49	Aiding the invasive species control effort through producing biochar from invasive species for agricultural uses	UH CTAHR	\$49,687
50	Bioeconomic Risk Assessment of Miconia in East Maui	UH CTAHR	\$75,114

As described above, the Department of Budget and Finance did not release their expenditure restriction guidelines regarding the additional 5% contingency restriction until after the Resources Working Group had prepared an initial budget recommendation. This additional restriction results in \$270,250 less for interagency projects, which may be restored at the end of FY20.

In the Resources Working Group evaluation process, applicants are categorized as “programs” or “projects” based on the amount of funding requested over multiple proposals. Programs are typically applicants requesting more than \$300,000 across multiple proposals. Projects are typically applicants requesting less than \$300,000. We propose to account for the additional contingency restriction in FY20 by adjusting awards going to programs, with the provision that funds would be reallocated to these programs if the Department of Budget and Finance releases the contingency restriction. Table 3 describes these adjustments at the programmatic level. HISC staff will work with applicants to deduct these amounts from one or more of the applicants’ individual project proposals described above.

Table 3: Adjustments to Program Funding to Accommodate the Contingency Restriction

Program	Program Request	RWG Rec	Contingency Restriction Adjustment	Difference
Biocontrol projects (USDA Forest Service)	\$441,665	\$294,159	\$274,562	\$19,597
Mosquitoes (DLNR Division of Forestry and Wildlife & UH PCSU)	\$357,789	\$196,386	\$183,303	\$13,083
Hawaii Ant Lab	\$311,439	\$276,302	\$257,895	\$18,407
Big Island Invasive Species Committee	\$1,075,336	\$757,326	\$706,873	\$50,452
Maui & Molokai Invasive Species Committees	\$1,553,793	\$1,000,763	\$934,093	\$66,670
Oahu Invasive Species Committee	\$1,266,887	\$838,926	\$783,038	\$55,888
Kauai Invasive Species Committee	\$957,341	\$692,785	\$646,632	\$46,153

Abbreviations

Departments: DLNR= Department of Land and Natural Resources; HDOA= Hawaii Department of Agriculture; UH= University of Hawaii; USDA= US Department of Agriculture; HDOH= Hawaii Department of Health

Divisions: PCSU= Pacific Cooperative Studies Unit; CTAHR= College of Tropical Agriculture and Human Resources; ARS= Agricultural Research Services