HAWAII INVASIVE SPECIES COUNCIL
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August 24, 2017

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 HISC's support program and interagency projects portfolio in Fiscal Year 2018

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 2018 (FY18), the legislature appropriated $4,750,000 to the HISC via the biennium budget. This amount is subject to a 10% expenditure restriction by the Department of Budget and Finance ($475,000) and 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 ($256,500).

The amount of funding requested to provide staff support to the HISC in FY17 is $272,447. 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. The HISC Support Program budget also provides associated travel, supplies, and other costs associated with administration of the HISC. This amount does not include the salary cost of the HISC Program Supervisor, which is provided through DLNR's regular biennium budget.

The remaining balance of $3,746,053 is available for interagency project grants.

Discussion

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

- A call for proposals was released on April 28, with applications due by close of business on June 9.
- 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 July 27 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 FY18 totaled $ $12,013,369 across 76 applications. Forty-five 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. For the thirty-four 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. No projects were awarded the full amount requested.

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)(3): Directs the HISC to identify and prioritize each lead agency's organizational and resource shortfalls with respect to invasive species
- 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 49, SLH 2017: Provides $4,750,000 in general funds to be disbursed by DLNR as directed by the HISC

Recommendations

1. That the HISC approve the FY18 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:

- FY18 Budget Recommendations of the HISC Resources Working Group

Attachment 1: FY18 Budget Recommendations of the HISC Resources Working Group

A) HISC Support Program Budget

Category	Detail	Cost
Salary & Fringe	Interagency Coordinator, Planner, Online Reporting Tech (.5 FTE), Programmers/admin for 643pest.org (intermittent)	$220,057
Supplies	Hardware, software	$3,000
Utilities	Server fees, phones	$1,200
Travel	For Program Supervisor, Int Coord, Planner, Reporting Tech	$5,000
Other	MISC admin for HBIN staff	$2,000
Other	HCA contribution	$1,000
Other	Mobile app development	$2,500
Other	Conference registrations, unforseen project costs	$2,000
PCSU and UH overhead	5% direct for PCSU, 10% indirect for UH	$35,690
Total		$272,447

B) Projects Recommended for Funding

Division	Applicant	Abbreviated Project Title	Request	Final Award
State of HI	Dept B&F	10% Expenditure Restriction	$475,000	$475,000
DLNR	DOFAW	6% Overhead	$256,500	$256,500
HISC	Support	HISC Support Program	$272,447	$272,447
Bishop Museum	Clyde Imada	Statewide Early Detection Botany Capacity	$98,000	$24,339
Bishop Museum	Norine Yeung	Distribution of Snails and Rat Lungworm Disease	$178,299	$58,415
UH CTAHR	James Leary	Herbicide Ballistic Technology developments	$265,394	$87,622
UH CTAHR	Mark Thorne	Spittlebug Detection and Control	$174,461	$50,000
UH CTAHR	Michael Melzer	CRB Control Method Research	$257,093	$100,000
UH CTAHR	Paul Krushelnycky	Hydrogel Ant Bait Research	$100,448	$45,305
UH CTAHR	Zhiqiang Cheng and Michael Melzer	CRB Biocontrol and Chemical Control Research	$42,907	$17,771
UH Geography & Env Sci	Ryan Perroy	Unmanned Aerial System Program Development	$223,795	$43,811
UH PCSU	Dr. David Duffy, Dr. Curtis Daehler, Kelsey Brock	Statewide Plant Prioritization Tool	$57,825	$31,961
UH PCSU	University of Hawai'i at Manoa's Pacific	West Maui HBT for Albizia and Mules Foot Fern	$30,204	$3,894

	Cooperative Studies Unit			
UH PCSU - DAR	Julie (Jules) Kuo	Ballast Water and Biofouling	$159,790	$88,596
UH PCSU BIISC	Springer Kaye	BIISC Early Detection	$303,685	$243,395
UH PCSU BIISC	Springer Kaye	BIISC Outreach	$197,233	$116,830
UH PCSU BIISC	Springer Kaye	BIISC Plant Control	$301,831	$195,945
UH PCSU BIISC	Springer Kaye	BIISC ROD Team	$232,910	$73,018
UH PCSU CGAPS	Christy Martin	Coordinating Group on Alien Pest Species	$104,594	$27,000
UH PCSU HAL	Casper Vanderwoude	Hawaii And Lab Development of Organic Treaments	$29,020	$14,845
UH PCSU HAL	Casper Vanderwoude	Hawaii Ant Lab Core Program	$297,160	$260,000
UH PCSU KISC	Tiffani Keanini	KISC Outreach Program	$149,073	$48,679
UH PCSU KISC	William Lucey	KISC Core Program	$1,036,105	$530,601
UH PCSU MISC	Adam Radford	MISC Core Program	$981,460	$569,544
UH PCSU MISC	Adam Radford	MISC Expansion of Little Fire Ant Response	$321,136	$48,679
UH PCSU MISC	Lissa Strohecker	MISC Outreach Program	$118,508	$87,622
UH PCSU OISC	Oahu Invasive Species Committee	OISC Core Program	$797,569	$550,072
UH PCSU OISC	Rachel Neville	OISC Outreach Program	$92,766	$73,018
UH PCSU WRA	Charles Chimera	Weed Risk Assessment	$106,381	$100,000
USDA NWRC	Chris Niebuhr, PhD	Research on Alternative Hosts of Rat Lungworm Disease	$146,269	$38,943
USDA NWRC	Shane Siers	Development of a Mongoose Control Method	$77,550	$32,204
USFS Biocontrol	Tracy Johnson	Albizia Biocontrol	$211,100	$115,000
USFS Biocontrol	Tracy Johnson	Melastome Biocontrol	$64,610	$30,000
USFS IPIF	Richard Flint Hughes	Rapid Ohia Death Monitoring	$157,500	$38,943

		Total		$4,750,000

C) Projects Not Recommended for Funding

Division	Applicant	Project Title	Request	Final Award
County of Hawaii	Diane Ley	Kohala coqui program	$58,916	0
UH CTAHR	Jenee Odani	Galliform pathogens	$67,066	0
DLNR DAR	Brian Neilson	Mangrove control	$300,000	0
DLNR DAR	Brian Neilson	*Salvinia* detection and control	$19,000	0
HDOA Apiary Program	Lauren Rusert	Africanized bee detection	$95,200	0
UH PCSU KMWP	Tracey Gotthardt	Tea tree detection and control	$62,946	0
UH PCSU LHWRP	Andrea Buckman	UAS on leeward Haleakala	$87,456	0
UH PCSU MISC	Adam Radford	MISC coqui contest	$65,065	0
UH PCSU MISC	Adam Radford	MISC coqui expansion	$548,819	0
New Zealand Department of Conservation	Peter Raal	Oil wand herbicide training	$30,000	0
UH PCSU OISC	Rachel Neville	Knight anole assessment	$11,554	0
UH Pacific Biosciences Research Center	Matthew Christopher Ikaika Medeiros	Multiparisitism and ratlungworm	$110,000	0
UH CTAHR	Curtis, Ewing	Insect dispersal and ROD	$65,110	0
UH CTAHR	Jared Bernard and Gordon Bennett	Dispersal patterns of ROD beetles	$48,180	0
UH CTAHR	Donna J Lee	Economic models	$82,415	0
UH PCSU BIISC	Springer Kaye	BIISC albizia plan	$42,000	0
UH PCSU BIISC	Springer Kaye	BIISC Biocontrol Outreach	$2,530	0
UH	Floyd Reed	*Albopictus* wolbacchia development	$162,694	0
UH COP	Susan Jarvi	Rat lungworm school garden mapping	$280,089	0
UH CTAHR	Yin-Phan Tsang	Freshwater invasives	$86,315	0
UH CTAHR	Zhiqiang Cheng and Michael Melzer	Oriental flower beetle research	$42,357	0
UH CTAHR	Daniel K. Owens	Guava allelopathy research	$70,400	0
UH COP	Susan Jarvi	Antihelmintic rat lungworm treatment	$141,574	0

UH CTAHR	Yin-Phan Tsang	Ala Wai catfish project	$213,511	0
UH CTAHR	Wade Heller	Identifying genetic resistance to ROD	$136,350	0
UH Department of Geography	Qi Chen	Nanosatellite ROD monitoring	$109,472	0
UH CTAHR	Helen Spafford	Mosquito distribution on Kauai, Lanai, Molokai	$77,000	0
UH CTAHR	Helen Spafford	Preparing for melastome biocontrol	$52,800	0
USDA ARS	Marc Hughes	UAS pre-symptomatic ROD detection	$83,600	0
USDA ARS	Marc Hughes	ROD wound dressing research	$27,500	0
UH West Oahu	Jason Levy	Albizia mapping	$99,453	0
UH CTAHR	Daniel Jenkins	Rat lungworm rapid detection kit	$51,797	0
UH CTAHR	Melissa Price	Mammal distribution models	$117,059	0
USFS IPIF	Kealohanuiopuna Kinney	Effect of albizia on ROD beetles	$181,500	0
USGS	Dennis LaPointe	*Aedes aegypti* survey on leeward Big Island	$83,589	0
USDA ARS	Robert Hollingsworth	LFA influencing factors	$104,500	0
USDA NWRC	Shane Siers	Testing new coqui treatments	$53,350	0
USDA ARS	Lisa Keith	ROD sanitation	$40,000	0
USFS Biocontrol	Tracy Johnson	*Myrica faya* biocontrol	$37,600	0
USFS Biocontrol	Tracy Johnson	Ginger biocontrol	$36,118	0
USFS Biocontrol	Tracy Johnson	*Rubus* biocontrol	$108,900	0
USDA ARS	Dong Cha	New attractants for LFA	$130,900	0
USDA ARS	Dong Cha	Chemical markers for ROD detection	$132,000	0
USDA NWRC	Aaron Shiels	Formal testing of goodnature traps	$118,708	0
USFS IPIF	R. Flint Hughes	Analyzing Carnegie data for ROD	$223,300	0

Abbreviations

Departments: DLNR= Department of Land and Natural Resources; HDOA= Hawaii Department of Agriculture; UH= University of Hawaii; USDA= US Department of Agriculture; USFS= US Forest Service; USGS= US Geological Survey;

Divisions: PCSU= Pacific Cooperative Studies Unit; MISC= Maui Invasive Species Committee; BIISC= Big Island Invasive Species Committee; OISC= O‘ahu Invasive Species Committee; WRA= Weed Risk Assessment; HAL= Hawaii Ant Lab; CGAPS= Coordinating Group on Alien Pest Species; KISC= Kaua‘i Invasive Species Committee; CTAHR= College of Tropical Agriculture and Human Resources; KMWP= Ko‘olau Mountain Watershed Partnership; LHWRP= Leeward Haleakalā Watershed Restoration Partnership; USFS= US Forest Service; DAR= Division of Aquatic Resources; COP= College of Pharmacy; CTAHR= College of Tropical Agriculture and Human Resources; IPIF= Institute for Pacific Islands Forestry; NWRC= National Wildlife Research Center; ARS= Agricultural Research Service
Projects: HBT= Herbicide Ballistic Technology; LFA= Little Fire Ant; ROD= Rapid ‘Ōhi‘a Death ; UAS= Unmanned Aerial System.