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January 17, 2016

### SUBMITTAL

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

FROM: Joshua Atwood, Program Supervisor  
Hawaii Invasive Species Council

SUBJECT: Requesting a resolution endorsing the Hawaii Interagency Biosecurity Plan and committing to implementation

### Background

In 2016 the Hawaii Department of Agriculture (HDOA) led a collaborative effort to create the Hawaii Interagency Biosecurity Plan (HIBP), a multi-sector analysis of biosecurity and invasive species program needs throughout Hawaii. The HIBP approaches the concept of biosecurity from a comprehensive perspective that includes pre-border, border, and post-border efforts to mitigate risks associated with invasive species. This plan was developed through consultation with multiple state, federal, and county agencies, workshops with industry partners, and public review. The resulting document is a 10-year roadmap for strengthening Hawaii's interagency biosecurity system through infrastructure and technology developments, adequate increases in human capacity and fiscal resources, policy amendments, and changes in workflow processes to make our efforts more efficient.

### Discussion

On December 4, 2015, the Hawaii Invasive Species Council (HISC) adopted Resolution 15-1, *Supporting the Hawaii Department of Agriculture's 2016 Interagency Biosecurity Planning Initiative and Committing Agency Engagement*. Following adoption of this resolution, staff at HISC agencies were invited to participate in two workshops focusing on regulatory policies and the relationship of government to private industry. HISC agencies were also asked to review early drafts of the plan and prioritize recommended action items. The final plan includes 147 action items, each assigned to one or more lead agencies for implementation, along with agencies listed as partners from which support will be required for implementation. Among the six HISC agencies, these action items are distributed as follows:

Agency	Items for which the agency is listed as the lead or co-lead	Items for which the agency is listed as a partner
HDOA	96	31
Department of Land and Natural Resources (DLNR)	48	59

University of Hawaii (UH)	9	51
Department of Health (DOH)	7	48
Department of Transportation (DOT)	0	40
Department of Business, Economic Development, and Tourism (DBEDT), or its attached agency the Hawaii Tourism Authority (HTA)	0	6
HISC	4	22

As the successful implementation of the HIBP will rely heavily on the actions and support of the HISC and its constituent agencies, this submittal requests that the HISC formally endorse the HIBP as the State's guiding strategy for biosecurity and invasive species efforts, and commit generally to facilitating timely implementation of action items wherever possible.

The prioritization process utilized during plan develop has allowed agencies to identify which of the action items in the plan are most critical to developing an effective biosecurity system. The action items in the plan are also time-specific, noting that some items are ready to begin implementation in 2017, while other items may need to be implemented in the later years of the plan.

Attachment 1 includes the HIBP action items for which:

1. HISC agencies are designated as lead agencies for implementation,
2. The action item is designated as Priority 1, indicating that it is critical for developing an effective biosecurity system, and
3. The timeline for implementation begins in 2017 or 2018.

This submittal recommends that the HISC commit to pursuing, at a minimum, initiating implementation of the highest priority action items designated for action in the first biennium of the plan (2017-2018).

#### Legal Authority

- HRS 194-2 authorizes the HISC to advise and coordinate invasive species-related efforts with and between state, federal, international, and private programs.

#### Recommendations

That the Hawaii Invasive Species Council (HISC) adopt a resolution, in substantially the same form as attached to this submittal, that:

1. Endorses the Hawaii Interagency Biosecurity Plan as the State's guiding strategy for biosecurity and invasive species efforts over the next decade (2017-2027),
2. Commits generally to facilitating timely implementation of the HIBP action items, and
3. Commits specifically to initiate implementation of the highest priority action items for which HISC agencies are designated as the lead and for which the implementation timeline begins in the first biennium of the plan (2017-2018).

#### Attachments

1. Near-term (2017-2018), Priority 1 Action Items of the Hawaii Interagency Biosecurity Plan for HISC Agencies
2. Draft HISC Resolution 17-1: Endorsing the Hawaii Interagency Biosecurity Plan and Committing to Implementation

## Attachment 1: Near-term (2017-2018), Priority 1 Recommendations of the Hawaii Interagency Biosecurity Plan for HISC Agencies

The items below summarize related tasks from the Hawaii Interagency Biosecurity Plan (HIBP) to facilitate review by the HISC. For full details (e.g., partner agencies, budget costs and details) relating to an individual action, refer to the Hawaii Interagency Biosecurity Plan (HIBP) using the "Task #" criterion.

### Hawaii Department of Agriculture:

Summary of Implementation Actions	Relevant HIBP Tasks	Timeline
Amend HRS §150A-5 to enable HDOA to screen and inspect nonagricultural commodities	PrePol1.1	2017–2019
Make necessary statutory and rule amendments to implement a comprehensive emanifest system. Implement the system no later than January 1, 2020.	PrePol1.2, PrePro1.1	2017–2019
Implement a state-of-the-art biosecurity database system to record emanifest actions, input from risk assessments and survey data. Hire four data management specialists to support this system.	PrePro1.4, PreTifs2.3	2017–2025
Conduct risk analyses of terrestrial plants, pests, diseases, commodities, and pathways to prioritize screening and inspections. Hire three entomologists, two plant pathologists, and two botanists to support this work.	PrePro1.2, PreTifs2.2	2018–2027
Propose legislation to enable HDOA oversight of third-party transitional facilities for freight inspection and quarantine. Write minimum specifications and operational protocols that would constitute HDOA’s certification program for operating transitional facilities in Hawaii. Enter into public-private partnerships to operate these facilities.	BorPol1.1, BorPol1.2, BorPro1.2, BorPro1.3	2017–2019
Implement inspections by state detector dogs	BorPro1.1	2017–2027
Develop a comprehensive approach to minimize the interisland movement of plant pathogen and pests (e.g., amend and update HAR Chapter 4-72 for stricter regulation of interisland movement of pests and pathogens, enter into compliance agreements, or develop an interisland nursery certification program).	PosPol1.3	2018–2020
Build new office complex to house the PPC Branch, including new biocontrol facilities and chemical/mechanical pest control facilities.	PosTifs2.1	2018–2027
Restructure the HISC as the Hawaii Invasive Species Authority (HISA), an autonomous interagency body to manage and administer biosecurity programs. Fund the HISA's operations and an annual grant program for interagency projects	PosPol2.1, PosTifs1.1	2017–2019
Propose legislation to create a biosecurity emergency response fund to support multiagency emergency responses and allocate money on an annual basis to this fund.	BorPol1.3, BorTifs1.4	2018–2019
Hire/contract policy analysts to write necessary rules and regulations listed in this plan. Hire a natural resource economist to analyze the costs of inaction on high-profile biosecurity threats.	PreTifs2.1, PwsTifs1.2	2018–2027
Enter MOAs with DOD to allow for the inspection and clearance of military vessels and related cargo as necessary	PrePro3.2	2018–2027
Increase Animal Industry staff by 15 new positions and operating funds to implement an expanded livestock disease detection monitoring program.	BorTifs1.2	2018–2027
Align the notifiable disease list with internationally and nationally recognized lists of existing threats to domestic livestock (terrestrial and aquatic).	PrePol3.3	2017–2020
Create working group to develop effective solutions that address carcass disposal, including carcasses of marine animals.	PosPro3.2	2018–2027

### Department of Land and Natural Resources:

Summary of Implementation Actions	Relevant HIBP Tasks	Timeline
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Amend HAR 13-76 to make it consistent with USCG ballast water regulations, including minimum ballast water discharge standards	PrePol1.6	2017–2021
Conduct risk assessments for hull fouling, ballast water, aquaculture, and aquarium issues. Hire/contract two biologists to support this effort. Use molecular techniques to identify sampled organisms and build an eDNA database of established species.	PrePro1.7, PreTifs2.5, BorTifs3.4	2017–2027
Propose legislation to authorize DLNR to inspect vessels and regulate hull-fouling threats, with penalty provisions for noncompliance. Hire/contract four biologists and one technician to support this work. Create a database to house data from inspections and inform risk assessments. Provide necessary equipment for inspections and one data management specialist to support this effort.	BorPol1.6, BorPro2.3, BorTifs3.1, BorTifs3.2, BorTifs3.3, PwsTifs1.5	2018–2019
Write protocols for statewide field response to inspect, isolate, and appropriately dispose of unexpected arrivals of high-risk AIS, such as materials transported by a tsunami	PosPro4.1	2017–2018
Provide training and logistical support (e.g., boats, personal protective equipment) to local community organizations to effectively control and eradicate established aquatic pests.	PosPro4.7	2018–2027
Increasing base funding of competitive grants for Watershed Partnerships from the current \$2 million per year to \$6 million per year.	PosPro3.3	2018–2027
Hire four forest health specialists and one forestry pathologist to conduct monitoring, detection, and control for high-risk pests and pathogens in forest	PosTifs1.8	2018–2027
Hire 9 invasive species technicians per biennium (45 total by 2027) to detect, monitor, remove, and control invasive species in DOFAW’s protected areas.	PosTifs1.10	2018–2027

University of Hawaii:

Implementation Tasks	Relevant HIBP Tasks	Timeline
Hire four agricultural extension agents to facilitate areawide control of pests on farms, nurseries, and ranches. Support collaborative efforts to control those targeted pests on farms and in the surrounding areas.	PosTifs1.12	2018–2027
Hire two aquaculture extension agents, one extension specialist, and one researcher to conduct research, develop screening and quarantine protocols, develop pest management strategies, and conduct outreach specific to Hawaii.	PosTifs1.13	2018–2027
Hire four agricultural diagnosticians to provide for rapid screening, diagnostic testing, and identification of insects and diseases	PosTifs1.14	2018–2027
Hire a communications specialist, videographer, and web developer from CTAHR Office of Communications Services to write, develop and disseminate new statewide comprehensive education and outreach materials targeted at specific audiences, such as the native Hawaiian community, tourists, boaters, nursery growers, livestock producers, and farmers.	PwsTifs1.6	2018–2027

Department of Health:

Implementation Tasks	Relevant HIBP Tasks	Timeline
Increase staffing and operating funds for the DOH Vector Control Branch by adding 13 new staff members (total 33: current 20 in FY2017 plus 13 new positions) to be able to detect and respond to threats from disease vectors such as mosquitoes and diseases such as dengue, Zika, and rat lungworm.	BorTifs1.5	2019–2027

Shared Lead:

Implementation Tasks	Relevant HIBP Tasks	Timeline
Write and adopt best management practices to control invasive species that state government agencies, counties, industry, and private individuals can follow or require for actions on their lands.	PosPro1.6	2018–2027



**Attachment 2: Draft HISC Resolution 17-1: Endorsing the Hawaii Interagency Biosecurity Plan and Committing to Implementation**

**DRAFT RESOLUTION 17-1**

**ENDORSING THE HAWAII INTERAGENCY BIOSECURITY PLAN AND COMMITTING TO IMPLEMENTATION**

WHEREAS, the Hawaii Department of Agriculture has developed the Hawaii Interagency Biosecurity Plan (2017-2027) in collaboration with other state, county, and federal agencies, as well as industry stakeholders and the public; and

WHEREAS, the Hawaii Interagency Biosecurity Plan describes 147 action items that will strengthen Hawaii's biosecurity system and mitigate risks associated with invasive species; and

WHEREAS, the Hawaii Invasive Species Council is authorized by Hawaii Revised Statutes, Chapter 194-2, to advise and coordinate invasive species-related efforts with and between state, federal, international, and private programs; and

WHEREAS, the implementation of the Hawaii Interagency Biosecurity Plan requires the Hawaii Invasive Species Council and its constituent agencies to take certain actions that contribute toward full and timely implementation of the plan; now, therefore

BE IT RESOLVED that the Hawaii Invasive Species Council endorses the Hawaii Interagency Biosecurity Plan as the guiding strategy of the State of Hawaii for the development of an effective, interagency biosecurity system; and

BE IT FURTHER RESOLVED that the Hawaii Invasive Species Council commits generally to facilitating the timely implementation of the Hawaii Interagency Biosecurity Plan; and

BE IT FURTHER RESOLVED that the members of the Hawaii Invasive Species Council commit specifically to, at a minimum, initiating implementation of the highest priority action items identified in the Hawaii Interagency Biosecurity Plan for the first biennium addressed by the plan (2017-2018); and

BE IT FURTHER RESOLVED that certified copies of this Resolution be transmitted to the Governor of Hawaii, the President of the State Senate, the Speaker of the State House of Representatives, and to the directors or chairpersons of each HISC agency.

Adopted by the Hawaii Invasive Species Council on the following date: January 17, 2017

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Suzanne D. Case, Department of Land & Natural Resources

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Scott Enright, Department of Agriculture

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Keith Kawaoka, Department of Health

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David Rodriguez, Department of Transportation

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Leo Asuncion, Office of Planning, Department  
of Business, Economic Development, and  
Tourism

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Rachel Novotny, Ph.D., University of Hawaii