

KEY: Pol=policy; Pro=Process or program; Tifs=Technology, Infrastructure, Funding, or Staffing

HIBP Task #	Review and Updates	Lead Agency	JANUARY 2024 status	Subcategory	January 2023 status
PrePol1.1	Propose for enactment the necessary legislative amendments to HRS §150A-5 (and other related sections) to enable HDOA to screen and inspect nonagricultural commodities and amend or promulgate corresponding administrative rules, as needed.	HDOA PI	Not Started	Not Started	Leg items: Introduced at legislature, denied
PrePol1.2	Propose for enactment the necessary legislative amendments (e.g., an amendment to the list of commodities regulated by statute, as proposed in Prepol2.1), and promulgate administrative rules in accordance with HRS §§ 150A-9 and -53 to implement a comprehensive emanifest system. Examples include redefine “inspect” to include electronic release, authorize HDOA to prescreen and release commodities electronically, and require manifests to indicate whether the goods are of foreign or domestic origin and the port of origin.	HDOA PI	Not Started	Not Started	Leg items: not yet introduced
PrePol1.3	Amend HAR Chapter 4-70 to enable HDOA to require importers to treat/fumigate commodities identified by HDOA as a high biosecurity risk. Use fumigation of coffee imports as a successful model system.	HDOA PI	Progress Stalled	No additional progress in 5 years or more	Working toward eventual completion (In progress)
PrePol1.4	Require declaration of high-risk packaging materials in shipments to Hawaii regardless of commodity.	HDOA PI	Not Started	Not Started	Not yet started
PrePol1.5	Amend HAR Chapter 4-70 to update quarantine requirements for tissue-cultured plants. Certified tissue-cultured plants indexed for targeted pests and pathogens by a qualified lab independent of the exporter and imported in sealed vials and in sterile media should not be quarantined as long as these plants are of species, subspecies, variety, or type that can otherwise be permitted for importation.	HDOA PI	In Progress	Slight Progress	Working toward eventual completion (In progress)
PrePol1.6	Submit legislation to mirror EPA and Coast Guard final discharge regulations, including those related to hull fouling, under the 2018 VIDA.(Combined BorPol 1.6)	DLNR DAR: BW/BF	In Progress	Some Progress	Working toward eventual completion (In progress)

PrePol1.7	Obtain an MOA between the Office of the Governor of Hawaii, DOD, and other federal quarantine and regulatory agencies to require that military vessels (including those participating in Rim of the Pacific Exercise) entering Hawaii meet state standards regarding ballast water treatment and hull cleaning.	DLNR DAR: BW/BF	No longer relevant	Needs to be removed	Not yet started
PrePol1.8	Evaluate conditionally approved/restricted to identify which species should be shifted to prohibited via petition.	DLNR DAR: AIS	Not Started	Not Started	Ongoing (use for perpetual actions with no "completion" date)
PrePol2.1	Enter into cooperative agreements with other state departments of agriculture or with private industries to establish offshore screening programs (similar to HDOA's current Christmas tree screening program in Oregon) for high-risk commodities being shipped to Hawaii.	HDOA PI	Progress Stalled	No additional progress in 5 years or more	Ongoing (use for perpetual actions with no "completion" date)
PrePol2.2	Amend HRS Chapter 4-70 to require phytosanitary certificates for high-risk plant materials imported from domestic sources, and identify needed federal actions or enter into cooperative agreements to obtain phytosanitary certificates for imports of high-risk plant materials from foreign sources (also see PrePol1.1).	HDOA PI	Progress Stalled	No additional progress in 5 years or more	Working toward eventual completion (In progress)
PrePol3.1	Conduct analysis of international and federal laws and regulations that currently preclude the state from taking effective action to prevent the introduction of invasive species to Hawaii, and list amendments and recommendations to better protect Hawaii (also see PreTifs2.1).	HDOA PI	In Progress	Some Progress	Not yet started
PrePol3.2	Consult with the California and Florida Departments of Agriculture regarding what state and federal laws, regulations, and policies have been enacted to give them special protection at the state level, and produce recommendations to enact comparable protection for Hawaii.	HDOA PI	Not Started	Not Started	Not yet started
PrePol3.3	Align the notifiable disease list with internationally and nationally recognized lists of existing threats to domestic livestock (terrestrial and aquatic).	HDOA AI	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)

PrePro1.1	Implement a comprehensive manifest system that is effective no later than January 1, 2020. The system must be able to collect relevant nonproprietary information, authorize HDOA to prescreen and release commodities electronically, require manifests to indicate whether the goods are of foreign or domestic origin, identify port of origin, and be implementable on a trial basis between 2017 and 2019 to identify the need for any improvements. (Also see PrePol1.2)	HDOA PI	Complete	Working towards completion	Working toward eventual completion (In progress)
PrePro1.2	Goal is to create similar group within PPBC to look at pests and assess risk. Expanding the survey risk program.	HDOA PI	In Progress	Some Progress	Working toward eventual completion (In progress)
PrePro1.3	Based on the results of the risk analyses, annually write/update import requirements for high-risk commodities imported to Hawaii.	HDOA PI	In Progress	Slight Progress	Working toward eventual completion (In progress)
PrePro1.4	Implement a state-of-the-art biosecurity database system within HDOA to meet important functions.	HDOA PI	Complete	Working towards completion	Working toward eventual completion (In progress)
PrePro1.5	Develop regular lines of communication between state and federal regulatory agencies and the industry that facilitate sharing relevant biosecurity information and also ensure proper handling of proprietary or confidential information.	HDOA PI	Complete	Working towards completion	Working toward eventual completion (In progress)
PrePro1.6	Conduct an annual policy review of animal disease import regulations to identify new threats and ensure that adequate biosecurity measures are taken.	HDOA AI	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PrePro1.7	Conduct risk assessments for hull fouling, ballast water, aquaculture, and aquarium issues to better inform regulation of AIS organisms being introduced via these pathways and affecting native habitats.	DLNR DAR: BW/BF	In Progress	Some Progress	Ongoing (use for perpetual actions with no "completion" date)
PrePro2.1	Consult with industry to substitute importation of plants that pose high-risk pathway for introduction of new pests and pathogens with plants that can be grown locally.	HDOA PI	In Progress	Some Progress	Not yet started
PrePro2.2	Consult with industry representatives and end users of the aquaculture, wetland agriculture, and aquarium industries to identify high-risk pathways and standards for facilities and institute self-policing practices to minimize AIS threats.	DLNR DAR: AIS	In Progress	Some Progress	Ongoing (use for perpetual actions with no "completion" date)

PrePro3.1	Enter cooperative agreements with ecommerce industries (e.g., online plant nurseries, pet stores) to include language on their websites about what is not allowed to be imported or shipped to Hawaii, and compel them to follow existing import regulations.	HDOA PI	In Progress	Some Progress	Dept needs to re-evaluate and amend this action item
PrePro3.2	Enhance biosecurity efforts for DoD vessels and related cargo and equipment entering Hawaii. Identify and close gaps in policy, process, and procedures to prevent inadvertent introduction of invasive species via household goods, equipment and other materials transported by DOD's units and contractors.	HDOA PI	In Progress	Some Progress	Ongoing (use for perpetual actions with no "completion" date)
PrePro3.3	In collaboration with other state and federal regulatory agencies, establish an intelligence unit with the purpose of identifying and preventing illegal introductions (including ecommerce) to Hawaii.	HDOA PI	In Progress	Some Progress	Not yet started
PrePro4.1	Write Hawaii-specific standards and protocols for use in compliance agreements for offshore prescreening of agricultural and nonagricultural commodities en route to Hawaii.	HDOA PI	Progress Stalled	No additional progress in 5 years or more	Working toward eventual completion (In progress)
PrePro4.2	Enter into cooperative agreements or contracts with private industry to conduct inspections at transitional facilities at offshore sites for high-risk import commodities.	HDOA PI	Progress Stalled	No additional progress in 5 years or more	Not yet started
PreTifs1.1	Fund biosecurity database that includes e-manifest.	HDOA PI	In Progress	Significant Progress	Leg items: Introduced at legislature, approved Leg items: Introduced at legislature, approved
PreTifs1.3	Fund equipment, licensing, and employee training on data systems that will record the movement of livestock animals and hold prearrival testing results. The data are aligned with existing federal databases to track movement and animal identification for disease trace-back.	HDOA AI	In Progress	Significant Progress	Leg items: not yet introduced
PreTifs2.1	Hire policy analysts or appropriate contractors to conduct international, federal, and state policy analysis and provide recommendations on policy updates/needs.	HDOA PI	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)

PreTifs2.2	Hire specialist positions at HDOA to conduct risk analysis pathways and commodities entering Hawaii.	HDOA PI	In Progress	Significant Progress	Leg items: Introduced at legislature, partially approved
PreTifs2.3	Hire data management specialist to support biosecurity database.	HDOA PI	In Progress	Significant Progress	Leg items: Introduced at legislature, partially approved
PreTifs2.4	Fund an annual import substitution program to encourage Hawaii growers to identify and grow food and nonfood alternative products to phase out imports of high-risk pathway food/commodities by 2027.	HDOA PI	In Progress	Some Progress	Leg items: Introduced at legislature, partially approved
PreTifs2.5	Hire positions to conduct and address risk from aquatic vessels, pathways, and organisms and trade in Hawaii.	DLNR DAR: BW/BF	In Progress	Some Progress	Leg items: Introduced at legislature, partially approved
BorPol1.1	Propose for enactment appropriate legislation (through HRS Chapter 150A) to enable HDOA oversight and establishment of transitional facilities in Hawaii for freight inspection and quarantine.	HDOA PI	Not Started	Not Started	Leg items: Introduced at legislature, approved
BorPol1.2	Propose for enactment appropriate legislation (through HRS Chapter 150A) to enable HDOA to require the importer to transport shipped commodities that HDOA determines to be of high risk to state-designated inspection facilities.	HDOA PI	Not Started	Not Started	Leg items: Introduced at legislature, partially approved
BorTifs1.4	Allocate money on a yearly basis to a biosecurity emergency response fund to support multiagency terrestrial and aquatic emergency responses at or beyond (postborder) ports (Combined BorPol1.3,	HISC/HDOA	In Progress	Some Progress	Leg items: Introduced at legislature, denied leg items: introduced at legislature, denied
BorPol1.4	Propose for enactment legislation to move enforcement of HDOA's importation statutes and regulations under the Hawaii Environmental Court by amending HRS § 604A-2 to include civil fines for violations of HRS Chapter 150A within the Environmental Court's jurisdiction.	HDOA PI	Not Started	Not Started	Leg items: not yet introduced
BorPol1.5	Amend the current penalty section in HRS §142-12, relating to violations of AI Division Quarantine Rules, to authorize issuance of administrative citations for minor violations such as failure to file written or verbal reports in prescribed time, or failure to provide nonconsequential information on shipping and import forms.	HDOA AI	No longer relevant	Needs to be removed	Dept needs to re-evaluate and amend this action item

BorPol2.1	Amend HRS 141-3 to provide HDOA the flexibility to not have to cover the costs associated with the control of noxious weeds and update the state's noxious weed list and noxious weed seed list as outlined and/or required in HAR Chapter 4-68 and HAR Chapter 4-67, respectively, to include invasive plant species harmful to Hawaii's agriculture and natural systems.	HDOA PI	Not Started	Not Started	Leg items: not yet introduced
BorPol2.2	Promulgate administrative rules, as required under HRS § 150A-6.1, to add species to the restricted plant list, and regulate or prohibit the introduction, sale, distribution, and propagation of specific plants put on the restricted plant list.	HDOA PI	Progress Stalled	No additional progress in 5 years or more	Working toward eventual completion (In progress)
BorPol2.3	Update HAR Chapter 13-124 to add aquatic species to the state's injurious wildlife list.	DLNR DOFAW	In Progress	Some Progress	Not yet started
BorPro1.1	Implement inspections by state detector dogs to intercept high-risk species difficult to detect by other methods of inspection or at ports of entry difficult to inspect with other methods (see also BorTifs1.3).	HDOA PI	In Progress	Some Progress	Ongoing (use for perpetual actions with no "completion" date)
BorPro1.2	Write a set of minimum standards, specifications, and operational protocols that would constitute HDOA's certification program for operating transitional facilities in Hawaii. For example, secure facilities with appropriate mechanisms, such as fences, double doors, and negative pressure, to contain any pests encountered; appropriate processes executed when pests are found; and appropriate equipment based on the type of goods being inspected, such as air conditioning and refrigerators for perishable goods. Work with industry on specifications and operational protocols.	HDOA PI	Not Started	Not Started	Working toward eventual completion (In progress)
BorPro1.3	Enter into public-private partnership (e.g., contracts, cooperative agreements) to operate transitional facilities for freight and commodity inspections in Hawaii under HDOA's transitional facility certification program (see also BorPro1.2).	HDOA PI	Not Started	Not Started	Working toward eventual completion (In progress)

BorPro1.4	Develop regular lines of communication between state and federal regulatory agencies. to facilitate communication relative to border processes, such as inspection and detection. Develop more protective state policies and rules and seek complementary federal policies and rules to protect Hawaii from the introduction of new pest threats.	HDOA PI	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
BorPro1.5	Provide training for state and federal inspectors on identification of emerging pests and diseases, as well as on new detection and screening methods for pests and disease.	HDOA PI	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
BorPro1.6	Run monitoring programs at major ports, harbors, and post offices for high-risk pests not known to occur in Hawaii.	HDOA PI	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
BorPro1.7	Administer the livestock disease detection monitoring program focused on contagious animal diseases of high consequence and exotic parasites (and increase staffing and operations to include new port locations; see BorTifs1.3).	HDOA AI	In Progress	Some Progress	Working toward eventual completion (In progress)
BorPro2.1	Create standard operating procedures, protocols, and ballast water reporting forms to regulate ballast water management and treatment specific for Hawaii. Develop compliance assessments and protocols to collect ballast water samples.	DLNR DAR: BW/BF	Complete	Working towards completion	
BorPro2.2	Work with the USCG to create standard operating procedures for vessel biofouling inspections under the VIDA coenforcement program. Implement USCG biofouling compliance assessments or work with the USCG to create assessments for Hawai'i.	DLNR DAR: BW/BF	Complete	Working towards completion	Working toward eventual completion (In progress)
BorPro2.3	Work with the USCG to create standard operating procedures for vessel biofouling inspections under the VIDA coenforcement program. Implement USCG biofouling compliance assessments or work with the USCG to create assessments for Hawai'i.	DLNR DAR: BW/BF	Complete	Working towards completion	Working toward eventual completion (In progress)
BorPro2.4	Test and apply new methods and technologies for ballast water and hull biofouling monitoring, treatment, and compliance monitoring and assessment, including in-water cleaning and treatment methods relative to their application in Hawaii.	DLNR DAR: BW/BF	In Progress	Significant Progress	Ongoing (use for perpetual actions with no "completion" date)

BorPro2.5	Write best ballast water and hull husbandry practices and proactive ballast water and hull cleaning standards for all nonmilitary vessels to minimize movement of AIS into Hawaii's ports, harbors, and marinas. Distribute outreach materials on these practices and standards to commercial and recreational vessel operators.	DLNR DAR: BW/BF	Complete	Working towards completion	Ongoing (use for perpetual actions with no "completion" date)
BorPro2.6	Before VIDA is enacted, enter into MOUs or cooperative agreements with partner agencies and port authorities to implement effective VIDA coenforcement practices.	DLNR DAR: BW/BF	In Progress	Some Progress	Working toward eventual completion (In progress)
BorPro3.1	Coordiante multi-agency rapid responses to new aquatic and terrestrial pests or disease incursions both at and beyond (postborder) ports of entry and emergency response plans (see also BorPro3.1). Encourage federal, state, and county agencies to develop their own emergency response plan (Combined BorPro3.1, PosPro1.3)	HISC/HDOA	In Progress	Slight Progress	Not yet started
					Ongoing (use for perpetual actions with no "completion" date)
					Ongoing (use for perpetual actions with no "completion" date)
BorPro3.3	Write species-specific response plans for high-risk/priority pests that detail the roles of relevant agencies and stakeholders and emergency response plans (see also BorPro3.1). Encourage federal, state, and county agencies to develop their own emergency response plan. Review plans annually.	HISC	In Progress	Some Progress	Ongoing (use for perpetual actions with no "completion" date)
BorPro3.4	Write general and taxa-specific (e.g., insects, plants, fish), rapid-response strategies that can be implemented immediately in response to an emergency involving multiple agencies and private industries.	HISC	No longer relevant	Needs to be removed	Ongoing (use for perpetual actions with no "completion" date)
BorPro3.5	Write plans to respond to livestock diseases or exotic parasites. Review plans annually to ensure alignment with existing policies and USDA response plans.	HDOA AI	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
BorPro3.6	Delete - under VIDA this authority will be transferred to NPDES	DLNR DAR: BW/BF	No longer relevant	Needs to be removed	Working toward eventual completion (In progress)
BorTifs1.1	Double HDOA's current PQ staff from 91 to 182 over the 10-year period of the plan to meet current and future needs for inspection services at all ports of entry. Adjust pay scales commensurate with all positions, increasing responsibilities, and duties.	HDOA PI	In Progress	Significant Progress	Leg items: not yet introduced

BorTifs1.2	Increase AI staff and resources by adding 15 new positions and operating funds to implement an expanded livestock disease detection monitoring program focused on contagious animal diseases of high consequence and exotic parasites at five ports.	HDOA AI	In Progress	Significant Progress	Leg items: Introduced at legislature, partially approved
BorTifs1.3	Enhance the use of detector dogs to intercept high-risk species that are difficult to detect by other methods, at border and post border areas.	HISC/HDOA	In Progress	Slight Progress	Leg items: Introduced at legislature, partially approved
BorTifs1.5	Increase staffing and operating funds for the DOH Vector Control Branch by adding 13 new staff members.	DOH VC	Complete	Complete	Leg items: Introduced at legislature, approved
BorTifs2.1	Use state-of-the-art diagnostics technology to test for disease in imported plants.	HDOA PI	Complete	Ongoing in perpetuity	Working toward eventual completion (In progress)
BorTifs2.2	Install effective containment features (e.g., fences), attractants, and traps in the vicinity of ports of entry to help monitor for pests (see also BorPro1.6).	HISC	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
BorTifs3.1	Contract or hire three full-time positions at DLNR's DAR to increase capacity for state coenforcement under VIDA: two technicians stationed on Oahu and one technician stationed on Hawai'i island to perform ballast water and hull fouling inspections.	DLNR DAR: BW/BF	Not Started	Not Started	Leg items: Introduced at legislature, denied
BorTifs3.2	Fund equipment and licensing to support DLNR's ballast water and hull fouling reporting, tracking, and compliance monitoring data management system, and aquatic invasive organism reporting, tracking and compliance database system.	DLNR DAR: BW/BF	In Progress	Slight Progress	Leg items: Introduced at legislature, approved
BorTifs3.3	Contract or hire one data management specialist to support DLNR's new ballast water, biofouling, and aquatic invasive species database systems.	DLNR DAR: BW/BF	Not Started	Not Started	Leg items: Introduced at legislature, approved
BorTifs3.4	Contract a public institution or private company to use molecular techniques to identify organisms recruited onto the settlement plates, and build an eDNA database of nonindigenous and invasive species established in Hawaii.	DLNR DAR: BW/BF	In Progress	Some Progress	Ongoing (use for perpetual actions with no "completion" date)

PosPol1.1	Propose for enactment necessary legislative amendments to HRS § 150A-5 (and other related sections) to authorize HDOA to screen, inspect, and regulate nonagricultural commodities in interisland transport and amend corresponding administrative rules (HAR Chapter 4-72).	HDOA PI	Not Started	Not Started	Leg items: not yet introduced
PosPol1.2	Propose for enactment the necessary legislation (see also PrePol2.1 and PrePol2.2) and regulations (HAR Chapter 4-72) to authorize HDOA to require the use of the emanifest reporting and data management system for interisland shipments.	HDOA PI	No longer relevant	Needs Dept re-evaluation	Leg items: not yet introduced
PosPol1.3	Create stricter regulation of interisland movement of pests and pathogens. Exmaples of potential mechanisms include updating HAR Chapter 4-72, entering into compliance agreements, and/or an interisland nursery certification program. (Combines PosPol1.3, PosPol 1.5.	HDOA PI	In Progress	Significant Progress	Ongoing (use for perpetual actions with no "completion" date) Working toward eventual completion (In progress)
PosPol1.4	Revise HDOA or DLNR rules, HAR Chapter 4-71 and HAR Chapter 13-124, and corresponding lists pertaining to nondomestic animals and injurious wildlife.	HISC	In Progress	Some Progress	Not yet started
PosPol1.6	Propose for enactment the necessary legislation and regulations (HAR Chapter 13-76) to require vessels and waterborne equipment >5 feet long to conduct and document proper hull husbandry management before being moved or shipped between islands (see also BorPol1.3).	DLNR DAR: BW/BF	Not Started	Not Started	Leg items: Introduced at legislature, denied
PosPol2.1	This action is no longer relevant to improving biosecurity in Hawaii. HISC is administered under DLNR by HRS 194 and is able to meet the statutory requirements as such.	HISC	No longer relevant	Needs Dept re-evaluation	Dept no longer planning to pursue this option (request to remove)
PosPol2.2	Enter into MOUs with waste management facilities to accommodate disposal of carcasses associated with disease outbreaks.	HDOA AI	No longer relevant	Needs Dept re-evaluation	Dept needs to re-evaluate and amend this action item
PosPol2.3	Propose for enactment the necessary legislative amendments (e.g., through HRS Chapters 150A, 183, 126, 195, and 183C), and promulgate new administrative rules to prevent the introduction of invasive species.	HISC	Progress Stalled	No additional progress in 5 years or more	Leg items: not yet introduced

PosPol2.4	If I understand the prohibited list correctly, unlisted high-risk AIS would still be considered prohibited simply because it is a prohibited species by not being listed on the conditionally approved or restricted lists (HAR 4-71-6.5). There may be an added level of security that I am unaware of, but this is HDOA's area. DLIL campaign began targeting these key issues.	DLNR DAR: AIS	Not Started	Not Started	Working toward eventual completion (In progress)
PosPro1.1	Dedicated position (see also PosTifs1.6) to collaborate with state, federal, county, and private entities to design, build, and coordinate islandwide comprehensive and uniform surveillance/ monitoring programs for high-risk taxa (e.g., mosquitoes, plant pathogens, ants, plants, rat lungworm disease and vectors).	HISC	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PosPro1.2	Contract an independent analysis of effectiveness of current enforcement and prosecution of biosecurity laws, and prepare a report of recommendations on what administrative and criminal penalties should be revised to be more effective deterrents.	HISC	In Progress	Slight Progress	Not yet started
PosPro1.4	Integrate invasive species control and mitigation actions into project requirements during environmental review and approval processes.	DLNR DOFAW	In Progress	Some Progress	Working toward eventual completion (In progress)
PosTifs1.11	Fund and implement the critical mechanisms at the Invasive Species Committees, Hawaii Ant Lab, and other projects.	HISC	In Progress	Some Progress	Leg items: Introduced at legislature, partially approved Working toward eventual completion (In progress)
PosPro1.6	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.	HISC	In Progress	Some Progress	Ongoing (use for perpetual actions with no "completion" date)
PosPro2.1	Implement an emanifest data management system (see also PosPol1.2 and PrePro1.1) for interisland transport of commodities to improve record keeping and inform interisland risk assessments. Design the interisland system to focus on preventing the known risks and be user friendly to the public and industry.	HDOA PI	In Progress	Some Progress	Not yet started

PosPro2.2	Improve data utilization from livestock movement documents by collecting and entering data into the HDOA biosecurity database to support animal disease traceability. The existing movement documents that provide the data are the DC-44 (Certificate of Livestock Movement/ Ownership) and DC-8 (Permit to Ship).	HDOA AI	In Progress	Significant Progress	Ongoing (use for perpetual actions with no "completion" date)
PosPro3.1	Create standardized language for best management practices to incorporate into state contracts to minimize the spread of invasive species in the islands.	HISC	In Progress	Some Progress	Working toward eventual completion (In progress)
PosPro3.2	Create working group to develop effective solutions that address carcass disposal, including carcasses of marine animals.	HDOA AI	No longer relevant	Needs Dept re-evaluation	Dept needs to re-evaluate and amend this action item
PosPro3.3	Increase base funding for Watershed Partnerships to at least \$6 million per year.	DLNR DOFAW	In Progress	Significant Progress	Leg items: Introduced at legislature, denied
PosPro4.1	Write protocols and standard operating procedures for statewide field response to inspect, isolate, and appropriately dispose of unexpected arrivals of high-risk AIS of distant origin, such as materials transported by a tsunami or floating debris from other sea structures or vessels, and implement those procedures by January 2019.	DLNR DAR: BW/BF	In Progress	Some Progress	Ongoing (use for perpetual actions with no "completion" date)
PosPro4.2	Increase efforts statewide to control established AIS, including development of new control techniques, such as the use of Rotenone to control introduced invasive fish. Contribute data gathered to HDOA's biosecurity database.	DLNR DAR: AIS	In Progress	Some Progress	Ongoing (use for perpetual actions with no "completion" date)
PosPro4.3	Implement comprehensive approaches to remove and control the spread of algal AIS using mechanical removal, native grazers (e.g., urchins), and other technologies in at-risk high-value native habitats identified based on survey and monitoring data.	DLNR DAR: AIS	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PosPro4.4	Create a list of priority pests and identify if monitoring methods for early detection and rapid response exist. If not prioritize creating methods and develop a centralized location to host information.	HISC	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)

PosPro4.5	Consult with New Zealand, Australia, and the states of Alaska, Washington, Oregon, California, and Florida on how AIS vectors are managed elsewhere; conduct in-state studies to document recreational and commercial fleet AIS issues; and based on the results of research and studies, implement appropriate actions to reduce AIS impacts.	DLNR DAR: BW/BF	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PosPro4.6	Submit petitions to HDOA to raise minimum standards for aquaculture and other point-of-sale facilities (e.g., pet stores and live seafood sellers) to minimize the chance that high-risk species are intentionally or inadvertently released into the wild.	DLNR DAR: AIS	Not Started	Not Started	Not yet started
PosPro4.7	Discussion to provide outreach event at HIMB in collaboration with Heeia NERR. Focus on Majano, Non native corals, and other species with weedy characteristics.	DLNR DAR: AIS	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PosTifs1.1	Increase funding for the Hawaii Invasive Species Council to coordinate and implement interagency invasive species efforts, including an annual grant program for interagency projects for control, prevention, outreach, research, and administrative costs.	HISC	In Progress	Some Progress	Dept needs to re-evaluate and amend this action item
PosTifs1.2	Increase PPC capacity (staff, operating budget) in order to provide address effective plant and pest control using chemical and mechanical methods.	HDOA PI	Complete	Significant Progress	Leg items: Introduced at legislature, partially approved
PosTifs1.3	Increase HDOA's biocontrol section in order to provide statewide surveys; provide diagnostic and scientific support to PQ and PPC; and research, screen, and test new biocontrol agents for biocontrol of widespread established pests.	HDOA PI	In Progress	Some Progress	Leg items: Introduced at legislature, partially approved
PosTifs1.4	Increase operating funds for biocontrol programs by \$100,000 per year to support exploration of foreign natural enemies of established invasive species.	HISC/HDOA PI	In Progress	Some Progress	Leg items: Requested within agency, pending review by B&F
PosTifs1.5	Coordinate statewide comprehensive and uniform surveillance/ monitoring programs for high-risk taxas.	HISC	In Progress	Some Progress	Leg items: not yet introduced
PosTifs1.6	Increase capacity to work on public support for biocontrol, assist with the regulatory process for biocontrol agents, and coordinate international activities that may be of benefit and impact Hawaii.	HISC	Complete	Ongoing in perpetuity	Leg items: Introduced at legislature, partially approved

PosTifs1.7	About \$30,000 a year for AIS related issues from Ocean Use Fund. Waiting to hear about \$400,000 request from leg for Unomia. HCRI end of year money supported 2 techs for 6 months. REPI...	DLNR DAR: AIS	In Progress	Some Progress	Leg items: not yet introduced
PosTifs1.8	Hire 5 specialist positions on each island (2 on Hawaii Island) that with focus on monitoring, detection, and control for high-risk pests and pathogens in forest habitats.	DLNR DOFAW	In Progress	Some Progress	Dept needs to re-evaluate and amend this action item
PosTifs1.9	Develop grant programs to assist private landowners with invasive species removal and control. Hire one grant program technical staff member to oversee the program and annual grant funding.	HISC	Not Started	Not Started	Ongoing (use for perpetual actions with no "completion" date)
PosTifs1.10	Hire invasive species technicians plus operational support and purchase vehicles to be used to detect, monitor, remove, and control invasive species in DOFAW's protected areas.	DLNR DOFAW	Not Started	Not Started	Leg items: Introduced at legislature, waiting for outcome
PosTifs1.12	Hire agricultural extension agents for each island and provide operating funds to facilitate areawide control (and prevent the reintroduction) of pests on farms, nurseries, and ranches.	UH	In Progress	Some Progress	Leg items: Introduced at legislature, partially approved
PosTifs1.13	Hire increase aquaculture capacity to conduct research, develop screening and quarantine protocols, develop pest management strategies, and conduct outreach specific to Hawaii.	UH	In Progress	Some Progress	Leg items: not yet introduced
PosTifs1.14	Increase capacity for agricultural diagnosticians to provide for rapid screening, diagnostic testing, and identification of insects and diseases to support extension agents, farmers and ranchers, the general public, and other government agencies in monitoring, detection, and pest management efforts.	UH	In Progress	Some Progress	Leg items: not yet introduced
PosTifs1.15	Assist county farmers and ranchers with invasive species early detection, control, and research needs provided by UH extension agents, researchers, or specialists	UH	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PosTifs2.1	Build new office complex to house critical plant industry programs including the biocontrol program.	HDOA PI	In Progress	Some Progress	Leg items: Introduced at legislature, partially approved

PosTifs2.2	Upgrade and update Animal Industry Division office and laboratory facilities for the investigation of animal diseases that affect food security and human health. Facilities will house a laboratory, training center, and administration and operation services and will be located at the Animals Industry office complex in Halawa Valley, Oahu.	HDOA AI	Not Started	Not Started	Leg items: not yet introduced
PosTifs2.3	Annually fund the development of techniques for detection and control invasive species (Combined PosTifs2.3, PosTifs2.4)	HISC	Progress Stalled	No additional progress in 5 years or more	Ongoing (use for perpetual actions with no "completion" date) Ongoing (use for perpetual actions with no "completion" date)
PwsPol1.1	Include biosecurity and invasive species issues in the environmental science K–12 curriculum in Hawaii. Build on existing efforts of integrating invasive species into curriculum, such as the Hoike o Haleakala curriculum.	UH	In Progress	Some Progress	Leg items: not yet introduced
PwsPro1.1	Conintue to collect pertinent examples and publish stories highlighting biosecurity successes.	HISC	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PwsPro1.2	Produce outreach materials to encourage residents to buy local products, and foster a sense of pride and self-responsibility in protecting Hawaii’s agriculture, environment, and lifestyle. Have HDOA inspectors and agricultural producers share firsthand experience on protecting Hawaii from pests.	HISC	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PwsPro1.3	Coordinate with partners in the industry, nonprofits, and community groups to use their existing media avenues, such as internal newsletters, cooperative association meetings, social media, websites, and newspapers, to share biosecurity information, send pest and disease notifications, and muster support.	HISC	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PwsPro1.4	Recruit a network of citizen scientists and other important and competent contributors, and provide logistics and administrative support to develop a citizen science–based comprehensive surveillance system for pests and pathogens.	HISC	Complete	Ongoing in perpetuity	Not yet started

PwsPro1.5	Publicize and promote nurseries that are proactive about not selling invasive plants and take proactive measures not to move hitchhiker pests.	HDOA Outreach	In Progress	Some Progress	Ongoing (use for perpetual actions with no "completion" date)
PwsPro1.6	Engage the veterinary medical community to enhance its role in detection of diseases and parasites of high concern, including ectoparasites, which can transmit wildlife and human diseases.	HDOA AI	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PwsPro1.7	Engage the education, medical, and public health community to increase education and public awareness about the dangers from human health diseases	DOH VC	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PwsPro2.1	Solicit support from the native Hawaiian community, including the Office of Hawaiian Affairs and the Aha Moku Council, and from cultural practitioners to advocate for culturally based biosecurity programs to ensure that natural and cultural resources are sustained for traditional and cultural practices. Encourage native Hawaiian communities to organize and advocate with their legislators for stronger and more effective biosecurity programs.	HDOA Outreach	Not Started	Not Started	Not yet started
PwsPro2.2	Highlight program successes in briefings to lawmakers, county officials, and members of boards and commissions. Key successes to include: implementation of departmental programs and projects, pest interceptions, capture of illegal animals, biocontrol releases, and weed eradication.	HISC	complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PwsPro3.1	Biosecurity communications specialist to develop outreach materials to launch a visitor awareness campaign (that can be used to leverage future funding for biosecurity needs). (Combined PwsPro3.1,PwsPro3.3,PwsTifs1.1)	HDOA Outreach	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
					Ongoing (use for perpetual actions with no "completion" date)
					Leg items: not yet introduced
PwsPro3.4	Develop and maintain an public platform to learn about biosecurity and tracking progress on the plan.	HISC	Complete	Ongoing in perpetuity	Working toward eventual completion (In progress)

PwsPro3.2	Create and disseminate through various media outlets (e.g., little fire ant video produced by the Maui Invasive Species Committee) accurate and current information to help the public understand the circumstances under which species in the state are regulated and why.	HISC	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PwsPro3.5	Implement HISC's state-of-the-art pest notification and reporting system, and integrate with invasive species notifications.	HISC	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PwsPro3.6	Invasive species staff to technical assistance to community volunteer groups working to control invasive species in terrestrial and aquatic systems	HISC	Complete	Ongoing in perpetuity	Ongoing (use for perpetual actions with no "completion" date)
PwsPro3.7	No specialist, but capacity increased. DLIL campaign. Anemone outreach campaign with extensive outreach. DLIL outreach (virtual and physical)	DLNR DAR: AIS	Complete	Ongoing in perpetuity	Working toward eventual completion (In progress)
PwsPro3.8	Expand University level teaching, both classroom and research, on biosecurity problems and solutions to provide an educated and trained workforce for biosecurity programs in the future.	UH	In Progress	Some Progress	Ongoing (use for perpetual actions with no "completion" date)
PwsTifs1.2	Hire a full-time natural resource economist to analyze the costs of inaction on high-profile biosecurity threats and to publicize the true effects of inaction when requesting funds for biosecurity projects.	HISC	In Progress	Some Progress	Ongoing (use for perpetual actions with no "completion" date)
PwsTifs1.3	Collaborate with HTA to obtain funds from the visitor industry to pay for biosecurity media campaigns.	HISC	Not Started	Not Started	Ongoing (use for perpetual actions with no "completion" date)
PwsTifs1.4	Contract a professional public relations firm to create visually appealing signs and displays regarding biosecurity at airports.	HISC	In Progress	Some Progress	Not yet started
PwsTifs1.5	Contract the creation and maintenance of a user-friendly risk assessment tool for vessel operators as it relates to ballast water and vessel biofouling regulation and management. The risk assessment tool should be available to the public and similar to https://vesselcheck.fish.wa.gov.au/ .	DLNR DAR: BW/BF	In Progress	Some Progress	Not yet started
PwsTifs1.6	Write, develop and disseminate new statewide comprehensive education and outreach materials about biosecurity and invasive species to targeted audiences through the UH Office of Communications Services.	UH	Not Started	Not Started	Completed

PwsTifs1.7	Hire two university instructors/researchers to teach and conduct research on terrestrial and marine biosecurity program and university field of study.	UH	In Progress	Some Progress	Dept needs to re-evaluate and amend this action item
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Slight Progress	6
Some Progress	43
Significant	11
Progress	60