

DEPT. COMM. NO. 290

DAVID Y. IGE
Governor

SHAN S. TSUTSUI
Lt. Governor



SCOTT E. ENRIGHT
Chairperson, Board of Agriculture

PHYLLIS SHIMABUKURO-GEISER
Deputy to the Chairperson

State of Hawaii
DEPARTMENT OF AGRICULTURE
1428 South King Street
Honolulu, Hawaii 96814-2512
Phone: (808) 973-9600 FAX: (808) 973-9613

January 10, 2018

The Honorable Ronald D. Kouchi,
President and Member of the Senate
Twenty-Ninth State Legislature
State Capitol, Room 409
Honolulu, HI 96813

The Honorable Scott K. Saiki,
Speaker and Member of the House of
Representatives
Twenty-Ninth State Legislature
State Capitol, Room 431
Honolulu, HI 96813

Dear President Kouchi, Speaker Saiki, and Members of the Legislature:

For your information and consideration, I am transmitting a copy of the Department of Agriculture Annual Report as required by Act 100, SLH 1999. In accordance with Section 93-16, Hawaii Revised Statutes, I am also informing you that the report may be viewed electronically at <http://hdoa.hawaii.gov/>.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott E. Enright", with a stylized flourish at the end.

Scott E. Enright, Chairperson
Board of Agriculture

Enclosures



**REPORT TO THE TWENTY-NINTH LEGISLATURE
2018 REGULAR SESSION**

**DEPARTMENT OF AGRICULTURE ANNUAL REPORT
PURSUANT TO ACT 100, SLH 1999**

Prepared by:

**Department of Agriculture
State of Hawaii**

December 2017

ACT 100, SLH 1999
Department Overview
Fiscal Year 2018 Update

Mission Statement

To further expand the role of Hawaii's agricultural industry to benefit the well-being of our island society by diversifying the economy, protecting resources important for agricultural production, and gaining greater self-sufficiency in food and renewable energy production.

Department Goals

To conserve and develop essential agricultural resources and infrastructure; to gain access to and develop local, domestic, and international markets for Hawaii's agricultural products; to conserve and protect suitable agricultural lands and water; to promote Hawaii's food self-sufficiency; to raise awareness of the importance of agriculture to the State's economy, environment, and as a profession; to implement programs to safeguard Hawaii's farmers, consumers, and natural resources; to prevent the introduction and establishment of plants, animals and diseases that are detrimental to Hawaii's agriculture and environment.

Significant Measures of Effectiveness

- Total Farm Value of agriculture in Hawaii (In thousands of dollars).

<u>FY 2017</u>	<u>FY 2018</u>
613,500	614,000

Major Functions

- Carries out programs to conserve, develop, and utilize the agricultural resources and infrastructure of the State and facilitates the transition of plantation agriculture to diversified farming.
- Enforces laws, and formulates and enforces rules and regulations to manage these resources.
- Promotes agriculture and provides opportunities to access new markets.
- Reviews, develops, and implements agricultural goals and objectives to expand and diversify Hawaii's agriculture.
- Prevents the introduction of plant pests and diseases, provides certification services to facilitate the export of certain plant materials, and controls and eradicates insects and noxious weeds and controls the distribution and usage of pesticides.
- Administers the aquaculture development, state animal health, and agricultural and aquacultural loan programs.

- Maintains official State primary measurement standards; ensures accuracy of commercial measuring devices.
- Establishes and enforces grade standards for agricultural commodities producers in the State in cooperation with the industry, and administers the State's Milk Control Act.

Collects and disseminates statistical data on agricultural production and markets, and supports funding for research on various agricultural commodities.

ACT 100, SLH 1999
ACTION PLAN
Fiscal Year 2018 Update

Division/Branch: Administrative Services Office

Purpose: To enhance the effectiveness and efficiency of the department by providing staff support services, other administrative services, and responding to the needs of the public.

Goal 1: To minimize energy, fuel and water consumption and implement resource-efficient operations and management measures.

Objective: Implement the department's Energy Action Plan, subject to the availability of funding. Completion date: Ongoing.

1. Initiate lighting, window tinting, retro-commissioning, alternative energy, and other energy efficiency CIP projects.
2. Work with employees to practice energy and water conservation measures, and monitor usage/savings.

Goal 2: To provide a safe and healthy working environment for employees by ensuring that the department's facilities are in compliance with local, state and federal requirements.

Objective: To address the repair and maintenance and improvement needs of the department's facilities. Completion date: Ongoing.

1. Establish a priority listing of capital improvement work for the various department facilities utilizing approximately \$1,200,000 in general obligation bond funds appropriated for FY18.
2. Initiate various capital improvement projects with assistance of the DAGS Public Works and Central Services Divisions.

3. Prepare budget requests for additional capital improvement work as additional work is identified.

Objective: To provide a safe working environment for department employees by complying with Occupational Safety and Health Administration (OSHA) requirements. Completion date: Ongoing.

1. Establish a safety committee comprised of employees from various divisions.
2. Develop a department-wide safety plan.
3. Install signage to properly mark exit routes, hazardous materials and locations of fire extinguishers.
4. Initiate necessary repair and maintenance work or capital improvement projects to correct facility deficiencies.
5. Install burglar alarm systems in facilities where necessary, based on risk assessment, and as funding allows. Create alarm procedures to deal with intrusion alerts.

Goal 3: To provide reasonable and meaningful access to limited English proficient individuals or organizations accessing, participating or benefiting from services, programs and activities by the department.

Objective: To meet the requirements of Act 290, SLH 2006, codified into Part II of Chapter 371, HRS, and Presidential Order 13166. Completion date: Ongoing.

1. Continually update the listing of departmental employees who are skilled in a non-English language and are willing to volunteer to provide interpreter services.
2. Compile and disseminate listing of interpreters/translators and their costs for program personnel to use in providing services to their LEP customers.

Goal 4: Improve procedures and processes for maximum efficiency.

Objective: To streamline processes to maintain essential staff support services provided to the department programs. Completion date: Ongoing

1. Review fiscal processes, revise processes and procedures as needed to increase efficiencies and reduce redundancy.
2. Review all administrative services functions including copy/fax machine operations, telecom coordination, janitorial and grounds keeping contract administration, vehicle fuel and repair invoice processing, etc., to increase efficiencies.

ACT 100, SLH 1999
ACTION PLAN
Fiscal Year 2018 Update

- Division/Branch: Agribusiness Development Corporation
- Purpose: To facilitate and coordinate the development and expansion of Hawaii's agricultural industry by directly participating in the shift from plantation-based production and infrastructure to a multi-farm/multi-crop industry.
- Goal 1: Transition former plantation land and water systems for diversified agriculture.
- Objective 1: Increase the State's inventory of good agricultural land by continuing to purchase former agricultural lands from large private agricultural land owners and developing those lands for active farming through the permitting, licensing and leasing process. .
1. Perform due diligence on available lands.
 2. Negotiate terms of purchase, including ensuring clear title, fair price, availability of irrigation water, legal accessibility, etc.
 3. Once purchased, clear hazardous trees and invasive vegetation from the acquired lands.
 4. Solicit applications for tenancy dispositions, issue RPs, licenses or leases to begin active farming and income-generation.
- Objective 2: Develop Galbraith Agricultural Lands for diversified agricultural use. (acquired on December 10, 2012).
1. Establish approximately 200 acres for small farmers by educating small farmers in good agricultural practices and legal pesticide and other chemical applications, educating them about compliance with the Food Safety Modernization Act, and issuing long term land licenses for farms ranging in size from 5 to 60 acres.
 2. Continue land clearing and preparation work on fallow agricultural land.
 3. Maintain the restored Bott Well pump and installing a connected irrigation system for the 200-acre small farm lots.
 4. Complete the plans and design, and construct two (2) 3-million gallon (MG) and a 10-MG reservoir, including analyses of an environmental assessment, followed by designing the connection of the reservoirs to the rest of the irrigation system

for supplying irrigation water to Galbraith and adjacent Wahiawa lands.

5. Complete the routing study and environmental assessment of a County recycled water (R-1 water) transmission line to transport R-1 water from the Wahiawa Wastewater Treatment Plant to the Galbraith Lands, followed by selection of the most feasible route. Construction is anticipated to be completed by 2020.
6. Complete plans and design of a pump and transmission line to take water from Lake Wilson for agricultural purposes.

Objective 3: Operate and maintain the Waiahole Water System (WWS) and improve its operational efficiency.

1. Continue to provide accurate and reliable monthly flow data and usage information to the Commission on Water Resource Management (CWRM) in accordance to the ground water use permit; provide project updates to the CWRM upon request.
2. Monitor ditch flow and pinpoint potential areas of excessive system loss; perform necessary repairs or implement corrective actions.
3. Patch and repair broken ditch lining in selected sections of the water system.
4. Operate, maintain, or perform minor repairs on Reservoir 155 and Reservoir 225 in accordance with dam safety standards.
5. Continue to work with the Agricultural Resource Management Division of the Hawaii Department of Agriculture (HDOA) and the U.S. Army Corp. of Engineers on a project to line reservoir 155 and correct related dam safety issues. Funding was available for only Reservoir 155.
6. Manage aquatic weed growth in the open ditches, expanding the use of non-chemical methods by blocking complete sunlight from shining into the ditches.
7. Design and install a Supervisory Control and Data Acquisition (SCADA) system at various points along the system to improve management of the WWS.
8. Construct additional reservoirs to increase the system's holding capacity.
9. Install a backup to ensure the system can continue delivering water in the event the ditch is inoperable.
10. Continue to work with the Kunia Water Cooperative to foster

responsible use of the WWS infrastructure and water.

11. Continue to maintain the transmission tunnel, intakes and access to the system on the windward side.

Objective 4: Manage, operate and maintain the Kekaha, Kauai agricultural lands and infrastructure set aside to ADC for diversified agricultural activities.

1. Manage RPs, licenses and leases, land and infrastructure in conjunction with the tenants and the Kekaha Agriculture Association (KAA).
2. Evaluate and issue additional land licenses and sub-licenses to qualified applicants on available lands as appropriate.
3. In conjunction with the HDOH, HDOA, Office of the Attorney General and consultants, defend legal proceedings instituted against the ADC by EarthJustice on instream flow standards in Waimea, alleged water quality standard violations and alleged discrimination against Hawaiians based upon pesticide use in the community.
4. Continue to procure and oversee the operation and maintenance of the pump stations and drainage canals at the Pacific Missile Range Facility (PMRF) pursuant to contract with the Navy,. The current contract extends ADC's involvement to September 2018.
5. Continue to work with the HDOA on required dams and reservoir improvements (Kitano and Mana reservoirs) in accordance with dam safety standards. NOTE: Mana reservoir was drained pursuant to Notice of Dam Safety Deficiency Order to Drain dated December 2, 2015.
6. Coordinate with the KAA, the Navy, and the Kauai county civil defense office on flooding mitigation efforts during severe weather conditions.
7. Work with Waiaka Hog Farmers on Inoculated Dry Litter System facilities and negotiate revocable permits or licenses with hog farmers.
8. Work with consultants, HDOH, PMRF and ADC's Kekaha tenants to develop best management practices and a water quality control program for the Mana Plain.

Objective 5: Support the preservation of agricultural land through participation with county, state and federal funding programs.

1. U.S.D.A. –N.R.C.S. Farm and Ranchland Protection Program: Conduct annual inspection of the agricultural conservation

easement on the Hawaii Agriculture Research Center property in Kunia, Oahu.

2. Administer conservation easements placed upon newly acquired ADC lands (in exchange for contribution to, and therefore reduction in, the State's purchase monies) to ensure that the use of the ADC lands referenced in Goal 1, Objective 1 is limited to agricultural uses, in perpetuity

Goal 2: Develop facilities and provide support as necessary for successful diversified agriculture.

Objective: Restore abandoned processing or warehouse facilities for use by diversified agriculture.

1. Develop a master plan for the newly-acquired ADC lands referenced in Goal 1, Objective 1-adjacent to Whitmore Village, while continuing to manage existing leases of buildings and office for existing tenants, to be followed by construction plans and specifications, then by actual construction.
2. Plan and design improvements to the newly-acquired warehouse building located at 1001 California Avenue, while managing two (2) existing leases for interim use of the building. Evaluate and strategize possible long-term use(s) of the building by agribusinesses.

Goal 3: On a broader vein, provide solutions to certain bottleneck issues facing the agriculture industry.

Objective 1: Develop and implement cost-effective pollution prevention technology for Hawaii's livestock and other small family farm operations.

1. Hog Farming: Assist with cost sharing to implement a recent USDA-approved Inoculated Dry Litter System for managing waste which eliminates the slurry, pests- and odor traditionally resulting from hog farming operations.

Objective 2: Enhance papaya industry by introducing new varieties of papaya.

1. Continue cooperative funding with USDA Agricultural Research Center to research and develop a more competitive sweet freckle-free papaya.

Objective 3: Convert food waste to biofuel, animal feed and/or plant fertilizer.

- ~~4.~~ Plans and designs having been completed and the patented equipment having been purchased for the "zero waste" facility to be located at the ADC's newly acquired facility in Keaau, Hawaii island, develop and implement the zero waste facility which will

use papaya waste products into biofuels, and upscale the operation from its pilot phase to a commercial operation.

Goal 4: Continue State land management of agricultural lands in Kalepa, Kauai.

Objective: Manage, operate and maintain the 6,200 acres of agricultural lands and infrastructure in Kalepa, Kauai set aside to ADC

1. Manage agricultural land licenses and revocable permits issued to ranchers, farmers, and a renewable bioenergy producer, Green Energy Team LLC.
2. Issue new long term licenses to qualified agribusinesses, primarily for diversified agriculture on irrigated lands and pastoral use of non-irrigated lands.
3. On-going efforts to work with the County of Kauai on a proposed landfill to be located in this area.
4. Work with DLNR Dam Safety and ARMD to mitigate reservoir issues at Upper A`ahoaka.

Goal 5: Explore the expansion of, and State involvement in, the aquaculture industry in conjunction with the HDOA.

Objective 1: Develop aquaculture activity on North Shore, Oahu.

1. Negotiate the transfer of a set aside with UHM, CTAHR of ocean-front lands in Waialeale, Oahu, the ADC to take management and control responsibility of the land, and to oversee HDOA's development of activities that will optimize the use of natural springs located on the property.

Objective 2: Develop an aquaculture livestock feed mill that will convert fish waste into fish food.

Negotiate with HDOA to receive a portion of existing improvements in Kalaeloa, Oahu and continue research and investigation into processes and equipment that can convert fish waste into fish food.

ACT 100, SLH 1999
ACTION PLAN
Fiscal Year 2018 Update

Division/Branch: Agricultural Development Division

Purpose: The Agricultural Development Division promotes the economic viability of commercial agriculture in Hawaii by sponsoring joint-

marketing programs for agricultural products with high-revenue growth potential, facilitating the development and expansion of marketing opportunities for targeted agricultural and processed products, and providing timely, accurate and useful statistics.

Agricultural Development Division/Market Development Branch

Goal 1: Seek alternate non-state funds (federal and private grants) to offset state general funds for HDOA agricultural marketing, data collection and economic development efforts.

Objective: Coordinate the search, proposal development, submission and administration of federal and private funding opportunities with assistance from external partners.

1. Continue to train staff to administer grants awarded and to be familiar with the state procurement system and administrative rules.
2. Continue to engage in networking activities to seek grant funding sources and partners.

Goal 2: Provide equitable, efficient, effective and accountable administration of contracted programs, including the Sponsorship and Product Promotion (SPP), Specialty Crop Block Grant Program (SCBGP), Federal-State Marketing Improvement Program (FSMIP) and the State Trade and Export Program (STEP).

Objective: Maintain a systematic and fair procedure to provide notice, selection, disbursement and monitoring of various grant programs, as funding allows.

1. Maintain a work plan for each program with project duration, identified tasks, and timeline to illustrate the process.
2. Maintain a database system to monitor the various grant programs to ensure that reporting and invoicing requirements are submitted in a timely manner.
3. Maintain two trained staff members to administer the contracted programs. Both members will serve as liaisons to the AG's Office, the State Procurement Office, and the Department's Fiscal Office.

Objective: Administer grant programs according to the terms and conditions and guidelines specific to the program.

1. Keep current on changes to federal grant programs, for example, updates to the Uniform Administrative Requirements for Federal Grants as published in 2 CFR 200.

2. Keep current on changes to State Procurement Rules, for example, changes to the Hawaii Revised Statutes and Hawaii Administrative Rules for state funded programs.

Objective: Provide relevant reports, analyses and other pertinent information upon request to document progress and proper execution of the various programs.

1. Prepare summarized progress reports upon request to support grantor, legislative and departmental inquiries.
2. Submit final reports due upon completion of the programs' established requirements.
3. Engage sub awardees in the reporting process with regular communications regarding preferred format for progress and final reports.

Market Development Branch

Goal 1: Utilize state, federal and allotted funds from the Agriculture Development and Food Security Program to increase food security and food self-sufficiency for Hawaii.

Objective: To support the objectives of the Market Expansion portion of the Agriculture Development and Food Security Program that includes 1) Stabilize Existing Markets; 2) Develop New Export Markets; 3) Farm to School; 4) Increase Local Share of the Market; 5) Import Replacement; and 6) Export Certification.

1. Stabilize Existing Markets
 - a. Engage with commodity organizations/associations to stay current and conduct outreach.
 - b. Offer programs and activities to help organizations/associations meet the goals they deem important to their members.
 - c. Work with other public and private agencies to determine metrics to gauge market conditions.
 - d. Administer projects awarded to, but not limited to, avocado, apiary, awa, basil, beef, breadfruit, cacao, coffee, floriculture, forestry, macadamia nuts, papaya, taro, tea, tropical fruits and vegetables for both conventional, organic and innovative farming methods.
2. Develop New Export Markets
 - a. Plan trade missions to Australia, the ASEAN region, China and domestic markets for Hawaii companies to seek opportunities for Hawaii products in markets that have increased air routes to/from the state.
 - b. Serve as Project Managers for WUSATA Legacy Trade Shows to become familiar with signature regional

agriculture events such as SIAL Paris (France) and Gulfood (Dubai, UAE) to seek opportunities for Hawaii companies and products.

- c. Monitor progress of deregulation of papayas into China.
- d. Develop activities for markets that align with new nonstop air service with the intent to introduce products for export.
- e. Manage Hawaii booths at one trade show in Japan to continue to increase exports to Hawaii's top agricultural export market.
- f. Promote the new and improved Hawaii Agriculture & Food Products website that launched August 2017 that connects Hawaii companies and products to buyers worldwide.

3. Farm to School

- a. Support the HDOA Farm to School Coordinator efforts to promote agriculture education.
- b. Develop creative activities to support food security and food self-sufficiency at the private and public schools.

4. Increase local share of the Market

- a. Promote "Buy Local, It Matters" campaign with action to "EAT LOCAL" through television, radio and social media promotions.
- b. Collaborate with industry and public and private stakeholders to support the development of a facility that adds value to agricultural products that includes production, processing and sales with the intent of introducing a new revenue source for local producers.

5. Import Replacement

- a. Create programs and activities targeting consumers to increase consumption of locally grown and produced foods and for farmers to increase production of food crops and for ranchers to increase numbers and processing of livestock to meet local demand.
- b. Work with CTAHR and other agriculture organizations to promote commodities that can be grown in the tropic zone – and provide the tools to move to commercial production.

6. Export Certification

- a. Conduct training/informational sessions on Kosher and Halal Certification in preparation for visitors whose faith and traditions require special food preparations.
- b. Conduct training/informational sessions with USDA, Department of Commerce and State agencies presenting guidelines and taking part in Q & A with Hawaii agricultural producers.

- c. Conduct outreach to farmers and producers to learn what crops can be exported with postharvest treatment and assist with the development of the protocols.

Goal 2: Promote, develop and expand market opportunities for Hawaii agricultural and value-added producers in local, domestic and international markets with targeted sales of \$1 million in fiscal year 2018 by aligning the Branch's activities with the needs of the various components of the state agricultural industry.

Objective: Identify potential markets for local agricultural products.

1. Conduct market research using the following channels to classify potential markets.
 - a. Hawaii agricultural statistics.
 - b. Trade Publications (print/online).
 - c. Internet - to monitor local, national and international trends.
 - d. Local associations – initiate and maintain close contact with local trade groups to understand where the local markets are moving.
 - e. Trade Shows –attend trade shows to assess their potential for Hawaii company attendance and to conduct market research.
 - f. Monitor additional airline service into the state to assess new routes for potential as a new market for Hawaii agricultural products.
 - g. Use social media as a reference tool, mining for feedback, comments to uncover trends and gauge public opinion regarding agriculture.
2. Summarize and prioritize potential markets and products by developing a rating system that accounts for local production, expansion barriers, and growth potential.
3. Recommend two to four agricultural markets for priority joint marketing initiatives.
4. Update and monitor list on an annual basis.

Objective: Identify agricultural industries (or groups) with high revenue growth potential. *(New concept to base agricultural industries identification on industry life cycle, e.g. if an industry is mature, may not need to assist whereas a group that is in the growth phase may need assistance).*

1. Initiate and maintain contact with industry associations, informal groups and industry leaders.
2. Assess each group's organizational life cycle phase (birth/growth/ maturity/decline/renewal).

3. Summarize and prioritize potential agricultural industries by developing a rating system that accounts for an appropriate action for each life cycle phase and recommend branch action.
4. Integrate target market priority list from previous objective to match possible markets to agricultural industries with potential.
5. Recommend two to four agricultural industries (or groups) for action and gauge success based on progression to next phase of life cycle.
6. Seek new agricultural products with export potential created by the post-treatment option of irradiation that was operational in 2014 and collaborate on promotional activities in targeted markets.

Objective: Based on market intelligence, market research and industry feedback, conduct sales generating activities in selected target or niche markets with the highest demand for selected agricultural products and value-added processed products in local, domestic and international markets.

1. Coordinate or participate with producers in at least two local trade shows, consumer fairs, sales promotions with retailers or other events. These may include the Lodging, Hospitality, and Food Service Expo, the Made in Hawaii Festival, and the County Farm Fairs, Hawaii Coffee Association Conference, Kau Coffee Fest, the Hawaii Tropical Fruit Growers Association Annual Meeting and the Landscape Industry Council of Hawaii, among others.
2. Coordinate or participate with producers in at least two Mainland trade shows and retail store promotions. These may include the Produce Marketing Association Fresh Summit; the National Restaurant Association American Food Show, and the Natural Products Expo West. Provide option to facilitate freight consolidation to lower trade show material freight costs and improve logistic control.
3. Coordinate or participate with producers in at least four foreign trade activities (including trade missions and reverse trade missions) to and from selected markets. These may include The International Food Ingredients and Additives Exhibition and Conference [IFEA] (Japan), Gulfood (Dubai, UAE), SIAL Paris (France), and FoodEx (Japan). Provide possible options to facilitate freight consolidation to lower trade show material freight costs and improve logistics control or assist with in-country costs.

4. Maintain or develop options for the Hawaii agricultural producers' database on MDB's website to facilitate sales arising from trade leads and inquiries.
5. Reporting requirements for each event are a preliminary report after 60 days of the event and a final report after 240 days of the event. Farmer's market reporting will be in conjunction with the organization managing the market and will include gross sales, number of vendors and public attendance.
6. When possible, recruit bi-lingual, tri-lingual staff to facilitate marketing Hawaii agricultural products to global consumers.

Objective: Offer a Sponsorship and Product Promotion request for proposal (SPP) process to attract a larger pool of applicants and to ensure greater effectiveness, transparency and accountability.

1. Consider proposals from targeted agriculture trade associations with clear goals, feasible objectives, well-defined deliverables and measurable performances – focusing on those companies in the mature life cycle phase.
2. Meet with potential participants to keep them updated on program changes and to conduct outreach activities on an ongoing basis. The outreach target for fiscal year 2018 is 10 trade associations or community groups.
3. Request that proposals include "Buy Local, It Matters" campaign and "EAT LOCAL" message to support Goal 1 to move Hawaii toward food security and food self-sufficiency.

Goal 3: Facilitate development and expansion of marketing opportunities for select agricultural and processed products as a "tie-in" with the tourism industry.

Objective: Facilitate development of ag-tourism as a complementary activity to farming.

1. Maintain partnership in ag-tourism and encourage the continuing participation of Hawaii's culinary chefs as liaisons between the agricultural and tourism industries via our website, media initiatives and ag-related special events including festivals, fairs, trade shows and conferences.
2. Support growth of the statewide ag-tourism association (HATA) which continues to develop standards and legal framework for business operations. Topics for clarification will include zoning, public safety, signage, and ADA access.

Goal 4: Maintain marketing campaigns that educate the public about local agriculture producers and products and promote high-quality producers.

Objective: Maintain the Seals of Quality program to protect Hawaii's brand cachet in local, domestic and international markets.

1. Maintain the functional marketing plan with defined marketing activities to promote awareness and increase sales of program products in local, domestic and international markets.
2. Maintain coordination with the Quality Assurance Division (QAD) to provide initial quality checks for potential participants and ongoing quality control of existing program members.
3. Recruit and maintain at least 70 participants statewide by June 30, 2018.
4. Maintain ongoing collaborations with the Quality Assurance Division (QAD), other government agencies (the HTA, DBEDT and the Governor's tourism liaison), and other non-government entities in developing and executing joint marketing activities for the Seals of Quality products in established tourism markets.

Objective: Support the Manufacturing Sector by identifying products that are manufactured, assembled, fabricated, or produced within the State and that have had at least fifty-one per cent of its wholesale value added by manufacture, assembly, fabrication, or production within the State via the "Made in Hawaii with Aloha" (MIHA) logo.

1. Administer the Limited License Agreement where the Licensee agrees to use the MIHA logo on products that comply with HRS 486-119.
2. Seek collaboration with agencies whose members would benefit from the program such as the Hawaii Food Manufacturers Association, Chamber of Commerce and DBEDT, among others.
3. Create activities to promote the MIHA logo.

Objective: Maintain select marketing programs with partners to emphasize the concept of buying local agricultural products.

1. Continue partnership effort on public education of Hawaii consumers as to what is produced in Hawaii and the importance of buying locally grown and locally produced products, which not only support our local farmers, but also supports businesses within our state.

2. Maintain participation in the buy local marketing campaign by Hawaii farmers.
3. Extend participation in the buy local concept with partners to local retailers to utilize point-of-purchase displays to educate consumers about buying local.
4. Increase purchase of promotional collaterals for wider distribution at schools, community events, supermarkets, to increase awareness of the "Buy Local, It Matters" call-to-action campaign.
5. Continue to support activities and groups where students are engaged in agriculture with the intent to continue in the industry. These groups could include the Hawaii FFA, 4H Program, School Garden Network, and others.
6. Continue to evaluate current marketing strategies, explore new marketing opportunities and develop performance measures.

Cooperative Agreement with USDA-NASS/MANB

Goal 1: Provide timely, accurate and useful statistics of Hawaii's agriculture to support production, marketing, policy, and planning and research functions.

Objective: Provide basic agricultural statistics reports and other pertinent data to support relevant agricultural activities in the state. To retool the Hawaii Agricultural Statistics and Market Analysis and News Branches that have been reduced in staff since 2009.

1. Collect, compile and publish crop and livestock reports in fiscal year 2018.
2. Seek funding to continue surveys that are not part of the national program. These include, but are not limited to Aquaculture, Farm Equipment, Horticulture, Seed Crops, Tropical Specialties and Vegetables.
3. Meet scheduled release time and date of statistical reports pre-specified to data users 99 percent of the time.
4. Continue to fill vacant positions allowing for the gathering, organizing and publishing Hawaii-specific agricultural statistics.

Objective: Maintain relevancy and defensibility of generally accepted procedures in providing official estimates on agricultural statistics.

1. Conduct ongoing, systematic open reviews of survey methodology and estimation procedures.
2. Capture and evaluate data from alternate sources to verify or support survey results.
3. Systematically review each step of data collection, processing, and estimating to improve quality and timeliness.

Objective: Close gap between services provided to customers and their shifting expectations.

1. Explore new ways to provide dialogue with data users. Staff to attend at least five commodity group or industry association meetings.
2. Train staff in assisting customers to find the products or information they seek. Continuous staff training in fiscal year 2018.
3. Continue alternate data release procedures on an ongoing basis: – e.g. e-mail, websites, and compact disks.
4. Publish reports online as workload allows.

ACT 100, SLH 1999
ACTION PLAN
2018 Update

Division/Branch: Agricultural Loan Division

Purpose: The objective of the State Agricultural Loan Division is to foster economic development in the state by stimulating, facilitating, and granting loans to farmers and aquaculturists.

Goal 1: To increase the overall number of loans and dollar amount loaned over time and to provide assistance to the farming and aquaculture communities.

Objectives: Approve 25-30 loans annually with a dollar amount of \$5,000,000 or as much as is available in State funds. The Division is experiencing strong demand for loans with higher loan amounts being requested. The Division will focus on making loans and continue its outreach efforts to inform prospective borrowers about the program.

1. Work with staff to ensure that loan applications are completed on a timely basis.

2. To monitor existing loan funds to ensure that loans are funded on a timely basis.
3. To close loans and disburse loan funds on a timely basis.
4. Increase program outreach efforts to farmer groups, agricultural classes, commercial lenders and any other interested groups.

Objective: The Division's objective is to expand and preserve the agricultural and aquacultural industries. The target includes the creation or preservation of 100 agricultural/aquacultural jobs, expand or preserve 250 acres of agricultural lands annually and generate \$3,000,000 in annual farm income from new borrowers. The Division's focus will be to expand the agriculture industry to increase exports or reduce imports thereby helping the State's economy and increasing food self-sufficiency. Although the Division has creation or retention of jobs, agricultural acreage and annual income as targets these will not be factors in determining which loans will be funded or submitted for approval.

1. Retain/create agricultural jobs through direct loans or loans made in cooperation with commercial lenders.
2. Preserve or expand use of agricultural lands through direct loans or loans made in cooperation with other lenders.
3. Increase farm income through direct loans or loans made in cooperation with other lenders.
4. Conduct field visits to verify growth in acreage or increase in number of farm employees after the loan was disbursed.
5. Tabulate and monitor acreage and employment data collected from borrowers.

Goal 2: To operate the agricultural loan program in a self-sufficient manner and maintain a quality loan portfolio with a reasonable level of delinquencies while supporting the agriculture and aquaculture industries.

Objective: Step up collection efforts on delinquent accounts and increase monitoring of current accounts. Collection efforts are important to ensure funding for future loans and to pay for the Division's operations. The Division will continue monitoring of current accounts and work with the delinquent borrowers to ensure timely repayment of their loans. The program is a lender of last resort and collection efforts need to be balanced with the need to assist the industry.

1. The Division's goal is to keep delinquencies under 20% of the total loan volume.
2. Continued monitoring of available fund balances, delinquent accounts and the overall health of the portfolio and status of the agriculture and aquaculture industries.
3. To ensure adequate monitoring of the Division's accounts, a target of 750 servicing contacts with borrowers will be maintained.
4. Continued focus on development of individual repayment plans for delinquent borrowers to establish regular loan payments, ensuring close monitoring of the accounts and conducting periodic reviews of the borrower's performance and financial condition.

ACT 100, SLH 1999
ACTION PLAN
Fiscal Year 2018 Update

Division/Branch: Agricultural Resource Management Division

Purpose: To develop and manage the State's agricultural resources by ensuring affordable and reliable irrigation water and infrastructure, productive farmland, and efficient and cost-effective processing, livestock slaughter and agricultural research facilities.

Goal 1: Continue transfer and review of Non-Agricultural Park leases from DLNR to DOA. Advocate for the transfer of lands as expeditiously as possible.

- Objective: Have ARMD actively take over and manage the first round of unconditional leases from DLNR Land Division.
1. Work with DLNR, Land Division to complete Governor's Executive Orders for the first round of unconditionally accepted parcels.
 2. Continue to work with Land Division to bring conditional leases into compliance or cancel the lease for breach and transfer to DOA for disposition.

Objective: Continue transition of second list parcels of Non-Agricultural Park leases from DLNR to DOA and continue research for additional lands.

1. Have BLNR and BOA approve remaining second list parcels for Non Agricultural Park program.
2. Work with DLNR, Land Division to complete Governor's Executive Orders for the second round of approved parcels.

Objective: Begin transition of third list parcels of Non-Agricultural Park leases from DLNR to DOA.

1. Meet with DLNR Land Division to review third list parcels to exclude from transfer.
2. Complete inspection of final third list parcels.
3. Have BLNR approve mutually agreed upon third list for Non Agricultural Park program.
4. Work with DLNR, Land Division to begin Governor's Executive Orders for the third round of approved parcels.

Goal 2: Continue the implementation of Capital Improvement Projects that improve the efficiencies of the irrigation systems.

Objective: Increase overall efficiencies in the irrigation systems to ensure the maximum amount of water collected is available for distribution.

1. Secure adequate funding to continue the construction of the proposed improvements to the irrigation systems.
2. Review day to day operations to identify opportunities to refocus maintenance activities to take advantage of system improvements.
3. Connect with farmers to identify "joint" projects that allow the farmers to develop a sense of "joint ownership" for the systems.

Goal 3: Begin construction of the Royal Kunia Agricultural Park

Objective: Obtain phase I construction funding for Kunia Agricultural Park.

1. Identify easement requirements for utilities to the Ag Park.
2. Continue discussions with adjacent developer to set time line to provide necessary utilities.
3. Open construction bids for phase I and begin construction.

Division/Branch:	Animal Industry/Animal Disease Control and Veterinary Laboratory
Purpose:	To protect livestock, poultry and public health by preventing the entry of animal diseases into the State, and diagnosing, monitoring, controlling and eradicating livestock and poultry diseases of economic and public health concern.
Goal 1:	Safeguard against the entry of Foreign Animal Diseases (FADs)
Objective:	<p>Strengthen measures in place to mitigate and detect the occurrence of FADs in Hawaii.</p> <ol style="list-style-type: none"> 1. Apply for USDA Animal Health Surveillance grants to fund activities for CY 2018. 2. In CY 2018 continue to provide enforcement activities to assist USDA in ensuring garbage feeding swine operations statewide are compliant with laws and rules that are in place to prevent the introduction of FADs. 3. Continue to obtain poultry and other birds to collect samples for avian influenza virus testing. 4. Diligently investigate disease states in animals to rule-out foreign animal diseases.
Goal 2:	Update plans to control and contain bovine tuberculosis (BTB) on Molokai.
Objective:	<p>Contain bovine tuberculosis in feral swine to the East End of Molokai.</p> <ol style="list-style-type: none"> 1. Seek USDA funding in 2018 to conduct wildlife surveillance on the East End of Molokai. Bovine tuberculosis remained endemic in the feral swine population at least through 2010 and as a results threatened to spill over and infect cattle herds in that area. 2. Continue annual testing of all cattle and goat herds on the East End of Molokai. 3. Continue the enforcement of Quarantine Order 87-A which prohibits the movement of feral swine and axis deer west of Kamalo, Molokai to prevent the spread of bovine tuberculosis from the East End of Molokai to other areas of Molokai and the State.

4. Participate with USDA, Veterinary Services and Wildlife Services with development of an oral vaccine to control BTB in feral swine.

Goal 3: Align list of notifiable diseases into those of high consequence that may impact movement and disease response in Hawaii

Objective: Strategically examine the methods of response to animal diseases of high consequence to ensure alignment with response methodologies from the United States Dept. of Agriculture (USDA).

1. Examine, and edit when applicable, animal disease preparedness plans to align with current response plans provided by the USDA.
2. Engage Hawaii's veterinary professional community to maintain vigilance in monitoring for occurrence of reportable diseases in animals.

Goal 4: Amend animal disease control administrative rules to strengthen disease control prevention and control measures.

Objective: Update and strengthen animal disease control Administrative Rules.

1. Revise Trichomoniasis rules to prevent the introduction and spread, control outbreaks and eradicate infections from cattle herds.
2. Revise Scrapie rules to prevent its introduction, conduct surveillance and to maintain the State's consistent status in the National Scrapie program.
3. Strengthen garbage feeding regulations to strengthen the State's ability to prevent the introduction of FADs.

Goal 5: Continue development of animal disease traceability processes used during an animal disease outbreak to reduce the magnitude of associated adverse economic impacts.

Objective: Utilize Federal cooperative agreement funds to enhance intrastate animal disease traceability by encouraging premises registration and mitigating bottlenecks in animal disease investigations.

1. Seek funding from the USDA-Veterinary Services for equipment to facilitate animal disease investigations in CY 2018.
2. Continue animal disease traceability activities through CY 2018.
3. Update technical equipment that support electronic identification in production animal species such as cattle, hogs, and small ruminants in CY 2018.

Goal 6: Improve laboratory support for animal disease surveillance and control programs to mitigate potential negative economic impacts on animal industry and public health.

Objective: Ensure timely laboratory testing in support of the Division and livestock, poultry and aquaculture industries.

1. Cross-train laboratory personnel to ensure that timely and high quality laboratory diagnostic support is maintained.
2. Implement new methodology and equipment for disease testing and diagnosis.
3. Apply for Federal cooperative agreement funds, if applicable, to support laboratory activities in CY 2018.
4. Conduct surveillance testing for high impact disease agents that affect domestic animals by performing pathology examinations and collecting appropriate samples for laboratory testing.

Goal 7: Continue pseudorabies and swine brucellosis surveillance and control measures agreed upon with USDA.

Objective: Control the spread of pseudorabies and swine brucellosis from infected feral swine to domestic swine herds.

1. Test 25% of domestic swine herds in the State annually.
2. In a four year period all domestic herds will be tested.
3. Herds designated as high risk because of previous exposure or potential exposure to feral swine will be tested annually.
4. Continue testing of all sows and boars over 6 months of age at slaughter.

ACT 100, SLH 1999
ACTION PLAN
Fiscal Year 2018 Update

Division/Branch: Animal Industries / Aquaculture and Livestock Support Services

Purpose: To develop sustainable and profitable commercial aquaculture and livestock industries by encouraging a diversity of products, improving management practices and technologies, assisting with procurement of production related

infrastructure and resources, and providing direct assistance with regulations, disease prevention, marketing and new business development.

- Overall Industry Goal:
- Boost farm incomes for all livestock, which includes aquaculture, operations in Hawaii by:
- increasing the total number of livestock on large and small farms;
 - improving the efficiency of livestock operations;
 - developing new marketing locally and abroad;
 - facilitating new production systems.

Industry Advocacy and Development

- Goal 1:
- At the government level, increase the visibility of the aquaculture and livestock industries and their role in reaching Hawaii's sustainability goals.

- Objectives:
1. Act as the lead coordinator for statewide aquaculture and livestock program activities for County, State and Federal entities.
 2. Work closely with State and County lawmakers to develop and adopt pro-aquaculture and pro-livestock legislation.

- Goal 2:
- Increase local and export awareness and demand for aquaculture and livestock products.

- Objectives:
1. Develop and implement an industry marketing program with a goal to educate consumers regarding aquaculture and livestock as sustainable food solutions. Web marketing will be developed with print channels utilized as the budget permits.
 2. Work with selected industry segments to develop generic promotional materials (e.g., photography and brochures).
 3. Establish an economic foundation for the livestock industry through the development of institutional food programs.
 4. Work with industry associations, university, local processors, the culinary industry, and the Market Development Branch to develop new products and local markets for those products including (high quality grass finished beef, fresh local pork, locally unique added value products and locally influenced high quality ready to cook meals for local and potential export markets.

- Goal 3:
- Develop and implement aquaculture and livestock plans and policies by providing review and input into aquaculture governance propositions and representing the State at the Federal and international levels.

- Objectives:
1. Facilitate expansion of Federal/State sponsored offshore aquaculture development on species, systems, environmental impacts and

economic benefits and potential leases as the Federal Offshore Aquaculture Policy is developed.

2. Collaborate with national aquaculture organizations, such as the National Association of State Aquaculture Coordinators (NASAC) and the National Aquaculture Society (NAA), to provide feedback on developing aquaculture policies.
3. Represent the Hawaii aquaculture industry at aquaculture conferences such as Aquaculture America.
4. Represent the Hawaii livestock industries at national livestock development organizations such as the National Institute for Animal Agriculture (NIAA)

Goal 4: Develop resources and infrastructure to support local aquaculture and livestock production

- Objectives
1. Work with other departments and divisions to secure resources including leaseholds, water, processing facilities, etc. required to maintain and promote the local production of aquaculture and livestock.
 2. Work with Federal agencies and other divisions to secure CIP funds for the development and redevelopment of infrastructure critical to the survival and expansion of the aquaculture and livestock industries.
 3. Work with other divisions to amend rules to allow the aquaculture and livestock industries to obtain leases, water and other resources at rates which these industries can bear. Assist in developing financing options that would allow the industries to develop and operate competitively and in a long term sustainable manner.

ACT 100, SLH 1999
ACTION PLAN
Fiscal Year 2018 Update

Division/Branch: Animal Industry, Rabies Quarantine Branch

Purpose: To protect animal and public health by reducing the likelihood that rabies virus will be introduced into the State and monitoring animal entries for alien pests that may carry human or animal diseases.

Goal 1: Improve, make easier and simplify the customer registration process while improving efficiency of program to register pet owners and collect fees.

- Objective: Provide web based capability for owners to register, pay fees and check pet qualification by 2017-2018 (in progress).
1. Select vendor to design enhancements for interface by mid-2016 if funds available (completed).
 2. Purchase hardware by mid-2018 if funds available (in progress).
 3. Vendor to install and validate enhancement by late CY 2017 to early 2018.
- Goal 2: Continually apply new information on rabies virus and public policy to analyze the quarantine program and respond to needs of users and the general public.
- Objective: Review rules and regulations on an ongoing basis to be consistent with new rabies scientific research findings and other anticipated initiatives.
1. Amend Rules with respect to program modifications 2016 to 2017 (in progress).
- Goal 3: Improve Facility.
- Objective: Repair & renovate existing kennel structures.
1. Solicit bids and execute contract for repair and renovation of kennel structures mid 2016 (completed, no bids received).
 2. Request renovation CIP in FY 19 budget.
 3. Select Vendor early FY 2019 and begin renovations as funds permit
- Objective: Upgrade sewage pretreatment plant.
1. Validate flow through existing system 2018 (in progress).
 2. Request CIP funding for upgrades design and construction 2017 (completed).
 3. Commence upgrades as funds allow CY 2017-18 (in progress, DAGS project).

Division/Branch: Plant Industry Division

Purpose: To protect Hawaii's agricultural industries, environment, and general public by preventing the introduction and establishment of harmful insects, mites, diseases, illegal non-domestic animals, and other pests; to conduct effective plant pest control activities; to enhance agricultural productivity and agribusiness development by facilitating export shipments of agricultural and horticultural materials and products; to ensure the effective, efficient, and safe use of pesticides and to minimize their possible adverse effects to humans and the environment while considering the benefits of their use.

Goal 1: To protect Hawaii's agricultural industries, natural resources, and the public from the entry and establishment of harmful insects, diseases, illegal non-domestic animals, and other injurious pests.

Objective: To reduce the entry of invasive species by conducting pre-entry and at entry inspections and other prevention activities at various ports-of-entry and eradication efforts, post-entry, where possible.

1. Stabilize the existing level of funding for Plant Quarantine inspectors and programs and aggressively seek additional federal funding support to address these needs. The US Department of the Interior grants to support the Hawaii Detector Dog Program and Brown Tree Snake Interdiction program. Completion Date: Ongoing; Detector dog program re-established in 2017.
2. Establish Biosecurity Inspection Facilities at airports and sea ports statewide for the inspection of agricultural products and other regulated commodities by appropriate Quarantine Programs (State Quarantine, USDA, APHIS, Plant Protection and Quarantine, and Homeland Security, Customs and Border Protection). Completion date: Ongoing. 5 transitional facilities established in 2017; one more coming on-line.
3. Increase the resources necessary to effectively mitigate increased pest pressure from global trade by collaborating with federal and state agencies and encouraging public-private partnerships. Ongoing examples include the Rapid Ohia Death (ROD) working group and implementing the Invasive Species Hawaii Prevention Partnership (ISHIPP) and the establishment of the Hawaii Invasive Species Authority. Completion date: On-going.
4. Expand the existing nursery certification program by developing a compliance program for interisland movement of nursery stock and by entering into new compliance agreements with other states and/or countries to reduce risk of pest movement between islands,

states and foreign countries on nursery stock. On-going examples include the joint development and collaboration with the Oregon Department of Agriculture and the Washington Department of Agriculture to implement best management practices with Christmas tree growers and shippers, and the development and implementation of the compliance program for ROD to allow the shipping of potted plants in soil as a planting media. Completion Date: On-going.

5. Expand the electronic transporter manifest system and electronic importer manifest system in order to more efficiently schedule inspections and be able to prioritize and inspect high- and moderate- risk commodities. Create a web-based data entry system to facilitate the standardization of data and information that is submitted electronically. Completion date: 2020.

Goal 2: To conduct effective plant pest control programs as a post-entry initiative.

Objective: To contain, control and/or eradicate plant pests that enter the state by using chemical and mechanical means and/or biocontrol strategies to mitigate risks to agriculture and the natural resources of the state.

1. Prevent distribution of noxious weed seeds by examining seed shipments originating from foreign and domestic seed sources for exotic seeds, such as fireweed, field bindweed, and quack grass. Completion date: On-going.
2. Conduct statewide pest detection and monitoring to delineate infestations of regulated pests for control or eradication. Determine statewide distribution of noxious weeds (e.g., fireweed and fountain grass), plant diseases (e.g., banana bunchy top virus and papaya ringspot virus), insect pests (e.g., little fire ant) and coqui frogs. Utilize GIS technology to map results for use in planning and communication with decision makers such as USDA APHIS Cooperative Agricultural Pest Survey program (CAPS) and other surveys conducted by Plant Pest Control staff for plant pests. Plant Quarantine Branch pest detection and monitoring of all pests within certified nurseries statewide. Completion date: On-going.
3. Increase invasive species monitoring, detection and diagnostic activities to detect, identify, delineate, and eradicate incipient infestations of invasive alien species, such as the red imported fire ant, Africanized honey bee, coconut rhinoceros beetle, Brown Tree Snake and many other serious pests not yet found in Hawaii. Seek extension of present federal funding support and new funding to increase personnel, equipment, and supplies necessary to implement this action. Completion Date: On-going.

4. Seek federal funding such as CAPS and private sector funding to supplement operating funds to conduct foreign explorations to search for and introduce potential biocontrol agents of targeted weeds and plant pests, such as fountain grass, coffee berry borer, fire weed and little fire ant. Completion Date: On-going.
5. Make maximum use of personnel temporarily assigned to the Branch from Federal and other State agencies to assist with pest detection and biocontrol projects, respectively. Completion Date: On-going.
6. Develop an Insect Diagnostic Identification Network for Hawaii and the American Pacific among the land grant universities and departments of agriculture in Hawaii, Guam, American Samoa, Commonwealth of the Northern Mariana Islands (CNMI), and Federated States of Micronesia (FSM). Funding will be sought from Research, Education and Extension Service (UH-CREES). USDA via the University of Hawaii, Cooperative, PIDDIRS – Pacific Island Distance Diagnostics and Recommendation System and WPDN- Western Plant Diagnostic Network. Completion Date: On-going.
7. Expand the recently established apiary program to assist Hawaii's queen bee rearing industry through certification, registration, education and development of pest management techniques appropriate to Hawaii conditions. The program also works with all beekeepers to ensure adequate pollination of locally grown crops, and assist and promote beekeeping in Hawaii through training and outreach on effective tropical beekeeping techniques and pest management. Number of outreach events and swarm traps retrieved continues to increase. Collaborate with UH-CTAHR, Bishop Museum, and other organizations to leverage resources needed to expand the program. Completion Date: on-going.
8. Upgrade biocontrol facilities and/or investigate the potential for building new modernized facilities to increase the biocontrol program's capabilities to respond to new emerging and established pests. Budget requests have been submitted at the Legislature. Initiated assessments of existing facilities in other states and countries, establishing collaborative relationships with their program managers and investigating options for improving the Department's biocontrol facilities. Completion date: On-going.

Goal 3: To enhance agricultural productivity and agribusiness development by facilitating export shipments of agricultural and horticultural materials and products.

Objective: To provide opportunities for Hawaii's fresh fruits and vegetables and nursery products to reach new markets.

1. Support the establishment of new markets for Hawaii grown fresh agricultural products, including, initiatives to have post-harvest quarantine treatment facilities in Hawaii available for use by all growers wishing to move products to export markets currently restricted as a result of state and/or federal quarantine prohibitions; and collaborate with federal agencies to expedite the export of new products. The ban on exporting avocados from Hawaii to the continental US by the USDA-APHIS was lifted in 2013. Local growers are transitioning to the Sharwil, the only variety allowed for export to certain states. In 2016, 1,000 avocados were shipped from Hawaii to Minnesota. Completion Date: Ongoing.

Goal 4: To minimize pesticide's possible adverse effects on humans and the environment.

Objective: To prevent injury from pesticides by reducing the number of highly toxic exposures requiring immediate medical care by 50% by the end of FY 2014.

1. Evaluate the effectiveness of pesticide poisoning prevention activities to reduce pesticide illnesses among children under 6 years old.

Dr. Al Bronstein with the Hawaii Department of Health has revived the "Pesticide Poisoning Prevention Services for Households" program. HDOA and DOH are collaborating on this program. Several training exercises have been developed for medical, emergency, and regulatory staff. Targeted completion date: 2018 for tabletop exercises with multiple agency involvement: HDOA, HDOH, DOE, Fire Department, EMTs, and other first responders.

2. Conduct at least thirty (30) fumigation use inspections annually to assure the use of fumigants by commercial pest control operators in Hawaii meet all health and safety requirements and directions for use mandated by the U.S. Environmental Protection Agency.

Increasing emphasis has been placed on responding to pesticide odor/drift complaint investigations, agriculture use inspections and Market Place Surveillance (MSI) inspections. Going forward, the Pesticides Branch will refocus on conducting fumigation inspections. Completion Date: On-going.

3. Conduct 40 inspections of agricultural employers to assure employers are in compliance with the EPA Worker Protection Standard. Emphasis will be placed on farms using restricted-use pesticides, farms with a past enforcement action (either a warning notice or civil penalty), crops requiring worker entry soon after pesticides have been applied, such as cut flowers, pineapples, and seed corn. Completion Date: On-going.

Due to changes in the Worker Protection Standard (WPS) effective in 2017, more emphasis is being placed on conducting WPS Tier I inspections. The hiring of new inspectors is a high departmental priority and will help meet the targeted number of inspections.

4. Develop a pesticide case database to track compliance rate, repeat violators, and costs per enforcement action.

INFOR integrated database has been developed and is currently being deployed for enforcement and education efforts by the Pesticides Branch. A completed database will be able to report on items listed, with ongoing updates as needed. The Good Neighbor Program has grown to include monthly Restricted Pesticide Use by seed companies on the islands of Kauai, Oahu, and Maui County. Reporting has been formatted into EXCEL spreadsheets, submitted to HDOA Pesticides Branch by the 15th of the month after the spraying of Restricted Use Pesticides and put into a database maintained by the Pesticides Branch. RUP application data is posted on the HDOA website in the Pesticides Branch section for public perusal. Completion date: 2017.

5. Increase pesticide education outreach to applicators of pesticides to reduce the potential for pesticide misuse affecting human health and the environment.

Environmental Health Specialist (EHS) education/certification staff continue to conduct workshops and one-on-one consultations to such target groups including farmers, nurserymen, landscapers, pest control operators and state agencies (Department of Transportation; highways and harbor staff and Department of Education; head custodians and cafeteria managers, and County agencies; roadside spray crews and managers).

Workshop topics include pesticide safety, label comprehension, Worker Protection Standard (WPS) training and compliance, concepts of Integrated Pest Management (IPM) and the use of proper personal protection equipment. Completion date: On-going.

Objective: To manage pesticides use to minimize environmental effects and maintain important pesticides uses. To have no increase in the number of drinking water sources having a pesticide residue level in excess of 10% of a regulatory limit.

1. Fund research to enable informed decision-making on pesticides potential to leach into the water supply.

The Department is partnering with University of Hawaii Water Resources Research Center (WRRC) to conduct groundwater

reviews for products new to the state of Hawaii and existing products that may pose potential groundwater leaching hazard. Groundwater reviews involve evaluation of groundwater data developed by the registrant and determining leachability in Hawaii-specific soils, utilizing GIS-based leaching model. Periodically, field studies are conducted, in collaboration with WRRC, to evaluate leachability of selected compounds as affected by soil and hydrologic conditions. Completion Date: On-going

Objective: To enhance the pesticide regulatory program through effective program management and data collection.

1. To achieve a 90% compliance rate with pesticide distribution and use requirements.

All sales of Restricted Use Pesticides (RUPs) are reported to the Pesticides Branch on a monthly basis by pesticide dealers. Inspectors conduct various inspection types with applicators/distributors of pesticides to determine compliance with label directions or registration/licensing protocol. Completion date: On-going.

2. To identify activity areas not achieving 90% compliance, identify reason for non-compliance and determine actions recommended to attain better compliance rates.

Areas identified for non-compliance include improper site of application, crop not on label, insufficient personal protective equipment worn, improper dilution rate of application, and off target drift. Inspections also identify other suspected violations with pesticide labels or violations of registration/licensing protocols. Enforcement actions include issuance of advisory citations, warning notices, and notice of violations resulting in civil penalties. Activities conducted to attain better compliance rates include, follow up inspection to previously issued enforcement action (compliance verification) and outreach by the education/certification staff to provide guidance or additional training to violators. Completion Date: On-going.

3. Maintain a data base of Restricted Use Pesticide (RUP) sales, to better inform the general public of RUP sold in the State of Hawaii.

Restricted Use Pesticide sales records are regularly submitted by RUP dealers to the Pesticides Branch for entry into a database.

The Department is in the process of developing an updated system to house this data. This new database will have the capability to generate reports based on multiple parameters, such as date range, company, certified applicator, and product. Data accessible to the public will be limited to that which is releasable under Chapter 92F, Hawaii Revised Statutes.

ACT 100, SLH 1999
ACTION PLAN
Fiscal Year 2018 Update

Division/Branch: Quality Assurance Division

Purpose: To ensure food safety and quality in agricultural products, measurement accuracy and fairness in the marketplace.

Goal 1: Stabilize workforce and improve efficiency within the Division.

Objective: Restore positions lost due to attrition and fulfill legislative mandates.
Anticipated completion date: June 2018

1. Create and fill additional positions to restore Division personnel count.
2. Rewrite job descriptions to provide statewide coverage.
3. Develop training program for new inspectors

Goal 2: Improve focus on delivering quality assurance services.

Objective: Look after the interests of the consumers and businesses; assuring accuracy of measurement, packaging, labeling and pricing of commercial goods to prevent unfair practices. Completion date: On-going.

1. Provide technical assistance and traceability of measurement standards.
2. Conduct tests to determine accuracy of measuring devices and packaged goods; and compliance with labeling and pricing requirements.
3. Licensing of dealers and assure proof of ownership of agricultural commodities to deter agricultural theft.
4. Registration of measuring devices to ensure conformance with laws regulating measuring devices.

5. Conduct certification of agricultural commodities for genetic purity, quality condition and origin.
6. Conduct audits to assure producers are following good agricultural and good handling practices.
7. Provide assistance for agricultural producers in meeting requirements of the U.S. Food and Drug Administration's Food Safety Modernization Act.