

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

Submitted to the 2009 Legislature

December 2008

ACT 100, SLH 1999  
Department Overview  
2008 Update

**Mission Statement**

To develop and promote agriculture as a significant and respected driver of Hawaii's economy.

**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**

- Value of diversified agriculture (farm cash receipts for everything except sugarcane and pineapple in thousands of dollars)

<u>FY 2010</u>	<u>FY 2011</u>
524,000	537,000

**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 achieves stability within the State milk industry of wholesome milk for the consuming public.
- Collects and disseminates statistical data on agricultural production and markets, and supports funding for research on various agricultural commodities.

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Division/Branch: Administrative Services Office

Purpose: To enhance the effectiveness and efficiency of the department by providing staff support services, and 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: December 31, 2009

1. Initiate lighting and window tinting operating projects and retro-commissioning CIP projects.
2. Work with employees to practice energy and water conservation measures, and monitor usage/savings.
3. Replace air conditioning systems and units with energy efficient ones.
4. Promote car-pooling and bicycling.
5. Establish energy efficiency working groups.
6. Establish maximum allowable air conditioning settings by building and by season.

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: June 30, 2009

1. Establish a priority listing of capital improvement work for the various department facilities in order to utilize approximately \$500,000 in general obligation bond funds appropriated in FY09.
2. Initiate various capital improvement projects with assistance of the DAGS Public Works and Central Services Divisions.
3. Prepare biennium budget to request approximately \$500,000 in general obligation bond funds for FY10 and FY 11 for additional capital improvement work.

Objective: To provide a safe working environment for department employees by complying with Occupational Safety and Health Administration (OSHA) requirements. Completion date: December 31, 2009

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. 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: December 31, 2009.

1. Develop and implement a language access reporting tool to identify the department's LEP customers, frequency they require interpreter services, types of services LEP customers are provided, types of non-English languages encountered when servicing LEP customers. Submit quarterly reports to the Office of Language Access.
2. Continually update the listing of departmental employees who are skilled in a non-English language and are willing to volunteer to provide interpreter services.
3. Compile and disseminate listing of interpreters/translators and their costs for program personnel to use in providing services to their LEP customers.
4. Compile and complete survey to identify vital documents and the need for translation into a foreign language. Submit completed survey to the Office of Language Access.
5. Compile and complete survey to identify State public contact positions to address the bilingual hiring requirement of Hawaii's Language Access Law.

Goal 4: To replace network file servers that will not be covered under maintenance support.

Objective: To ensure users have continued access to network files, applications and resources. Timeframe: December 31, 2009.

1. Install new network file servers and transfer existing files and resource drivers.
2. Schedule upgrade to minimize impact to users.

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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: Operate and maintain the Waiahole Water System 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 its Decision and Order as a result of the Waiahole combined contested case; provide project updates to the CWRM upon request.
2. On-going efforts to monitor ditch flow and pinpoint potential areas of excessive system loss
3. On-going efforts to patch and repair broken ditch lining in selected sections of the water system.
4. Coordinate with the Agricultural Resource Management Division of the Hawaii Department of Agriculture (HDOA) and the U.S. Army Corp. of Engineers on the lining of reservoirs 155 and 225; conduct slope stability studies by June 2009 and submit dam modification permits by December 2009.
5. Work with the Kunia Water Users Cooperative to complete a water shortage plan by June 2009.
6. Prepare an Emergency Action Plan and an O&M manual for Reservoir 155 by June 2009.
7. Address various concerns stated in Reservoir 155's Phase I report by December 2009.

Objective: Effectively manage and maintain the Kekaha agricultural land and infrastructure set aside to ADC for diversified agricultural activities.

1. On-going efforts to manage land licenses and initiate rent renegotiation with licensees after the first year of execution of the licenses.
2. Continue to evaluate and issue land licenses or revocable permits to qualified applicants on vacant lands on a case-by-case basis.



3. On-going efforts to coordinate with the Kekaha Agriculture Association on the operation and maintenance of the irrigation, drainage, and electrical systems; coordinate with the Kauai county civil defense office on flooding mitigation efforts during severe weather conditions.
4. As a contractor of the U.S. Navy, continue to direct all work pertaining to the operation and maintenance of the pump stations, drainage canals, and the National Pollutants Discharge Elimination System (NPDES) permit, at the Pacific Missile Range Facility. The work includes sub-contracting of work and coordinating activities among contractors, the Kekaha Agriculture Association (Coop), and the U.S. Navy. A new contract extends ADC's involvement to September 2013.
5. Work with HDOA on the engineering design plan of the various ADC managed dams and reservoir improvements, to be completed by December 2009.
6. Continue to work with the College of Tropical Agriculture and Human Resources (CTAHR) and the Coop on actions to handle piggery operation waste, to be completed by December 2010.
7. Participate in the development of a master plan with the Coop; Phase I of the plan to be developed by December 2009.

Objective: Coordinate and facilitate the transfer of approximately 6,200 acres of agricultural lands in the Hanamaulu and Wailua areas on Kauai from DLNR to ADC.

1. On-going efforts to work with water users, farmers, ranchers, and the Department of Land and Natural Resources (DLNR) staff on the various issues relating to the transition of the land from DLNR to ADC.

Objective: Assist with the operation and maintenance of the East Kauai irrigation system.

1. On-going efforts to work with the East Kauai Water Users Cooperative (EKWUC) for the operation and maintenance of the irrigation system.
2. Continue to monitor progress of grants awarded to the EKWUC for the repair and maintenance of the irrigation system.

Objective: Support the protection of agricultural lands by purchasing an agricultural conservation easement in Kunia, Oahu, to be funded by the United States Department of Agriculture's (USDA) Farm and Ranch Land Protection Program (FRPP) and the state DLNR's Legacy Land Conservation Program (LLCP).

1. Continue to work on and to coordinate activities with the various federal and state agencies relating to the closing of the

- agricultural easement purchase by September 2009.
2. Conduct annual inspection of the agricultural easement.

Objective: Coordinate and facilitate the transfer of the various irrigation systems in the Kau district (Hawaii) from the DLNR to ADC.

1. Continue to work with farmers and ranchers in the Kau district to identify and locate the relevant water tunnels by December 2009.
2. Prepare map of the area by December 2010 and work with DLNR Land Division on the transfer of the various tunnels from DLNR to ADC by December 2011.

Objective: Evaluate whether the state (ADC) should take over the privately owned Wahiawa Irrigation System, including Lake Wilson.

1. Participate in on-going discussions with Dole Food Company regarding the water system.
2. Present findings to the ADC board, the legislature, and the Governor when a reasonable offer is on the table.

Objective: Acquire, in conjunction with various partners, the Galbraith Estate land on Oahu pursuant to Act 234, SLH 2008.

1. Work with the various partners and the Trust for Public Land, the lead for this project, on the submittal of an offer to the trustees.
2. Participate in the negotiation of the purchase.
3. Work on the release of funding and real estate transaction activities within the state system.

Goal 2: Initiate development of facilities and provide support as necessary for successful diversified agriculture.

Objective: Assist Kauai papaya farmers to reopen the Kauai Tropical Fruit Disinfestation Facility.

1. Assist and coordinate certification of the facility by December 2009.
2. Issue a sub-lease to the Kauai Farm Bureau Development Corporation for use of the facility upon obtaining approval from the landowner (University of Hawaii).
3. Monitor progress of a grant awarded to the Kauai Economic Opportunity, Inc. to provide training to papaya farmers and disinfestation facility workers by June 2009.

Goal 3: Provide solutions to certain bottleneck issues facing the agriculture industry.

Objective: Support the development of a tea industry on the Big Island.

1. Monitor progress of the continuous work at the UH Mealani Experimental Station relating to the development of the tea industry and receive final report and approve by December 2010.

Objective: Conduct an animal feed demonstration project in Hilo with assistance from CTAHR extension personnel.

1. Through CTAHR extension service, conduct production trial runs of the feed and animal feed studies by October 2009.
2. Analyze results and submit final report by December 2009.

Objective: Provide the design of an animal waste stream management system (bio-digester) with assistance from CTAHR extension personnel from Maui.

1. Through CTAHR extension service, contract design engineering consultants and complete final report by June 2010.

Objective: Conduct a cattle browse feeding demonstration project with assistance from CTAHR extension personnel.

1. Through CTAHR extension service, bring expert from Australia to conduct a browse feeding workshop by June 2009.
2. Sponsor a study tour to Australia for ranchers by December 2009.

Objective: Conduct a demonstration project on the use of a mobile slaughter house for cattle slaughtering.

1. Obtain approval to purchase equipment by January 2009.
2. Procure a mobile slaughter house unit from a mainland manufacturer by October 2009.
3. Obtain necessary permits to operate the unit by March 2010.
4. Conduct trial runs on Oahu, Maui and Kauai by December 2010.
5. Report to the ADC board on feasibility of the unit by March 2011.

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Division/Branch: Aquaculture Development Program

Purpose: Establish Hawaii as an important Pacific Region site for the commercial production of a wide variety of aquaculture foods and other high-valued products for local consumption and export. To develop a sustainable and profitable commercial aquaculture industry by encouraging a diversity of products, improving management practices and technologies, and providing direct assistance with regulations, disease, and marketing and new business development.

Overall Industry Goal:

Increase Hawaii aquabusiness, as measured by farm gate value of production, from the 2003 value of \$27.65M to \$30M by December 2010. Despite the challenging economic environment, the Aquaculture Development Program (ADP) will remain focused on its core priorities of 1) Aquatic Health Management and Research, 2) New Business Development and Permit Facilitation, 3) Marketing and Promotion, 4) Planning and Coordination, and 5) Product Extension.

Aquatic Health Management and Research

Goal 1: Expand the aquatic animal broodstock and seedstock products segment of the aquaculture industry. This area requires dedicated consistent funding for laboratory supplies and equipment upgrades. ADP will utilize a special account to support this area. Research programs will be funded by grants obtained by both collaborating with industry leaders and utilizing ADP in stand alone projects. Additional revenue will be created by charging for services provided by the Health Management staff.

Objective: Develop the aquatic animal broodstock and seedstock products segment (2003 estimated value \$1M) to a \$3M industry by June 2009.

1. In cooperation with Plant Quarantine, review and update health status requirements and permit applications for imported species to align with current OIE (World Organization for Animal Health) standards for finfish, crustacean and mollusc diseases by June 2010.
2. Expand the aquatic animal health surveillance program beyond shrimp and encourage a voluntary surveillance program targeting OIE listed diseases for emerging aquaculture species such as, abalone, hard clams, koi, seahorses, moi, kahala and others to be developed by 2011 (utilizing the Halawa Diagnostic Laboratory).

Objective: Improve the Disease and Health Management Program capabilities.

1. Develop molecular diagnostics capabilities in support of health management issues and strategies on an on-going basis.
2. Continue to modify and upgrade the Anuenue Fisheries Research Center (AFRC)/ADP-DP aquatic species quarantine area to allow greater and more effective use for secondary quarantine of aquatic species, grow-out research and demonstration, and education and training workshops.

#### New Business Development and Permit Facilitation

Goal 1: Focus on the development of commercial open ocean aquaculture farming.

Objective: Develop open ocean aquaculture, estimated 2003 value of \$1M (farm gate value) into a \$5M industry by June 2011.

1. Assist the offshore industry in identifying prime, environmentally acceptable sites for open ocean aquaculture in State marine waters around the main Hawaiian Islands, on an on-going basis.
2. Facilitate continuation and expansion of Federal/State sponsored offshore aquaculture research on species, systems, environmental impacts and economic benefits and potential leases should the National Offshore Aquaculture Act of 2007 pass Congress.

#### Marketing and Promotion

Goal 1: Assist farmers in selling their products to specific segments of both local and export seafood markets.

Objective: Increase local and export awareness and demand for aquaculture seafood products.

1. Develop and implement an industry marketing program with a goal to educate the consumers regarding the aquaculture as the sustainable seafood solution. Due to lack of funds, web marketing will be developed with print channels utilized as budget permits.
2. Participate with industry in local food and seafood promotional events, e.g., Farm Fair, Hawaii Lodging, Hospitality and Foodservice Expo) and various media opportunities to raise awareness of locally farmed products.
3. Incorporate interested aquaculture companies into the Department's Buy Fresh Buy Local and Seals of Quality program on an on-going basis.
4. Collect and disseminate information on state/federal product export assistance programs (e.g., WUSATA) and marketing grants to selected farms with exportable products on an on-going basis.

5. Work with selected industry segments (e.g., SPF shrimp, ornamentals) to develop generic promotional materials (e.g., photography and brochures) or support out-of-state trade show to promote product export.

## Planning and Coordination

Goal 1: Develop and implement state aquaculture plans and policies by providing review and input into plans of others, coordinating statewide activities as a lead agency, and representing the State at the Federal and international levels.

Objective: Focus on the development of greater options for open ocean aquaculture.

1. Develop capabilities to manage and improve GIS-based site location assistance capabilities for land and ocean based farming, allowing forecasting of data by June 2010.
2. Encourage establishment of matching funds for a research program to solve the first feeding of marine finfish larvae, which is a severe problem for developing new aquaculture finfish species and marine ornamentals. Funds would be directed and used to match those of the Center for Tropical and Subtropical Aquaculture.
3. Determine research priorities on critical problems for culturing new marine finfish species with high market value, for working out problems on live feeds and first feeding of the larval stages, and for disease management issues with Investigative New Animal Drug (INAD) treatment and program via the Center for Tropical and Subtropical Aquaculture funding and through other means.

Objective: Develop greater options for individuals and firms looking to establish and build aquaculture operations.

1. Advise individuals seeking lands suitable for aquaculture on how to identify and acquire/lease State and private sector agricultural lands and water resources and their development potential.
2. Provide advice on the importation of exotic species and on the potential suitability of desired culture species prior to any farmer action.
3. Advise and provide health management and marketing direction for individuals or firms seeking help.

## Product Extension

Goal 1: Provide technical information and "hands on" assistance to farmers to improve production, test new species, conduct technical workshops and cooperative projects, and support aquaculture in secondary schools. This area is the most severely impacted by the potential budget cuts, ADP annually funded 30% of aquaculture extension services provided by the UH Sea Grant College which will need to be replaced with alternate sources.

Objective: Support extension activities despite lack of direct funding to UH Sea Grant College.

1. Collaborate with Sea Grant personnel to identify and obtain alternate sources of funding for extension services.
2. Where possible, provide workshops using ADP staff to support extension activities.

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Division/Branch: Agricultural Loan Division

Purpose: The objective of the State Agricultural Loan Division is to foster economic development 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 increase private lenders' involvement in joint loans. The Division's long-term target/goal is to increase its overall portfolio to \$30,000,000 by 2015.

Objective: Approve 30-35 loans annually with a dollar amount of \$4,500,000 in State funds. The Division has been experiencing strong demand for loans and in particular renewable energy loans which were authorized by Act 209. The Division anticipates the strong demand to continue as the agriculture industry deals with the higher energy costs. The current economic climate has led to a tightening of credit by the banking industry. To support the agriculture industry, the Division will continue to provide access to financing at favorable rates.

1. Continue outreach and marketing efforts to stimulate loan activities by meeting with a minimum of 25 Bank representatives. The outreach will educate lenders about the State program and encourage participation or guaranty loans which reduce the private lenders risk and exposure. The private lenders involvement increases the amount of funds available to the industry and stretches limited State funding.
2. Continue to meet with farmers to keep them aware of existing programs and the new energy program offered by the Division.
3. Conduct outreach and attend a minimum of 3 commodity group or industry association meetings.

Objective: The Division's objective is to expand the agriculture and aquaculture industries. The targets include the creation or preservation of 100 agricultural/aquacultural jobs and to expand or preserve 250 acres of agricultural lands annually. 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 self-sufficiency, as well as contributing to reducing invasive species introduction to Hawaii. Although the Division has creation or retention of jobs, agricultural acreage and annual income as targets these will not be factors in deciding which loan will be funded or approved.

1. Retain/create agricultural jobs through loans directly or in cooperation with private lenders.
2. Preserve or expand use of agricultural lands through loans directly or in cooperation with private lenders.
3. Generate farm income through loans directly or in cooperation with private lenders.
4. Conduct field visits to determine if there was actual growth in acreage or increase in the number of farm employees after the loan was disbursed.
5. Tabulate and monitor acreage and employment data collected.
6. Develop and pass legislation to make the agriculture and aquaculture loan programs equitable.

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 industry.

Objective: Step up collection efforts, revise delinquency calculations, increase monitoring of delinquent and current accounts. Collection efforts are important, as funds collected will fund future loans. The Division anticipates an increase in loan delinquencies as the State's economy slows. The Division plans to increase monitoring of both delinquent and current accounts to discover problems early and work with borrowers to help reduce delinquencies. However, as the lender of last resort, the Division's primary mission is to assist agriculture/aquaculture enterprises balancing collection efforts with the need to maintain the industries.

1. Revise the delinquency calculation to a more standard measure of delinquency. The Division has been calculating its delinquency rate as only the delinquent principal amount on loans divided by the entire loan portfolio. The private lenders generally calculate their delinquent rate by taking the entire principal amount of a delinquent loan and dividing it by their entire loan portfolio. While both are valid delinquent calculations of delinquency rates it made comparisons with private lenders delinquency rates inconsistent as they were calculated using

different measures. Using the old calculation methodology, the delinquency rate as of July 31, 2008 would be 16.33 % and using the new calculation methodology, the rate would be 18.51%. The new calculation is the more standard way of calculating delinquency, is more conservative and allows direct comparisons with private lenders delinquency rates. The Division's goal is to keep delinquencies under 20% of the total loan volume.

2. Continue monitoring of fund balances, delinquent accounts and the overall health of the portfolio and the agriculture industry.
3. To monitor accounts the Division has set a target of 850 servicing contacts with the program's borrowers.

**Goal 3:** Improve the Division's accounting system by being in compliance with generally accepted accounting principles and improve the Divisions internal reporting systems.

**Objective:** To bring the Division's accounting system in compliance with generally accepted accounting principles (GAAP) and addressing concerns brought up by the Department's auditors.

1. Reorganize the Division to ensure adequate qualified personnel to operate the loan accounting system with proper safeguards/oversights in place and appropriate separation of duties.
2. Work with the Department's contracted CPA firm to review the Division's accounting procedures manual and make the necessary updates for compliance with GAAP.

**Objective:** To computerize the Division's loan officer reports to improve communication and increase efficiency throughout the Division.

1. Computerize logs of inquirers to allow faster referral to appropriate loan officers, easier access to pertinent applicant information and a record of follow up by the loan officer.
2. Computerize loan servicing reports, delinquency logs and plans to provide better management of the Division.

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Division/Branch: Agricultural Development Division

**Purpose:** The Agricultural Development Division promotes the economic viability of commercial agriculture in Hawaii by supporting agricultural research, 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 grants) to offset diminishing state general funds for HDOA agricultural marketing, research and development efforts.

**Objective:** Coordinate the search, proposal development, submission and administration of non-state funds (federal grants) within programs and with external partners.

1. Train one additional staff member to seek grant funding sources and to write grant proposals for possible funding.
2. Train one additional staff member to administer grants awarded and to be familiar with the state procurement system and administrative rules.
3. Become more pro-active and 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 agriculture research program, the matching marketing funds program and others (such as the grant-in-aid program to HFBF and the Livestock Feed Reimbursement Program).

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

1. Initiate a work plan for each program with project duration, identified tasks, timeline and a Gantt chart to illustrate the process.
2. Funding notices should be completed by the first quarter, and the selection process, with awards, should be completed by the second quarter, unless dictated otherwise (e.g. budget execution policy).
3. Maintain a database system to monitor the various grant programs to ensure that reporting and invoicing requirements are submitted in a timely manner.

4. 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: Provide relevant reports, analyses and other pertinent information at specific time intervals to document progress and proper execution of the various programs.

1. Provide summarized progress reports by the end of the second quarter to support legislative inquiries.
2. Update reports by the end of the fiscal year to support departmental inquiries.
3. Final reports due upon completion of the programs' established requirements.

### Market Development Branch

Goal 1: Promote, develop and expand market opportunities for Hawaii agricultural and value-added producers in local, domestic and international markets with targeted sales of \$3.0 million in fiscal year 2009 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. Leverage information from the Market Analysis and News Branch and Hawaii Agricultural Statistics Branch for local production and market potential.
  - a. Trade Publications (print/online).
  - b. Internet to monitor local, national and international trends.
  - c. Local associations – initiate and maintain close contact with local trade groups to understand where the local markets are moving.
  - d. Trade Shows –attend trade shows to assess their potential for Hawaii company attendance and to conduct market research.
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 five to seven 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, we don't 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 five to seven agricultural industries (or groups) for action and gauge success based on progression to next phase of life cycle.
6. The procedure will be repeated annually for the next five years.

**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. Facilitate development of farmers' markets, e.g. Kapiolani Community College, which market quality fresh local products, that provide additional revenue channels for local producers. Promote economic contributions of these farmers' markets statewide by providing relevant information on the internet, at trade shows and in media articles.
2. Coordinate or participate with producers in at least three 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 E Malama `Aina Festival in Hilo, et al.
3. Coordinate or participate with producers in at least two Mainland trade shows and retail store promotions. These may include the Society of American Florists Expo; the Tropical Plant Industry Expo; the Super Floral Expo; the Produce Marketing Association Expo; the Specialty Coffee Association of America Trade Show; the Winter Fancy 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.
4. Coordinate or participate with producers in at least one foreign trade activity (including trade missions and reverse trade missions) to and from selected markets. These may include the Taiwan Sensory Perception Project for process products (with Oregon Department of Agriculture), the Japan Food and Beverage Exhibition (FoodEx) and the Hong Kong Food Expo (HOFEX). Provide option to facilitate freight consolidation to lower trade show material freight costs and improve logistic control.
5. Promote upgraded Hawaii agricultural producers' database on MDB's website to facilitate sales arising from trade leads and inquiries.
6. Performance measures for activities stated above will include the number of trade leads generated per event, expected annual sales generated after the event, floor sales executed at the event, sales

generated six months after the event, return-on-investment (ROI) on the event, and number of website hits over time.

7. 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. Farmers' market reporting will be in conjunction with the organization managing the market and will include gross sales, number of vendors and public attendance.

**Objective:** Continue the matching marketing fund program request for proposal (RFP) process to attract a larger pool of applicants and to ensure greater effectiveness, transparency and accountability.

1. Give priority to 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. For example, the expected return on investment (ROI) for tradeshow is on average, 15 to 1.
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 2009 is four trade associations.

**Goal 2:** 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. Promote new investment 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, and conferences.
2. Seek new funding sources and partners to establish a statewide database, website, signage protocol and promotion of ag-tourism in the next five years.
3. Participate in the development of a statewide ag-tourism association, which will develop standards and legal framework for business operations. Topics for clarification will include zoning, public safety, signage, and ADA access.

**Goal 3:** Maintain marketing campaigns that educate the public about local agriculture producers and products and promote high-quality producers.

**Objective:** Expand 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. Improve 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 at least 45 participants statewide by May 31, 2009.
4. Collaborate with 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: Maintain marketing programs to emphasize the Buy Fresh, Buy Local concept.

1. Continue public education efforts 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. Expand participation in the Buy Fresh, Buy Local marketing campaign by Hawaii farmers.
3. Extend participation in the program to local retailers to utilize point-of-purchase displays to educate consumers about buying local.
4. Continue to evaluate current marketing strategies and explore new marketing opportunities.

#### Hawaii Agriculture Statistics and Market Analysis and News

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

Objective: Provide relevant agricultural statistics reports and other pertinent data to support overall agricultural activities in the state.

1. Collect, compile and publish 125 crop and livestock reports in fiscal year 2009.
2. Release published crop and livestock reports to 50,000 users annually in the next five years.
3. Meet scheduled release time and date of statistical reports pre-specified to data users 99 percent of the time.
4. Fulfill the number of requests for information, 99 percent of the time.
5. Publish the Statistics of Hawaii Agriculture 2007 by January 2009, and update the report called Hawaii Agricultural Exports.
6. Preparations to compile, analyze, and publish the 2007 Census of Agriculture.

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. Train statisticians in commodity and industry analysis. One staff statistician will be participating in this exercise in fiscal year 2009.
3. Capture and evaluate data from alternate sources to verify or support survey results.
4. Develop models using alternative sources of data in conjunction with survey data to produce official estimates. For fiscal year 2009, the target is completion of two to three models.
5. 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 2009.
3. Develop alternate data release procedures on an ongoing basis: – e.g. e-mail, facsimile, websites, and compact discs.
4. Prepare to publish *Statistics of Hawaii Agriculture 2008* in compact disk.
5. Enhance publications by adding more information and be responsive to new data needs for specific components of the agricultural industry such as ag exports.

Objective: Provide relevant market reports, analyses and other pertinent information to support proper functioning and understanding of agricultural commodity markets.

1. Collect, compile and publish eight weekly market news reports in fiscal year 2009.
2. Meet scheduled release time and date of reports pre-specified to data users, 95 percent of the time.
3. Fulfill the number of requests for information, 99 percent of the time.
4. Identify changing market information needs, change data collection methodology and modify reporting formats whenever necessary.
5. Continue with efforts to cross-train staff on data collection and production of various market reports and to maintain a dynamic market information system with wholesale prices and in-shipments, trends, market outlook reports and analyses to support the proper functioning of markets in fiscal year 2009.



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Division/Branch: Agricultural Resource Management Division

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

Goal 1: Complete transition of the first round of Non-Agricultural Park leases from DLNR to DOA and begin additional reviews and 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 parcel identification and Governor's Executive Order for the first round of unconditionally accepted parcels.
2. Complete training on new Land Management software (SLIMS) used to govern Non-Agricultural Park Program and begin daily management functions.
3. 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: Have ARMD perform a complete lease review and visual inspection of the next proposed list of parcels for transfer.

1. Coordinate with Land Division to create the second round transfer list.
2. Begin inspection of second round transfer parcels.
3. Create conditional vs. unconditional list of parcels.
4. Have BLNR and BOA approve second transfer list for Non Agricultural Park program.

Objective: Work with DLNR to identify state lands that should be designated as Important Agricultural Lands and transfer them to HDOA according to Act 233 (2008).

Goal 2: Focus on 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. Prioritize irrigation capital improvement projects to maximize collection efficiency.
2. Concentrate efforts to integrate Supervisory Control And Data Acquisition (SCADA) technology into irrigation system management.
3. Review day to day operations to identify opportunities to refocus maintenance activities to take advantage of system improvements.
4. Connect with farmers to identify "joint" projects that allow the farmers to develop a sense of "joint ownership" for the systems.

Goal 3: Begin master planning for the development of the Kunia Agricultural Park

Objective: Identify possible development strategies for Kunia Agricultural Park

1. Complete procurement to retain consultant to create a master plan for the Kunia Agricultural Park.
2. Coordinate with ADC and CWRM to identify water issues related to service for this Ag Park.
3. Identify easement requirements for utilities to the Ag Park.
4. Meet with other agencies to review opportunities for possible joint ventures or public/private partnerships.

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Division/Branch: Animal Industry, Rabies Quarantine Branch

Purpose: To protect animal and public health by reducing the likelihood that rabies 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 2010.

1. Solicit bids and select vendor to design enhancements for interface by early 2009.
2. Purchase hardware by mid-2009.
3. Vendor to install and validate enhancement by early 2010.

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: Modify rules and regulations on an ongoing basis to be consistent with new rabies scientific research findings and other anticipated initiatives.

1. Review rules and identify areas (if any) to amend with respect to program; implement science-based changes by mid- to late 2009.
2. Will evaluate Japan as an exempt area for the purpose of rabies quarantine requirements.

Goal 3: Provide additional program revenue to offset operational expenditures and lower user fees.

Objective: Lease underutilized property at the Animal Quarantine Station.

1. Solicit and retain Contractor to manage disposal of underutilized property by early 2009.
2. Dispose of property through auction by 2009.

Goal 4: Evaluate and improve emergency response capabilities, including hurricanes.

Objective: Conduct structural modifications where feasible.

1. Identify mitigation strategies (if any) by mid-2008.
2. Implement reasonable mitigation strategies identified by study by mid-late 2009 if funds available.

Objective: Improve intra-operative communications between AAQHF and AQS during disasters.

1. Procure equipment for enhanced communications link between AAQHF and AQS that are functional during disaster situations (high winds, no electricity, etc.) and install by mid-2009 if funds available.

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Division/Branch: Animal Industry/Livestock 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: Develop a plan to control and eradicate bovine tuberculosis (BTB) from Molokai.

Objective: Update the Molokai bovine tuberculosis control plan to include a control and eradication plan for BTB in feral swine by May 2009.

1. Apply to USDA for a cooperative agreement grant for Molokai BTB control and eradication activities by January 2009.
2. Convene meeting with USDA in February 2009.
  - a. Review wildlife surveillance data and cattle testing data collected over the past 10 years.
  - b. Determine if control only or control and eradication plan is feasible at this time.
  - c. Develop the plan that is decided to be feasible at this time.
3. Present plan to stakeholders on Molokai, March 2009
4. Develop the plan design April- May 2009
5. Begin plan implementation June 2009
6. Evaluate progress with plan December 2009
7. Target for eradication: once a fence can be constructed around the infected zone, possibly 5 years.

Goal 2: Prevent Foreign Animal Diseases (FADs) from entering Hawaii

Objective: Strengthen measures in place to prevent the introduction of FADs into Hawaii.

1. Apply for USDA Swine Health Protection grant to fund activities by January 2009.
2. Nominate Veterinary Medical Officer for FAD training with USDA, January 2009
3. Update garbage feeding swine database to insure accuracy and that it matches with all Department of Health (DOH) food

establishments that provide food waste to swine producers, March – May 2009.

4. Review the handling of foreign garbage by companies handling foreign garbage at air and sea ports, June-July 2009
5. Conduct State inspections of a sample of garbage feeders to determine compliance rate, July-August 2009.
6. Review the practice of allowing treatment and feeding of food waste by individual swine producers and determine if other measures are needed to reduce risk for the introduction of a FAD, September 2009.
7. After completion of tasks listed above, amend Administrative Rules to strengthen measures to prevent the introduction of FADs, September-December 2009.

Goal 3: Reduce challenges to poultry and livestock operations from new diseases

Objective: Prevent new poultry and livestock diseases from entering Hawaii.

1. Review and amend poultry and livestock administrative rules to prevent the introduction of diseases, such as avian influenza and exotic Newcastle disease, and brucellosis, TB, Trichomoniasis and scrapie, that are potentially threatening to poultry and livestock.
  - a. Review Poultry rules: January – March 2009
  - b. Make any amendments needed by September 2009
  - c. Review Cattle, Sheep, Goat rules – April-June 2009
  - d. Make amendments needed by December 2009

Goal 4: Sustain and strengthen the livestock industries in Hawaii.

Objective: Work with other divisions to insure that livestock industries have the resources required to sustain themselves.

1. Initiate discussions with the Agricultural Resource Management Division to develop irrigation water plans to finish beef cattle in Hawaii.
2. Assist and cooperate with the Agricultural Resource Management Division to insure that State lands being used by the livestock industries come under the authority and control of HDOA.
3. Coordinate with the Agricultural Development Division to develop and promote Hawaii grown livestock products, such as locally produced finished beef.

4. Coordinate with the Agricultural Loan Division to develop lines of credit for livestock producers secured with the value of livestock to facilitate finishing and marketing locally produced finished beef.
5. Determine baseline levels with the Agricultural Resource Management Division and the Agricultural Loan Division to set targets to measure objectives: a) acres irrigated for finishing beef (objective 1); percent of pastoral leases transferred (objective 2); number of grass finished steers and heifers slaughtered in-State (objective 3); and number of presentations coordinated to market Agricultural Loans (objective 4).

Goal 5: Improve laboratory support for animal disease surveillance and control programs to mitigate negative economic and public health impacts.

Objective: Provide timely laboratory testing in support of the Division and the livestock and poultry industries.

1. Complete training, in collaboration with HDOH, of selected laboratory personnel to perform diagnostic procedures for detecting AI infected birds by June 2009.
2. Cross-train laboratory personnel to insure timely and high quality laboratory diagnostic support.
3. Introduce new but cost-effective test methodology and equipment for disease surveillance and diagnosis through Federal cooperative agreements by April 2009.
4. Conduct surveillance for high impact disease agents such as avian influenza, West Nile and classical swine fever viruses, by performing pathological examinations and collecting appropriate specimens for laboratory testing.

Goal 6: Participate in the National Animal Identification System (NAIS) to facilitate rapid traceability during an animal disease outbreak to reduce the magnitude of associated adverse economic impacts.

Objective: Utilize Federal cooperative agreement funds to encourage premises registration and individual animal identification by focusing on outreach and education of eligible stakeholders and obtain funds for identification tags and readers.

1. Seek funding from the USDA-Veterinary Services for premise registration and individual animal identification tags and readers by April 2009.
2. Continue premise registration and animal identification activities through CY 2009.

3. Identify livestock for individual identification and place tags through CY 2009.



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Division/Branch: Quality Assurance Division

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

Goal 1: Protect human health and agricultural markets in the case of food safety recalls

Objective: Establish the first state level food safety and traceability system as a means of increasing market reach, preventing recall losses and cutting inspection/test costs.

1. Continue to seek and increase federal and other sources of funding.
2. Promote food safety certified supply chain members to international buying community through food traceability and safety website and new hybrid advertising system.
3. Establish broad base of technical support entities to deliver product and service capabilities to interested food supply chain members.
4. Seek special fund status for Hawaii Food Safety Center in order to upgrade and move personnel across branch boundaries (MS refocus on food safety).
5. Rewrite job descriptions and class standards to establish singular quality assurance focus on food safety, quality and security.
6. Test various technologies for biological and chemical contaminant measurement and reporting capabilities for farm level food safety risk assessment needs.
7. Operationalize RFID lab to assist Division and Agricultural Community to develop solutions for applying RFID technology to a variety of food traceability problems.

Goal 2: Establish more division activities to focus on food safety

Objective: Change Measurement Standards functions to focus on food safety.

1. Identify current MS food safety capabilities (scales, net content, labeling, price verification) across inspection, test and calibration.
2. Identify new MS inspection and test functions focused on the agricultural supply chain needs.
3. Transfer taxi and fuel pump inspection functions to service agencies on all islands but continue fee collection for licensing.
4. Establish audit functions for all current inspection personnel as a means of providing oversight for service agents.

5. Apply newer technologies to help solve legacy data input efficiency and accuracy problems using newly transferred WinWam wireless/PC Tablet system.

Goal 3: Establish zero general fund dollar cost for all division activities

Objective: Increase income for activities and move these activities into special fund categories.

1. Establish and implement fair pricing for food traceability and safety improvement services (lab testing, audits, risk assessment, traceability, inspection, test and website).
2. Develop income forecast based on 3.1 above.
3. Seek special fund status for Measurement Standards activities in the future.
4. Implement new MS fee structure (estimated increase to division = \$300,000/year) in the future.
5. Train inspection staff for farm level biological and chemical sampling
6. Develop revenue sharing strategies with food safety product and service providers.

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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, 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 detrimental animals, insects, and plants.

Objective: To reduce entry of invasive species by increasing inspection activities at various ports-of-entry.

1. Maintain current federal support for Plant Quarantine programs and seek additional federal sources to address these needs. Support the federal agency partners that work with and help fund HDOA and other complementary programs. Completion Date: Ongoing.
2. Fill new Plant Quarantine Inspector and Pest Control Technician positions allocated by the 2006 Legislature and have new staff trained and assigned to ports-of-entry by end of the 2009 fiscal year.
3. Establish a joint use inspection facility at Honolulu International Airport for the inspection of agricultural products and other regulated commodities by State and Federal Quarantine Programs (State Quarantine, USDA, APHIS, Plant Protection and Quarantine, and Homeland Security, Customs and Border Protection). Include in the Honolulu International Airport Master Plan. Completed 2007; Homeland Security/State Civil Defense Grant for planning & preliminary design, Completed, 2006; Facility Projected Completion Date: 2011. Anticipate two interim facilities in place at Honolulu International Airport by 2010, one along the Ewa Concourse, the second on the Diamond Head end of the airport in an existing air cargo facility.
4. Establish a system of transition inspection facilities for sea containers to assure the more efficient handling and inspection of cargo arriving in Hawaii from domestic ports. Completion Date: On going planning for facility, with a design concept for Honolulu Harbor completed by end of 2009
5. Design and construction of two hot water treatment facilities for

disinfestation of nursery plants prior to movement of plants between islands. Install first unit on the Island of Oahu at State Plant Quarantine; the second in Hilo at a location to be determined. Completion date: First Unit, Completed, March 2007; Second Unit, Completed June 2008, Contract issued to University of Hawaii College of Tropical Agriculture and Human Resources to assist nurseries construct, test and certify hot water quarantine treatment units through a cost-sharing programs with HDOA. On - going.

6. Create an interisland nursery certification program to reduce risk of pest movement between islands on nursery stock. Under this program, nurseries would be able to certify interisland shipments if they meet requirements set and verified by the PQ Branch. Working with nurseries to establish Pest Management Programs tailored to the needs of individual nurseries; mandatory inspection and treatment requirements implemented for nurseries found to have moved pests of quarantine concern. Completion Date: June 2009

Goal 2: To conduct effective plant pest control programs.

Objective: To contain, control and/or eradicate plant pests that enter the state through chemical and mechanical means or through 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 surveys 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 survey results for use in planning and communication with decision makers. Completion date: Ongoing.
3. Revise Chapter 69A, Pests for Control and Eradication, for new pests found in Hawaii such as coqui frog, nettle caterpillar, and the little fire ant. Completion Date: December 2008 (complete)
4. Increase survey, 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, 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.

5. Seek federal 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, fire weed and little fire ant. Completion Date: On-going.
6. Make maximum use of personnel temporarily assigned to the Branch from Federal and other State agencies to assist with survey and biocontrol projects, respectively. Completion Date: On-going
7. Develop an Insect Diagnostic Identification Network for Hawaii and the American Pacific with land grant universities and departments of agriculture in Hawaii, Guam, American Samoa, Commonwealth of the Northern Mariana Islands (CNMI), and Federal States of Micronesia (FSM) with funding from Research, Education and Extension Service (UH-CREES). USDA via the University of Hawaii, Cooperative 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. The first year will involve the scoping of existing facilities in other states and countries, corresponding and working with program managers in those programs and investigate funding opportunities. The direction the program takes after the first year will depend on findings from the first year, the overall goal, however, is to double or triple the biocontrol capacity of the HDOA in five years. Completion Date: 2012

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. Facilitate discussions for a private sector development of a second irradiator in Hawaii to be located on Oahu. Identify industry needs for export and import phytosanitary requirements. Facilitate discussion between the United States Department of Agriculture and the private sector for the use of a private treatment facility for the sterilization of fruit fly pupae. Assist in linking private investors in Hawaii with a mainland vendor of contract treatment services for a possible joint venture. Project on-going with private company working with the Nuclear Regulatory Commission for final approval for installation of the facility on Oahu.
2. Establish a data management system ("Invicta") to more efficiently track the movement of pests from foreign, domestic and island sources to strengthen Export Certification Programs. Phase one of Invicta development completed for the management of Plant Quarantine data in

support of the Maui Alien Species Action Plan. System upgrades underway for Invicta to receive, store and manage Plant Quarantine data collected at ports statewide. Completion Date: June 2009.

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 2010.

1. Evaluate the effectiveness of pesticide poisoning prevention activities to reduce pesticide illnesses among children under 6 years old. Completion Date: On-going.
2. Conduct at least thirty (30) fumigation use inspections 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. Completion Date: On-going Annually.
3. Conduct 40 inspections of agricultural employers to assure employers are in compliance with the USDA 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 Annually.
4. Develop a pesticide case database to track compliance rate, repeat violators, and costs per enforcement action. 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. (Projects have been funded in FY-01 and 03. Continuing support for review of new pesticides is needed and may be funded through the Pesticides Use Revolving Fund). Completion Date: On-going.

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

1. To achieve a 90% compliance rate with pesticide distribution and use requirements. 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. Completion Date: On-going.