

2010 APPROPRIATIONS

2010 ENERGY AND WATER DEVELOPMENT APPROPRIATIONS BILL

Project Name and Location	Purpose	Amount	Recipient	Taxpayer Interests
Ala Wai Watershed - Island of Oahu	These funds are to complete the feasibility study and conduct the external independent peer review as required under Water Resources Development Act 2007. The feasibility study is investigating and evaluating solutions to environmental degradation and flood damage problems throughout the entire Ala Wai Watershed, which include the Manoa, Palolo, and Makiki drainage systems, including Waikiki and surrounding areas. The objective is to develop a comprehensive integrated plan that recommends a coordinated approach by all Federal, State, and local agencies and the communities to improving the overall watershed health.	\$408,000	Department of Land and Natural Resources. State of Hawaii	The improvements to the Ala Wai watershed will help control the potential of flooding to surrounding communities.
Anahola River Flood Study - Island of Kauai	The purpose of this initiative is to conduct a flood plain study of the Anahola River on the Island of Kauai. Funds will be used to develop hydrologic and hydraulic models of the Anahola River area. The models will be used to define flood maps and re-mapping for the developing low-lying areas of Anahola.	\$150,000	Department of Transportation, State of Hawaii	The study is vital to the Island of Kauai, but most importantly to provide the residents of Anahola a flood free area to live.
Anahola Watershed - Island of Kauai	The initiative is to conduct a flood plain study of the Anahola River on the Island of Kauai.	\$120,000	County of Kauai	The project is vital for Kauai's economy and will provide flood control to the Anahola community.

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Barbers Point - Pacific Regional Visitor Center, Battery Randolph, Fort DeRussy - Island of Oahu	The RVC serves as a unique asset for the Army and the Corps of Engineers in Hawaii by reaching out to the general public with the theme "Partners in the Pacific". The RVC uses exhibits, movies, interactive kiosks, and interactive outreach programs with school groups.	\$201,000	U.S. Army Corps of Engineers, Hawaii District	Outreach provided by the RVC would help explain the missions of the Corps and the Army by demonstrating the partnerships between the Corps and the local governments and the community in the areas of navigation, storm damage reduction, ecosystem restoration, and military construction.
Department of Transportation - GIS Program - State of Hawaii	This initiative is to complete the Department of Transportation GIS program. The establishment of a Harbors GIS program is a high priority for the State of Hawaii Department of Transportation and will aid in the operation and management of the State harbors system. The study involves the establishment of the Harbors Division GIS program, including a vision for future GIS needs, establishing a plan for implementing and maintaining a GIS, converting project specific data and other basic information to GIS, setting up at least one seat of basic GIS software, and providing training to operate the system.	\$181,000	Department of Transportation, State of Hawaii	The establishment of the GIS program will provide for the economy of Hawaii better operation and management of all harbor uses.

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Development of High Yield Tropical Feedstocks and Biomass Conversion	The purpose of this project is to increase Hawaii's energy self-sufficiency as part of a broader strategy to improve Hawaii's energy security. This project will focus on developing biomass production capabilities, biomass conversion technologies, and integrated bioenergy systems to guide commercial bioenergy production in the State. In addition, this initiative is to implement, through the Western Insular Pacific Subcenter, a coordinated regional approach to biobased energy and produce technologies.	\$6,000,000	College of Tropical Agriculture and Human Resources, University of Hawaii at Manoa	Hawaii's unique combinations of soils, elevations, and rainfall patterns produce a richly diverse set of environmental conditions. This diversity makes Hawaii a prime research location to address Hawaii's energy security and transfer of resulting technologies to other warm weather states and tropical areas globally. In addition, the entities in the region in question (Hawaii, Alaska, and the American Pacific islands) are highly dependent on fossil fuels for energy. Each entity operating along has insufficient critical mass to effectively address reduction in this dependence. However, by working cooperatively, the entities in question have an opportunity to efficiently implement biobased energy and produce technologies under the unique conditions in the region. Further, the needs of the region are significantly different from the Sun Grant Centers in the continental United States that these Centers offer little assistance. The long term working relationships among the land grant programs in the region also suggest that this initiative is a worthy investment for enhancing energy security in the region.
General Technical Services - State of Hawaii	The requested funds will be used to provide floodplain information, guidance, analyses, and base flood elevations for members of the general public, including AE firms and private individuals requiring building permits in hurricane wave run-up zones.	\$40,000	U.S. Army Corps of Engineers, Hawaii District	Project provides valuable floodplain information accuracy and floodplain analyses for federal, state, and county agencies.

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Hana Harbor - island of Maui	This initiative is to initiate a study on necessary navigation safety improvements for the Hana Harbor. The study is to identify the repair or replacement of the damaged pier, and whether protective structures and channel improvements are required.	\$100,000	County of Maui	Hana Harbor serves as an important lifeline for the community. The improvements to the Harbor are important to the economy of the Island of Maui and will enhance the needs of the community.
Hawaii Energy Sustainability Program (formerly Hawaii-New Mexico Sustainable Energy Security Partnership)	The purpose of this project is to support achievement of the goal of deriving at least 70 percent of the Hawaii's energy from renewable sources by 2030 and to validate technology and processes that will allow mainland grids to increase their use of intermittent renewable technologies.	\$6,000,000	Hawaii Natural Energy Institute	Hawaii's full complement of renewable energy resources (solar, wind, ocean, biofuel, and geothermal) and island specific isolated grids offers unparalleled opportunities to address issues associated with the high penetration of renewable energy technologies into electrical grid systems.
Hawaii Regional Sediment Management Demonstration Project - State of Hawaii	This initiative is to conduct technical investigations, coordination, and documentation of other regions within the State of Hawaii. Numerous shorelines within the Hawaii islands have diminished significantly and no longer provide a buffer to the impacts of storm waves with a corresponding loss of recreation opportunities. This investigation will further the understanding of the dynamics of complex coastal processes at work and promote the development of long-term strategies for sediment management in other problematic regions in Hawaii.	\$1,000,000	Department of Land and Natural Resources. State of Hawaii	The improvements to Hawaii's shorelines will preserve coastal habitats along the shoreline and provide for more recreational opportunities.

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Hawaii Renewable Renewable Energy Development Venture	Hawaii Renewable Energy Development Venture will help Hawaii make progress towards a meaningful level of energy self-sufficiency and address energy security by supporting the development of technologies to convert, store and transport these renewable energy sources for integration with the island electrical grids and transportation systems.	\$6,000,000	Pacific International Center for High Technology Research	By supporting the development of the clean tech sector in Hawaii, this project will help to address a critical energy security need for the state, and federal investments in the state and Pacific region. This project will also diversify the economic base of Hawaii, now predominantly dependent on tourism, create highly skilled and higher paying jobs that will go primarily to Hawaii residents. The transformation to clean energy will reduce risks and impact to the environment. Taxpayers will also benefit from reduced volatility in energy prices, making Hawaii a more attractive place for investment. Success in Hawaii will also benefit the nation as a whole, since clean energy solutions in Hawaii will be designed to have a high degree of applicability throughout the U.S.
Hawaii Water Management - Islands of Kauai and Oahu	The purpose of these funds is to rehabilitate the Waiahole and Kokee irrigation systems. The local sponsor has requested that the Waiahole improvements be implemented first and that the Kokee investigations be deferred until completion of Waiahole. The awarding of a construction contract is anticipated in Fiscal Year 2012.	\$2,000,000	Department of Agriculture, State of Hawaii	Improvements to the Kokee and Waiahole systems are important to the State of Hawaii in maintaining Hawaii's agriculture.
Hawaii Water Resources Management Systems - State of Hawaii	The objective of the Water Resources Management System is to integrate NEXRAD Precipitation Data with the Statewide Water Resource Assessment and Database.	\$270,000	Commission of Water Resource Management, Department of Land and Natural Resources, State of Hawaii	Watersheds are national natural resources that must be maintained to serve current and future generations. This project would provide the tool to assess water resource availability and sustainability.

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Heeia Watershed - Island of Oahu	The purpose of these funds is to initiate Federally funded reconnaissance investigations to determine whether Federal interest exists in a cost shared feasibility study to implement watershed improvements for the Heeia Watershed project. Heeia is located on the northeastern shore on the island of Oahu and characterized by its rural development, wet climate, close proximity to Kaneohe Bay, and the steep Koolau mountains at its background. The Heeia Watershed encompasses and encounters a broad range of conditions and threats.	\$200,000	U.S. Army Corps of Engineers, Hawaii District	The Heeia watershed contains some of the largest suburbs areas and is threatened with decreasing presence and quality of fresh water, lack of food production and ever increasing development pressures, so preservation and maintenance of agriculture and natural resources are a high priority. In addition there exists considerable community support through the Kaneohe and Kahaluu Neighborhood Board and local political interest, particularly to alleviate flooding and increasing economic and biological health of Heeia.
Hurricane Evacuation Studies - U.S. Islands - State of Hawaii and all U.S. Territories in the Pacific and Caribbean	Funds for this initiative will be used to complete a Mass Management Tool, a computer model and graphical user interface based on available information which identifies vulnerable island populations, hazards, public shelter capacities, transportation routes/clearance times and evacuation behavior statistics, for use by local emergency planners within the State of Hawaii and all U.S. Territories in the Pacific and Caribbean.	\$1,000,000	Department of Defense	The MMS is being designed as a real-time pre-disaster planning and operational tool which will allow local emergency planners to better identify and manage vulnerable local populations against water-related threats such as tropical cyclones, dam breaks and tsunamis. The MMS will provide users with a comprehensive and integrated means of collecting and assimilating data from various sources, applying different analysis and interpretation tools in the context of their response plans and protocols and then disseminating salient information to select parties during a disaster.

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Iao Stream - Island of Maui	<p>This initiative is to complete the plans and specifications package and prepare the draft Project Cooperation Agreement for the Iao Stream Flood Control project. The project protects the town of Wailuku, Maui. The project was not fully lined due to limited project funding and benefits. Numerous storm events of high velocity flows within the steeply sloped channel have occurred over the years and resulted in recurring damages to the stream channel, particularly to the right bank levee toe of the unlined section of the project.</p>	\$250,000	Department of Public Works, County of Maui	The proposed modifications to the Flood Control project will better protect the town of Wailuku, Maui, from recurring floods.
Inspection of Completed Works - State of Hawaii	<p>Flood and coastal damage reduction projects are inspected on an annual basis, because of the probability of flood events due to the general geophysical landscape of the islands and the high energy ocean climate surrounding the islands. Flash flooding can occur within 30 minutes of peak rainfall. Failure to inspect Flood Damage Reduction (FDR) projects could increase the potential of structural failure, damages to property, and the possibility of loss of life within the project area.</p>	\$705,000	U.S. Army Corps of Engineers, Hawaii District	Inspection of the Flood Damage Reduction (FDR) projects could alleviate potential of structural failure, damages to property, and the possibility of loss of life within the project area.

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Kahuku Area Drainage - Island of Oahu	At the request of the sponsor, the State of Hawaii, Department of Education, language was included in the Fiscal Year 2008 Energy and Water Appropriations Act, directing the Honolulu District to initiate Preconstruction Engineering and Design phase activities in support of local drainage/flood damage reduction features at the Kahuku High School and the surrounding community.	\$4,360,000	Department of Education, State of Hawaii	Drainage system improvements, underground water storage, and berms will provide flood control to the Kahuku Community.
Kahului Harbor Modifications - Island of Maui	This initiative is to initiate a feasibility study for modifications to the Kahului Harbor. The modifications to the Harbor would allow commercial activities at the west coral stockpile area to support container, ferry, and cruise ship activities. This is evidence by the overcrowding at the existing terminals. This new area will require dredging of a new basin to support commercial vessels and associated breakwater improvements.	\$100,000	Harbors Division, Department of Transportation; County of Maui, Department of Transportation	The potential solutions to the problems of cargo transportation inefficiencies and damages to vessels and port facilities will enhance harbor operations. The proposed modifications would allow for improved commercial activities thereby increasing tourism to the Islands.
Kaluanui Flood Study - Island of Oahu	The purpose of this initiative is to conduct a flood plain study of the Kaluanui Stream area on the Island of Oahu. Funds will be used to develop hydrologic and hydraulic models of Kaluanui Stream. The models would be used to define flood hazards, flood maps, and give the State of Hawaii Department of Land and Natural Resources options to consider for the Kaluanui Stream Valley and State Park areas.	\$150,000	Department of Land and Natural Resources. State of Hawaii	The study would identify potential flood areas.

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Kekaha/Waimea Watershed Area - Island of Kauai	To initiate a feasibility study on watershed improvements for the Kekaha/Waimea area. The towns of Kekaha and Waimea on the Island of Kauai have experienced major flooding in recent years due to the lack of any flood control infrastructure.	\$200,000	U.S. Army Corps of Engineers, Hawaii District	The improvements are vital to the Island's economy and way of life as well as for the health and safety of the residents.
Laupahoehoe Harbor - Island of Hawaii	The purpose of this initiative is to conduct a Preconstruction Engineering and Design (PED) phase activities including engineering analyses, plan development and to initiate plans and specifications for the Laupahoehoe Harbor. Since February 1999, the County has requested the U.S. Army Corps of Engineers (USACE) to investigate a modification to the harbor because of excessive wave action. Commercial and recreational boaters have noted that they are not able to launch boats or seek refuge even up to the 60% usability the harbor was designed to provide.	\$9,000,000	Department of Parks and Recreation	The improvements to the laupahoehoe Harbor will provide commercial and recreational boaters with better usage of the harbor and allow emergency vessels ease of access to emergency situations.
Maalea Harbor - Island of Maui	Funds for this initiative is to complete the Preconstruction Engineering and Design (PED) Phase for the Maalea Harbor. The objective of the project is to improve navigational access by realigning the entrance channel, and modifying/extending the breakwater to attenuate surge within the harbor, thus, eliminating damage to vessels.	\$202,000	Division of Boating and Ocean Recreation, Department of Land and Natural Resources, State of Hawaii	The improvements to the harbor will provide the community with increased usage for recreation and the protection of marine life.

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Maunalua Bay Watershed Area - Island of Oahu	The initiative is to initiate a feasibility study on watershed improvements for the Maunalua Bay. The watershed is identified by steep slopes off of the Koolau Mountain range and very narrow lowland at the foot of the mountains. Water resources problems include flooding, pollution and sediment transport that impacts near shore marine environments, poor ground water quality and lack of ground water quantity, and highly degraded near shore environment.	\$200,000	Department of Land and Natural Resources. State of Hawaii	With assistance, Maunalua Bay is considered to be restorable due to remaining healthy stands of coral reef, native sea grass beds, and a variety of marine animals. The bay is also popular for all forms of ocean-based recreation including fishing, boating, paddling, and surfing. The Maunalua Bay Watershed Region has been identified by the State of Hawaii for special conservation and restoration activities due to its historical significance and marine resources within an active community. This watershed has further value as a demonstration project that can illustrate how the urban communities can co-exists with natural resources and protect those resources.
Moanalua Stream Flood Damage Reduction - Island of Oahu	This initiative is to initiate a reconnaissance report for the Moanalua Stream Flood Damage Reduction.	\$100,000	State of Hawaii; City and County of Honolulu	The reconnaissance report is necessary to identify flood damage reduction areas, thereby protecting the community.
Nuuanu Reservoir Flood Study - Island of Oahu	This project is to initiate a study that will analyze the hydrologic and hydraulic parameters of Nuuanu Reservoir and identify limitations as a flood control project.	\$150,000	U.S. Army Corps of Engineers, Hawaii District	A technical analysis of the Reservoir would ensure that the Reservoir is safe.

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Pacific Island Land Ocean Typhoon Experiment Program - State of Hawaii, Ipan, Guam, Caribbean	The purpose of this initiative is to continue the operations of the Pacific Island Land Ocean Typhoon Experiment Program (PILOT) at the Hawaii, Guam and Caribbean test sites.	\$1,000,000	Department of Defense, State of Hawaii; University of Hawaii at Manoa	The continuation of the program will better serve the people with improved emergency planning. Work completed under this program at the University of Hawaii has shown that the reef characteristics have a great impact on incoming storm waves and in the development of the storm surge. These data will be used in the verification and calibration of existing numerical models and will also be used in the development of the next generation predictive coastal models under cyclone conditions.
Palmyra Atoll Ecosystems Restoration, Palmyra Atoll National Wildlife Refuge, Pacific Remote Island Marine National Monument	This initiative is to initiate the Design and Construction phases of this project in order to understand the consequences of any alteration to the current flow regime in the Palmyra lagoons and the resulting impact on reefs inside and outside of the Coral Gardens. Palmyra Atoll is 4.6 square miles large and located in the Northern Pacific Ocean south of the Hawaiian Islands roughly halfway between Hawaii and American Samoa. It consists of an extensive reef and two shallow lagoons (15,512 acres), and some 50 sand and reef-rock islets and bars (680 acres) covered with vegetation, mostly coconut trees, and tall Pisonia trees.	\$200,000	Nature Conservancy of Hawaii	This project is to preserve and protect the prized Coral Gardens in the southeast portion of the atoll.

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Planning Assistance to States - State of Hawaii/Pacific Territories	This initiative is to support the PAS program in the State of Hawaii, American Samoa, Guam, and the Commonwealth of the Northern Mariana Islands.	\$1,000,000	U.S. Army Corps of Engineers, Hawaii District	The objective of the PAS program is to assist state and local governments in the preparation of comprehensive plans for the development of water and related land resources. These plans would also assist the Corps in the development of comprehensive flood risk management plans for each island in the State of Hawaii and territories.
Planning Assistance to States negotiation - State of Hawaii/Pacific Territories	The purpose of this initiative is to provide a level of funding consistent with increasing local demand for studies throughout the Honolulu District's area of responsibility is required to provide the needed assistance.	\$50,000	U.S. Army Corps of Engineers, Hawaii District	The objective of the PAS program is to assist state and local governments in the preparation of comprehensive plans for the development of water and related land resources. These plans would also assist the Corps in the development of comprehensive flood risk management plans for each island in the State of Hawaii and territories.
Port Allen Harbor Modifications	The purpose of this initiative is to initiate federally funded investigations to determine whether a Federal interest exists in participating in a cost shared feasibility study for modifications to Port Allen Harbor. The harbor is particularly important for commercial charter vessels, liquid bulk cargo and military vessels servicing the Pacific Missile Range Facility. Most recently, repairs were completed in February 2009 to the existing 280-foot long breakwater root section as a result of wave damages sustained over numerous years.	\$100,000	Department of Transportation, State of Hawaii	The upgrade to the nearly 50-year old harbor will accommodate larger vessels to meet the demands of Kauai's growing economy.

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Project Condition Survey - State of Hawaii	The purpose of this initiative is for the management of the dredging program and inspection of 25 navigation projects with Federal breakwater structures.	\$570,000	U.S. Army Corps of Engineers, Hawaii District	The Commercial ports are the lifeline for these islands and are basically the sole means of transport of bulk cargo and commercial goods. This waterborne commerce is critical to the economy of the State of Hawaii, and its respective islands and the U.S. Territories. Other smaller subsistence/commercial/recreational harbors serve island communities and are vital to the welfare of its people.
Rainfall Atlas - State of Hawaii	The update of the Rainfall Atlas of Hawaii is a high priority for the State of Hawaii DLNR Commission on Water Resources Management. Knowledge of the mean rainfall patterns is critically important for a variety of resource management issues, including ground water and surface water development and protection, controlling and eradicating invasive species, protecting and restoring native ecosystems, and planning for the effects of global warming.	\$100,000	Commission of Water Resource Management, Department of Land and Natural Resources, State of Hawaii	The update of this scientific publication is vital to the State of Hawaii's economy in providing information to help protect and restore native ecosystems and for the development of other resource management.

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South East Oahu Regional Sediment Management Demonstration Project	The purpose of this initiative is to conduct technical investigations, coordination, and documentation of other regions on the Island of Oahu. Numerous shorelines within the Hawaii islands have diminished significantly and no longer provide a buffer to the impacts of storm waves with a corresponding loss of recreation opportunities. This investigation will further the understanding of the dynamics of complex coastal processes at work and promote the development of long-term strategies for sediment management in other problematic regions in Hawaii.	\$500,000	Department of Land and Natural Resources. State of Hawaii	This study has provided measurable benefits to the State of Hawaii in their plans to place dredged sand from the stream mouth back into the littoral system at Kailua Beach, Oahu. The improvements are vital in preserving the shorelines of the State of Hawaii, and providing recreational opportunities to its residents.
South Maui Watershed - Island of Maui	The purpose of this initiative is to initiate a feasibility study on the implementation of watershed improvements for the South Maui Watershed project.	\$300,000	County of Maui	The South Maui Watershed area is vital to the economy of Maui and more important for the preservation and maintenance of natural resources.
South Molokai Watershed- Island of Molokai	This initiative is to initiate a feasibility study on the watershed improvements for the South Molokai area. Flooding events have taken place at Kawela, within Kaunakakai Town, and Kapaakea.	\$300,000	County of Maui	The Molokai Watershed is vital to the economy of Molokai and to life sustainability of the island. Preservation of hunting, gathering, and fishing activities, as well as water availability are important community values. The protection and restoration of ocean resources is important to maintaining this cultural activity.

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Surge and Wave Island Modeling Studies - State of Hawaii	The purpose of these funds are to continue the development of the next generation island storm surge model in conjunction with the University of Hawaii as well as other universities. These advances in the modeling of the science and engineering of the wave-reef interactions during hurricane/typhoon conditions will provide for better island inundation predictions and designs of navigation and shore protection structures.	\$1,200,000	University of Hawaii at Manoa	This program will provide the State of Hawaii with better predictions to protect the shore design and structure.
Waiahole-Waikane Valley Flood Damage Reduction - Island of Oahu	This initiative is to initiate a reconnaissance study and to prepare the Feasibility Cost Sharing Agreement. There has been much damage in the Waiahole-Waikane Valley to local roads, residences, bridges, drainage systems, and personal property over the years, due to intense storms that produce rapid runoff from the steep valley.	\$100,000	City and County of Honolulu	Identifying the necessary flood reduction improvements for the Waiahole-Waikane Valley would protect public and personal properties against severe and intense storms.
Waiakea-Palai Streams Flood Damage Reduction - Island of Hawaii	This initiative is to initiate the Preconstruction Engineering and Design (PED) phase, including the preparation of the Engineering Design Report (EDR). The individual Waiakea and Palai CAP projects are being converted to the General Investigations (GI) Program. Due to the proximity of Waiakea and Palai, and partially-shared drainage, these projects are being combined into a single project. The new Waiakea-Palai Streams Flood Damage Reduction project is being proposed for the PED phase.	\$300,000	Department of Public Works, County of Hawaii	The proposed flood mitigation efforts for the Waikea and Palai Streams would reduce flood damage to existing homes in the surrounding areas.

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Waiialua-Kaiaka Bay Watershed - Island of Oahu	The purpose of this initiative is to initiate a comprehensive analysis of watershed problems, including flooding, ecosystem degradation, and lack of irrigation water supply for agriculture for the Waiialua-Kaiaka Bay Watershed area.	\$300,000	Department of Land and Natural Resources. State of Hawaii	The solutions and improvements will provide for further economic development, improved transportation and better agricultural opportunities for the State of Hawaii and Island of Oahu.
Wailupe Stream Flood Damage Reduction - Island of Oahu	The purpose of this project is to continue the Preconstruction Engineering and Design phase. The Wailupe Stream drainage basin is located approximately eight miles east of Honolulu and encompasses the Aina Haina residential community. The Wailupe Stream flooding is the result of inadequate channel capacity, debris blockages, and stream bank erosion that impacts 614 residential and 28 commercial structures within the 100-year flood plain.	\$175,000	State of Hawaii; City and County of Honolulu	The proposed project is intended to preserve and protect the 614 residential and 28 commercial structures in the Aina Haina residential community.
Waimanalo Wastewater Reuse Plan - Island of Oahu	The purpose of this initiative is to complete the Waimanalo Wastewater Reuse Plan. These funds will be matched with local sponsor funding.	\$67,000	Department of Environmental Services, City and County of Honolulu	The Waimanalo community continues to be an agriculture community. The completion of the wastewater reuse plan will provide farmers in the Waimanalo community with effluent water options for their farming needs.
Waimea River Zone A Flood Study - Island of Kauai	The purpose of this initiative is to conduct a flood plain study of the Waimea River on the Island of Kauai. Funds will be used to develop hydrologic and hydraulic models of the Waimea River.	\$185,000	County of Kauai	This study will provide the County of Kauai with an understanding of the flood problems of the Waimea River, and help to identify options for the decision makers.
Waiohuli Flood Study - Island of Maui	The purpose of this initiative is to conduct a flood plain study of the Waiohuli area (Upcountry Maui) on the Island of Maui. The Upcountry Maui area is prone to flooding as was highlighted during the December 2007 storms.	\$200,000	County of Maui	The Waiohuli flood study will provide the County of Maui with an understanding of the flooding problems and help to identify options for the decision maker.
West Maui Watershed - Island of Maui	The objective of this initiative is to initiate a cost-shared feasibility study. The reconnaissance study identified flood damage reduction, aquatic and marine ecosystem restoration, and shoreline protection projects that could be undertaken by the Corps of Engineers along with County and State agency partners.	\$100,000	Forestry and Wildlife Division, Department of Land and Natural Resources, State of Hawaii	Ecological resources, including coral reefs, are valuable to the tourism and the economy of West Maui and the State of Hawaii.