Gifts, Grants, and Contracts for August 2010

The following gifts, grants and contracts received by all campuses during the period August 1, 2010 through August 31, 2010 total $73,427,633. The unofficial year-to-date total is: $123,955,921.

Research

DA-Dept of Agriculture

Agriculture, Dept - Agricultural Research Svc-FED
Management and Control of Banana Bunchy Top Virus (BBTV) Through Resistant Cultivars
Hu, Ching Yuan
College of Tropical Agriculture and Human Resources
The overall objective of this cooperative research project is to minimize the impact of banana bunchy top virus.

Agriculture, Dept - Agricultural Research Svc-FED
Environmental Effects of Tephritid Fruit Fly Control and Management
Hu, Ching Yuan
College of Tropical Agriculture and Human Resources
The approach to this project is to address the development and evaluation of currently acceptable or novel non-toxic fruit fly control strategies such as classical biological controls, post-harvest treatments, and microbial control agents.

Agriculture, Dept - FED
Varroa Mite Control in Hawaii
Duffy, David C
Department of Botany
Collaborate with HDOA, USDA and outside experts to develop a statewide strategic plan to deal with the varroa mite and other pest threats to Hawaii's honeybees.

Agriculture, Dept - FED
A Need for Honeybees: Safeguarding Colony Health Through Varroa Management
Wright, Mark Gerald
Department of Plant and Environmental Protection Sciences
Develop varroa mite management techniques for Hawaii honeybees.

Agriculture, Dept - FED
Survey of Phytophthora colocasiae, the Cause of Taro Leaf Blight, in Hawaii
Uchida, Janice Y
Department of Plant and Environmental Protection Sciences
Survey taro fields across the state. Collect samples of blighted leaves. Identify and confirm Phytophthora colocasiae as disease causing agent. Enter data into the National Agricultural Pest Information System.

Agriculture, Dept - FED
Genetic Modification of Anthurium to Increase Post-Harvest Life and Flower Yield
Christopher, David A
Department of Molecular Biosciences and Bioengineering
The project will genetically modify Anthurium to increase flower production and decrease the rate of aging of leaves and flowers before and after harvesting.

Agriculture, Dept - Forest Service-FED
Climate Change Impacts on Hawaiian Biodiversity and Fresh Water Resources: Building Capacity for Research, Education, and Community-based Mitigation
Bruland, Gregory Lee
Department of Natural Resources and Environmental Management
The goal of this research is to understand how climate change, invasive species, and the interaction of the two stressors will impact the hydrological and ecological functions of Pacific Island streams and watersheds. Results will be shared via an integrated education and community-based outreach program.

Agriculture, Dept - Forest Service-FED
Effects of Mean Annual Temperature on Carbon Storage and Fluxes in Native Forests of Hawaii
Litton, Creighton
Department of Natural Resources and Environmental Management
This research will examine how the components of carbon storage (GPP, carbon allocation, and carbon losses) respond to changes in mean annual temperature.
# Gifts, Grants, and Contracts for August 2010

## Research

### DA-Dept of Agriculture

<table>
<thead>
<tr>
<th>Department</th>
<th>Project Title</th>
<th>Principal Investigator(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture, Dept - Forest Service-FED</td>
<td>The Potential for Restoration to Break the Grass/Fire Cycle in Dryland Ecosystems in Hawaii: Using Remotely Sensed Data to Guide and Understand Restoration of Dry Forest Ecosystem Process</td>
<td>Litton, Creighton</td>
<td>$46,000</td>
</tr>
<tr>
<td>Agriculture, Dept - Forest Service-FED</td>
<td>The Invasive Species/Wildfire Cycle: Fuel Loads, Microclimate, Fire Potential, and Fire Behavior in Dominant Grasslands and Adjacent Forests</td>
<td>Litton, Creighton</td>
<td>$85,000</td>
</tr>
<tr>
<td>Agriculture, Dept - Forest Service-FED</td>
<td>Integrated Weather/Fire Modeling Applications for Hawaii</td>
<td>Chen, Yi-Leng</td>
<td>$20,000</td>
</tr>
<tr>
<td>Agriculture, Dept - Natl Institute of Food and Agriculture</td>
<td>Evaluating Non-GMO Resistance to Papaya Ringspot Virus</td>
<td>Manshardt, Richard M</td>
<td>$73,000</td>
</tr>
<tr>
<td>Agriculture, Dept - Natl Institute of Food and Agriculture</td>
<td>Using Conservation Tillage and Cover Crop Mixtures to Enhance Natural Enemies of Nematode Pests</td>
<td>Wang, Koon-Hui</td>
<td>$160,902</td>
</tr>
<tr>
<td>Agriculture, Dept - Natl Institute of Food and Agriculture</td>
<td>Myostatin Inhibition and Improvement of Skeletal Muscle Growth of Broilers</td>
<td>Kim, Yong-So</td>
<td>$122,351</td>
</tr>
<tr>
<td>Agriculture, Dept - Natl Institute of Food and Agriculture</td>
<td>Hawaii Floriculture Research Grant - 2010</td>
<td>Hu, Ching Yuan</td>
<td>$279,200</td>
</tr>
</tbody>
</table>

1) Define the current condition & historical changes to tropical dry forest ecosystems in Hawaii, 2) develop technology for regional restoration planning & ecosystem monitoring, 3) quantify restoration potential & develop restoration prescriptions for remnant Hawaiian dry forests & shrublands, & 4) develop effective fuel and fire risk reduction measures.

This research will directly address knowledge gaps in tropical fire ecology by sampling fuels and microclimate regularly across a wide range of sites on Oahu. Integration of this baseline information into existing management scenarios will be crucial for validating and implementing the real-time fire potential and behavior models currently in use in Hawaii.

The purpose of this project is to investigate the feasibility and effectiveness of high resolution weather models as an alternative method of predicting weather conditions of interest to fire managers in tactical and strategic fire planning.

A new non-GMO source of genetic resistance to papaya ringspot virus (PRSV), derived from a wild relative of papaya, will be evaluated for utility in protecting papaya plants in Hawaii against local strains of PRSV. The program will include breeding to move resistant genes from the unimproved source to Hawaii cultivars.

Using conservation tillage and cover crop mixtures to enhance natural enemies of nematode pests.

The project aims to produce recombinant proteins (prodomain, follistatin, and extracellular domain of ActRIIB) that inhibit the biological activity of chicken myostatin, a potent negative regulator of skeletal muscle growth, in order to examine the potentials of these molecules to improve skeletal muscle growth of broilers.

Develop and commercialize high yielding disease/insect resistant floral cultivars for Hawaii, address current technical constrains such as quarantine issues that limit the export of Hawaii flora and ornamental crops, develop in-field and post-harvest methodologies to eliminate invasive species.
Gifts, Grants, and Contracts for August 2010

Research

**DA-Dept of Agriculture**

Agriculture, Dept - Natl Institute of Food and Agriculture  $40,000  
**Management of the Emerging Tomato Yellow Leaf Curl and Potyviral Diseases of Tomato in Hawaii**  
Hu, John  Department of Plant and Environmental Protection Sciences  
This goal of this project is identify how widespread two viral diseases of tomato are in Hawaii, characterize these viruses, and initiate strategies for their management.

Agriculture, Dept - Natl Institute of Food and Agriculture  $165,970  
**Understanding Critical Factors Contributing to the Unpredictability of Field Response of Acacia koa to Pre-Transplant Colonization of its Roots by Arbuscular Mycorrhizal Fungi**  
Habte, Mitiku  Department of Tropical Plant and Soil Sciences  
Arbuscular mycorrhizal fungi play critical roles on the nutrition and health of Acacia koa. The proposed research seeks to understand the variables contributing to the unpredictability of the field response of the legume to nursery inoculation of its seedlings with the fungi.

Agriculture, Dept - Natl Institute of Food and Agriculture  $130,500  
**Improving MSL Removal of Bacterial Pathogens from Swine Wastewater**  
Yost, Russell S  Department of Tropical Plant and Soil Sciences  
Improvements in the MSL system will be explored using laboratory procedures to increase pathogenic bacteria retention and protistan bacterivory.

Agriculture, Dept - Natl Institute of Food and Agriculture  $131,636  
**Assessment, Chemistry, and Remediation of Arsenic in Hawaii Soils**  
Hue, Nguyen V  Department of Tropical Plant and Soil Sciences  
Conduct a survey of arsenic levels in soils of Hawaii; study mechanisms of arsenic retention or release from soils and sediments; reduce soil arsenic levels using plants; inform the public of arsenic risk, mitigation and remediation alternatives.

**DHHS-Dept of Health and Human Services**

Health & Human Svc, Dept - Natl Inst of Health (NIH)  $144,021  
**PTSD Research Yr 5, 2011**  
Frueh, Christopher B.  Social Sciences-UHH - Division Office

Health & Human Svc, Dept - Natl Inst of Health (NIH)  $227,948  
**Exploratory Studies on the Anti-Breast Cancer Function of Bamboo Extract**  
Panee, Jun  Department of Cell and Molecular Biology  
This project aims to investigate the cellular and molecular pathways through which bamboo extract inhibits the initiation and/or promotion of chemically induced breast cancer.

Health & Human Svc, Dept - Natl Inst of Health (NIH)  $259,409  
**Gene Regulatory Network Evolution and the Origin of Biological Novelties**  
Martindale, Mark Q.  Pacific Biosciences Research Center  
The project will unravel the gene regulating network that gave rise to mesodermal tissues in animal evolution.
Gifts, Grants, and Contracts for August 2010

Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept/NIH - Natl Cancer Institute $247,500

The Sphingolipid Pathway in Colon Cancer Chemoprevention
Kawamori, Toshihiko Cancer Research Center

In this project, we examine whether the sphingolipid pathway mediates develop of colon cancer and we attempt to translate the bench results to be-side clinical chemopreventive measures.

Health & Human Svc, Dept/NIH - Natl Cancer Institute $1,334,059

Surveillance, Epidemiology and End Results (SEER) Program
Goodman, Marc T Cancer Research Center

The Hawaii Tumor Registry will maintain a cancer registration system for identification and follow up of all cancers diagnosed in Hawaii as part of the SEER Program.

Health & Human Svc, Dept/NIH - Natl Cancer Institute $100,000

Hawaii Minority-Based Community Clinical Oncology Program
Cho, Jonathan Cancer Research Center

This award will provide funding to allow minority and underserved populations in Hawaii receive state-of-the-art cancer treatment and to participate in cancer prevention and control studies

Health & Human Svc, Dept/NIH - Natl Cancer Institute $846,302

University of Guam/Cancer Research Center of Hawaii Partnership
Vogel, Carl-Wilhelm Cancer Research Center

Cancer research, training, education and outreach in partnership with the University of Guam.

Health & Human Svc, Dept/NIH - Natl Cancer Institute $2,174,502

Molecular Epidemiology of Nutrition and Cancer in the Multiethnic Cohort Study
Kolonel, Laurence N Cancer Research Center

To take advantage of the newly established Multiethnic Cohort Study biorepository to conduct biomarker studies of cancer etiology and survival (using blood, DNA, and urine samples) in the Multiethnic Cohort Study.

Health & Human Svc, Dept/NIH - Natl Cancer Institute $448,125

Physical Activity in Women with Infants
Albright, Cheryl L. Cancer Research Center

Recruit mothers with an infant 2-12 months old from Kaiser HMO and the community via mass media. Deliver tailored physical activity (PA) intervention to half subjects and standard care for PA to rest. Assess minutes of moderate/vigorous PA per week via accelerometers and written surveys. Follow women for 18 months, survey 5 times.

Health & Human Svc, Dept/NIH - Natl Cancer Institute $438,845

The Colon Cancer Family Registry: Hawaii
Le Marchand, Loic Cancer Research Center

To maintain and expand the Hawaii Colorectal Cancer Family Registry for the next four years.

Health & Human Svc, Dept/NIH - Natl Cancer Institute $1,467,394

Pathogenesis of Mesothelioma (Parent Award, PO1 CA114047) Supplement title: Combinational Immunotherapy for Malignant Mesothelioma
Carbone, Michele Cancer Research Center

Use mechanistic information developed during the studies supported by the PO1: Pathogenesis of Malignant Mesothelioma (MM) to develop novel immunotherapeutic approaches and to test whether immunotherapy can...
Gifts, Grants, and Contracts for August 2010

Research

DHHS-Dept of Health and Human Services

synergize with pharmacological chemotherapy to cure/improve survival of mice injected with MM cells.

Health & Human Svc, Dept/NIH - Natl Cancer Institute $47,536

The Cancer Genome Atlas (TCGA)

Goodman, Marc T Cancer Research Center

This project aims to explore the entire spectrum of genomic changes involved in human cancer by comprehensively analyzing DNA copy number changes, transcription profiles, epigenetic modifications, sequence variation, and sequence in both tumor tissue and case-matched germline DNA.

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources $2,237,077

COBRE: Center for Cardiovascular Research

Shohet, Ralph Victor Department of Medicine

This supplement is to expand the educational initiatives of the parent grant through the development of online training modules.

Health & Human Svc, Dept/NIH - Natl Ctr on Minority Hlth & Hlth Disprty $1,400,000

Partnerships for Cardiometabolic Disparities in Native and Pacific Peoples

Mau, Marjorie K H Department of Native Hawaiian Health

This new revision application includes four Comparative Effectiveness Research (CER) approaches that will enable the Center for Native and Pacific Health Disparities Research to integrate comparative effectiveness research methods with existing health disparities in Native and Pacific peoples.

Health & Human Svc, Dept/NIH - Natl Heart, Lung, & Blood Inst $163,039

Rho Kinase in Immune-Mediated Atherosclerosis

Boisvert, William Department of Medicine

The studies in this project are focused on the role of Rho kinase in the immune system and inflammation as well as immune-related vascular function. The major goals of the study are to study the involvement of Rho-kinase in various macrophage function and to examine how this affects immune-mediated atherogenesis.

Health & Human Svc, Dept/NIH - Natl Heart, Lung, & Blood Inst $890,587

Role of Oxidative Stress and Inflammation in HIV Cardiovascular Risk

Shikuma, Cecilia M Department of Medicine

This project will study the increased CV risk in the HIV population on HAART and statins which may have efficacy in reducing inflammation.

Health & Human Svc, Dept/NIH - Natl Heart, Lung, & Blood Inst $141,150

Anti-inflammatory Cytokines in Atherosclerosis

Boisvert, William John A. Burns School of Medicine

The aims of this grant are to understand how anti-inflammatory cytokines such as IL4 and IL10 affect the atherogenic process. Both systemic as well as local effects of the cytokines will be assessed using in vitro and in vivo animal models.
Gifts, Grants, and Contracts for August 2010

Research

DHHS-Dept of Health and Human Services

Health & Human Svcs, Dept/NIH - Natl Inst of Allergy & Infectious Dis

$352,886

Intraspecies Transmission and Infectivity of Insectivore-Borne Hantaviruses

Yanagihara, Richard

Department of Pediatrics

The primary objective of the proposed research is to determine the transmission of a new hantavirus in shrews and the infectivity of this virus to humans.

Health & Human Svcs, Dept/NIH - Natl Inst on Drug Abuse

$665,626

The Project Success Model: Evaluation of A Tiered Intervention

Wills, Thomas

Cancer Research Center

The study is a two-level intervention, with one level (universal program) aimed at deterring initiation while second level (indicated program) is aimed at preventing escalation of use. This approach has the goal of reducing adolescent substance use problems.

DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)

$66,827

Support for UH Hilo to Carry out Monk Seal and Cetacean Stranding Response Program Needs

Turner, Jason

Natural Sciences-UHH

Build the necessary capacity for monk seal response and cetacean stranding response and to assist organizations

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)

$141,111

Sea Grant College Program Institutional Program

Grau, E Gordon

Sea Grant College Program

To promote an innovative and effectively managed program of research, education, and outreach directed to the improved understanding, management, and wise use of marine resources of the state, region, and nation.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)

$273,001

Sea Grant College Program Institutional Program

Grau, E Gordon

Sea Grant College Program

To promote an innovative and effectively managed program of research, education, and outreach directed to the improved understanding, management, and wise use of marine resources of the state, region, and nation.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)

$30,000

Developing the Pacific Islands Ocean Observing System (PaciOOS)

Taylor, Brian

School of Ocean and Earth Science and Technology

Maintenance and continued development of the instrumentation, modeling, stakeholder engagement, and data management systems of the Hawaii Ocean Observing System (HiOOS), a regional component of the national Integrated Ocean Observing System (IOSS).

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)

$75,349

HURL Annual Funding (FY 2010)

Wiltshire, John C

Hawaii Undersea Research Laboratory

This proposal requests FY2010 funding for base operations of the Hawaii Undersea Research Laboratory.
Gifts, Grants, and Contracts for August 2010

Research

DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) $1,250,000

Exploring Our Fluid Earth: NOAA Ocean Science Curriculum, Teacher Professional Development and Public Outreach
Duncan, Kanesa Sea Grant College Program

We propose to develop, evaluate, and distribute an online curriculum consisting of six coastal and ocean science curriculum modules and student materials for middle and high school level. Our project will also include an extended television series highlighting scientist case studies in an original statewide television series.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) $278,487

Sea Grant College Program Institutional Program
Grau, E Gordon Sea Grant College Program

To promote an innovative and effectively managed program of research, education, and outreach directed to the improved understanding, management, and wise use of marine resources of the state, region, and nation.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) $100,002

Sea Grant College Program Institutional Program
Grau, E Gordon Sea Grant College Program

To promote an innovative and effectively managed program of research, education, and outreach directed to the improved understanding, management, and wise use of marine resources of the state, region, and nation.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc $82,230

Review and Possible Refinement of the EFH and HAPC Designations all Federal Management Unit Species in the Western Pacific Region, Excluding Hawaiian Bottomfish Management Unit Species
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research

To research new data available for the Pacific Islands managed fisheries & where appropriate, develop recommendations for refining the Essential Fish Habitat (EFH) & Habitat Areas of Particular Concern (HAPC) components for all federally managed spies in the Western Pacific Region (WPR)

Commerce, Dept/NOAA - Natl Marine Fisheries Svc $3,485,880

Sustaining Healthy Coastal Ecosystems (JIMAR Coastal Research Program)
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research

This project will support multi-disciplinary efforts to assess, monitor, map, restore, and protect coral reef ecosystems of the U.S.-affiliated Pacific Islands.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc $427,624

Pacific Islands Observer Program Initiative
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research

To analyze data collected by observes aboard commercial longline fishing vessels. The data collected includes basic biological information from target & non-target species; catch & discard rates; fishing gear descriptions; catch & interactions rates of sea turtles; seabirds and marine mammals.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc $322,979

Pelagic Fisheries Research Program
Weng, Kevin Joint Institute for Marine and Atmospheric Research

These funds will cover various topics of project research focusing on Pacific pelagic fish species to be conducted at various locations. Therefore, specific indirect cost rates, locations, certifications and attachments are not addressed here but will be addressed at the time each proposal is submitted.
Gifts, Grants, and Contracts for August 2010

Research

DOC-Dept of Commerce

Commerce, Dept/NOAA - Natl Marine Fisheries Svc
FISHERIES OCEANOGRAPHY: Protected Species Research Program
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research
To conduct research on Pacific Islands area protected species populations, their ecology, and relationships to environmental and oceanographic parameters.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc
Understanding Key Habitats of Commercial Demersal Fishes-The Deep Seven Bottomfish Complex in Hawaii
Weng, Kevin Joint Institute for Marine and Atmospheric Research
We propose to study the fine-scale habitat use of bottomfish in two of the most heavily exploited regions of Hawaii- Penguin Banks and Makapu’u - and determine if the fishery closed area established in this area is functioning to protect key habitats at a scale appropriate to enhance spawning stock.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc
Marine Resource Dynamics Assessment Program (MARDAP): Stock Assessment Research Program
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research
To assess (1) the status of billfish, tuna, coastal pelagic species, bottomfish, coral reef fish and lobster stocks in the Western & Central Pacific Ocean, (2) impacts of fishing on these stocks.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc
FISHERIES OCEANOGRAPHY: Methods Aimed to Reduce Sea Turtle-Longline Interactions: Tests of Modified Baits and Fishing Gear
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research
To identify a method to reduce or eliminate interactions between long-line fishing gear and turtles, and to conduct bycatch mitigation research with sharks.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc
Pelagic Fisheries Research Program
Weng, Kevin Joint Institute for Marine and Atmospheric Research
These funds will cover various topics of project research focusing on Pacific pelagic fish species to be conducted at various locations. Therefore, specific indirect cost rates, locations, certifications and attachments are not addressed here but will be addressed at the time each proposal is submitted.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc
Pelagic Fisheries Research Program
Weng, Kevin Joint Institute for Marine and Atmospheric Research
These funds will cover various topics of project research focusing on Pacific pelagic fish species to be conducted at various locations. Therefore, specific indirect cost rates, locations, certifications and attachments are not addressed here but will be addressed at the time each proposal is submitted.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc
Protected Resources Environmental Compliance Initiative (PREC)
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research
To establish & Maintain enhanced management based on scientific research for protected resources. Research conducted will be used to assist resource managers in decision making & directing further investigation in habitat & protected species, enhance interagency cooperation, conduct research, outreach & education.
Gifts, Grants, and Contracts for August 2010

Research

DOD-Department of Defense

Defense, Dept - Air Force Space & Missile Syst Ctr

LEONIDAS: Low-Earth Orbit Nanosat-Integrated Defense Autonomous Systems
Flynn, Luke Paul Hawaii Institute of Geophysics and Planetology
The LEONIDAS project will design, build, test, launch, and operate small spacecraft in low-Earth orbit.

Defense, Dept - U.S. Army Med Rsch Acqstn Actvty (USAMRAA)

Simulation Learning PC Screen-Based vs. High Fidelity
Qureshi, Kristine School of Nursing and Dental Hygiene

DOE-Dept of Energy

Energy, Dept - FED

RECOVERY ACT -- Updating and Improving HEP Infrastructure at the University of Hawaii
Browder, Thomas E Department of Physics and Astronomy
A one-time Federal Stimulus Fund disbursement to restore and improve infrastructure of the Department of Energy High Energy Physics University Groups. Receipt of requested equipment will foster improvements in the quality of our current and future research program.

Energy, Dept - FED

Research in High Energy Physics: Technical Progress Report & FY08 Budget Request
Browder, Thomas E Department of Physics and Astronomy
Primary purpose of this research is the understanding of the properties of the elementary constituents of matter and the nature of the fundamental forces between them.

Energy, Dept - FED

Browder, Thomas E Department of Physics and Astronomy
Primary purpose of this research is the understanding of the properties of the elementary constituents of matter and the nature of the fundamental forces between them.

DOI-Dept of Interior

Interior, Dept - National Park Service

Research and Education Strategies to Revegetate Disturbed Areas
Duffy, David C Department of Botany
Support efforts at Hawaii Volcanoes NP to research native plant propagation and revegetation techniques and develop education program to make available successful techniques.

Interior, Dept - U.S. Fish & Wildlife Service

Evaluation of Population Status Surveys for the Endangered Mariana Islands Butterflies Hypolimnas octocula marianensis and Vagrans egistina
Rubinoff, Daniel Z Department of Plant and Environmental Protection Sciences
We will be assessing the conservation status of two endangered butterflies in the Mariana Islands.
Gifts, Grants, and Contracts for August 2010

Research

DOI-Dept of Interior

Interior, Dept - U.S. Fish & Wildlife Service

Plant Extinction Prevention Program

Duffy, David C
Department of Botany
Prevent the extinction of 54 plant species on Kauai at high risk for imminent extinction through propagule collection, tissue culture and propagation.

Interior, Dept - U.S. Fish & Wildlife Service

Project Support for Maui Invasive Species Committee

Duffy, David C
Department of Botany
Test the efficacy of citric acid dispersal methods for eradicating coqui frog populations in Maliko Gulch on Maui.

Interior, Dept - U.S. Geological Survey

Wildlife Health in the Pacific

Ziegler-Chong, Sharon
Pacific Aquaculture-UHH
Continue studies of the impacts and ecology of avian pox, malaria, and mosquito vectors on the avifauna of the Hawaiian Islands

Interior, Dept - U.S. Geological Survey

Cooperative Research Between University of Hawaii at Manoa and Hawaii Volcano Observatory: Real Time Understanding of Eruption Dynamics and Mechanisms

Houghton, Bruce F.
Department of Geology and Geophysics
The Principal tasks to be undertaken will be research focused on geological, geophysical, and geochemical analysis and interpretation of data on Kilauea, Mauna Loa, and other Hawaiian volcanoes as well as studies in the field of volcano hazards, monitoring, and eruption impacts in Hawaii.

Interior, Dept - U.S. Geological Survey

Hydraulic Properties of the Northern Guam Lens Aquifer System, Territory of Guam, USA

El-Kadi, Aly I
Water Resources Research Center
This study will estimate aquifer properties of the northern Guam aquifer. Data from constant-rate aquifer tests and stepdrawdown tests area available to estimate aquifer properties. Tidally-influenced water levels and salinity time-series at discrete depths also are available to estimate aquifer properties.

Interior, Dept - U.S. Geological Survey

Population Trends, Distribution, and Insect Prey Base of the Hawaiian Hoary Bat

Ziegler-Chong, Sharon
Pacific Aquaculture-UHH
Fully gather information needed for the re-evaluation of the conservation status of the Hawaiian hoary bat

Interior, Dept - U.S. Geological Survey

Population Dynamic and Pollination Ecology of the Threatened Haleakala Silversword

Krushelnickky, Paul D
Department of Plant and Environmental Protection Sciences
The project will produce an accurate baseline map and census of silversword populations in Haleakala National Park, develop a monitoring protocol to track population trends, and investigate the effects of isolation and invasive ants on the pollination ecology of the silversword.
Gifts, Grants, and Contracts for August 2010

Research

DOI-Dept of Interior

Interior, Dept - U.S. Geological Survey $50,000
Precipitation Climatology Projections for Mid and Late 21st Centuries for the Main Hawaiian Islands
Hamilton, Kevin P Department of Meteorology
This proposal is for a simple assessment and downscaling of the IPCC global model results on precipitation for the main Hawaiian Islands. The goal is to produce maps showing the range of likely precipitation climatology changes over in Hawaii at Mid-century and end of 21st century.

Interior, Dept - U.S. Geological Survey $55,584
Hawaiian Forest Bird Research: Publishing Bird Trends
Ziegler-Chong, Sharon Pacific Aquaculture-UHH
Complete data analysis and production of reports on the status and distribution of Hawn forest birds, including population estimates, distribution maps, and trends analysis.

Interior, Dept - U.S. Geological Survey $40,000
PBIN: PIERC Data Management & Invasive Species
Ziegler-Chong, Sharon Pacific Aquaculture-UHH
Pacific Island Ecosystems Research Center (PIERC) data initiatives

Interior, Dept - U.S. Geological Survey $114,000
Northwestern Hawaiian Islands Climate Change: Predicting Risks of Island Extinctions Due to Sea Level Rise
Ziegler-Chong, Sharon Pacific Aquaculture-UHH
Use sea level rise models for the Northwestern Hawaiian Islands to evaluate the impacts to US Pacific Island wildlife and develop multidimensional decision tools.

Federal Agencies

Homeland Security, Dept - FED $600,000
The National Center for Island, Maritime and Extreme Environment Security (CIMES)
Gaines, James R Vice President for Research
The goal of this Center of Excellence is to develop leading-edge, multi-institutional, focused education and basic research program capable of delivering the scientific advances necessary to permit revolutionary improvements in America's ability to protect its citizens, infrastructure, economy, and environment in the Maritime, Remote Island, and Extreme Environment domain.

Foreign

Consulate General of Mexico (San Francisco) $14,915
Mexicans in Hawaii: Recent Flows and the Community’s Problems and Prospects
Das Gupta, Monisha Ethnic Studies Department
This pilot project initiates a study of Mexican residents on the islands of Oahu, Maui and Hawaii (Big Island) in order to generate a qualitative report that presents a preliminary profile of the community, and its current challenges and prospects in the state of Hawaii.
Gifts, Grants, and Contracts for August 2010

Research

Foreign

Hellenic Society for the Study & Protection of the Monk Seal
Genetic Status of the Critically Endangered Mediterranean Monk Seal
Schultz, Jennifer K Hawaii Institute of Marine Biology
Assess the genetic diversity and population structure of the Mediterranean monk seal.

Korean Institute of Geoscience and Mineral Resources (KIGAM)
Validation of Water Budget Analyses and Modeling for the Sustainable Groundwater Availability in Jeju Island
El-Kadi, Aly I Water Resources Research Center
Using data supplied by KIGAM, the project will (a) validate the water budget analyses, and (b) construct hydrological models of groundwater flow and groundwater availability on Jeju Island, Korea.

Hawaii- Business and Other

Axis Engineering Technologies Inc
Autonomous Gateway Wave Glider Supporting Acoustic Tracking and Communication for a Portable Underwater Tracking Range
Bingham, Brian S Department of Mechanical Engineering
The goal of the proposed research is to adapt a new class of energy harvesting autonomous vehicle, the Wave Glider, to support the portable underwater tracking range concept.

Hawaii- Government Agencies

Defense, Dept - Civil Defense-HI
Tsunami Inundation Maps for Hawaii
Cheung, Kwok Fai Department of Ocean and Resources Engineering
Develop tsunami inundation maps for Hawaii.

Health, Dept - HI
National Coastal Condition Assessment Program; Continuing Assessment of Coastal Waters of Hawaii 2010
Dollar, Steven J School of Ocean and Earth Science and Technology
Conduct surveys of 55 randomly selected coastal and estuarine marine habitats throughout the main Hawaiian Islands to continue to add to the standardized database that is being assembled by the USEPA for all coastal states of the US.

Health, Dept - HI
Evaluation of Hawaii Gatekeeper Training Initiative
Inazu, Judith K Social Science Research Institute
Develop and implement the evaluation for the Hawaii Gatekeeper Training Initiative, a Statewide suicide prevention initiative and each funded prevention project, under the direction of the Hawaii State Department of Health.

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI
Prevention, Detection Management of Invasive Forest Ants in the Pacific Region
Duffy, David C Department of Botany
Implement a regional ant prevention plan for Hawaii and selected U.S. affiliated Pacific Islands.
Gifts, Grants, and Contracts for August 2010

Research

Hawaii- Government Agencies

Land & Natural Res, Dept - Div of Forestry & Wildlife-Hi
Detection and Control of Coqui Frogs on O‘ahu
Duffy, David C  Department of Botany
Conduct research and control of coqui frogs on Oahu.

Hawaii- Health Organizations

Kuakini Medical Center
Epidemiology of Aging and Dementia Autopsy Research (ARRA - Competitive Revision)
Uyehara-Lock, Jane H  Department of Pathology
To provide pathology services and analysis of autopsy results as part of the on-going Honolulu Asia Aging Study. This award is a subcontract from Kuakini Medical Center to the University of Hawaii.

Hawaii- Non-Profit Organizations

University of Hawaii Foundation
A Textbook for Teaching Sanskrit
Sharma, Rama N  Department of Indo-Pacific Languages and Literatures
I propose to complete the writing, and editing of my book, A Textbook for Teaching the Sanskrit Language, in consultation with traditional Sanskrit scholars, at Varanasi, India.

University of Hawaii Foundation
High Density Recording Research
Kavcic, Aleksandar  Department of Electrical Engineering
Development of meta signal dependent detectors for data storage.

University of Hawaii Foundation
W.M. Keck Research Center in Astrochemistry at UHM
Kaiser, Ralf Ingo  Department of Chemistry
To set up a laboratory in astrochemistry.

University of Hawaii Foundation
Magnetic Levitation System Development
Berkelman, Peter John  Department of Mechanical Engineering
To continue support for research related to Magnetic Levitation.

University of Hawaii Foundation
Measure Up Castle
Slovin, Hannah  Curriculum Research and Development Group
Measure Up Castle
Gifts, Grants, and Contracts for August 2010

Research

Mainland- Business and Other

Adama Materials, Inc. $165,811
Nanotechnology Initiatives in Composites and Energy (NICE) - Phase I
Ghasemi Nejhad, Mehrdad N Department of Mechanical Engineering
We will development high-performance nanomaterials, nanostructures, nanoresins, nanoforest, and nanocomposites for structural composites and renewable energy applications.

EA Engineering, Science, and Technology, Inc. $160,000
Agreement by UH Coastal Geology Group to Participate in the Study of Regional Sediment Management by U.S. Army Corps Eng.
Fletcher, Charles H III Department of Geology and Geophysics
To assess shoreline processes in the Hawaiian Islands.

Health Research, Inc $86,000
Chemical Markers of Heterocyclic Aromatic Amines for Human Biomonitoring
Le Marchand, Loic Cancer Research Center
Establish noninvasive chemical markers of heterocyclic aromatic amines (HAAs) to allow for an assessment of long-term HAA exposure through the diet to determine cancer risk.

Mainland- Health Organizations

National League for Nursing $14,910
Avatar/Patient Program for Enhanced Learning (APPLE)
Codier, Estelle E Department of Nursing
The purpose of this study is to expand on a pilot study that explored the use of computer based avatar/patient simulations in nursing learning activities. The proposed research will evaluate the impact of these technologies on student outcomes and faculty resources.

Mainland- Non-Profit Organizations

Hill (Joseph H) Memorial Foundation, Inc. $920
Enhancing Protea Flowering in Hawaii
Criley, Richard A Department of Tropical Plant and Soil Sciences
In year 1, protea bushes are cut back to induce uniform shoot return. In year 2, 3-flush shoots are treated with cytokinin to induce flower initiation. Flowering should occur in late year 2 or early year 3.

National Childhood Cancer Foundation $20,000
Master Subcontract Agreement - Children's Oncology Group and the University of Hawaii National Childhood Foundation
Wilkinson, Robert W Cancer Research Center
Sponsor pays set dollar amount per patient for patients enrolled on Children Oncology Group clinical trials as follows: enrollment on ancillary studies, specimens submitted for tissue banking, and patient followup data submitted.

UNAVCO $13,076
Data Communications Support for GPS Observations of Crustal Deformation Associated with the 2010 Chile Earthquake
Brooks, Benjamin A Hawaii Institute of Geophysics and Planetology
Installing satellite/cellular communications for new GPS stations.
Gifts, Grants, and Contracts for August 2010

Research

**National Aeronautics and Space Administration**

- **Formation, Evolution, and Detection of Ocean-Bearing Planets Close to Cool Stars**
  Gaidos, Eric J.  Department of Geology and Geophysics
  To investigate how rocky planets with the mass of earth or larger may occur close to late-type stars, whether they will have substantial fluid envelopes of water and other volatiles, how those envelopes may effect the interior evolution.
  **$43,831**

- **From Planetesimals to Terrestrial Planets: A Study of the Formation of Habitable Planets in Binary Star Systems**
  Haghighipour, Nader  Institute for Astronomy
  To study the formation of habitable planets in binary and multiple star systems, and the mechanism of the delivery of water to such planets.
  **$51,875**

- **Improved Detention and Monitoring of Volcanic Activity Using MODIS**
  Wright, Robert  Hawaii Institute of Geophysics and Planetology
  Developing a new method for detecting volcanic activity using satellite data by using NASA's MODIS sensor.
  **$154,060**

- **Dynamics of Anisotropic Mean and Time-varying Structures of Ocean Circulation**
  Maximenko, Nikolai A  Department of Oceanography
  Satellite data, in situ observations, and outputs of advanced numerical models will be used jointly to study the dynamics of anisotropic mesoscale stationary and propagating jet-like structures recently discovered in the upper ocean.
  **$47,608**

- **Water and Habitable Worlds**
  Meech, Karen J  Institute for Astronomy
  This project will trace the history of water from its formation in the interstellar medium to incorporation in the solar system, how it reaches the terrestrial planets, and its role in life.
  **$18,060**

- **Remote Sensing and Geologic Studies of Planetary Crusts**
  Hawke, Bernard Ray  Hawaii Institute of Geophysics and Planetology
  This is a proposal to conduct remote sensing and geologic studies of the Moon and Mercury in order to better understand their composition and evolution.
  **$92,050**

- **Regional Planetary Image Center**
  Hawke, Bernard Ray  Hawaii Institute of Geophysics and Planetology
  This is a proposal for the continued support of the Pacific Regional Planetary Image Facility at the University of Hawaii. Continued support is needed for the development and operations of the center.
  **$59,095**

- **Support Services, Maintenance and Calibration of the TLRS-4 System**
  Kuhn, Jeffrey R.  Institute for Astronomy
  To continue the history of Haleakala as one of two fixed, well-defined geometric reference points in NASA's tectonic motion data solution.
  **$26,920**
Gifts, Grants, and Contracts for August 2010

Research

National Aeronautics and Space Administration

National Aeronautics & Space Administration $150,889

The NASA Infrared Telescope Facility: Mission Support and Solar System Observations
Tokunaga, Alan Institute for Astronomy

We propose to provide NASA with observations and research data aimed at providing support of spacecraft missions and basic research in support of the Planetary Astronomy program.

National Science Foundation

National Science Foundation $963,111

NEESR-CR: Impact Forces from Tsunami-Driven Debris
Riggs, H Ronald Department of Civil and Environmental Engineering

Carry out experiments and develop simulation models for tsunami-driven impact forces on structures.

National Science Foundation $426,800

Collaborative Research: CAMEO 2009 - A Novel Tool for Validating Trophic Position Estimates in Ecosystem-Based Fisheries Models
Popp, Brian N Department of Geology and Geophysics

Collect ecological and geochemical results on marine organisms that are used to test the output of fisheries models.

National Science Foundation $253,115

Support for the Generic Mapping Tools
Wessel, Paul Department of Geology and Geophysics

This proposal seeks fund to maintain and further develop the Generic Mapping Tools (GMT), an Open Source scientific data analysis and visualization package used by ten thousands of scientists worldwide.

National Science Foundation $997,185

Collaborative Research: Mixing in the Equatorial Thermocline (MIXET)
Richards, Kelvin Department of Oceanography

Observations and modeling of finescale structure in the western equatorial Pacific.

National Science Foundation $561,994

Does Habitat Specialization Drive Population Genetic Structure of Oceanic Zooplankton?
Goetze, Erica Department of Oceanography

Global comparative study of the population genetic structure of oceanic zooplankton. Goal: Test the concept that depth habitat is the dominant factor driving patterns of dispersal and gene flow in open ocean species.

National Science Foundation $12,000

Doctoral Dissertation Research: Chinese Sentence Processing by First and Second Language Speakers
Schwartz, Bonnie D Department of Second Language Studies

This dissertation research examines whether learners of Chinese as a second language are able to make use of different sources of information in real-time processing of sentences in Chinese and what underlying mechanisms cause their processing difficulties.
Gifts, Grants, and Contracts for August 2010

Research

National Science Foundation

National Science Foundation
Development of the H4RG-15: A Low Cost, High Performance 4096x4096 pixel Array for Infrared Astronomy and the Building Block for Very Large IR Mosaic Focal Planes
Hall, Donald N
Institute for Astronomy
To demonstrate full production of a high performance 4Kx4K infrared array, the H4RG-15, with integrated application specific integrated circuit controller at an affordable 2 cents per pixel.

National Science Foundation
Center for Microbial Oceanography: Research and Education (C-MORE)
Karl, David M.
Department of Oceanography
To establish a Center for Microbial Oceanography Research & Education (C-MORE) as a vehicle for rapid progress in the fields of microbial ecology any genomics, including research and education.

National Science Foundation
Aqueous-Alkaline/Carbonate Biocarbon Fuel Cell Development
Antal, Michael J JR
Hawaii Natural Energy Institute
Large quantities of lignocellulosic residues accompany the production of bioethanol and biodiesel fuels. These residues can be efficiently and quickly converted into biocarbons. Carbon fuel cells can generate electricity from biocarbons with a theoretical thermodynamic efficiency of 100%. The proposal goal is the development of a moderate-temperature carbon fuel cell.

National Science Foundation
Collaborative Research: Crustal Accretion and Mantle Processes Along the Subduction-Influenced Eastern Lau Spreading Center
Dunn, Robert A.
Department of Geology and Geophysics
Active and passive source seismic experiment along the Eastern Lau Spreading Center to image crustal and mantle structure.

National Science Foundation
Airborne Measurements of the Physio-Chemistry and Evolution of Aerosols in the Tropics during the Pacific Atmospheric Sulfur Experiment (PASE)
Clarke, Antony D
Department of Oceanography
Employ a variety of airborne instruments to study changes in the aerosol size which is needed to understand the marine sulfur cycle and how it relates to the marine aerosol on cloud properties.

National Science Foundation
Collaborative Research: Volcanic Eruptions on the Galapagos Spreading Center: Effect of Variable Magma Supply on Eruption and Magma Chamber Processes on Mid-Ocean Ridges
Sinton, John M
Department of Geology and Geophysics
Geological study of volcanic eruptions along the Galapagos Spreading Center, using submersible, surveying and geochemical analyses of rocks.

National Science Foundation
Collaborative Research: The Southeast Mariana Forearc Riffs and the Southernmost Mariana Trough Spreading Center: New Insights into the Tectonics and Magmatism of Intraoceanic Arcs
Martinez, Fernando
Hawaii Institute of Geophysics and Planetology
This is a collaborative research proposal to carry out a marine geophysical and rock sampling cruise in the western Pacific Ocean and to analyze the data acquired.

$2,529,063
$4,000,000
$15,393
$112,581
$86,376
$108,495
$103,035
Gifts, Grants, and Contracts for August 2010

Research

National Science Foundation

Dynamics of the Boreal Summer Intraseasonal Oscillation: Multi-Scale Interactions
Wang, Bin, Department of Meteorology

Diagnostic and modeling studies of multi-scale interactions essential to boreal summer intraseasonal oscillation.

Dissecting Galaxies with Bright Stars and HII Regions
Kudritzki, Rolf-Peter, Institute for Astronomy

First, the need for a distance measuring tool that is insensitive to both the patchy extinction in star-forming, gas-rich galaxies and to variations of metallicity. Second, the surprisingly high uncertain abundance scale used to infer the chemical composition of star-forming galaxies.

Water in the Asteroid Belt: Main Belt Comet Discovery, Characterization, and Modeling
Meech, Karen J, Institute for Astronomy

We will analyze data about main belt comets, their characteristics and orbits.

Southern Hemispheric Climate and Carbon Cycle Response to Orbital Forcing During the Last ~400,000 Years
Timmermann, Axel, Department of Oceanography

Conduct a series of transient climate model simulations with an earth system model of intermediate complexity and to analyze to elucidate the underlying mechanisms of orbitally-paced Pleistocene climate change in the Southern Hemisphere.

Nosal, Eva-Marie, Department of Ocean and Resources Engineering

The proposed work will apply modern signal processing methods to underwater acoustics.

HCC: Small: Human Centered Information Integration for the Smart Grid
Johnson, Philip M, Department of Information and Computer Sciences

Development of technologies and experiments to determine how to achieve positive, sustained behavioral change from consumers with respect to their energy usage.

CIF: Small: Collaborative Research: Minimum Energy Communications in Wireless Networks
Host-Madsen, Anders, Department of Electrical Engineering

The goal of the project is to find the minimum energy it requires to transmit one bit of information over a wireless network.

Collaborative Research: Large-Scale, Long-Term, Multi-Directional, Cross-Hole Experiments in the Upper Oceanic Crust Using a Borehole Observatory Network
Cowen, James P, Department of Oceanography

To participate in tracer transport project-injection of tracers into ocean basaltic crust via seafloor observatories. Proper deploy & recover instrumented sled to seafloor observatories.
Gifts, Grants, and Contracts for August 2010

Research

**National Science Foundation**

- **Robust Physiological Signal Extraction using High Precision Hardware and Personalized Signal Processing**
  - Boric-Lubecke, Olga
  - Department of Electrical Engineering
  - The research scope of this project is to develop data-driven solutions for extracting and interpreting physiological data obtained using robust Doppler radar sensing.
  - **$114,280**

- **Collaborative Research: Modeling and Synthesis Study of a Natural Iron Fertilization Site in the Southern Drake Passage**
  - Measures, Christopher
  - Department of Oceanography
  - This proposal is about a model and synthesis study of coupled physical and biogeochemical transport processes, coupled Fe recycling, evolution of a plankton community and export flux, and potential changes in these fundamental physical, biogeochemical and ecosystem processes under climate changes scenarios in the Southern Ocean.
  - **$44,348**

- **A Newly Discovered Hawaiian Volcano on Kaena Ridge**
  - Sinton, John M
  - Department of Geology and Geophysics
  - New sample collections using ROV Jason and follow-on geochemical and isotopic analyses of the samples to investigate a newly discovered Hawaiian volcano on the Kaena Ridge.
  - **$107,452**

- **Symmetric Stability and Instability of Ocean Currents**
  - Kloosterziel, Rudolf C
  - Department of Oceanography
  - This work is aimed at discovering the proper stability conditions for realistic Ocean currents and vortices with respect to symmetric perturbations. It uses new theories I discovered recently which have never been used before and will help establish under which circumstances oceanic flows are stable and when not.
  - **$273,945**

**US Colleges and Universities**

- **Collaborative Research: The Role of Marine Crenarchaeota in Nitrification and Links Among Biogeochemical Processes in the Eastern Tropical North Pacific and Gulf of California**
  - Popp, Brian N
  - Department of Geology and Geophysics
  - Study the microbial ecology and nitrogen chemistry in the waters of the eastern North Pacific Ocean and in the Gulf of California.
  - **$55,645**

- **Collaborative Research: The Role of Marine Crenarchaeota in Nitrification and Links Among Biogeochemical Processes in the Eastern Tropical North Pacific and Gulf of California**
  - Popp, Brian N
  - Department of Geology and Geophysics
  - Study the microbial ecology and nitrogen chemistry in the waters of the eastern North Pacific Ocean and in the Gulf of California.
  - **$33,902**

- **Stardust-NExT Project**
  - Meech, Karen J
  - Institute for Astronomy
  - To define the rotation period of the comet to assess the observing strategy and to enable the determination of the appropriate strategies for targeting the impact crater on the flyby of comet 9P/Tempel 1.
  - **$78,663**
Gifts, Grants, and Contracts for August 2010

Research

US Colleges and Universities

Drew, Charles R., University
Drew RCMI Translational Research Network (RTRN)
Yanagihara, Richard Department of Pediatrics
Funding of small grants program. Funding for a Small Grants Facilitator to assist with the Small Grants Program.

Georgia, University of
Functional Genomics of Maize Centromeres
Presting, Gernot G E Department of Molecular Biosciences and Bioengineering
Three additional corn centromeres will be studied in the proposed work. Complete physical maps and sequence will be generated as permitted by current technology.

Hawaii Pacific University
Ecological Factors and Drug Use of Native Hawaiian Youth
Helm, Susana Department of Psychiatry
Examine the ecological risk and protective factors relevant to youth of Hawaiian ancestry in Hawaii.

Miami, University of
Genetic Mechanisms of Anthracycline Cardiotoxicity in Pediatric Cancer Survivors
Gerschenson, Mariana John A. Burns School of Medicine
Functional analysis of mitochondrial DNA copies/cell and oxidative phosphorylation protein and enzyme activity will be measured in non-identifiable lymphocytes and buccal cells.

South Dakota State University
Regional Biomass Feedstock Partnership - Herbaceous Bioenergy Crop Field Trials
Uehara, Goro Department of Tropical Plant and Soil Sciences
Five varieties of energycane will be studied to assess their growth and development for possible use as bioenergy feedstock crop under a Sun Grant program involving 7 states. Mississippi State University serves as the lead institution for the Department of Energy.

Southern California, University of
A Genome Wide Association Study of Prostate Cancer in African Americans
Le Marchand, Loic Cancer Research Center
To conduct a whole genome association study of prostate cancer in African Americans to identify susceptibility factors for this disease and replicate the findings in other ethnic groups in the Multiethnic Cohort Study.

Southern California, University of
Expert Judgment Elicitation Methods
Im, Eric College of Business and Econ-UHH

Vermont, University of
Sex Chromosomes in Fetal Programming of Susceptibility to EAE
Ward, Monika Anna Dept Anatomy, Biochemistry, Physiology and Reproductive Biol
The objective of this collaborative project is to define how the organizational masculinization of experimental allergic encephalomyelitis (EAE) in female mice by action of the Y chromosome-encoded susceptibility locus (Yeae) is achieved during gestation, and to identify the mechanism of action of Yeae that is mechanistically most relevant to multiple sclerosis (MS).

Research

Subcount: 143 Subtotal: $49,315,907
Gifts, Grants, and Contracts for August 2010

Non-Research

DA-Dept of Agriculture

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED

Sustainable Communities Project Through Successful Community Partnerships

Ikeda, Carol  S        Department of Family and Consumer Sciences

SCP Through SCP is Hawaii's children, youth, and families *at risk* community based project to strengthen the capacity of children, youth, and families to participate in a culturally diverse, economically challenged and technological advanced society.

Agriculture, Dept - FED

University of Hawaii Extension IPM 2010

Hara, Arnold  H        Department of Plant and Environmental Protection Sciences

the University of Hawaii Extension IPM Program encompasses education and training for extension personnel in specialized crops (floriculture, tropical fruit, macadamia nuts, vegetables) and animal agriculture and their stakeholders in Integrated Pest Management practices that reduce risk to humans and the environment.

Agriculture, Dept - FED

Biotechnology Outreach Program

Wieczorek, Anna  M.        Department of Tropical Plant and Soil Sciences

Improved understanding of agricultural biotechnology issues by growers, marketers, legislators and consumers.

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Natl Inst of Health (NIH)

Parallel MRI for Substance Abuse Research

Stenger, Victor  Andrew        Department of Medicine

Career development award - to continue as an independent investigator on won NIH projects as well as mentor junior investigators and participate in other clinical research projects.

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources

Pacific Education and Research for Leadership in Science (PEARLS)

Withy, Kelley  Marie        Department of Complementary and Alternative Medicine

To increase science knowledge and interest in science careers through an inquiry based science curriculum for 7th and 8th grade students in the Pacific region. Additional funding is requested for travel, curricular supplies and staff time to provide teacher training in the rural and isolated areas of the Pacific. The planned activities include expanded foundational science teacher education and train-the-trainer seminars.

Health & Human Svc, Dept/NIH - Natl Inst of Diabetes,Digestive,Kidney Dis

Multimedia Intervention to Motivate Ethnic Teens to be Designated Organ Donors

Albright, Cheryl  L.        Cancer Research Center

Recruit teen groups from church and high school clubs, n = 38 groups; 500 teens, Deliver Interactive Multimedia Intervention to clubs in this condition and deliver comparison intervention - on prevention of Underage Drinking of Alcohol - for this condition. Assess designated organ donor status on driver's license/ID and family discussions.
Gifts, Grants, and Contracts for August 2010

Non-Research

DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)  
$16,430

**ASG CRAG - WESTPAC - UHH Marine Science Undergraduate Fellowship Program**  
Crosby, Michael P  
Chancellor, University of Hawaii at Hilo-UHH  
Provide support for the continuation of CRAG-WESTPAC-UHH Marine Science Undergraduate Fellowship Program for the full term of successful attainment of a BS/BA in Marine Science by a student from American Samoa.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)  
$99,992

**UHH: Support and Enhancement of the Hawaii Cetacean Rehabilitation Facility**  
Turner, Jason  
Natural Sciences-UHH  
Support and enhance operation of the newly developed Hawaii Cetacean Rehabilitation Facility at UHH; support high caliber of rehabilitative care; evaluate, assess, and modify existing rehabilitation protocols to strengthen ability to care for stranded marine mammals.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)  
$59,352

**Supporting Pacific Islander Capacity Building Through Sea Grant Extension Activities**  
Okimoto, Darren K  
Sea Grant College Program  
To build capacity of Pacific Islanders in fisheries science, marine biology and other related careers through participation in two University of Hawaii Sea Grant College program extension projects.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)  
$233,313

**Healthy Seafood Hawaii**  
Takahashi, Ronald K  
Chancellor, Kapiolani Community College  
Curriculum development, publication of healthy Hawaii seafood cookbook with health information, training workshops and public health education classes for health care professionals, dieticians, and the general public with cooking demonstrations and hands-on cooking classes, disseminate information thru web sites.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)  
$207,311

**Addressing Bottlenecks to the Development of Hawaii's Bivalve Industry**  
Howerton, Robert D  
Sea Grant College Program  
Hawaii is a natural locale for a vigorous bivalve culture industry, but the grow-out of edible bivalves is absent from the aquaculture landscape. The overall goal of this project is to address numerous constraints to the development of a commercial bivalve industry for the State of Hawaii.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)  
$100,000

**Aquaculture Extension Services for New Farmers on the Big Island and Maui**  
Hopkins, Kevin D  
Pacific Aquaculture-UHH  
The goal of the project is to provide technical assistance to fish farmers on the Big Island and Maui with emphasis on new farmers. Further, when commercial suppliers cannot meet the demand for seed stock, the project will provide seed of tilapia, mullet and freshwater prawns at market prices.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc  
$11,257

**Pu'uhonua: Ensuring a Safe Place for Honu (Sea Turtles) in Hawaii Through Visitor Industry Outreach & Education**  
Barrett, Jennifer  
Sea Grant College Program  
Pu'uhonua will increase sea turtle a wareness and encourage proper public viewing by the public through outreach to the visitor industry, including distribution of printed materials, a sea turtle awareness training program for key visitor industry staff, and seasonal educational outreach presentations in Waikiki.
Gifts, Grants, and Contracts for August 2010

Non-Research

**DOC-Dept of Commerce**

Commerce, Dept/NOAA - Natl Marine Fisheries Svc  $19,963
**Aquaponics Workshop 2010**  
Ron, Tetsuzan Benny  Water Resources Research Center  
Support for travel expenses for three (3) visiting distinguished researchers/speakers in aquaponics for the State of Hawaii during August 2010. The guest speakers will provide hands-on lectures and demonstrations that will assist aquaponics farmers in Hawaii and the Pacific basin improve their knowledge and skills.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc  $150,000
**Development of Online Training in Fisheries and Aquaculture Program for Hawaii and the Pacific Basin, Phase 2**  
Ron, Tetsuzan Benny  Water Resources Research Center  
The goal is to establish Online Training in Fisheries and Aquaculture Program (OTFAP) at the University of Hawaii that will give service in education and training to all the Pacific Islanders. This educational program is aimed to promote practical employment in the practice of fisheries and aquaculture.

**DOE-Dept of Energy**

Energy, Dept - FED  $750,000
**Smart Grid Curriculum Development Project**  
Quigley, Peter S  Vice President for Community Colleges  
Develop curriculum for training technicians in the design, deployment and maintenance of Smart Grid electric power transmission and distribution.

**DOI-Dept of Interior**

Interior, Dept - U.S. Fish & Wildlife Service  $120,000
**Project Support for Coordinating Group on Alien Pest Species (CGAPS) Agency Coordination and Outreach Efforts**  
Duffy, David C  Department of Botany  
Promote inter-agency coordination and promote public awareness on invasive species issues.

Interior, Dept - U.S. Fish & Wildlife Service  $64,455
**Volcano Rare Plant Facility - Clemontias**  
Kaneshiro, Kenneth Y  Pacific Biosciences Research Center  
Provide services for the collection, propagation and reintroduction to prevent extinction of six endangered PEP species.

**ED-Dept of Education**

Education, Dept - FED  $378,499
**Maui County Upward Bound Program**  
Tagomori, Alvin R  Chancellor, University of Hawaii Maui College  
The Upward Bound Program affords Maui County secondary students who are economically disadvantaged and have a “high academic risk for failure” the opportunity to acquire the basic skills and information necessary for enrolling and succeeding in postsecondary educational programs.
Gifts, Grants, and Contracts for August 2010

Non-Research

ED-Dept of Education

Education, Dept - FED $251,243
National Resource Center for East Asian Studies at the University of Hawaii
Huey, Robert N Center for Japanese Studies
The grant will support curriculum development (language and non-language), outreach activities such as workshops/conferences and library development in East Asian Studies at the University of Hawaii

Education, Dept - FED $328,500
Foreign Language and Area Studies Fellowship in East Asian Studies
Huey, Robert N Center for Japanese Studies
The grant will support student scholarships in East Asian Studies at the University of Hawaii.

Education, Dept - FED $500,000
UHM GEAR UP Waipahu
Agbayani, Amy Vice Chancellor for Student Affairs
GEAR UP Waipahu provides 675 low-income middle school students access to rigorous academic preparation and financial information to enter and succeed in postsecondary education. The program features an innovative language and culture education program, an online learning initiative, a strong parent involvement component, tutoring, mentoring, and professional development.

Education, Dept - FED $135,000
National Resource Center and Foreign Language and Area Studies Fellowships - FLAS
Hereniko, Vilsoni Center for Pacific Islands Studies
The work to be funded includes instruction, conferences, and a community outreach program, all designed to promote knowledge of the Pacific Islands. The development of language materials and the enhancement of library resources comprise two other key areas of the project.

Education, Dept - FED $372,805
Educational Talent Search
Sanders, Beth H Chancellor, Hawaii Community College
Provide services addressing academic preparedness/personal development to 900 low-income, first generation secondary school students and high school/college dropouts at 10 West Hawaii schools. Increase postsecondary enrollment by impacting completion rates, percentage of students completing admissions/financial aid applications, and individuals re-entering postsecondary options.

Education, Dept - FED $9,133
Fulbright-Hays Doctoral Dissertation Award
Tokuno, Kenneth A Graduate and Professional Education
Conduct research outside the United States in the fields of Anthropology, English, Geography, History, Sociology and Theatre as part of doctoral dissertation work.

Education, Dept - FED $394,000
CIBER 2010-14: Promoting US Competitiveness through Enhanced Collaboration, Communication, and Trade in the Asia Pacific Region
Daniel, Shirley June Shidler College of Business
Promoting US Competitiveness through Enhanced Collaboration, Communication, and Trade in the Asia Pacific region.
Gifts, Grants, and Contracts for August 2010

Non-Research

ED-Dept of Education

Education, Dept - FED
Student Support Services Program (UHM)
Yoshimoto, Melven M
Special Student Services
Provide academic and other support services to eligible (based on income and 1st generation college student) students enrolled at UHM to increase their retention and graduation. Foster a positive campus climate supportive of these students.

Education, Dept - FED
Student Support Services (TRIO)
Matsui, Sandra Y
Chancellor, Honolulu Community College
Purpose: To increase the college persistence, graduation and transfer rate of low-income, first generation college students and students with disabilities. Services: direct student support, tutoring, counseling, instruction, grant aid.

Education, Dept - FED
National Resource Center for Pacific Islands Studies at the University of Hawaii
Hereniko, Vilsoni
Center for Pacific Islands Studies
The grant will support student scholarships in Pacific Islands Studies at the University of Hawaii

Education, Dept - FED
Health Policy Center
Soifer, Aviam
William Richardson School of Law
Continue efforts to establish a permanent Health Law Policy Center at the University of Hawaii and focus on 3 main goals: improving health care access in Hawaii; serve as a forum for research, training and discourse on health law policy in the context of Hawaii; and promote and improve health care access in Hawaii.

Education, Dept - FED
Student Support Services
Inouye, Roy
Chancellor, Windward Community College
Support services for low income, first generation and disabled students.

Education, Dept - FED
Halauloa II
Yamane, Noreen
Chancellor, Hawaii Community College
The proposed project will (1) increase preparation, engagement, retention, and persistence of 45 unprepared student ts in Huluena and/or HLS; (2) increase effectiveness of HLS classes to prepare students; and (3) increase student success through expansion of campus-community engagements.

Education, Dept - FED
Sulong-Aral: A Program to Provide College Preparatory Education for Filipino Students
Pecsok, Michael
Chancellor, Leeward Community College
To help students of Filipino ancestry pursue and complete higher education.
Gifts, Grants, and Contracts for August 2010

Non-Research

Federal Agencies

Environmental Protection Agency  $100,000
  Clean Bees and Fruitful Farms: How Pesticide Reduction Can Help Hawaii's Growers and the Environment
  Villalobos, Ethel  Department of Plant and Environmental Protection Sciences
  The goals of this project are the selective replacement/reduction of high risk insecticides used for cucurbit production and the elimination of synthetic chemicals used for the control of Varroa mite infestations in honeybee colonies. The proposed program promotes healthy farm environments where pollinators can thrive.

Environmental Protection Agency  $17,000
  Ecological Impacts of Open-Ocean Aquaculture: Evaluating Bottom-up Disturbances on Food Webs Using Stable Isotope Analyses-Fellow D. Lin
  Bailey-Brock, Julie H  Department of Zoology
  The purpose of this study is to examine the specific ecological impacts of open-ocean fish farming aquaculture on marine food webs. We intend to use stable isotope analysis and manipulative field experiments to determine how food web structure and dynamics are affected by changes in nutrient/re

Foreign

American Samoa, Govt of  $16,430
  ASG CRAG - WESTPAC - UHH Marine Science Undergraduate Fellowship Program
  Crosby, Michael P  Chancellor, University of Hawaii at Hilo-UHH
  Provide support for the continuation of CRAG-WESTPAC-UHH Marine Science Undergraduate Fellowship Program for the full term of successful attainment of a BS/BA in Marine Science by a student from American Samoa

American Samoa, Govt of  $56,000
  Head Start Quality Improvement Funds for Professional Development Project
  Johnson, Richard T  Institute for Teacher Education
  Provide professional development course work in dual language learning, literacy, integrated cultural studies and video production, and cultural variation.

Commonwealth of Northern Mariana Islands  $108,072
  Project BRABU Evaluation and Data Management
  Roberts, Kelly D  Center on Disability Studies
  The evaluation team will develop and implement data collection, management, analysis, interpretation and reporting plans, and lead on this objective and ensure stakeholder input is fully integrated.

High Energy Accelerator Research Orgn (KEK)  $23,248
  JFY2010 US/Japan Program for Cooperation in High Energy Physics for the PID Detector
  Browder, Thomas E  Department of Physics and Astronomy
  Design, fabrication and evaluation of electro-mechanical structures for assessing the performance of the imaging Time of Propagation (iTOP) prototype for upgrade of the Belle II barrel particle identification detector.

Japan Foundation  $76,809
  Okinawan Studies in the United States
  Huey, Robert N  Center for Japanese Studies
  These projects include symposium, publications, curriculum development, faculty research, and library development.
Gifts, Grants, and Contracts for August 2010

Non-Research

Foreign

SBI ALA promo Co., Ltd $71,746

Use of the Dietary Supplement 5-ALA and its Relationship with Signs and Symptoms of Type II Diabetes
Rodriguez, Beatriz L Department of Complementary and Alternative Medicine
Double blinded randomized parallel-group comparison study to investigate if a relationship exists between the administration of dietary supplements containing 5-ALA and SFC and the signs and symptoms of Type II diabetes.

Hawaii- Business and Other

Navatek, Ltd $28,489

Ocean Engineering Internship
Cheung, Kwok Fai Department of Ocean and Resources Engineering
To continue the Ocean Engineering internship program with Navatek Ltd.

Research Corporation, University of Hawaii $249,997

REAL: Hawaii Youth Movement Against the Tobacco Industry
Steffen, Alana D Cancer Research Center
To raise awareness and educate Hawaii's youth about the manipulative targeting strategies used by the tobacco industry and to offer opportunities to take action.

Sea Engineering, Inc $28,489

Ocean Engineering Internship
Cheung, Kwok Fai Department of Ocean and Resources Engineering
Establish an Ocean Engineering Internship with Sea Engineering Inc., Waimanalo, Hawaii

Hawaii- Dept of Education

Education, Dept - HI $343,516

Proposal to Continue Funding of the UH National Foreign Language Resource Center (NFLRC), 2010-2014, under the Language Resource Centers Program
Schmidt, Richard W Department of Second Language Studies
The National Foreign Language Resource Center will continue to serve as a resource to improve the nation's capacity to teach and learn foreign languages effectively through projects, publications, and professional development activities, with a focus on less commonly taught languages, particularly of Asia and the Pacific.

Hawaii- Government Agencies

Business, Econ Dev & Tourism, Dept (DBEDT) - HI $33,750

Building Community Capacity Through Education & Outreach to Address Land-Based Pollution in Maunalua Bay
Wanger, Jolie School of Ocean and Earth Science and Technology
To utilize the Non-point source Education for Municipal Officials (NEMO) network's resources to implement workshops and other educational resources for a community program with malama Maunalua.
Gifts, Grants, and Contracts for August 2010

Non-Research

Hawaii- Government Agencies

City & County of Honolulu
Elderly Affairs Division Legal Services for Elders
Pietsch, James H  William Richardson School of Law
Provide legal services to economically and socially needy elders 60 years old and older.

City & County of Honolulu
Elderly Affairs Division Caregiver Support
Pietsch, James H  William Richardson School of Law
Provide legal services to family caregivers and their care recipients.

City & County of Honolulu
Hanauma Bay Education Program 2008-12
Okimoto, Darren K  Sea Grant College Program
To provide technical and professional services to develop and manage and educate and interpretative program for the Hanauma Bay Nature Preserve.

County of Hawaii
Hot Shower Treatment for Disinfesting Potted-Plants of Coqui Frogs and Other Invasive Pests
Hara, Arnold H  Department of Plant and Environmental Protection Sciences
Presently, there is only one commercial hot shower chamber available to 7 plant nurseries for treating 500 to 6000 plants per week prior to shipping inter-island and to California and Guam. This major bottleneck for exporting coqui-free plants from the Big Island will be alleviated with construction of a 2nd, improved chamber.

Hawaiian Affairs, Office of-HI
Native Hawaiian MSW Stipend Program
Matsuoka, Jon K  School of Social Work
Conduct an internship program and provide practicum stipends to Native Hawaiian MSW students.

Health, Dept - Child & Adolescent Mntl Hlth Div-HI
Subproject for Institution # 20100767
Nakamura, Brad J  Department of Psychology

Health, Dept - Child & Adolescent Mntl Hlth Div-HI
Clinical Therapy & Assessment, Department of Health
Nakamura, Brad J  Department of Psychology
To provide psychological treatment and assessment of children struggling with emotional and/or behavioral difficulties. This project trains graduate student clinicians and offers children and families needed psychological services.

Health, Dept - HI
EMS Planning and Development of Distant Learning on Maui, Kauai and Hawaii
Brumblay, Robert  Chancellor, Kapiolani Community College
Equipment, supplies and a trainer to support EMS education on Kauai, Maui and Hawaii
Gifts, Grants, and Contracts for August 2010

Non-Research

Hawaii- Government Agencies

Health, Dept - HI

Nutrition Education Curriculum Project - SNAP-ED
Serna, Alethea Kuulei Institute for Teacher Education
Design and develop a K-8 standards-based classroom nutrition education integrated curriculum for economically disadvantaged populations. Design and develop nutrition education units and activities for after school programs that serve economically disadvantaged populations. Provide training and evaluation plan.

$173,129

Health, Dept - HI

Sexual Violence Prevention Project
Quemuel, Christine A Vice Chancellor for Student Affairs
The UHM Women's Center will pilot the development of a model for permanent campuses infrastructure to address sexual violence prevention and victim services at Hawaii Community College and Honolulu Community College, followed by implementation at all other UH campuses in following years.

$125,000

Health, Dept - HI

REACT: Enforcement of Underage Alcohol Sales
Albright, Cheryl L. Cancer Research Center
Conduct and report results of statewide alcohol sales survey to determine the rate of alcohol sales to underage youth in retail stores and to support enforcement of liquor laws.

$196,500

Health, Dept - HI

Tobacco Sales Enforcement for Synar Amendment
Steffen, Alana D Cancer Research Center
Provide technical assistance to support county Police Departments in their operations to enforce HRS 709-908. This involves recruiting and training teams of adults and volunteer minors to participate in police operations, scheduling, and coordination of support activities. Inspection data will be collected and reported.

$228,637

Health, Dept - HI

Education Research Services for the Implementation of the Synar Amendment
Steffen, Alana D Cancer Research Center
A scientific sample of tobacco retail outlets will be visited by undercover minors and volunteer adults. The minors will attempt to purchase tobacco in each of the outlets. Sales statistics will be collected and reported.

$81,000

Health, Dept - HI

Mental Health Proof of Concept
Morelli, Paula T School of Social Work
Targeted organizational needs assessment, training, and technical assistance, cost effectiveness monitoring and sustainability planning for Child and Adolescent Mental Health division proof of concept.

$20,338

Health, Dept - HI

Cooking Up A Rainbow (SNAP-Ed)
Takahashi, Ronald K Chancellor, Kapiolani Community College
Train the trainers program, healthy cooking demonstration and hands-on experiential nutrition education activities for YMCA to conduct hands-on nutrition based culinary education programs and participants of Kalihi Palama Health Clinic nutrition education programs.

$66,304
Gifts, Grants, and Contracts for August 2010

Non-Research

Hawaii- Government Agencies

Human Services, Dept - HI  $773,449

DHS Task Order #9: Hawaii Child Welfare Continuous Quality Improvement Project
Stein, Lee  Chancellor, University of Hawaii Maui College
UH Maui College will assist the Department of Human Services with enhancing caseworker skills and with the implementation of a comprehensive quality assurance system for child welfare services. Services will be funded by federal reimbursements earned under Title IV-E of the Social Security Act.

Human Services, Dept - HI  $450,910

Learning to Grow 2010-2011
Fong, Grace  Department of Family and Consumer Sciences
Project will develop, disseminate, and evaluate educational outreach programs and resource materials for families receiving child care subsidies from the State, with the aim of improving the quality of care provided to children, ages birth to five.

Human Services, Dept - HI  $517,022

Memorandum of Agreement Relating to Quality Care for Home-Based and Center-Based Child Care Providers
Yuen, Sylvia H L  Center on the Family
Develop curriculum, training, assessment, and evaluation for increasing the quality of child care in all settings in the state. Develop a database to monitor activity and generate reports.

Human Services, Dept - HI  $26,400

Vocational Skills Instruction for First-to-Work Participants
Hoshiko, Carol A  Chancellor, Kapiolani Community College
Provide continuing education instruction for eligible First-to-Work, Department of Human Services students in existing classes noted under previous agreement.

Human Services, Dept - HI  $903,530

Training Required to Implement Hawaii's Child Welfare Program Improvement Plan - Task Order #Law 3
Tochiki, Laurie Arial  William Richardson School of Law
Provide training for the department of Human Services, and for students in law, nursing, education and social work that addresses key program improvement strategies to the Child Welfare System.

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI  $102,500

Volcano Rare Plant Facility (10)
Kaneshiro, Kenneth Y  Department of Botany
Propagation and maintenance of endangered Hawaiian plant species at the Volcano Rare Plant Facility

Hawaii- Health Organizations

University Clinical, Ed & Research Assoc. (UCERA)  $200,000

Reimbursement Agreement Fiscal Year 2011 - Agreement No. SF11-UCERA-OD-ADMIN
Hedges, Jerris  John A. Burns School of Medicine
Administrative services in support of UCERA's provision of physician services & JABSOM's clinical education programs.
Gifts, Grants, and Contracts for August 2010

Non-Research

Hawaii- Health Organizations

Waianae Coast Comprehensive Health Ctr  $11,327
   Waianae Health Academy - Ola Loa Ka Na'auao Nurse Aide & Job Skills Development Program
Umehira, Ronny T  Chancellor, Leeward Community College
Provide vocational career classes, student support services, tutoring, testing, academic counseling and other educational and academic services and activities to students through the Waianae Health Academy.

Hawaii- Non-Profit Organizations

Hawaii Assn of Independent Schools  $8,000
   Hawaii Educational Networking Consortium (HENC)
Lassner, David K  Information Technology Services
HENC serves to coordinate and advance education and research networks in the State of Hawaii.

Kokua Kalihi Valley  $28,400
   Medical Legal Partnership with Kokua Kalihi Valley - Health Law Partnership
Shek, Dina M  William Richardson School of Law
Funding will be used to support the salary/fringe of a Jr. Specialist who will be working with Kokua Kalihi Valley as well as the Health Law Policy program. Goal is to work toward the creation of a new Health Law Policy Center at UH and assist to improve the health and well-being of children in Hawaii through the center.

Kokua Kalihi Valley  $6,000
   Medical Legal Partnership with Kokua Kalihi Valley (KKV) and HWLF
Shek, Dina M  William Richardson School of Law
To support law student interns, consultants and office supplies for the partnership with KKV to provide law clinic services, community advocacy and related work to support the KKV advocacy project.

Maui Economic Opportunity, Inc  $22,200
   MEO Small Business and Residential PV Training Program II
Sakamoto, Clyde M  Chancellor, University of Hawaii Maui College
SLIM shall deliver a SECOND small business and residential Photovoltaic Systems Certification training program to MEO, SLIM (with support from VITEC) will provide a training manual for the program, recruit instructors, and serve as the educational coordinator.

Oceanic Institute - Ctr for Tropical & Subtropical Aquaculture (CTSA)  $20,000
   Pacific Regional Aquaculture Information Service for Education (PRAISE) & Publications Year 9
Anderson, Kristen L  Library
continue the PRAISE program to promote transfer of information within the Pacific aquaculture community including: communicating current aquaculture news and ongoing information services.

Olelo Community Television  $501,363
   University of Hawaii - Supplemental Projects 2010
Okimoto, Hae K  Information Technology Services
Produce course and programs for public access channel, Oceanic 55.
Gifts, Grants, and Contracts for August 2010

Non-Research

Hawaii- Non-Profit Organizations

Olelo Community Television
Hawaii Educational Networking Consortium (HENC)
Lassner, David K
Information Technology Services
To provide oversight of the two educational access cable television channels (channel 55 and 56) provided for accredited education of Oahu.

Pacific Marine Life Foundation
Malama Maunalua: Restoration Through Education and Outreach
Grau, E Gordon
Sea Grant College Program
To undertake and assist in a comprehensive restoration of Maunalua Bay and its adjacent watersheds. UH Sea Grant will utilize a public education program aimed at building awareness and stewardship among residents, the larger local community, key decision-makers, and visitors based on successful ReefTeach, ReefWatch, and ReefTalk activities and on our Hanauma Bay Education Program.

Tri-Isle Resource Conservation & Dev Council
Support for the Maui County Invasive Species Committee Project: FY 10
Duffy, David C
Department of Botany
Prevent, control and eradicate the most serious invasive species threats in the county of Maui, focusing heavily on Miconia calvescens.

University of Hawaii Foundation
2010 Pauley Course on Ocean Acidification
Atkinson, Marlin J
Hawaii Institute of Marine Biology
Teach a course on ocean acidification & publish a book on its effects on coral reefs. Money at UH Foundation. Contact Emeline Kawabata.

University of Hawaii Foundation
Japanese American Veterans Collection Archivist
Mochida, Paula T
Library
Please refer to job description attachment (per Wendy Wong).

University of Hawaii Foundation
Capturing the Momentum: P3 Initiative 2010
Housman, April
Ka Haka'Ula O Ke'Elilikani-UHH

University of Hawaii Foundation
Microbial Oceanography - Moore Foundation
Karl, David M.
Department of Oceanography
To train the next generation of scientists in the discipline of microbial oceanography.

University of Hawaii Foundation
UH Hilo CAFNRM Post Doc Position
Steiner, William
College of Agriculture, Forestry-UHH

Amount

$20,000
$10,000
$191,720
$33,548
$17,100
$144,383
$110,000
$200
Gifts, Grants, and Contracts for August 2010

Non-Research

Hawaii- Non-Profit Organizations

| University of Hawaii Foundation | $929,611 |
| Moore Foundation Award: 2008-2012 |
| Karl, David M. | Department of Oceanography |
| To support David Karl and his research in marine microbiology. |

Mainland- Business and Other

| Eli Lilly & Company | $90,684 |
| The Impact of LY2189265 vs. Insulin Glargine in Combination with Insulin Lispro for the Treatment to Target of Type 2 Diabetes Mellitus (AWARD-4) |
| Arakaki, Richard F | Department of Medicine |
| The purpose of this study is to assess the benefits and risks of 2 doses of LY2189265 (0.75 mg/wk and 1.5 mg/wk) compared to daily basal insulin glargine in patients with type 2 diabetes who are treated in combination with |

Smithsonian Astrophysical Observatory | $104,088 |
| The Most Obscured Super-Massive Black Holes - Fellow E. Treister |
| Sanders, David Bruce | Institute for Astronomy |
| Provide post-doctoral support for Dr. Treister. |

Mainland- Non-Profit Organizations

| NSABP Foundation, Inc | $40,300 |
| Addendum to TIND - 118, Industrial Master Purchased Services Agreement, Subpart B-42, National Surgical Adjuvant and Bowel Project (NSABP) |
| Sumida, Kenneth | Cancer Research Center |
| Project staff performs all study-related requirements and all regulatory requirements for the project in Hawaii, which includes patient screening for study eligibility, patient enrollment, protocol education, and submission of required patient specimens/data to sponsor and regulatory documents as needed. |

| NSABP Foundation, Inc | $69,100 |
| Amendment #4, TFED 40-118, Federal Purchased Services Agreement, Treatment Protocols National Surgical Adjuvant Breast and Bowel Project (NSABP) |
| Sumida, Kenneth | Cancer Research Center |
| Project staff performs all study-related requirements and all regulatory requirements for the project in Hawaii, which includes patient screening for study eligibility, patient enrollment, protocol education, and submission of required patient specimens/data to sponsor and regulatory documents as needed. |

National Aeronautics and Space Administration

| National Aeronautics & Space Administration | $30,000 |
| Connecting and Constraining Data-Driven Solar Atmosphere Models Through Observations: Studying EUV Emission in Realistic Flare-CME Models |
| Roussev, Ilii | Institute for Astronomy |
| This project aims to include the important physics of Extreme Ultraviolet emission into a global 3D model of the solar atmosphere. This improved model will be used to best constrain observable properties of the corona as well as initiation mechanisms and subsequent evolution of solar flares and Coronal Mass Ejections. |
Gifts, Grants, and Contracts for August 2010

Non-Research

National Science Foundation

National Science Foundation $404,128
MRI: Acquisition of Instrumentation for Transmission Electron Microscopy at the University of Hawai'i
Dunlap, Marilyn F Pacific Biosciences Research Center
The goal of this project is to acquire a new transmission electron microscope and ultramicrotome to support research and training in the biological and materials sciences at UHM.

National Science Foundation $71,288
Eco-DAS: Ecological Dissertations in the Aquatic Sciences
Kemp, Paul Department of Oceanography
The Eco-DAS symposium series designed to facilitate workshops and conferences to encourage and foster interdisciplinary collaborations among early career scientists to benefit both science and researchers in Aquatic Sciences.

National Science Foundation $381,524
Graduate Research Fellowship Program
Garrod, Peter V Graduate and Professional Education
To provide graduate students the opportunity to further their education by funding their research projects.

National Science Foundation $88,995
STEP UP - Science Talent Expansion Program in Urban Polynesia
Pagotto, Louise Chancellor, Kapiolani Community College
The College's proposed project integrates research-based best practices derived from literature and site visit sources and specific successful campus innovations (civic engagement and e-portfolios) to provide a comprehensive team-based approach to students pursuing an A.S. degree in Life or Physical Science and/or successful STEM transfer to UHM or UHH.

National Science Foundation $568,279
SUPER-M: School and University Partnership for Educational Renewal in Mathematics
Chyba, Monique Department of Mathematics
This request is for supplemental funding for an international component for John Marriott, a GK-12 fellow. The activities in this proposal will greatly advance John's Ph.D. research, provide education in the area of control theory, and further his understanding of K-12 issues by study of other educational systems.

National Science Foundation $4,000,000
IMUA III: Pacific High Island Evolutionary Biogeography: Impacts of Invasive Species, Anthropogenic Activity and Climate Change on Hawaiian Focal Species
Gaines, James R Vice President for Research
This capacity building proposal will enhance our science and technology capabilities for understanding and predicting how invasive species, anthropogenic activities and climate change impact the biodiversity, ecosystem function and current or potential human use of Hawaiian focal species and includes education, outreach and workforce components.

National Science Foundation $250,001
Oceanographic Technical Services, 2009-2011, R/V Kilo Moana
Shor, Alexander N School of Ocean and Earth Science and Technology
Support for shipboard technical services on UH research vessels.
Gifts, Grants, and Contracts for August 2010

Non-Research

National Science Foundation

Connecting the Islands: Cyber Connectivity for Science and Technology in Hawaii
Gaines, James R, Vice President for Research
This project will provide 10 Gbps (gigabits per second) connectivity for science & technology research and education among UH-Hilo, UH-Manoa, Kapiolani CC and the Maui High Performance Computing Center.

Oceanographic Technical Services, 2009-2011, R/V Kilo Moana
Shor, Alexander N, School of Ocean and Earth Science and Technology
Support for shipboard technical services on UH research vessels.

Enabling Hawaii to COMPETE: Seizing the Opportunity for Equitable Connectivity
Lassner, David K, Information Technology Services
This project will acquire and implement two 10Gbps circuits from Hawaii to the West Coast to improve connectivity to U.S. national research and education networks for all members of Hawaii’s statewide research and education community and their national and international collaborators.

US Colleges and Universities

Harvard University

Institute for Astronomy Support For Christopher Beaumont
Williams, Jonathan P, Institute for Astronomy
Christopher Beaumont will be working with Harvard Professor Alyssa Goodman at the Harvard Center for Astrophysics (CfA) on a collaborative project as part of this PhD thesis research. He will be analyzing data from mauna Kea telescopes and comparing with numerical simulations and other observational data.

Multimedia Online Module for Business Korean
Park, Mee Jeong, Department of East Asian Languages and Literatures
In order to enhance students’ strategies on politeness appropriate in Korean culture, this project will collect video clips from authentic Korean TV programs containing real life situations where judgment based on politeness is required in the interaction.

Kirkwood Community College

CCI-Multi-National Student Program 2011
Richards, Leon, Chancellor, Kapiolani Community College
Provide quality educational programs, professional development, employment skills and first-hand understanding of American society to under-served, non-elite international students to enable them to contribute to their home nations future economic and democratic development.

CCI-Egypt Student Program 2011
Richards, Leon, Chancellor, Kapiolani Community College
Provide quality educational programs, professional development, employment skills and first-hand understanding of American society to under-served, non-elite international students to enable them to contribute to their home nation’s future economic and democratic development.
## Gifts, Grants, and Contracts for August 2010

### Non-Research

#### US Colleges and Universities

<table>
<thead>
<tr>
<th>Institution</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lorain County Community College</td>
<td>$17,686</td>
</tr>
<tr>
<td>National Center of Excellence in Welding Education and Training: Weld-Ed Educator Training Phase I</td>
<td></td>
</tr>
<tr>
<td>Silliman, Mark D</td>
<td>Chancellor, Honolulu Community College</td>
</tr>
<tr>
<td>National Center of Excellence in Welding Education and Training FY11</td>
<td>$43,952</td>
</tr>
<tr>
<td>Silliman, Mark D</td>
<td>Chancellor, Honolulu Community College</td>
</tr>
<tr>
<td>Provide training designed for welding Instructors that want to take a survey course on welding technologies. This training covers technologies in SMAW, OFC, GMAW, GTAW, CAC-A and PAC, where applicable in the welding and welding education industries with best practices, teaching methodology and welding demonstration.</td>
<td></td>
</tr>
<tr>
<td>Michigan State University</td>
<td>$30,083</td>
</tr>
<tr>
<td>PILI Deaf Education Project</td>
<td></td>
</tr>
<tr>
<td>Pagotto, Louise</td>
<td>Chancellor, Kapiolani Community College</td>
</tr>
<tr>
<td>Partner with Michigan State University (MSU) to establish pre-service program to prepare teachers of deaf and hard of hearing students for Hawaii and the Pacific, including local project coordination, recruitment, practicum supervision, liaison with MSU PILI Project Leadership Team.</td>
<td></td>
</tr>
</tbody>
</table>

| Subcount: | 106 | Subtotal: | $24,111,726 |
| Count: | 249 | Total: | $73,427,633 |
Funds Received from UH Foundation for 08/01/2010 - 08/31/2010

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation $33,548
"2010 Pauley Course on Ocean Acidification"
Atkinson, Marlin J Hawaii Institute of Marine Biology
Teach a course on ocean acidification & publish a book on its effects on coral reefs. Money at UH Foundation.
Contact

University of Hawaii Foundation $144,383
"Capturing the Momentum: P3 Initiative 2010"
Housman, April Ka Haka'Ula O Ke'Elikolani-UHH

University of Hawaii Foundation $110,000
"Microbial Oceanography - Moore Foundation"
Karl, David M. Department of Oceanography
To train the next generation of scientists in the discipline of microbial oceanography.

University of Hawaii Foundation $929,611
"Moore Foundation Award: 2008-2012"
Karl, David M. Department of Oceanography
To support David Karl and his research in marine microbiology.

University of Hawaii Foundation $17,100
"Japanese American Veterans Collection Archivist"
Mochida, Paula T Library
Please refer to job description attachment (per Wendy Wong).

University of Hawaii Foundation $200
"UH Hilo CAFNRM Post Doc Position"
Steiner, William College of Agriculture, Forestry-UHH

Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation $1,267
"Magnetic Levitation System Development"
Berkelman, Peter John Department of Mechanical Engineering
To continue support for research related to Magnetic Levitation.

University of Hawaii Foundation $6,438
"W.M. Keck Research Center in Astrochemistry at UHM"
Kaiser, Ralf Ingo Department of Chemistry
To set up a laboratory in astrochemistry.
Funds Received from UH Foundation for 08/01/2010 - 08/31/2010

Research

Hawaii- Non-Profit Organizations

<table>
<thead>
<tr>
<th>Institution</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>University of Hawaii Foundation</td>
<td>$20,000</td>
</tr>
<tr>
<td>&quot;High Density Recording Research&quot;</td>
<td></td>
</tr>
<tr>
<td>Kavcic, Aleksandar</td>
<td></td>
</tr>
<tr>
<td>Department of Electrical Engineering</td>
<td></td>
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<tr>
<td>Development of meta signal dependent detectors for data storage.</td>
<td>$743</td>
</tr>
<tr>
<td>University of Hawaii Foundation</td>
<td></td>
</tr>
<tr>
<td>&quot;A Textbook for Teaching Sanskrit&quot;</td>
<td></td>
</tr>
<tr>
<td>Sharma, Rama N</td>
<td></td>
</tr>
<tr>
<td>Department of Indo-Pacific Languages and Literatures</td>
<td></td>
</tr>
<tr>
<td>I propose to complete the writing, and editing of my book, A Textbook for Teaching the Sanskrit Language, in</td>
<td>$20,500</td>
</tr>
<tr>
<td>University of Hawaii Foundation</td>
<td></td>
</tr>
<tr>
<td>&quot;Measure Up Castle&quot;</td>
<td></td>
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<tr>
<td>Slovin, Hannah</td>
<td></td>
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<tr>
<td>Curriculum Research and Development Group</td>
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<tr>
<td>Measure Up Castle</td>
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Count: 11  Total: $1,283,790
Extramural Research Awards  
for the Month of  
August 2010  
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA-Dept of Agriculture</td>
<td>19</td>
<td>$2,449,409</td>
<td>4.97%</td>
</tr>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>19</td>
<td>$13,586,007</td>
<td>27.55%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td>19</td>
<td>$10,273,030</td>
<td>20.83%</td>
</tr>
<tr>
<td>DOD-Department of Defense</td>
<td>2</td>
<td>$2,399,887</td>
<td>4.87%</td>
</tr>
<tr>
<td>DOE-Dept of Energy</td>
<td>3</td>
<td>$1,725,000</td>
<td>3.50%</td>
</tr>
<tr>
<td>DOI-Dept of Interior</td>
<td>13</td>
<td>$1,750,872</td>
<td>3.55%</td>
</tr>
<tr>
<td>Federal Agencies</td>
<td>1</td>
<td>$600,000</td>
<td>1.22%</td>
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<tr>
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<tr>
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<td>1</td>
<td>$266,809</td>
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<tr>
<td>Hawaii- Government Agencies</td>
<td>5</td>
<td>$666,291</td>
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<tr>
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<td>1</td>
<td>$86,738</td>
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<td>Hawaii- Non-Profit Organizations</td>
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<td>Mainland- Non-Profit Organizations</td>
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<td>$33,996</td>
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<td>National Aeronautics and Space Administration</td>
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<td>$644,388</td>
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<tr>
<td>National Science Foundation</td>
<td>25</td>
<td>$13,054,325</td>
<td>26.47%</td>
</tr>
<tr>
<td>US Colleges and Universities</td>
<td>11</td>
<td>$1,178,143</td>
<td>2.39%</td>
</tr>
</tbody>
</table>

**Total:** 143 $49,315,907 100%
## Extramural Non-Research Awards
for the Month of
August 2010
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA-Dept of Agriculture</td>
<td>3</td>
<td>$269,830</td>
<td>1.12%</td>
</tr>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>3</td>
<td>$610,217</td>
<td>2.53%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td>9</td>
<td>$897,618</td>
<td>3.72%</td>
</tr>
<tr>
<td>DOE-Dept of Energy</td>
<td>1</td>
<td>$750,000</td>
<td>3.11%</td>
</tr>
<tr>
<td>DOI-Dept of Interior</td>
<td>2</td>
<td>$184,455</td>
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<td>ED-Dept of Education</td>
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<td>$4,909,374</td>
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<tr>
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<tr>
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<tr>
<td>Hawaii- Business and Other</td>
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<tr>
<td>Hawaii- Dept of Education</td>
<td>1</td>
<td>$343,516</td>
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<tr>
<td>Hawaii- Government Agencies</td>
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<td>$4,874,299</td>
<td>20.22%</td>
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<td>Hawaii- Health Organizations</td>
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<td>Hawaii- Non-Profit Organizations</td>
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<tr>
<td>National Science Foundation</td>
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<td>$7,653,909</td>
<td>31.74%</td>
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<td>$254,204</td>
<td>1.05%</td>
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<td><strong>Total:</strong></td>
<td><strong>106</strong></td>
<td><strong>$24,111,726</strong></td>
<td><strong>100%</strong></td>
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</table>
Extramural Research Awards
Year to Date: 07/01/10 - 08/31/10
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA-Dept of Agriculture</td>
<td>26</td>
<td>$3,562,352</td>
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<tr>
<td>DHHS-Dept of Health and Human Services</td>
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<td>$25,626,849</td>
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<td>DOC-Dept of Commerce</td>
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<td>DOD-Department of Defense</td>
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<td>$3,192,242</td>
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<td>4.00%</td>
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<td>Hawaii- Business and Other</td>
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<td>Hawaii- Government Agencies</td>
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<td>Hawaii- Non-Profit Organizations</td>
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<tr>
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<tr>
<td>Total:</td>
<td>276</td>
<td>$79,851,377</td>
<td>100%</td>
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</table>

Note: YTD amounts include adjustments.
Extramural Non-Research Awards
Year to Date: 07/01/10 - 08/31/10
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
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<td>DA-Dept of Agriculture</td>
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<td>0.61%</td>
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<tr>
<td>DHHS-Dept of Health and Human Services</td>
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<tr>
<td>DOC-Dept of Commerce</td>
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<td>0.86%</td>
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**Total:** 214 $44,104,544 100%

Note: YTD amounts include adjustments.