

Agricultural Development in the American Pacific (ADAP) Project

Project Progress Reports



Work from the period January to June 2008

**Presented at the
ADAP Board of Directors Meeting
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Fairbanks, Alaska**

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ADAP Introduction

The Agricultural Development in the American Pacific (ADAP) Project was formally organized by the five directors of the Land Grant institutions in Hawaii and the United States-affiliated Pacific Islands (USAPI) in 1988, with the deans/directors of the Land Grant institutions serving as the board of directors. The purpose of ADAP is to strengthen existing Land Grant programs by sharing and focusing resources on priority areas of common concern and interest. Priority areas are often unique to the Pacific region, having to do with tropical/subtropical island agriculture and cultural practices. Due to the unique natural and human resource base of the Pacific island agro-ecosystems, it is often not possible or appropriate to transfer results from temperate zone agricultural research, and materials for extension and teaching used by continental US Land Grant programs. ADAP supports applied research within the region, and the development of effective extension materials that are culturally appropriate. With these goals in mind, ADAP strives toward excellence:

ADAP Vision: ADAP enables sustainable environments, diverse economies, and strong communities.

ADAP Mission: ADAP advances the viability and security of Pacific Island agriculture and communities through collaborative programs that are culturally appropriate, socially acceptable, and economically viable and environmentally sustainable.

Participating institutions are American Samoa Community College, College of Micronesia, Northern Marianas College, University of Guam, and University of Hawaii. ADAP works in collaboration with the University of Alaska Fairbanks.

ADAP Funding Levels

ADAP Year	Fiscal Year	Actual ADAP Budget	Annual Change (Rescission)
Year 10	FY1997	\$533,403	
Year 11	FY1998	\$533,403	0.00%
Year 12	FY1999	\$527,904	-1.03%
Year 13	FY2000	\$527,904	0.00%
Year 14	FY2001	\$526,743	-0.22%
Year 15	FY2002	\$516,672	-1.91%
Year 16	FY2003	\$513,314	-0.65%
Year 17	FY2004	\$458,725	-10.63%
Year 18	FY2005	\$454,971	-0.82%
Year 19	FY2006	\$450,347	-1.02%
Year 20	FY2007	\$0	
Year 21	FY2008	\$345,950	-23.18% from Yr19

Management Services Project

Core Project

Project Coordination Team:	ADAP Project Manager and Regional Coordinators	
Funding Allocations and Expenses:		
	Year 19	\$234,056
	Year 21	\$199,593

PROBLEM STATEMENT AND POTENTIAL SOLUTION

Administrative services and program support are essential for planning and implementing ADAP activities for the five Land Grant institutions to collaborate on research, extension and training activities. Management Services is the primary means of collaboration for the ADAP Project.

Management Services includes the Home Office staff (project manager, coordinator and educational media specialist) based at the University of Hawaii with regional coordinators at each ADAP institution. The Home Office is responsible for organizing, planning, coordinating and providing overall support services for the ADAP project. They administer the USDA grant through the Research Corporation of the University of Hawaii (RCUH). Funds are allocated to the ADAP institutions in accordance with the plans of work, but distributed on a cost reimbursement basis. The Home Office maintains a fiscal system consistent with the needs of participating fiscal institutions, RCUH and USDA. Home Office staff prepares technical and administrative reports that promote the functions and accomplishments of ADAP. The Home Office provides administrative support for all UH-based ADAP projects. The regional coordinators are the link for the Home Office to communicate with the ADAP directors and project personnel throughout the region. Regional coordinators also provide support services to the project principal investigators and cooperators.

Management services is responsible for organizing the semi-annual ADAP board of directors meetings, at which the ADAP directors, project manager and coordinators plan, organize and make policy decisions for the project. They also maintain collaborative ties with other agencies.

OBJECTIVES

- Promoting accountability and a high standard of excellence
- Planning and coordination of ADAP projects, including follow-up activities for concluded projects
- Developing collaborative projects within the USAPI
- Planning and organization of semi-annual Board of Directors Meeting

RESULTS AND ACCOMPLISHMENTS FOR THE PERIOD: JANUARY TO JUNE 2008

American Samoa Community College (ASCC)

- The American Samoa Community College ADAP Director, Tapa'au Dr. Daniel Mageo Aga, currently the ADAP Chairman, attended the 2008 winter meeting

in Saipan on January 9 -11, 2008. At the winter meeting, Dr. Aga reported on the status of ASCC ADAP projects, reviewed status of overall ADAP Projects and recommended new projects to enhance agricultural programs in the American Pacific.

- ASCC hosted for the first time a Leadership Development Training for ASCC CNR employees and sent two students majoring in Agriculture & Life Science degree programs to two summer apprenticeship programs at the University of Puerto Rico and the Rocky Mountain Biological Laboratory in Colorado.

College of Micronesia (COM)

- Using the ADAP-COM Reporting System, COM was able to optimize the time and effort needed to complete the submission of Micronesia 2007 Annual Accomplishment Report and the 2008-2012 POW Update.
- Dr. Singeru Singeo participated in the ADAP Board of Directors meeting, in January 2008.

Northern Marianas College (NMC)

- The NMC progress coordinated the 2008 Winter meeting in Saipan and monitored account/project expenditures.

University of Guam (UOG)

- Funds under this project are used to pay for travel and per diem for the Director and Coordinator to attend the ADAP Summer and Winter Meetings. UOG'S ADAP Director and Coordinator attended the ADAP Winter 2008 Meeting in Saipan, January 9-10, 2008.
- Balance Summary and Request for Reimbursement Reports are prepared and submitted by CNAS Accountant and ADAP Coordinator. Transfer of funds memoranda are prepared and submitted to the ADAP Home Office for approval.
- Financial, budget, and project reports are prepared and submitted to the ADAP Home Office in a timely manner. Communication and interaction between ADAP institutions are maintained.

University of Hawaii (UH)

- The Home Office maintained financial records and processed payments for the collaborating institutions.
- The Home Office provided administrative support to our collaborators and colleagues. The Home Office staff have arranged for alternative financial support from other projects. Jim Hollyer is currently receiving half of his salary from a Hawaii Farm Bureau Federation Food Safety grant. Vanessa Troegner is receiving financial support from the Agribusiness Incubator Program (25%) and from the HFBF Food Safety grant (25%). These actions have reduced the salary/fringe expenses within the Home Office, making more funding available for project work.

- We have completed (and reviewed) the PIDDRS User Manual. It is ready for printing.
- UH has submitted the Year 21 ADAP Proposal, and the CRIS reports to the USDA.
- UH has submitted a No-Cost Extension for the USDA grant funding ADAP Year 17-19. With this NCE, the new termination date will be 09/01/2009.
- We updated our multistate profile (WERA1004) with NIMSS, submitted our activity report, and nominated ourselves for the Award for Excellence in Multistate Research.
- With the updates to FileMaker and Windows Internet Explorer, we uncovered a few flaws in the Pacific Reporting and Accountability Database. We are seeking assistance in fixing these inconsistencies. We are still working to prepare an instruction manual for distribution to the participating institutions.
- The ADAP website (<http://www.ctahr.hawaii.edu/adap2/>), the Pacific Region Avian Influenza website (http://www.ctahr.hawaii.edu/adap2/Avian_Flu/index.htm) and the Pacific Islands Networking website (http://www.ctahr.hawaii.edu/adap2/Pacific_Initiative/index.htm) were updated periodically. Links to the Pacific Region Avian Influenza website can be found under Training Resources of the Pacific Agrosecurity Program (<http://www.pacific-agrosecurity.org/>).

IMPACT OF THE PROJECT TO JUNE 2008

At ASCC, the Management Services project provided the administrative professional support to all the ADAP projects of the American Samoa Community College.

College of Micronesia (COM) staff had gained additional knowledge of the preparation of the Annual Report and the POW Update.

At University of Guam (UOG), the Management Services funds provide for timely support and strong lines of communication between all project collaborators.

At University of Hawaii (UH), Home Office services have worked to improve the efficiency of the project management, updated older ADAP products, and made information more accessible by updating the ADAP website.

CONTINUING ACTIVITIES: JULY TO DECEMBER 2008

At American Samoa Community College (ASCC), we will identify agricultural challenges in American Samoa and see how the American Samoa Community College and ADAP can best address these needs. We will promote ADAP's continuous contribution to the improvement of agricultural programs in American Samoa and the Pacific. We will continue to monitor the American Samoa Community College ADAP project expenditures and compliance.

At the College of Micronesia (COM), we will be following up on Micronesia IPM Plan of Action and organization of an IPM workshop, to be held probably in Guam. Also, we will be making travel arrangements for Dr. Singeo's participation in the summer meeting.

At Northern Marianas College (NMC), we will continue to hold our collaborators to the highest standard and monitor funding expenditures.

At University of Guam (UOG), we will keep the lines of communication open between the ADAP Home Office staff and the other ADAP institutions staff in order that information pertaining to the various ADAP projects is disseminated. We will ensure that reimbursement reports are prepared accurately and submitted in a timely manner.

At University of Hawaii (UH), we will begin writing the subcontracts for ASCC, COM, NMC, and UOG. Additionally, we will distribute a Plan of Work for Year 21. We continue to monitor the budget, communicate with the USDA, update the sub-contracts with the ADAP collaborators, and work to update older ADAP products with new technologies, or new information. We will continue to update and evolve the ADAP website to create a vital communication link between our many products.

Professional Development Project

New Core Project, replacing Human Resources and Capacity Building (HRCB), Enrichment Opportunities (EO), and Leadership Development (LEAD)

Project Coordination Team: ADAP Project Manager and Regional Coordinators

Funding Allocations and Expenses:

Year 19 (EO, HRCB and LEAD)	\$178,000
Year 21	\$70,000

PROBLEM STATEMENT AND POTENTIAL SOLUTION

The Professional Development Project is a composite of three projects funded during the FY2006: Leadership Development, Human Resources and Capacity Building, and Enrichment Opportunities. Although previously the Board of Directors sought to view each individual project as unique, upon further investigation, the Board found that the project goals were nearly identical. These three projects sought to improve institutional capacity through three different avenues. Further, the board found that each institution had sought to transfer funds between these three projects in order to meet the needs of the particular institution. Ultimately, each institution has a hierarchy of needs, and having funds dedicated to a low-priority need was not conducive to improving institutional capacity. At the Winter 2008 Board meeting, the directors agreed to combine the three projects to allow each institution greater freedom to focus on the areas most critical to improving the institution capacity. The Professional Development project has three focuses for improving institutional capacity: leadership development, staff enrichment opportunities, and educational opportunities for staff, faculty, and college and high school students.

Focus 1: Leadership development The growth and development of the Pacific Land Grant colleges is tied closely to the growth and development of the small island communities they serve. By supporting the development of strong leadership qualities, ADAP can give the colleges the best chance to make the organizational strides required by their clients and the communities.

Focus 2: Staff development By supporting staff development opportunities, staff training, and institutional initiatives, ADAP can offer a solution to having too few employees, or under-trained employees. Oftentimes, new guidelines and changing federal accounting regulations require specialized knowledge and greater technological skills. Due to the limited human resources of the smaller Land Grant institutions, there is increasing pressure on current staff to take on greater responsibility and to cross-train with other employees. The successful transfer and adoption of knowledge will enhance the productivity and efficiency of those employees. ADAP also aims to target institutional initiatives such as strategic planning. The strategic planning process benefits the institution, and the participants, as they learn more about their institution, their department, and their role within the system.

Focus 3: Educational initiatives By supporting education initiatives, ADAP can help provide qualified employees support to enhance the institution and government services and to advance local agricultural development. Low enrollment in agriculture and home economics classes across the region's high schools continues to deprive

ADAP institutions of future employees who are knowledgeable in these areas. ADAP has developed many unique programs targeted at different stages of educational development. Each ADAP institution has the opportunity to focus on one, or many of the programs, depending on the needs of the institution and community: A.) The Financial Assistance for an Advanced Degree program provides learning opportunities for Land Grant staff and others seeking a Doctorate or Masters degree. This program benefits both the institution and the individual by creating opportunities to expand or strengthen Land Grant programs and to advance professionally. Financial assistance can be used for U.S. or foreign institutions, but students going to Land Grant colleges are given preference. On-line or virtual degree programs are also considered for this assistance. B.) The Financial Assistance for a 2- or 4-Year College Program provides limited financial support for students pursuing a certificate or degree from their local land grant institution in agriculture or a related field. Assistance is limited and continued assistance is dependent on satisfactory academic performance. ADAP directors and regional coordinators provide assistance with registration, course selection, and career guidance. C.) The High School Apprenticeship Program provides high school students an opportunity for a hands-on educational experience in agricultural research or extension, increasing awareness of the educational opportunities and careers available in agriculture, home economics, and related fields

OBJECTIVES

- Develop leadership abilities of land grant directors, administrators, departmental chairs, researchers, and employees.
- Create opportunities for Land Grant staff and others to pursue advanced degrees in agriculture or a related field
- Create opportunities for current graduate and undergraduate to continue their studies within agriculture or a related field leading to a degree or certificate
- Create opportunities for hands-on learning experiences for high school students to learn more about agricultural research and extension
- Staff training and professional development opportunities
- Strategic plans for each of the ADAP institutions

RESULTS AND ACCOMPLISHMENTS FOR THE PERIOD: JANUARY TO JUNE 2008

American Samoa Community College (ASCC) – Leadership Development

The American Samoa Community College Division of Community & Natural Resources organized its first “Leadership & Management Development Institute” on June 18 – 20, 2008. There were nineteen participants attending the training: two ASCC Human Resources Office staff, two staff from the Youth & Women’s Affairs Government Office and fifteen middle managers and staff of the ASCC Division of Community & Natural Resources.

The three-day training was comprised of three main workshops: 1. Youth Leadership & Management; 2. Culture Leadership & Management Effectiveness; and 3. Women Leadership & Management. The workshops all concentrated on the effectiveness, decision-making and communications skills of a Leader or a Manager.

There were three academic presenters from the community college, three from the private sector and nine panelists from other government agencies, the private sector and the local community. Panels were designed to expand the knowledge of participants in the field of leadership and management effectiveness.

American Samoa Community College (ASCC) – Enrichment Opportunities

The ASCC Agriculture & Life Sciences student, Ms. Toepo Leiataua is currently attending a four-week (June 2 – 30, 2008) summer apprenticeship program at the University of Puerto Rico, Mayaguez Campus. The internship's goal is to provide various field experiences in Caribbean tropical agriculture with the private sector and government of Puerto Rico. Participants will also have an opportunity to share experiences with other Caribbean and Pacific participants attending the same program.

In addition, another Agriculture & Life Sciences student, Mr. Pele Iuta is attending the eight week 81st Summer Coursework Session at the Rocky Mountain Biological Laboratory in Colorado. Students in the program will interact with leading scientists, researchers and engage in a lively exchange of information, ideas, tools, and perspectives.

American Samoa Community College (ASCC) – Human Resources and Capacity Building

The Agriculture & Life Science Department of the American Samoa Community College graduated two students: Ms. Marie Chan Kau, majoring in General Agriculture & Ms. Masela Talatau, majoring in Natural Resources during the ASCC Spring 2008 Commencement Exercise on May 16, 2008. Ms. Chan Kau is currently employed by CNR as a Student Lab Technician while Ms. Talatau is working as a CNR Forestry Technician.

The American Samoa Community College is offering its 4th ADAP Summer Institute on June 2nd - August 18th, 2008. There are twenty-four students attending the 2008 summer institute program. The twenty-four students are juniors & seniors selected from both private and public high schools.

College of Micronesia (COM)

Our scholars, Robert Jackson, had successfully completed his online MA degree program with SDSU and Mark Kostka arrived safely back in Pohnpei after completion of a BA degree from UH-Hilo.

Northern Marianas College (NMC)

Patricia Coleman, who was a recipient for the ADAP Capacity Building and our "new" EFNEP Coordinator; she graduated with her BA in Education last May. Additionally, NMC awarded 6 full-time students scholarships for Spring 2008: 3 to students pursuing their AA in Natural Resources Management program and 3 to staff pursuing their BA degrees.

University of Guam (UOG)

We continue to provide financial assistance to employees under the college pursuing their bachelor's or master's degree. Currently, two individuals are receiving financial assistance: Mr. Jesse Rosario is currently pursuing his master's degree in Public Administration. Mr. Rosario is a Program Coordinator IV working in the CNAS Dean's Office. Mr. Franklin Alig is pursuing his master's degree in biology, and is working at the Fadian Hatchery.

University of Hawaii (UH)

For the Year 19, UH received only a small portion of the Professional Development funds (\$19,700). With these funds, we have contributed to the participation of one CTAHR faculty member in the University of Georgia's Leadership Development in the 21st Century program. For the most recent class, 2008-2009, ADAP-UH contributed \$8500 for the registration fees for Brent Sipes. For the class, 2007-2008, ADAP-UH contributed \$8000, for the registration fees for Ray Uchida.

IMPACT OF THE PROJECT TO JUNE 2008American Samoa Community College (ASCC) – Leadership Development

The participants of the Leadership Institute were CNR middle managers and staff who were second in line of command from a manager's role. Participants were very much appreciative of the knowledge shared by the presenters and panelists at the Institute. The leadership and management issues presented in the three-day training were very useful information in guiding their work as managers now or when they become managers in the future.

The institutional leadership program will benefit all employees of ASCC CNR not only the individual participants. Guest speakers spoke on their talents, experiences and methods of becoming a successful leader.

The students of the Institute thanked Tapa'au Dr. Daniel Mageo Aga and the ADAP Board of Directors for the "golden opportunity" given to them to be part of the ASCC ADAP Leadership & Management Development Institute. At the end of the training, each participant was given a chance to evaluate the overall training aside from the individual evaluations of presenters and panelists. One of the participants wrote on his/her evaluation, "The ASCC CNR ADAP Leadership Training provided me with inspiring leadership information and a great source of motivation." It was highly recommended by the participants of the Institute to continue to hold leadership trainings like this on an annual basis.

American Samoa Community College (ASCC) – Enrichment Opportunities

Though the Enrichment Opportunities Project, the ASCC-CRN students majoring in Agriculture & Life Sciences degree programs have opportunities to expand their learning outside of the ASCC surroundings and gain off-island/stateside, hands-on experience with agricultural related programs outside of the Territory of American Samoa.

American Samoa Community College (ASCC) – Human Resources and Capacity Building

During the last five years, the Agriculture & Life Science Department of the American Samoa Community College had fewer than five students enrolled in its degree programs. Since the initial Summer Institute Program in 2005, the student enrollment has increased tremendously to twenty plus students per academic year. The Summer Institute promoted and increased student enrollment in the Agriculture and Life Science degree programs at the American Samoa Community College.

College of Micronesia (COM)

This project has led to an improvement in the performance of staff and an increase in educational outcomes for program participants and students.

Northern Marianas College (NMC)

The ADAP Professional Development project continues to support and encourage our students under the NRM degree program and our staff who inspire to pursue a higher education. Also, the leadership development component has assisted our institution by encouraging professional development for staff.

University of Guam (UOG)

Upon completion of their respective programs, the individuals within the Professional Development Project (formerly the Enrichment Opportunities Project) will have enhanced job performance with the added knowledge they would have attained through their studies. Thus productivity in their respective jobs will be increased.

University of Hawaii (UH)

The annual participation of one faculty member in the University of Georgia's Leadership Development in the 21st Century program has had a positive effect on the college. All of our college's most senior administrators, deans, and chair have attended the leadership training program. We feel that participation in the LEAD21 course offers a valuable cohesiveness to the college administration, and an understanding of the value of a strong and adaptive administrative team.

CONTINUING ACTIVITIES: JULY TO DECEMBER 2008American Samoa Community College (ASCC)

Within the leadership develop goal, we will conduct follow-up on the status of the leadership performance of the participants and seek funds to hold another Leadership Institute in the future.

Within the enrichment opportunities goal, we will continue to seek local and off-island apprenticeship programs to promote and to further expand the knowledge of Agriculture & Life Sciences students in the various areas of agriculture.

Within the capacity building goal, Continue to increase student enrollment in the ASCC Agriculture & Life Sciences degree program. Retain Agriculture & Life Sciences student majors until they graduate from ASCC. Follow up on the status of ASCC ADAP

ALS graduates that continued on to further their education off-island (undergraduate). We will conduct our Summer Institute and our Off-Island Scholarship programs.

ASCC 2008 Summer Institute Students (24)

Annie Tanielu, Carly To'ia, Clara Helg, Daniel Maelega, Derek Isaako, Dorcas Malepeai, Fa'alogoifo Siaopo, Generra Jaeger, Jolene Mageo, Marie Fa'atuala, Mark Faleali'i, Meletaumoe Elisara, Paige Vagaia, Pearl Tlamoa, Pennywise Poufa, Rittalei Siliga, Sailimaloilelagi Faileaso, Sanerive Fuiava, Se'ese'ei Toa, Sina Auomanu, Talimatagi Va'alele, Tavita Fa'asauvale, Tupu Fa'auila & Voni Tu'ia.

ASCC CNR Off-Island Scholarship Recipients (5): Bachelor's Degree

Faiane Miller, Seleima Larkin, Tautasi Falana'i, Ana Alicia Pouono Alvarado, Ana-Stacia Usoalii Alvarado & Marcella Moe.

College of Micronesia (COM)

We will continue to announce the availability of HRCB funds and encourage staff to utilize these funds.

Northern Marianas College (NMC)

At NMC, we will work to develop leadership training opportunities for new managers, coordinators and program leaders in our department. We will plan to have staff attend professional development workshops on-island and off-island. Also, we will be coordinating the Summer 2008 High School Internship program

University of Guam (UOG)

We will continue to support the individuals within the degree programs and search for possible leadership development programs that are in line with our institution's needs and within our budget.

In addition, we plan to use monies under this project to fund our 2008 Summer Research Apprenticeship Program, which is scheduled to run from June 30 – August 1, 2008.

University of Hawaii (UH)

For the Year 21, UH will support the participation of one CTAHR faculty member in the University of Georgia's Leadership Development in the 21st Century program, to include registration fees (\$8500) and airfare, hotel and per diem for the three required sessions on the mainland.

Communications, Information and Publications Services Project

Core Project

Project Coordination Team: ADAP Project Manager and Regional Coordinators,
and Eileen Herring (UH Hamilton Library)

Funding Allocations and Expenses:	Year 19	\$20,030
	Year 21	\$10,000

PROBLEM STATEMENT AND POTENTIAL SOLUTION

The ADAP Communications, Information and Publications Service (CIPS) project was created to coordinate and address the information needs of the ADAP institutions, communities and clientele on a regional basis. This project will help provide and make accessible, appropriate information and materials that will benefit the American Pacific region and encourage economic and agricultural sustainability. As a result of more open and immediate access to information, duplication of work in the region will be reduced, leading to more efficient use of fiscal and human resources. The increased utilization of electronic communication capabilities can greatly reduce travel costs for various meetings, training, and workshops.

The Library Services Project is a small UH-based project under the CIPS umbrella. The libraries of the Pacific Land grants do not have the library resources (both hardcopy, and electronic) that the University of Hawaii has. The Library Services Project provides one-on-one assistance in retrieving research journals articles, and books. These services allow researchers across the Pacific access to current studies in their field, providing strong groundwork for research and extension projects. Also within CIPS, Ms. Eileen Herring maintains the Traditional Pacific Island Crops Website contains links to quality internet resources that deal with the production, marketing, and research aspects of these twelve important traditional Pacific Island crops. Related marketing and statistical sites, databases, and other reference sources are also included. The emphasis is on collecting full-text resources so that Pacific Islanders who have Web access but do not have access to library print resources can find the information they need to grow and market these crops. Each of the included resources has been identified and evaluated by Ms. Herring for the quality of their information and relevance to Pacific island agriculture.

RESULTS AND ACCOMPLISHMENTS FOR THE PERIOD: JANUARY TO JUNE 2008

American Samoa will host the 10th Pacific Arts Festival July 20- August 2, 2008. In conjunction with the Pacific Arts Festival, the Division of Community & Natural Resources, together with the American Samoa Department of Agriculture, will hold a farm fair to showcase the various Samoan produce. The Community & Natural Resources Division will support Farm Fair advertisement costs to announce to the general public this special event to promote agricultural programs in the Pacific. In addition, the CIPS project provided memory sticks and computer software for the ADAP Director's office in support of ASCC ADAP projects.

College of Micronesia (COM) continues to support the online connections for several staff at the COM Central Office

At UOG, for Year 19, the entire amount allocated was transferred to the UH CIPS project in support of continued services.

At UH, the Library Services Project provided full-text articles, and performed resources searches in support of Pacific region researchers, details are listed below. Although funds were earmarked for Mr. Hollyer's participation in the ACE (Association for Communication Excellence in Agriculture, Natural Sciences, and Life and Human Sciences) meeting in Michigan, June 10-13, 2008, he declined to attend in favor of an opportunity to assist the FAO to create a business program for farming in the Cook Islands. Additionally, Mr. Hollyer will conduct another 3-week business education course in the Cook Islands in August 2008.

IMPACT OF THE PROJECT TO JUNE 2008

American Samoa Community College (ASCC) CIPS project continued to improve communication and dissemination of agricultural information.

At COM, the efficiency in delivering and responding to needs of staff is maintained by the CIPS project.

CONTINUING ACTIVITIES: JULY TO DECEMBER 2008

At the University of Hawaii, Ms. Eileen Herring will continue to provide library services (such as article searches and book loans), and maintain the Traditional Pacific Islands Crops Website.

LIBRARY SERVICES STATISTICS FOR THE PERIOD 01/01/08 – 06/30/08

Location	Searches	Articles	Book Loans	Hours	Value
ASCC	0	11	0	4.0	\$165.00
COM-FSM					\$-
Yap	0	4	0	1.0	\$60.00
CMI	1	4	0	3.0	\$60.00
NMC					
Saipan	0	59	0	12.5	\$920.50
Tinian	3	4	0	4.5	\$216.00
PCC	0	0	0	0.0	\$-
UOG	0	5	1	3.0	\$60.00
Total	4	87	1	28.0	\$1,481.50

*The figures given in the "Value" column are based on the current rate schedule of the University of Hawaii at Manoa Library's External Services Program. (ESP). ESP provides library services for non-UH Manoa patrons. ESP charges fees on a cost-recovery basis.

THE TRADITIONAL PACIFIC ISLAND CROPS WEB SITE (AGNIC PARTNER)

(<http://libweb.hawaii.edu/libdept/scitech/agnic/>)

This ADAP supported project provides access to Pacific relevant full-text electronic resources about 12 traditional Pacific Island Crops:

- Bananas and Plantains (*Musa* sp.)
- Betel Nut (*Areca catechu*)
- Breadfruit (*Artocarpus altilis*)
- Cassava (*Manihot esculenta*)
- Coconut (*Cocos nucifera*)
- Kava (*Piper methysticum*)
- Noni (*Morinda citrifolia*)
- Pandanus (*Pandanus* sp.)
- Sugarcane (*Saccharum officinarum*)
- Sweet Potato (*Ipomoea batatas*)
- Taro (*Colocasia esculenta*) and other Edible Aroids
- Yam (*Dioscorea* sp.)

The Web site contains links to quality World Wide Web resources that deal with the production, marketing, and research aspects of these twelve important traditional Pacific Island crops. Related marketing and statistical sites, databases, and other reference sources are also included. The emphasis is on collecting full-text resources so that Pacific Islanders who have Web access but do not have access to library print resources can find the information they need to grow and market these crops. Each of the included resources has been identified and evaluated by Eileen for the quality of their information and relevance to Pacific island agriculture.

During the past six months (January through June), these pages have received 11,982 page requests (that translates into 25,268 "hits"). Once again, taro and sweet potato are the most popular crops with 1,329 page requests for taro and 1,230 page requests for sweet potato. Among the worldwide users of this information, the following Pacific island domains accessed these Web pages:

.am (American Samoa)	.au (Australia)
.ck (Cook Islands)	.fj (Fiji)
.fm (Micronesia)	.nc (New Caledonia)
.nu (Niue)	.nz (New Zealand)
.pf (French Polynesia)	.pg (Papua New Guinea)
.sb (Solomon Islands)	.to (Tonga)
.tv (Tuvalu)	.vu (Vanuatu)

During the past six months, the ADAP librarian answered 11 email reference questions from users throughout the world concerning these twelve crops.

GRANT DEVELOPMENT AND CAPACITY BUILDING PROJECT

Grant Development and Capacity Building Project was a small project embedded in the CIPS project with the goal of educating faculty and staff within the American Pacific Land Grant institutions and government agencies in ways increase funding for research, education and extension projects. Too often, grant workshops (sponsored by the USDA) take a “one-size fits all” approach to teaching how find, and apply for grants. Dr. Sharee Pepper is a grantwriting coach. She advises researchers on a one-on-one basis, providing valuable feedback on writing style, language usage, formatting, experimental design, and project scope, as well as, providing guidance and answering questions about the grant submittal process.

Although ADAP support for the Grant Development and Capacity Building Project was discontinued in December 2006, Dr. Pepper continues to maintain her contacts in the Pacific region and continues to provide grant information. Her new position within the CTAHR Agribusiness Incubator Project requires her to focus her efforts on Hawaii-based opportunities, but there is often an overlap between the opportunities for Hawaii and those for the Pacific region. Thus, she is able to continue to provide grant development and capacity building assistance to the ADAP collaborators.

Additionally, during this period, ADAP subscribed to TechSoup Stock and GrantStation. These two organizations work together to provide technology, equipment, and software to non-profit organizations at a greatly reduced rate. Additionally, GrantStation provides a gateway for searching for grant opportunities from the many non-profit organizations across the US.

Bioenergy Feedstock Assessment

Principal Investigator:	Goro Uehara (UH)	
Co-PIs:	Robert Paull (UH) and Mari Marutani (UOG)	
Project Manager:	Richard Ogoshi (UH)	
Funding Allocations and Expenses:		
	Year 18	\$35,610
	Year 19	\$5,261

PROBLEM STATEMENT AND POTENTIAL SOLUTION

Pacific Island nations are particularly vulnerable to the supply shortages and volatile prices of fossil fuels. Most islands import more than 90% of their transportation and energy fuels. Thus, there is an urgent need to develop local energy production capacity. Vegetal based fuels or biofuels produced from locally generated biomass on small to medium farms are a possible solution to decrease fossil fuel dependency in the Pacific Islands. Biofuels have significant environmental benefits over fossil fuels including low sulfur content, being carbon-dioxide neutral, and decreasing waste entering land-fills. Furthermore, establishment of biomass-based energy systems will create new jobs and improve local economies.

Biodiesel and ethanol are two promising candidate biofuels suitable for transportation and energy generation. The development of domestic feedstocks for conversion into biofuels is essential for increasing island energy security. An important challenge is the identification of feedstocks and conversion technology amenable for commercial production on small to medium farms with the environmental resources available on tropical and subtropical islands. ADAP-member nations contain a diversity of non-traditional plants that have potential as energy feedstocks whose yields could surpass traditional energy crops. The combination of the University of Hawaii's and University of Guam's experience in bioenergy, agricultural production, and soil science makes a strong team to identify energy feedstocks for the Pacific Islands. The proposed project will evaluate oil crops, cellulosic biomass, and commercial waste for use as feedstocks for bioenergy production. This investigation will provide baseline data essential for future studies to improve the energy security in the Pacific Islands.

The project will generate baseline yield data for potential energy crops in climatic/environmental conditions and farm sizes found in the Pacific Islands. In addition, the project will assess the availability of commercial waste streams in ADAP-member islands and small scale conversion technology for bioenergy production. It is expected that the baseline data generated by this project will lead to larger, more comprehensive collaborations in the future. This information will be valuable for developing possible solutions for Hawaii and Pacific Island nations to decrease their fossil fuel dependency and increase their energy security.

SCOPE OF WORK

The purpose of the project is to provide the foundation for developing solutions to reduce fossil fuel importation to the Pacific Islands. To that end, we will investigate candidate energy crops, commercial waste streams, and small scale conversion

technology that have the potential to be a part of the solution. The project will focus primarily on *Jatropha curcas*, coconut (*Cocos nucifera*), and fish oil for biodiesel production and *Panicum maximum* (guinea grass) for ethanol production. *Jatropha*, coconut, and guinea grass were chosen for their low resource input requirements, especially water, and their ability to thrive on poor soils, which promotes land reclamation and inhibits soil erosion. Crops, waste streams, and conversion technologies will be evaluated for small scale and larger production potential to reflect the range of environmental resources found in the Pacific Islands. The project will accomplish the following objectives:

- Evaluate the technical and economic feasibility for producing biodiesel from *Jatropha curcas*, coconut oil, and fish oil, and ethanol from guinea grass in the Pacific Islands.
- Evaluate the potential application of commercial waste streams and small scale conversion technology for energy production in the Pacific Islands.

PROPOSED ACTIVITIES

Objective 1

Climate and growing conditions have profound influence on crop yields which ultimately will determine the economic feasibility of the crops. Thus, the project will determine crop yields under various climatic/environmental conditions. Local varieties will be tested for optimal density, irrigation, and seed and fruit development.

Oil crops

Seeds and cuttings will be collected from *Jatropha curcas* varieties on Guam and the Hawaiian Islands. Test plots will be installed to evaluate growth rates under various conditions and seed and oil yields determined. Oil samples will be sent to Pacific Biodiesel for conversion into biodiesel and testing. Commercially available coconut oil and fish oil will also be sent to Pacific Biodiesel for conversion into biodiesel and testing. Pacific Biodiesel will submit biodiesel samples derived from *Jatropha*, coconut, and fish oil to a national laboratory for certification that the biodiesel meets international fuel standards.

Ethanol crops

A mower/baler will be rented and dry yields for *Panicum maximum* will be determined. Ethanol yields will be reported using standard estimates. Crop yields under various conditions and the effect of repeated re-cuttings will be determined.

The information gathered will be compiled in a database and reported to ADAP members for review and comment. Additionally, the database will be made available for subsequent retrieval and analysis by researchers, government agencies, and businesses.

Objective 2

A survey will be conducted to determine the availability of commercial waste streams such as restaurant waste oil and coconut husks for conversion into bioenergy. It is anticipated that some islands have significant amounts of restaurant waste oil and coconut husks, while others will have small amounts.

An online review of small-scale conversion technology will be conducted to determine possible technologies for converting feedstocks into bioenergy. Results from this investigation will aid in the design of demonstration scale bioenergy refineries and highlight future areas for research and develop.

RESULTS AND ACCOMPLISHMENTS FOR THE PERIOD: JANUARY TO JUNE 2008

Final report forthcoming.

CONTINUING ACTIVITIES: JULY TO DECEMBER 2008

Work is complete at the University of Guam. University of Hawaii will complete final report and expend all remaining funding by August 31, 2008.

Food Security Project

Project Coordination Team:	ADAP Project Manager and Regional Coordinators	
Funding Allocations and Expenses:	Year 21	\$68,950

PROBLEM STATEMENT AND POTENTIAL SOLUTION

The aim of the Food Security Project is to develop avenues for communities to provide a balanced diet to all households within the United States-Affiliated Pacific Islands (USAPI). Further, our aim is to ensure that these food sources are safe from the effects of economic recession, environmental change, labor shortages, and local, national, and international trade tariffs. Long-term food security requires that each island have sustainable agriculture, both on a small-scale and commercial basis. By providing opportunities for increased food security, we can positively influence our small island economies. This project will also empower communities and individuals to make informed decisions about their health, through a healthy, well-balanced diet. A project of this scope requires a concerted effort to garner community support throughout the entire process. With the help of local community organizations, church organizations, and local government resources, we aim to create an environment for change.

OBJECTIVES

- Match appropriate agricultural technologies to community and island needs.
- Develop an integrated program that allows community members to make informed decisions about a healthy diet through sustainable, backyard agriculture.
- Identify government level challenges to sustainable region-wide agriculture, such as trade tariffs and agricultural water rights.
- Develop working groups to explore each island's challenges to sustainable agriculture and food security, and explore the cultural and economic barriers to island agricultural sustainability.
- Develop a 5-year preliminary roadmap to island-wide, countrywide, and region-wide food security.

PROPOSED ACTIVITIES (PROCEDURES)

Over the next year, the American Samoa Community College, College of Micronesia, Northern Marianas College, University of Guam, and University of Hawaii will work together to identify the challenges to backyard agriculture, locally-grown produce for sale, and challenges faced by farmers who export produce to another island. We will begin with survey conducted by each college's staff. From this data, we will build a list of challenges that island food security faces. We will then organize a food security working group to develop a 5-year roadmap for mitigating the risks to food security both island-wide, and region-wide. The food security working group will meet in Honolulu, HI, in November 2008, to match appropriate agricultural technologies to local needs, and develop a list of research priorities for long-term challenges.

The ADAP Board of Directors will meet in January 2009 to review the list of research priorities, and match the expertise within the ADAP institutions with the research priorities, and use the pending \$30,000 to begin work toward the identified research goals.

TIMELINE

- July 1 – August 1: Each director chooses 3 participants to represent there institution.
- July 1 – August 1: Survey found or developed to identify and measure food security concerns in Pacific Island communities.
- August 1-Sept 15: Each participant conducts Stakeholder surveys to identify the concerns of the community.
- Sept 15 - Oct 31: Participants travel to two-day meeting to present survey data and participate in completing a 5-year Strategic Plan to increase food security in the Pacific Region.
- Nov 1 – Dec 31: Based on the key concerns identified in the Strategic Plan, meeting participants and others may submit a 2-page concept paper and budget to address food security (for a project lasting 6 months)
- January 2009: ADAP Board of Directors meets and approves projects for funding.
- January 2009: Submit proposed projects and budget to USDA for approval.
- March 2009: Independent project work starts, monitored byt the ADAP Coordinators and ADAP Project Manager.
- September 2009: Independent project work complete and budget expended.

Campus Reports

American Samoa Community College Campus Report

The new President of the American Samoa Community College is Dr. Seth Galea'i. Dr. Galea'i has been with the college for approximately twenty years. He served the college in many capacities such as the Director of Teachers Education Program, Dean of Academic Affairs and Vice President of the college.

There are still four vacant positions at the ASCC CNR: Plant Pathologist, Animal Scientist, Extension Nutritionist, and Research Nutritionist.

College of Micronesia Campus Report

A challenge and goal for us is to hire new faculty members and staff members, which is the result of a huge staff turnover at some institutions.

Northern Marianas College Campus Report

Prepared by: Ross S. Manglona, Director, NMC-CREES

This reporting period has been increasingly complex for Northern Marianas College. With the new implementation of federal minimum wage, higher cost of running utilities on the islands and the loss of the commonwealth's main (Garment) industry, acquiring funding for NMC has been an ever challenging situation. Currently the CNMI government is contemplating laying off 400 of its employees, with this being a major option to address the shortage in government collections.

Besides the aforementioned financial and socioeconomic constraints, high impacting events took place these past six months to include:

- NMC continues to battle its way out of being placed on probationary status by the Western Association of Schools and Colleges (WASC).
- As a result of our probation status our academic programs on Tinian and Rota instructional sites have been placed on suspension. This suspension is scheduled to begin in the Spring 2008 semester.

Although the college is currently undergoing some obstacles, it has been able to overcome those challenges through the input of students, faculty and staff. Exciting new developments within the college are underway to include:

- NMC has been working extensively on its assessment as recommended by WASC and has received positive feedback from the accrediting institution.
- Through a \$250,000 loan from First Hawaiian Bank additional classrooms and office space are now under construction, with the procurement office being the first completed.
- The college has started upgrading its communications and technology capability on all three instructional sites. These improvements are being funded from a grant received from the Administration for Native Americans. The college has now completed its IT audit and has hired technicians on all three islands to begin upgrades.

Because the commonwealth is treading through some rough times, it has been our department's mission to create opportunities for CNMI citizens. Extension services and research projects are directly related to the growing needs and challenges that the CNMI community faces. These programs are also in line with the missions of the Cooperative Research, Extension and Education Service and the Northern Marianas College. The following is a list of issues and solutions that CREES has had to administer over the past six months:

- Due to the extensive consultations by extension personnel, a Rota farmer who has been producing egg layers is now producing meat birds to address the high cost of frozen imports.
- As a result of hiring qualified scientists, our department has seen an increase in its grant acquisitions. Currently we are working on the following funded projects:
 - Grouper feed trials

- Citrus Variety trials
 - Tissue culture propagation of banana and root crops
 - Livestock disease survey of the CNMI
- We are still currently increasing our grant acquisitions to include the food sciences and conservation demonstrations.
- Through collaboration with UOG faculty, we are currently watching the progress of the biological releases to suppress the cycad scale on Rota, papaya mealy bug on Tinian, and scarlet gourd across the CNMI.

University of Guam Campus Report

- The University of Guam has a new President. Dr. Robert A. Underwood was selected to be the University's 10th President. Dr. Underwood was a former Guam Congressional Delegate to the U.S. Congress. He also served as the University's Academic Vice President, was the Dean of the School of Education, and a Professor with the School of Education.
- The College is currently in the process of conducting searches for three faculty positions under Cooperative Extension Service: 1) an Extension Entomologist; 2) Consumer & Family Science—Nutrition/Community Health/Family Resources; and 3) Economic and Community Systems.
- The College went through a program review of its federally funded programs in research, extension, and resident instruction in May of this year. The five-member program review team was composed of Dr. Richard Hegg, Program Review Team Leader from USDA/CSREES, Dr. Andrew Hashimoto from the University of Hawaii, Dr. Linda Fox from Washington State University, and Dr. David Thawley from the University of Nevada, Reno. The team met with research and extension faculty as a whole and on a one-on-one basis to hear their concerns on various issues pertaining to their respective programs. The team also met with some staff personnel, students, stakeholders, as well as with administrators at the Executive Offices of the University of Guam. The final report on the team's findings was received June 20, 2008, and is being discussed among the college administrators and faculty.
- We want to acknowledge all the support rendered by Guam's Representative to the U.S. Congress, the Honorable Madeleine Z. Bordallo, towards the inclusion of language in the Farm Bill to include ADAP as a line item.

University of Hawaii Campus Report

College of Tropical Agriculture and Human Resources, University of Hawaii at Mānoa Station Report for ADAP Summer Meeting, July 2008

Centennial of the University of Hawai‘i and CTAHR

The University of Hawai‘i was founded in 1907 and held its first classes in 1908. Centennial celebrations are ongoing for UH, its flagship Mānoa campus, and its founding college, the College of Tropical Agriculture and Human Resources.

- **CTAHR centennial book:** To mark our first century, CTAHR has produced an enduring history of the college and its people. *Hawai‘i’s College of Tropical Agriculture and Human Resources: Celebrating the First 100 Years* is a beautifully illustrated 300-page volume that reflects the hard work of more than 90 contributors. The book features nearly 700 images and names more than 1,700 individuals who have helped shape our college, including 52 outstanding achievers honored for their unique impact. Congratulations to the editors of the book, Dr. Barry Brennan and James Hollyer, and its designer, Nancy Hoffman-Valies, on this impressive accomplishment.
- **Centennial open houses:** CTAHR’s instruction, research, and outreach programs are housed at 27 locations throughout the state, with research stations and extension offices on five islands in four counties. This year, each county hosted a centennial celebration at which members of the public could learn more about the college’s activities. On March 8, more than 800 visitors attended an open house at the Urban Garden Center in Pearl City on the island of O‘ahu (City and County of Honolulu). A garden fair held April 19 at Kaua‘i Community College and jointly organized by the Kaua‘i County Farm Bureau and CTAHR’s Kaua‘i faculty and staff attracted about 2,500 guests. On April 26, the college’s Mealani Research Station hosted a Hawai‘i County centennial event, which drew more than 350 people and inspired more than \$900 in donations to the college. CTAHR’s centennial celebration for Maui County, which includes the islands of Maui and Moloka‘i, was held June 14 as part of the Maui Upcountry Fair in Makawao; attendance for the day was estimated at between 7,500 and 9000 visitors.

UH Mānoa Update

- **Tuition increases:** In 2005, the UH Board of Regents approved a tuition schedule for academic years 2006–2007 through 2011–2012. Between 2006–2007 and 2008–2009, tuition at UH Mānoa increased by 35 to 38 percent. In the upcoming year, Hawai‘i residents will pay \$2,976 per semester for full-time undergraduate education and \$3,948 per semester for full-time graduate studies. For non-residents, full-time tuition will be \$8,304 per semester for undergraduates and \$9,468 per semester for graduate students. These cost increases are

scheduled to continue in the coming years: between the 2008–2009 and 2011–2012 academic years, tuition will increase by 39 to 41 percent for all UH Mānoa students.

CTAHR Update

- **20th Annual CTAHR Student Research Symposium:** Hawai‘i’s geographic isolation and the high cost of travel can pose barriers to student participation in scientific and professional meetings. The CTAHR Student Research Symposium was inaugurated in 1989 so that students could present their research findings in a supportive, collegial environment that mirrors the format of national and international conferences. This year the 20th CTAHR Student Research Symposium was held April 11 and 12. More than 90 undergraduate and graduate students from all six CTAHR departments presented posters and talks that reflected the breadth and depth of the investigations taking place in the college. The research presented by the student participants ranged from fundamental studies to novel applications and encompassed engineering, production agriculture, biological sciences, health and food sciences, environmental resource management, and social sciences. The top four student presenters received grants to fund their travel to a conference on the U.S. mainland or abroad.
- **Enrollment:** CTAHR’s reorganized academic programs were formally announced to students in 2002. Student enrollment has increased in each of the subsequent academic years. Between the Fall 2002 and Fall 2007 semesters, the college’s total enrollment increased by 40 percent. During the same time period, enrollment in the UH system increased by 3 percent, and UH Manoa enrollment rose by 9 percent. Enrollment in the college’s six academic departments is at its highest level in more than 20 years, with 815 undergraduate and graduate majors registered in Fall 2007.
- **Grants and contracts:** As we approach June 30, the end date for CTAHR’s fiscal year 2008, the college’s faculty and staff members have received 113 extramural awards worth roughly \$11 million. During FY2008, the college experienced steep declines in both the number and value of its grants and contracts. The number of grants has dropped by 36 percent, with CTAHR receiving 63 fewer awards in FY2008 than the record-setting 176 awards the college garnered in FY2007. Even more precipitous was the decline in the monetary value of the college’s awards, which fell by \$12.5 million, down 53 percent from the near-record total of \$23.5 million received in FY2007. The discontinuation of special grants (earmarks) in the federal FY2007 budget was the most important factor in these FY2008 reverses.
- **Changes in Leadership:** Dr. James Carpenter has replaced Dr. Halina Zaleski as chair of the college’s Department of Human Nutrition, Food and Animal Sciences. Roy Yamakawa has been appointed as county administrator for Kaua‘i. Kelvin Sewake has completed his service as interim county administrator for Hawai‘i county and returned to duties as an extension agent serving the floriculture industry. Dr. Susan Miyasaka has been named the new interim county administrator for Hawai‘i county.