

**Timor-Leste**  
**Agricultural Rehabilitation, Economic Growth and Natural Resource Management Project**  
**2003-2005 Action Plan**

<b>Objective</b>	<b>Action</b>	<b>Location</b>	<b>UH Staff</b>	<b>Time Frame</b>	<b>Primary Beneficiaries</b>	<b>Outcome</b>
<b>Increase Agricultural Productivity and Food Security</b>						
ONGOING	1) Train MAFF personnel in modern research and extension methods.	Timor-Leste	McArthur Friday Fleming Ogoshi Yost	July 2003 to EOP	MAFF staff	MAFF personnel better prepared to assist subsistence farmers enhance food security and increase household income.

	1.1) Train MAFF staff in soil-plant-climate relations for Timor Leste conditions	Timor Leste	Ogoshi Singh	January 2004	MAFF staff	Capacity to advise efficient crop production practices for better quality grain for milling and marketing
	1.2) Train ALGIS staff and National University staff to use soil and climate data for crop yield forecasting and risk assessment	Timor-Leste	Ogoshi Singh Srinivasan	April 2004	MAFF and National University staff	Minimize negative consequences of drought.
	1.3) Train MAFF personnel to use multimedia tools to transfer new technologies to farmers	Timor-Leste	Ogoshi, Bing	April 2004	MAFF staff	Enable extension staff to disseminate information in timely and cost-effective way.
DONE	2) Train MAFF personnel to use soil fertility and nutrient management decision support tools.	Thailand	Yost, Tsuji Uehara	August 2003	2 MAFF staff	MAFF personnel better able to make fertilizer recommendations to farmers.

	2.1) Soil Fertility Evaluation workshop	Fatumaca	Uehara Ogoshi, Bowen, Watson Tsuji	Sept. 2003	MAFF District Officers, Dom Bosco staff	MAFF and NGO staff trained in diagnosing nutrient responsive conditions -Growers and farmers identified where demo experiments will be established - Begin Farmer leader and household identification
	2.2) Establish cropping system experiments at 3 Seical watershed sites	Seical Watershed	Kablan Ogoshi, Watson	Nov 2003	MAFF Farmers Leaders identified during Soil Fert. Wkshps	Example cropping systems for future training, Tests of proposed technologies - Improved maize and rice husbandry.
	2.3) Workshop and training visits to experiments to illustrate principles and working technology	Seical Watershed Fatumaca	Kablan Watson Ogoshi	Jan 2004	District Officers Farmer leaders	Expanded awareness among MAFF staff and farmers of increased rice and maize productivity potential

	2.4) Introduce alternative management options to local farmers	Seical Watershed	Watson Yost Ogoshi Bowen	Sep/Oct 2004	Local farmers, farmer leaders MAFF	Farmers involved in testing and evaluating alternative ag. management methods
	2.5) Data analysis workshop on decision-aids, GIS and economic analysis and planning	Dili	Yost Ogoshi Watson Fleming	Mar 2004	MAFF/GIS staff	MAFF staff trained in decision-aids, simulation modeling, GIS analysis and modeling ; Revised geospatial plan for experimentation and GIS data gathering
	2.6) Soil test kit workshop for National University staff and students	Seical watershed	Yost Ogoshi	Oct 2004	National University	University staff and students trained in soil constraint identification.
	2.7) Train National University staff and students to introduce modern farming techniques to farmers using participatory methods.	Seical watershed	Yost Ogoshi Watson McArthur Friday Bowen	Nov. 2004	National University	University staff incorporates participatory methods in their curriculum.

<b>Objective</b>	<b>Action</b>	<b>Location</b>	<b>UH Staff</b>	<b>Time Frame</b>	<b>Primary Beneficiaries</b>	<b>Outcome</b>
<b>Diversify and Intensify Crop Production to Generate New Income and Employment Opportunities.</b>						
DONE	3) Coordinate and partner with projects of NGOs international donors other agriculture service providers in the Seical watershed	Seical watershed	McArthur Fleming Friday Ogoshi.	July 2003	MAFF and donor agencies	MAFF capacity strengthened by donors working jointly to achieve common goals and objectives.
DONE for Seical Watershed	3.1) Delineate areas for expanded production of food, forest products and traditional crops	Seical watershed	McArthur Fleming Friday Ogoshi	July 2003	Residents of Seical watershed	Suitable areas for crop intensification delineated.
	4) Train MAFF personnel in conducting PRA to assess the suitability and feasibility of farmers adopting alternative soil and crop mg't practices	Seical Watershed	McArthur Friday Watson Bowen	Nov. Dec. 2003	MAFF and NGO staff	Increased capacity to assess social and economic opportunities and constraints

	5) Train MAFF personnel to intensify existing cropping systems for production of cash crops	Seical watershed	Ogoshi Fleming Friday McArthur Watson	July 2004	Subsistence farmers and local markets	Greater variety of farm products available at lower prices in local markets.
	5.1) Workshop on farm management to introduce farmers and MAFF personnel to the conditions required to transform subsistence agriculture to a market driven economy	Fatumaca & Dili	Fleming EWC/TL students	June 2004 or earlier in 2004.	MAFF, EWC/TL students & participating farmers	Effective planning and implementation of technically, economically and financially feasible enterprises producing for a market economy.
	5.2) Workshop on marketing strategies for agricultural inputs and products	Watershed and Dili	Fleming Chan- Halbrendt Watson UH/TL students, local assistants	June 2004 Dec 2004	Participating farmers, consumers and MAFF staff	Effective marketing options and economic viable input supply for profitable enterprises.

	5.3) Train EWC/TL students to conduct inventory of vegetable and traditional crops cultivated in the watershed	Seical watershed	Watson EWC/TL students	Jan – Nov 2004	Participating farmers, consumers and EWC/TL students	Traditional crops used in survival strategies in periods of food shortages identified and evaluated for their potential as new crops.
	6) Workshop on project analysis and outlook	Dili	Bowen, Fleming, Chan-Halbrendt Watson	June 2004	MAFF staff	MAFF staff trained to apply results of project analysis to improve project performance
	6.1) Train MAFF staff to apply project results for policy advice	Dili	Bowen Watson	Ongoing through out 2004 and 2005	MAFF staff	Impact of government policy on performance of agriculture sector determined.

<b>Objective</b>	<b>Action</b>	<b>Location</b>	<b>UH Staff</b>	<b>Time Frame</b>	<b>Primary Beneficiaries</b>	<b>Outcome</b>
<b>Improved Watershed Productivity and Sustainability through the Adoption of Sound Natural Resource Management Practice.</b>						
	7) Watershed PRA focused on sustainable natural resource management	Seical watertshed	Friday McArthur Bowen Yost Watson	Nov/ Dec 2003	MAFF and NGO staff	Increased capacity to implement rural assessment and natural resource management strategies
	7.1) Train farmers, MAFF staff, and NGOs staff in the establishment of fuel wood and fodder banks	Timor-Leste	Friday, Brewbaker Carpenter	Nov 2003	Participating farmers, MAFF staff, NGO staff	Improved animal health, increased supply of fuel wood



	7.2) Train farmers, MAFF staff, and NGO staff in agro forestry technologies to control land degradation and forest protection	Timor-Leste	Friday, Watson, Idol,	Jan 2004	Local farmers, MAFF staff, NGO staff	More productive and sustainable agricultural systems
	7.3) Train farmers, MAFF staff, and NGO staff in improved management of non-timber forest and forest products	Timor-Leste	Friday, Bowen, Fleming, Watson,	Nov 2004	Local farmers, MAFF staff, NGO staff	Development of alternative sources of rural income, increased sustainability of natural resource systems
	7.4) Train farmers, MAFF staff, and NGO staff in methodologies to foster smallholder tree planting and reforestation	Timor-Leste	Friday, Watson,	Jan 2005	Local farmers, MAFF staff, NGO staff	Establishment of individual or community reforestation projects
	8) Train Nat. University and EWC/TL students in watershed assessment and monitoring	Seical Watershed	Watson UH Fac. Advisors	Summer 2004 and May to Jun 2005	National University and EWC/TL students	Increased understanding of dynamics of land tenure and management in the watershed

ONGOING	9) Supervise EWC/ TL graduate students' research connected with project activities in the watershed.	Seical watershed	Minerbi, Lee, Gautz, Pratt, Andaya Watson	Summer 2004 and May to Jun 2005	Timor-Leste EWC/UH students.	Students contribute to attainment of project objectives
	9.1) Tour of State Research and Extension Station by TL EWC Students on Oahu, Maui and Hawaii to observe and technology transfer from research station to farmer fields	State of Hawaii	County Administrators, Extension Agents, McArthur, Chan-Halbrendt Friday	Easter, Christmas Recess, 2003-2005	Timor Leste EWC/UH students	Future leaders of Timor Leste see agriculture as an engine for economic growth
	9.2) Train EWC students in participatory methods for nation building by involving them in watershed agricultural and community development work with project personnel in Timor Leste and elsewhere as appropriate	Institutions in Timor Leste countries as needed	McArthur Chan-Halbrendt Uehara	Summer 2004 and May to Jun 2005	Timor Leste EWC/UH students	Future leaders of Timor Leste capable of applying participatory methods in national development

	10) Link with NGOs and Peace Corps community development efforts with project activities	Seical watershed	Watson, McArthur, Chan-Halbrendt, Fleming, Bowen, Ogoshi, Friday	July 2004 to EOP	Participating communities in Seical Watershed	Linkage between of Peace Corps and Project programs implemented
	11) Train MAFF personnel to interpret soil survey data for engineering uses of land.	Timor-Leste	NRCS soil scientists	Jan 2004	Construction and soil engineering firms, MAFF staff	MAFF staff capable of interpreting soil information for engineering use.

<b>Objective</b>	<b>Action</b>	<b>Location</b>	<b>UH Staff</b>	<b>Time Frame</b>	<b>Primary Beneficiaries</b>	<b>Outcome</b>
<b>Administrative and Management Support</b>						
DONE	12) Coordinate Hawaii visit for Minister of Agriculture.	Hawaii	Chan-Halbrendt Uehara McArthur	March 2003	MAFF	Minister exposed to modern island agriculture.
ONGOING	13) Foster close collaboration with other agricultural sector donors and service providers	Timor-Leste	Watson McArthur Uehara	July-August 2003 to EOP	USAID and MAFF.	Duplication of efforts avoided and better integration of effort achieved by MAFF
ONGOING	14) Post in-country coordinator, establish office, and hire local administrative and technical staff.	Timor-Leste	Watson Tsuji	Sept. 2003	MAFF UH Team	Administration and management staff in place.
DONE	15) Coordinate trip for Minister and Director General of MAFF to agricultural conference in Sacramento.	California	Tsuji	June 2003	MAFF	Ministerial Conference organized by USDA/USAID attended

