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SPC Headquarters

BP D598848 Noumea Cedex,
New Caledonia
Telephone: +687 26 20 00
Fax: +687 26 38 18

Suva Regional Office

Private Mail Bag, Suva, Fiji Islands
Telephone: +679 337 0733
Fax: +679 377 0021

Pohnpei Regional Office

Level 2, Pohnpei National Building Namiki,
P.O. Box Q, Kolonia, Pohnpei, FM 96941,
Federated States of Micronesia
Telephone: +691 3207 523
Fax: +691 3202 2725/6224

Produced by:

LRD Information, Communication and Extension (ICE) Team,
Land Resources Division,
Secretariat of the Pacific Community,
Nabua, Fiji Islands
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▶ EXECUTIVE SUMMARY

In year 2 of the implementation of its second integrated strategic plan (2009–2012), the Land Resources Division (LRD) continues to align its activities to the recommendations of the 2008 meeting of HOAFS (Heads of Agriculture and Forestry Services) and to national priorities elaborated in the joint country strategies (JCS).

The division continued its facilitation role in policy, legislation and planning development. LRD ensures that the Pacific Islands' voice is heard beyond the region by actively engaging at important international forums such as the United Nations Convention to Combat Desertification (UNCCD), Convention on Biological Diversity (UNCBD), Framework Convention on Climate Change (UNFCCC) and Forum on Forests (UNFF), and the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA).

The Centre for Pacific Crops and Trees (CePaCT) and Forestry and Agriculture Diversification Teams are operating from their new facility at SPC's Narere compound in Suva, Fiji Islands. The centre plays an important role in climate change adaptation efforts, improving food security and supporting domestic and export trade in agriculture and forestry products.

Plant health, and biosecurity and trade facilitation continue to be hallmarks of the division's functions. Substantial assistance has been provided to PICTs including: pest and disease surveys; control of invasive species and use of integrated pest management (IPM); research and development (R&D) on pest and disease control and on quarantine treatments of fresh produce; harmonisation of national legislation to comply with SPS (World Trade Organization Agreement on the Application of Sanitary and Phytosanitary Measures) requirements; facilitation of inter-regional and international trade; and capacity building in a broad range of technical areas including through the Import-Export Biosecurity Technology Centre (IMPEXTEK) facility. Unfortunately, the current lack of financial support is preventing adequate staffing and operation of the Plant Health Team and the outlook remains unclear.

The present science and technology capacity of LRD is decreasing with the completion of some relatively big projects. The thematic area teams most affected include Plant Health; Crop Production and Soils Management; Animal Health and Production (AHP); and Information, Communication and Extension (ICE). Staff of LRD are actively seeking new resources to bridge gaps.



DIVISIONAL STRUCTURE



SPC Land Resources Division

Inoke Ratukalou, Acting Director - Land Resources Division

Ongoing initiatives that began in mid-2010 have eased some of the staffing and operational difficulties faced by the division. These include two SPC–Australian Agency for International Development (AusAID) initiatives – Pacific Horticultural and Agricultural Market Access (PHAMA) and International Climate Change Adaptation Initiative (ICCAI), and the Australian Centre for International Agricultural Research's (ACIAR) Pacific Agribusiness Research and Development Initiative (PARDI).

New initiatives that will begin in 2011 include the AusAID Pacific Regional Land Programme (PRLP), the Food and Agriculture Organization (FAO) project, Food Security and Sustainable Livelihoods in the Pacific (FSSLP), and two EDF 10 projects – Increasing Agricultural Commodity Trade (IACT) and Agriculture and Rural Development.

LRD continues to support member countries address climate change issues. Through support of the German Technical Cooperation (GTZ), AusAID and others continue to mainstream climate change into sector policies, provide technical support for climate change adaptation and mitigation, and awareness-raising and information sharing on climate change.

1. LRD's integrated mode of operation is based on seven thematic area teams (a–g) and three support teams (h–j) working together with stakeholders to identify and prioritise issues and jointly implement solutions. The teams are:

A. GENETIC RESOURCES (GR)

B. FORESTRY AND AGRICULTURE DIVERSIFICATION (FAD)

C. FOREST AND TREES (FAT)

D. PLANT HEALTH (PH)

E. ANIMAL HEALTH AND PRODUCTION (AHP)

F. BIOSECURITY AND TRADE FACILITATION (BATS)

G. CROP PRODUCTION (CP)

H. INFORMATION, COMMUNICATION AND EXTENSION (ICE)

I. LAND MANAGEMENT AND RESOURCES POLICY SUPPORT (LMRPS)

J. ADMINISTRATION AND FINANCE (ADMIN)

2. The goal of the division is :

'To assist the Pacific Community to improve food, nutritional and income security and manage agricultural and forestry resources in a sustainable way'.

3. Work contributing to the achievement of these goals during 2010 is reported in Annex 4 by objective and outputs.

► DIVISIONAL FINANCE

4. The revised budget for the division for 2010 was 10,230,600 CFP units (equivalent to USD 11.4 million).

Table 1: Revised budget of LRD for 2010 (CFP units)

	Core	Program	Project	Total
Director	156,300	100,000	0	256,300
GR	19,800	220,200	1,268,000	1,508,000
FAT	107,000	306,900	799,200	1,213,100
FAD	0	0	1,215,300	1,215,300
PH	109,000	342,200	474,200	925,400
AHP	117,100	229,600	487,300	834,000
BAT	0	0	822,900	822,900
CP	0	0	546,600	546,600
LMRPS	92,900	58,000	1,697,800	1,848,700
ICE	0	249,000	411,800	660,800
ADMIN	0	196,200	203,300	399,500
Total	602,100	1,702,100	7,926,400	10,230,600

5. As expected, funding has been tight during the last few months of 2010 and is forecast to remain the same in 2011. The situation is made worse by the disparity in the exchange rate between the SDR and Fiji dollar.

► DIVISIONAL STAFFING

6. As at 1 September 2010, LRD had a total of 88 staff made up as follows:

Table 2: Staffing of LRD in mid-2010

	Director	GR	FAT	FAD	PH	AHP	BAT	CP	L M RPS	ICE	ADMIN	TOTAL
Internationally recruited	1	2	2	3	2	7	3	2	9	2	1	34
Technical	0	12	1	16	5	3	3	1	0	3		44
Administrative											10	10
TOTAL	1	14	3	19	7	10	6	3	9	5	11	88

7. At the end of June 2010, the total number of staff positions in LRD was 88, of which nine were vacant. Thirty-four positions require specialised technical skills and are recruited internationally; 44 are for semi-specialised technical staff and laboratory assistants, and 11 positions including the Administration and Finance Coordinator (internationally recruited) provide administrative support across LRD's thematic areas. Two internationally recruited and two technical staff members are based outside Fiji.

► STRATEGIC PLAN OBJECTIVES AND CORE FUNCTIONS

8. LRD is progressively implementing its 2009–2012 Strategic Plan which was approved by CRGA 38. It has three objectives and 13 outputs, which are also identified as its core functions. These are as follows:
- i) **Improved food and nutritional security**
 - 1. Development of policies to support the production, utilisation and consumption of locally grown food.
 - 2. Agro-biodiversity conserved, promoted and utilised.
 - 3. Diverse food supply systems promoted.
 - 4. Traditional knowledge preserved, enhanced, utilised and acknowledged
 - ii) **Integrated and sustainable agriculture and forestry resources management and development**
 - 1. Sustainable forestry, agriculture and land use plans, policies and legislation supported.
 - 2. Sustainable and appropriate forest, agriculture and land use management practices developed and promoted.
 - 3. National and regional capacity to prepare, respond, and adapt to climate change and natural disasters developed and strengthened.
 - 4. Invasive species, pest and disease problems identified and addressed and capacity to respond at national and regional level supported.
 - 5. National and regional capacity of extension, outreach and information services strengthened.
 - iii) **Improved biosecurity and increased trade in agricultural and forestry products**
 - 1. National capacity to comply with international and other relevant standards strengthened.
 - 2. National capacity to increase domestic and export trade developed and strengthened.
 - 3. Sustainable and viable post-harvest technologies developed and promoted.
 - 4. Improved information available on plant and animal health status.



Agrobiodiversity and climate change discussed at 4th regional heads of agriculture and forestry leaders meeting.

HOAFS 2010 participants

The Fourth Regional Meeting of Heads of Agriculture and Forestry Services (HOAFS) was held from 14 to 17 September 2010, at Tanoa International, Nadi, Fiji Islands.

The HOAFS forum is made up of CEOs, Directors and Permanent Secretaries of Ministries of Agriculture and Forestry of the 22 member states of the Secretariat of the Pacific Community (SPC). The Suva-based Land Resources Division (LRD) of SPC provides the secretariat for HOAFS. The biannual HOAFS meeting is the main regional platform for discussing Pacific agriculture and forestry issues, and for updating members on developments at the national and regional level across the two sectors.

The meeting was opened by Fiji's Minister for Primary Industries, Joketani Cokanasiga who urged the forum to encourage self-sufficiency and the reliance of our people on traditional practices that have sustained agriculture in the Pacific for generations.

"2010 is the International Year of Biodiversity and it is very apt that the Heads of Agriculture and Forestry have as their theme **"agro-biodiversity to address climate change, food security and trade"**."

He said agrobiodiversity can be used as a tool to address the reduction of poverty, promote development and improve food security.

Agrobiodiversity provides us with a wonderful opportunity to ensure food production in very challenging times, and at the same time do minimum damage to our precious environment, we have to maintain our roots - but we have to treat our environment with respect and guarantee that at all times to have a place where we truly belong.

Much can be gained from the sustainable use of agrobiodiversity at the individual, local, national and regional level, and beyond that globally. At

the local level, the diversity found within a home garden can be increased through growing a range of crops and also not the same variety of one crop. Growing different crops and varieties ensures a diverse healthy diet, and food on the table regardless of the weather patterns. At the national level, using practices that safeguard and sustainably utilize agricultural biodiversity will secure food production, and at the same time, support a healthy Pacific population.

Local knowledge and culture can be considered as integral parts of agro biodiversity, because it is the human activity of agriculture which conserves this biodiversity and most crop plants have now lost their original dispersal mechanisms and need human input to thrive.

Cokanasiga stressed that the range of populations are needed by agriculture, such as pollinators (bees and such like) and beneficial predators.

"Soil health is an area that has been much neglected in recent years with the constant drive to get more production out of the land." Mr Cokanasiga said

"However recently farmers, extensionists and researchers are realizing that the time has come to put back into the soil what has been taken out and to use agricultural systems that will improve and nurture soil health."

Using agricultural practices that build on existing ecological processes such as soil conservation, and biological pest control, and utilizing systems that include crop and livestock diversity, can reduce the need for fertilizers and pesticides, thereby preserving the health of the agricultural ecosystem, and ensuring food production into the future.

The Convention on Biological Diversity (CBD) defines agro biodiversity as all of the components of biological diversity relevant to food and agriculture including agricultural ecosystems.

It therefore encompasses the variety and variability of animals, plants and micro-organisms at the genetic, species and ecosystem levels that are necessary to sustain agricultural production. Basically without agro biodiversity we would have no food.

A close look at the CBD definition highlights the huge role agro biodiversity plays in our lives, and the need to ensure conserving this biodiversity and sustainably using it. Agriculture occupies more than one-third of the land in most countries of the world, and the Pacific is no exception.

The importance of agrobiodiversity is specifically recognised in the SPC LRD Strategic Plan 2009–2012, which includes the call to 'conserve, develop, promote and utilise agrobiodiversity'. The establishment of the new Centre for Pacific Crops and Trees is evidence of the commitment of SPC to the sustainable conservation and use of agrobiodiversity.

Conservation and management of broad-based genetic diversity has been supporting the improvement of agriculture for 10,000 years. It is this broad base of diversity that has enabled agriculture to sustain increasing populations over the years. At the same time, this diversity has provided resilience within agricultural ecosystems, so they have the capacity to recover from environmental stress and to evolve. This capacity to evolve has given us the diversity that can be the key to solving pest and disease problems. The sustainable use of agrobiodiversity can support the countries of the Pacific in meeting the challenges of climate change, ensuring food and nutritional security and developing trade.

A recent livestock survey in Fiji, Niue, Tonga and Samoa has revealed that there is ample genetic diversity in local pigs and chickens, which will allow researchers to identify some locally adapted breeds that show specific resistance or tolerance to disease, limited feed and water, as well as climate change.

Agrobiodiversity can also make a significant contribution to our health. The increased consumption of imported foods of poor nutritional quality and the concurrent neglect of traditional food systems has led to escalating rates of diabetes and other non-communicable diseases. Growing and consuming the diverse traditional island foods offer an opportunity to improve



Fiji Minister of Primary Industries, Hon. Juketani Cokanasiga with Permanent Secretary Col. Mason Smith at the HOAFS Meeting.

the nutritional status and health of Pacific communities. Some Pacific Island countries and territories (PICTs) have already established national programmes to boost local food production. Examples include the *Talomua* programme in Samoa, and *Go Local* in Federated States of Micronesia (FSM).

Mass media coverage of issues related to agrobiodiversity has been relatively limited, although the International Year of Biodiversity 2010 has led to increased coverage recently. Agrobiodiversity is an

issue that cuts across a wide range of topics, including preserving island ecosystems, promoting health and addressing climate change impact. Recognition of its role in all of these areas will strengthen media involvement in raising public awareness and political action.



HOAFS Participants on their tree planting field trip



Acting LRD Director Inoke Ratukalou welcoming the participants on the first day....



► PROGRESS TOWARDS ACHIEVING STRATEGIC PLAN OBJECTIVES

9. A detailed report on progress against the LRD strategic plan for 2009–2012 and work implemented in 2010 is attached as Annex 4. Below is a summary of some key achievements.
10. LRD's integrated mode of operation is based on seven thematic area teams and three support teams working together with stakeholders to identify and prioritise issues and jointly implement solutions. It has a well-established platform for supporting PICTs (Pacific Island countries and territories) in meeting the challenges of this century. These challenges – perhaps the most demanding the Pacific has had to address in recent years – include climate change, rising food prices, and land management and conflict issues. In addition, demands to provide alternative fuels (biofuel) could conflict with the principles and practices of food production, even to the point of competing for the land on which production takes place.
11. LRD staff have been actively involved in the work of SPC missions for developing joint country strategies (JCS) in Vanuatu, Kiribati, Tuvalu and recently Fiji, which have joined the other 15 countries in the development of their JCS. This process has assisted LRD to focus its activities at national level on priority areas identified in national and sectoral strategic plans (which are linked to the division's integrated strategic plan).
12. LRD will continue its partnership with the German Agency for Technical Cooperation (GTZ) through the SPC/GTZ programme, Adaptation to Climate Change in the Pacific Island Region (ACCPIR). This programme reflects LRD's commitment to member countries to address climate change issues in agriculture, forestry and land use. It is also evidence of the successful partnership between SPC and GTZ, established over the 10 years of the SPC/GTZ Pacific-German Regional Forestry Project.
13. Ongoing liaison and reporting has been maintained with the division's traditional donors and strategic partners, in particular, EU, AusAID, the New Zealand Aid Programme, France, the Government of Germany and GTZ, ACIAR, FAO, CTA (Technical Centre for Agricultural and Rural Co-operation ACP-EU) and IFAD (International Fund for Agricultural Development).
14. Over the two years of the current LRD strategic plan, progress has been made, within the limits of available resources, in responding to the resolutions in the communiqué of the 2nd Regional Conference of Ministers of Agriculture and Forestry (MOAF) and 3rd Conference of Heads of Agriculture and Forestry Services (HOAFS) in 2008.
15. A total of 31 specific recommendations were made in the areas of improved food and nutritional security, integrated and sustainable agricultural and forestry resources management and development, and improved biosecurity and increased trade in agricultural and forestry products (Annex 5). LRD has responded comprehensively to all of these recommendations but their nature means that implementation will be ongoing throughout the life of the strategic plan.

Conserving and developing local livestock breeds for food security

A recent livestock survey in Fiji, Niue, Tonga and Samoa has revealed that there is ample genetic diversity found in local pigs and chickens.

Data collected will allow researchers to identify some locally adapted breeds that show specific resistance or tolerance to disease, limited feed and water, as well climate change.

The survey involved the collection of 40 indigenous pigs and 40 chickens from the survey countries. DNA analysis was conducted at the International Livestock Research Institute (ILRI) laboratories in Beijing, China.

The surveys were conducted as part of the Southwest Pacific Regional Animal Genetic Resources (SWP AnGR) project funded by the Australian government through the UN Food and Agriculture Organization (FAO). The goal of the pilot project is to improve the genetic base and distribution of selected livestock materials.

Animal Health and Production (AHP) thematic team of SPC's Land Resources Division is implementing the project, which has been extended to June 2010 with the aim to cover Solomon Islands and Vanuatu. Researchers hope to survey all livestock species in the near future to gather data on the extent of livestock diversity in the region and to conserve and use locally adapted breeds.

SPC is helping Pacific Island countries and territories meet challenges in food security, including livestock production, and having this information and knowledge on the diversity of local livestock is crucial to decision-making. The aim is to develop, conserve and use local breeds of livestock to enhance food security and livelihoods of Pacific communities.

Training of regional livestock staff

Training of livestock staff and stakeholders is a major part of the SWP AnGR project. AHP has trained 47 local staff members in the project countries on the techniques of animal handling and restraint, interviewing techniques, blood sampling techniques, sample preservation and storage. Technical training will also be carried out in Vanuatu and Solomon Islands with the project extension.

AnGR awareness

In the Pacific Islands there is a lack of awareness of the development and conservation of animal genetic resources for food security and rural livelihoods. To address this knowledge gap SPC is conducting awareness campaigns to increase understanding of animal genetic resources on the part of decision-makers and the public through presentations and discussions, distribution of posters and T-shirts and news stories in the media.

Information dissemination and sharing

Technical discussions and information sharing on AnGR will be enhanced through the establishment of the swpangr@lyris.spc.int email listing and the AnGR website which will be launched soon. These activities are supported under the SWP AnGR project to promote the significance of animal genetic resources in the region. Information sharing is encouraged to promote agrobiodiversity for conservation and utilisation.



Technical advice on requests for improved genetic breeding material

In the past, SPC has facilitated many requests from the Pacific for breeding material to increase livestock production to meet food security issues. The requests were for breeding material for pigs, sheep, goats and cattle. AHP directed these requests to local livestock authorities or other sources of breeding material for improved stock. The Fiji Ministry of Primary Industry has provided the breeding material for many requests, especially those for pigs and sheep due to the availability of local quality genetic material for those animals.

AHP continues to offer technical advisory assistance to the region, including import and export risk analysis and screening protocols. Tuvalu and Kiribati were assisted with importing improved breeding stock for pigs, Samoa and Tonga were assisted with breeding stock for the Fiji Fantastic breed of sheep, and Solomon Islands received assistance with import risk analysis protocols for the importation of cattle from Australia. Pacific Island countries and territories want to import improved breeds of livestock and AHP provides technical advice on import risk assessment as well the selection process for improved animal breeds.

For more information, please contact Dr Ken Cokanasiga, Team Leader, Animal Health and Production (KenC@spc.int).

► HIGHLIGHTS OF WORK TO LRD'S THREE OBJECTIVES

Objective 1: Food and nutritional security

Output 1. Development of policies to support the production, utilisation and consumption of locally grown food

16. As an active member of the Pacific Food Summit Working Group, LRD was fully engaged in development of the *Framework for Action on Food Security in the Pacific* and arrangements for the Pacific Food Summit, and supported the National Food Summits held in American Samoa, Cook Islands, Federated States of Micronesia, Fiji, Kiribati, Samoa and Vanuatu.
17. LRD is supporting implementation of the FAO programme, Food Security and Sustainable Livelihoods in the Pacific (FSSLP), which is due to begin in early 2011.

Output 1.2 Agro-biodiversity conserved, promoted and utilised

20. The Pacific's regional genebank, the Centre for Pacific Crops and Trees (CePaCT) is operating from a new purpose-built facility at Narere, Fiji. This new location offers more space for the conservation of the region's crop diversity and importantly for the distribution and evaluation of traditional and improved diversity to PICTs. The new Centre has also enabled SPC to establish its own virus indexing facility, thereby supporting the efficient and safe release of material to PICTs.
21. CePaCT has distributed 4,038 plants to 12 PICTs since 2009. The crops/species distributed include taro, sweet potato, yam, banana, breadfruit, *Alocasia*, *Xanthosoma*, , cassava, potato and vanilla.
22. A regional workshop on Sandalwood (*Santalum spp.*) was held in Port Vila to facilitate exchange of information on sandalwood resource development, research and trade; strengthen and explore opportunities for future collaboration; and develop recommendations for future directions to ensure sustainability of sandalwood as a vital economic resource in the Pacific region. The workshop was attended by 45 participants from the Pacific and Asian region, including China.

Output 1.3 Diverse food supply systems promoted

23. A Pacific Crops for the Future meeting was held in collaboration with Crops for the Future (formerly ICUC), PNG's National Agricultural Research Institute (NARI), the Asia-Pacific Association of Agricultural Research Institutions (APAARI) and Bioversity International. Target crops were identified and matrices developed documenting the work done on underutilised species. In addition, a strategy was formulated, consisting of five distinct elements to promote and encourage the use of these neglected species.

Output 1.4 Traditional knowledge preserved, enhanced, utilised and acknowledged.

24. IFAD has supported LRD in conducting atoll agriculture research and development at the Centre of Excellence for Atoll Agricultural Research and Development in Tarawa, Kiribati. Areas of work include atoll soil management, water management, cultivar evaluation, and improving the resilience of food production systems to climate change. The centre is also documenting sustainable food production systems, and food preservation and utilisation methods for atolls



Training for new quarantine officers from Nauru and Kiribati

Twenty quarantine, research and extension officers from Nauru and Kiribati attended a one-week training course to improve their knowledge and skills in effective border control and management. The training is intended to strengthen their capacity in biosecurity operations, to minimise the risk of entry of exotic pests and diseases including invasive species. The officers were recently engaged to provide biosecurity services at their national borders.

The course was held in Tanaea, Tarawa, Kiribati, from 7 to 12 June, 2010, and provided by the two SPC technical officers, plant pathologist Tony Gunua, and biosecurity and trade facilitation officer, Roy Masamdu. The training was funded under by the Pacific Agreement on Closer Economic Relations (PACER) Regional Trade Facilitation Programme under the quarantine support programme.

In her opening remarks, the permanent secretary for the Ministry of Environment, Lands and Agriculture Development, Ms Tarsu Murdoch, reminded the participants of fragile Pacific environments.

'We need to be aware of the negative impact of introduced exotic organisms on the health of plants, animals, humans and the environment. Therefore we need to strengthen our border operations to prevent introduction of new pests and diseases,' she said.

The training workshop covered aspects of aircraft and vessel inspection, pest and disease surveillance, import regulatory systems, pest incursion and response and export facilitation. The negative effect of transboundary animal diseases, plant pests and invasive alien species was stressed especially for small and vulnerable island states with inadequate resources to respond to incursions. Border inspections therefore must be thorough and effective.

The workshop was officially closed by the Minister for Environment, Lands and Agriculture Development, Hon Amberoti Nikora, who presented participants with workshop certificates. Present at the closing ceremony were the two permanent secretaries, Mrs Murdoch of MELAD, and Ms Matereta B. Raiman of the Ministry of Commerce, Industry and Cooperative Services.

For more information, please contact lrhelpdesk@spc.int.

Objective 2: Integrated and sustainable agriculture and forestry resources management and development

Output 2.1 Sustainable forestry, agriculture and land use plans, policies and legislation supported.

25. Some PICTs have been assisted (in some cases in collaboration with FAO and SPC/GTZ ACCPIR) in developing or reviewing policies and legislation relating to sustainable land, forest and agriculture management.
26. LRD continued to monitor and fine-tune the development of PICTs' Animal Health Emergency Response Plans (AHERP) against the Pacific preparedness checklist, including updating of our AHERP checklist database for all PICTs.

Output 2.2 Sustainable and appropriate forest, agriculture and land use management practices developed and promoted.

27. LRD, in collaboration with ACIAR, USP (University of the South Pacific) and several Australian universities, has begun implementation of the Pacific Agribusiness Research and Development Initiative (PARDI) with the main objective being to improve competitiveness and market access for agricultural products. The initiative will contribute to PICTs' economic growth and benefit smallholder farmers and traders. It will also utilise the knowledge generated by previous ACIAR and other regional projects and will link with programmes such as EU-funded Facilitating Agriculture Commodities and



Media and ICT to strengthen national extension services

Agriculture in the Pacific remains a significant contributor to rural employment, food security, and foreign exchange earner. In some Pacific states up to 30% of national GDP is attributed to the agricultural sector, Solomon Islands in 2006 pegged agriculture at over 50 percent of GDP. Most Pacific islands have large rural populations. Agriculture's contribution to the economy of Pacific islands goes far beyond simply the production of crops and livestock. The multiplier effects of agriculture on the rest of the economy can be many times more than that shown on quantities of primary production alone.

The delivery of information, technical advice, and agricultural skills training for farmers rests with the national extension services. However, extension is given a low priority across the Pacific.

Extension work continues to face challenges given scarcity in human, financial and physical resources. The need 'to do more for less' is a reality and partnering with the media can help enhance extension service. The extension officer to farmer disparity points to challenges in extension delivery of information. In PNG, the ratio is 1 to 3600, and in some parts in northern Solomon Islands it is 1: 14,000. For medium size islands like Samoa and Tonga, the ratio is close to 1: 800. Extension work is further hampered with lack of transport, or lack of fuel for transport.

Production of extension information is the task of the information units of national ministries of agriculture. However, the capacity of national agricultural information units to provide this service have diminished over the past years as the service is made redundant or activities absorbed into other technical divisions following structural reforms implemented by national governments in the 1990's.

Research and development on agriculture is carried out at government research facilities. Increasingly, researchers are adopting a holistic and participatory approach recognizing farmers' input into research and carrying out on-farm trials. The media and ICTs can help facilitate the link between research and extension.

Partnering with the media offers an alternative for extension to continue with one of its core function of disseminating information. The increasingly important role of the media calls for a closer working relationship with extension. The Pacific media and agriculture summit in May 2009 recognised the need for media workers to be sensitised in extension work to develop trust, and a greater appreciation of efforts in rural development work. Conversely, extension needs to be aware of the operations of the media industry, how information is collected and reported, what is priority news, how agriculture is reported in the news, etc.,

.....continues on page 23

Trade (FACT pilot project). PARDI is designed to complement PHAMA. The project has initial funding of AUD 12 million and will focus on six countries (Solomon Islands, Fiji Islands, Samoa, Vanuatu, Tonga and Kiribati) to address production and supply-chain constraints associated with fresh and processed horticultural, fisheries and forestry products.

28. In collaboration with the Tonga Forestry Division, LRD provided technical and financial support to Hango Agricultural College in Eua to train students on agroforestry practices and the establishment of an agroforestry demonstration farm.

Output 2.3 National and regional capacity to prepare, respond, and adapt to climate change and natural disasters developed and strengthened

29. LRD, through the support of SPC/GTZ ACCPIR, established three pilot sites for climate change adaptation in Vanuatu, and two in Tonga. Technical support was also provided to strengthen national climate change database and information systems.

30. LRD, with the support of the AusAID International Climate Change Adaptation Initiative (ICCAI) and the US government, has established a 'climate-ready' collection of crops and varieties known to have suitable traits at CePaCT. The collection is now being evaluated in individual PICTs for climate tolerant traits such as resistance to drought, salinity and water-logging. The collection is a dynamic one and will be modified according to the evaluation information received. The ICCAI is also supporting a number of other activities, such as salinity tolerance screening research; agrobiodiversity studies in Fiji and Palau; and collaboration with CSIRO in crop modelling

31. LRD is supporting a collaboration between the Marshall Islands Conservation Society (MICS) and the Ministry of Resources and Development of the Republic of the Marshall Islands (RMI) in conducting a technical assessment on sea level rise and its possible impact on the Marshall Islands, evaluating vulnerability and resilience, as well as practical and policy opportunities for mitigation and adaptation, and possible constraints.

Output 2.4 Invasive species, pest and disease problems identified and addressed and capacity to respond at national and regional level supported.

32. LRD continued to provide technical and financial assistance to Fiji on its Brucellosis eradication programme, green iguana programme, and the

termite (subterranean termite *Coptotermes gestroi*) eradication programme, and assisted both Tokelau and the Solomon Islands in their investigation and overseas referral of reported poultry deaths.

33. LRD collaborated with LandCare New Zealand, United States Forest Service, SPREP (Secretariat of the Pacific Regional Environment Programme), and the Pacific Invasives Partnership in organising the First Meeting on Biological Control of Pests and Weeds of Agriculture and Forestry in the Pacific Region (Auckland, New Zealand). SPC has been tasked with taking a leading role in planning and undertaking biological control programmes against pests, diseases and weeds and other invasive species.

Output 2.5 National and regional capacity of extension, outreach and information services strengthened

34. The LRD website was re-designed for more effective and efficient information exchange and a special climate change section was included. In addition, information materials on climate change and agriculture have been developed and distributed widely.
35. LRD and SPC/GTZ ACCPIR supported the regional seminar on The Media and Agricultural and Rural Development organised by SPC/CTA.

Objective 3: Improved biosecurity and increased trade in agricultural and forestry products

Output 3.1. National capacity to comply with international and other relevant standards strengthened

36. With assistance from the Pacific Regional Economic Integration Programme (PACREIP), LRD set up Biosecurity Information Facilities (BIFs) with equipment, and provided training in Fiji Islands, French Polynesia, PNG, Tuvalu, Solomon Islands, Marshall Islands and Niue. Equipment and software were also provided to Tonga, Vanuatu, Federated States of Micronesia (FSM) and Palau. The Cook Islands and Fiji Islands BIFs are now functioning and operators are able to use the system, with guidance from online manuals, to assist in issuing import permits and export certification.
37. LRD, in collaboration with CSIRO, conducted training of key forestry and quarantine officials from eight SPC member countries (Fiji, Kiribati, Nauru, Papua New Guinea, Samoa, Solomon Islands, Tonga and Vanuatu) on improving governance and building capacity for safe movement of tree germplasm between Pacific Island countries. The training also looked at pest risk analysis and practical procedures to facilitate the efficient and safe exchange of wild and improved tree germplasm among PICTs and to minimise the identified problems.



12th Meeting of Pacific Plant Protection Organisation (PPPO) Executive Committee, December 2010, Auckland, New Zealand.



LRD supports sandalwood industry in the Pacific

LRD has been involved with research and development (R&D) and consultation on development of sandalwood industry for long as its first regional sandalwood meeting was held in Hawaii in 1991, followed by 1994 and 2002 meetings in Noumea and a meeting in Fiji in 2005.

SPC's Genetic Resource Centre have also conducted research to develop a protocol for initiating sandalwood into tissue culture and to produce clean planting material for sandalwood growers.

LRD's effort and the increasing demand for sandalwood was the impetus for Mr Jonathan Naupa of Tropical Rainforest Aromatics, Vanuatu, to venture into commercial sandalwood production.

At the Regional Workshop on Sandalwood Resource Development, Research and Trade in the Pacific and Asian Region held in Port Vila last year (November, 2010), Mr Naupa briefed the participants on his farm and processing site, proudly demonstrating his belief and passion for the Sandalwood Industry.

Tropical Rainforest Aromatics, with the involvement of the small farmers/villagers in the communities, boasts more than ten thousand sandalwood plants and more plantings are planned.

'Sandalwood is a high value, non-perishable export product, which can be grown to provide substantial cash income in order to improve the standard of living of smallholders and their families living in remote islands and with limited income generating opportunities.

Sandalwood needs to be prioritized in Government forestry policy, research and development, extension, rural development and trade, said Mr Naupa.

As for Vanuatu, sandalwood has considerable cultural and economic importance to many communities. It is for this reason that its conservation is an important issue and deserves added input to ensure its sustainable development and management. Because of its high economic value and suitability to be developed in cultivated situations, including agroforestry systems and plantations, sandalwood has the potential to make a significant contribution to rural economies.

Similar to Vanuatu, other PICTs have also gone into commercial sandalwood plantation. EU funded FACT project, which is managed under Forest and Agriculture Diversification Programme of LRD has been supporting farmers in Rotuma and Fiji to establish plantation.

Sandalwood has provided income and trade for Pacific Islands and peoples for more than 200 years and therefore, the 10 endemic Pacific sandalwood species are of considerable cultural, socio-economic and environmental importance.

Sandalwood has a unique potential to continue to contribute to the improvement of living standards in Pacific Island countries and territories. And for this to happen, there must be critical assessment, cutting-edge research and development, improved management practices and policies, and marketing initiatives and promotions in the key markets of East Asia, India, Middle East, Europe and USA.

Output 3.2 National capacity to increase domestic and export trade developed and strengthened

38. Through the FACT pilot project, independent economic and systems analyses of production, export and marketing requirements and design were undertaken for 14 enterprises selected for support (in Fiji Islands, Marshall Islands, PNG, Samoa, Solomon Islands, Tonga and Vanuatu). Based on these studies, the project has begun to facilitate ongoing improvements to assist in developing commercially viable, sustainable and market-oriented production programmes for these enterprises.
39. Under the guidance of the Pacific Organic and Ethical Trade Community (POETCom), formerly the Regional Organic Task Force, the national organics associations of Cook Islands, Fiji Islands, French Polynesia, Kiribati, New Caledonia, PNG, Samoa, Solomon Islands, Tonga and Vanuatu have continued to develop and promote local organic production and marketing. Some national associations have commenced exports, e.g. coffee from PNG and Vanuatu and organic coconut oil from Samoa and Solomon Islands.

Output 3.3 Sustainable and viable post-harvest technologies developed and promoted

40. With assistance provided under the PACER project, the LRD Biosecurity and Trade Support Team participated in the final design missions for the PHAMA project to Solomon Islands, Fiji Islands, Samoa, Vanuatu and Tonga. PHAMA, which is set to start in November 2010, will provide a mechanism to support and expand export market opportunities for horticultural and other agricultural commodities. This will be done by creating regional mechanisms to identify and prioritise suitable products and facilitate the development of market access submissions, including ensuring follow-up of their progress through the regulatory agencies of importing countries. The FACT pilot project has facilitated the development of skills in post-harvest quality assurance and processing and packaging of products to increase compliance with SPS standards. Products include essential oils (PNG), cassava chips (Vanuatu), banana chips (Samoa), taro, cassava, ginger (Fiji), and pandanus juice (Marshall Islands). Aspects examined included market access, shelf life, and value adding to enhance the competitiveness of export products.

Output 3.4 Improved information available on plant and animal health status

41. The Pacific Plant Protection Organisation (PPPO) website on the international phytosanitary portal (IPP) is maintained. The Pacific fruit-fly website is also serviced and updated regularly. Pest list database assistance was provided to Tuvalu, Kiribati, Solomon Islands and FSM. The LRD Helpdesk responded to 259 directly submitted queries. Additional queries were made to individual sections and officers.
42. SPC received endorsement from HOAFS in 2008 to become a member of the CABI Compendium Development Consortium (the New Zealand Aid Programme recommended that SPC take up its seat on the consortium). SPC has sought funding support of USD 253,000 for discounted membership of the five different compendia, including the Invasive Species Compendium, which will include significant sections of the current Crop Protection Compendium. Future access to the various compendia will be through Internet access, and only for subscribers, with CABI phasing out the distribution of CD copies. The PHAMA project will support membership of the latter compendium due to the importance of the Crop Protection Compendium in trade facilitation.

► FUTURE DIRECTIONS, OPPORTUNITIES AND CHALLENGES

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43. Agriculture and forestry have been among SPC's core programmes since the organisation's inception. Now with the direction provided by HOAFS and MOAF meetings, and guidance from CRGA, the role of the programme has significantly broadened from crop protection, animal health and quarantine to also include crop production and soils management, animal production, genetic resources, forestry and agroforestry (since 1997), land use policy and planning, and more recently, trade.
44. The agriculture ministries of PICTs have always seen the services provided by LRD as essential to complement their own capacity, given the limited technical and financial resources at their disposal. Emphasis on plant protection support has broadened from border control and strengthened pest and disease control to include biosecurity and trade facilitation. Over the last five years, LRD has built a strong information, communication and extension outreach capability/capacity that has enhanced the impact of its interventions at national and community levels.
45. Having a strong integrated regional service with expertise in diverse thematic areas backed by an effective outreach service is crucial to the sustainability of the PICT agriculture sector. Some services can only be effectively provided regionally; e.g. conservation and development of the region's genetic resources for food and agriculture cannot effectively be undertaken at the national level or by any other regional / international agency.
46. The thematic and support areas of the LRD structure represent the core services provided by LRD to the membership. The focus may vary over time, influencing resource allocation. Crucial to LRD's capacity to deliver well-targeted services is the ability to maintain key positions (professionals who double as coordinators) in the division's organisational structure. Other key positions (e.g. plant pathologists, entomologists, veterinarians) provide skills that do not exist in many member PICTs and therefore need to be maintained for the long term.
47. The HOAFS Meeting held in September 2010 in Nadi identified 18 new priorities that will be included in LRD's work programme for 2011.
48. While the human resources capacity of the division to deliver assistance to PICTs has been fair over the last decade and stronger in the last three years, maintaining LRD's science and technology expertise will be difficult in the coming years. With the major challenges facing PICTs, particularly in the areas of climate change adaptation, food security and land management, as highlighted by Forum leaders in their 2007, 2008 and 2009 communiqués, LRD's science and technology capacity must be robust enough to effectively deliver to members the outputs articulated in LRD's strategic plan.
49. Almost all the services provided regionally by LRD are driven by, or developed in response to national priorities. Although these services constitute the core business of LRD in the agriculture and forestry sectors, the level of funding support for core services collectively in 2010 is as follows: 7% core funding; 17% programme funding; and 76% project funding. Project funding enables implementation of projects that achieve development objectives and outcomes. But the major pitfall of this type of funding is its non-continuity, which is a significant disadvantage in implementing core business that needs to be sustained over longer time frames. The development of the *Long-term sustainable financing strategy for SPC* currently being undertaken by the CRGA subcommittee is therefore warranted.

Pacific youth need family support to stay in agriculture

Support from the family and wider community, including giving young people more control over resource management and the financial benefits of their endeavours, are critical in encouraging young people to develop as agricultural entrepreneurs.

These are key messages from a survey of young people in Fiji, Tonga and Kiribati. Spiritual guidance is also important in youth development, with the church playing an important role in influencing young people's behaviour and activities, especially in engaging them in agricultural activities.

The survey was conducted in November 2009 as part of the activities of the Pacific Agriculture and Forestry Policy Network (PAFPNet). It was aimed at discovering what features of their environment encourage young people to participate in agricultural activities.

It is often said that young people are our future leaders and the most productive age group of our region's labour force. Yet many struggle to find formal employment after leaving school or college and increasing migration of young people from rural to urban areas in search of work puts pressure on already stretched infrastructure and services.

Can agriculture provide an attractive enough source of employment in rural areas to encourage young people to stay in their communities? Pacific Ministers of Agriculture at their meeting in Apia in 2008 asked SPC and partners to examine this issue in greater detail and to develop a Youth and Agriculture Strategy to build on initiatives promoting agriculture as a desirable and profitable career for young people.

The survey found young people are an important part of the informal labour force in their families and communities. In Fiji, Kiribati and Tonga, they are involved in agriculture activities that contribute to income generation as well as household food security. Youth are mostly responsible for planting and maintaining food gardens. A small number run and manage their own semi-commercial plantations. In rural Fiji, young people form groups for specific purposes, such as to build a house or fulfill a specific village or communal obligation.

The majority of young farmers are cultivating traditional crops with vegetables as secondary crops. Livestock agriculture is mostly limited to raising animals for home consumption.

Despite this active contribution to their families, communities and churches, many of the young people surveyed express frustration at a lack of recognition for their role. They also want relatives and community elders to support their initiatives by allowing them to share the benefits of their own endeavours and, importantly, to set aside land they can use for their own entrepreneurial activities.

The research attempted to determine what conditions are important for the success and sustainability of youth development programmes. The responses indicate that key factors include ensuring young people are actively involved in the design, implementation, and monitoring and evaluation of programmes and that their needs are identified and addressed. Providing a forum within the programme for young people to discuss these needs with

their families and community elders is seen as a vital step in developing greater awareness and understanding in families and communities of how they can support young people starting up agricultural ventures.

Although the usual factors of better access to credit, more frequent visits by extension officers and access to affordable agricultural inputs were raised as key constraints facing young people, these are seen as secondary to the issue of a positive supportive environment. This suggests that if agricultural extension services are to better support young people in agricultural activities, they need to broaden their traditional horizons and work with communities and partners to carry out participatory appraisals of youth needs, and to provide training on empowerment, confidence building and financial literacy.

Findings from the research provided valuable data for the development of the Pacific Youth and Agriculture Strategy 2011–2015. The Youth in Agriculture strategy is aimed at encouraging and empowering young people who live in rural areas to take advantage of self-employment opportunities that can contribute to higher agriculture productivity, improved livelihoods and reduced pressure on urban centres. It seeks to identify key strategies and actions that agriculture, youth and partnering ministries can implement to support young people in their personal and professional development.

This research is an initiative of the Pacific Agriculture and Forestry Policy Network, which is hosted by SPC's Land Resources Division, in partnership with the Human Development Programme of SPC. A draft of the Pacific Youth and Agriculture Strategy will be published soon for consultation with stakeholders. PAFPNet and SPC would welcome your views on how to engage more young people in agricultural activities to feed in to the development of

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PROGRAMME AND BUDGET FOR 2011

50. The 2011 work programme will be developed in detail in the first weeks of 2011, in the same format as provided in Annex 4 for 2010. The programme was discussed at the HOAFS meeting in September 2010 and will be adjusted in line with the new priorities then identified. Expected results and activities are assigned to individual staff members and form the basis of their work plans and performance appraisals during the year.
51. LRD continues to implement several ongoing projects, including: the Pacific Regional Influenza Pandemic Preparedness Project (PRIPPP); German Technical Cooperation (GTZ) Adaptation to Climate Change in the Pacific Island Region (ACCPIR); AusAID Forests and Trees Programme; EU funded Facilitating Agricultural Commodity and Trade in the Pacific Islands (FACT); AusAID International Climate Change Adaptation Initiative (ICCAI); AusAID Pacific Horticultural and Agricultural Market Access (PHAMA); and ACIAR Pacific Agribusiness Development Initiative (PARDI). These and other projects are integrated into LRD's framework in terms of implementation and reporting to development partners, HOAFS and SPC's governing body.
52. LRD will continue to work toward the achievement of its three objectives, namely: food and nutritional security, integrated and sustainable agriculture and forestry resources management and development, and improved biosecurity and increased trade in agriculture and forestry products.
53. In line with these objectives, the Director and supporting staff will concentrate on strengthening relationships with stakeholders – colleagues in agriculture and forestry departments, other regional agencies, partners that provide funding support, and international organisations. The Director oversees implementation of the work programme of the division as well as the management of major projects.
54. Under the *Improved food and nutritional security* objective, there are four outputs with activities including the following: support for the implementation of the *Framework for action on Food Security in the Pacific*; development of appropriate management techniques for breadfruit disease in Kiribati and mitimiti disease of taro in Solomon Islands; cheaper feed sources for livestock; development of a regional framework for sharing indigenous knowledge; research on genetic diversity of breadfruit and swamp taro and establishment of genebanks in at least five PICTs; and capacity building for PICT stakeholders in aspects of food security.



55. Its second strategic objective, *Integrated and Sustainable agricultural and forestry resources management and development* is implemented through five outputs, including: establishment of a climate-change adapted collection of over 100 crop varieties; establishment of a mechanism for rapid seedling production and distribution in times of disaster; strengthening of pest incursion responses and quarantine pest surveillance in most PICTs; support for development of national agriculture strategic plans in five PICTs; support for review and harmonisation of legislation and regulations on use of pesticides in six PICTs; finalising of the national land use policy for Cook Islands; support for the review and development of agriculture policies in Tonga and Vanuatu; mainstreaming of climate change into agriculture and forestry sector plans; and capacity building of PICT stakeholders on agriculture, forestry and land policies and sustainable practices.
56. Under its third objective, *Improved biosecurity and increased trade in agriculture and forestry products*, there are four outputs with activities including: facilitation of trade between PICTs (e.g. Rotuma and Tuvalu); development of traditional crops (taro, papaya and ginger) to meet trading standards; support for public awareness of safe movement of trade commodities; support for trading in improved livestock; support for maintenance of pest list databases (required for PICTs' trade, regionally and internationally), and capacity building of PICT stakeholders on biosecurity and trade facilitation.
57. The 2011 budget is summarised in Table 3.

Table 3: LRD budget for 2011 (CFP units)

	Core	Program	Project	Total
Director	190,000	111,300	0	301,300
GRT	21,400	244,100	783,200	1,048,700
FAD	115,800	204,600	2,686,100	3,006,500
PH	0	332,200	81,800	414,000
AHP	125,100	197,500	340,000	662,600
BAT	0	0	475,100	475,100
CP	0	0	580,400	580,400
LMRPS	92,700	92,400	21,400	206,500
ICE	0	298,200	0	298,200
ADMIN	0	245,300	175,000	420,300
Total	545,000	1,725,600	5,143,000	7,413,600

59. The 2011 budget is broadly similar to the 2010 budget presented to CRGA, but project funding is considerably less than for the 2010 revised budget. This reflects the fact that additional project funding is usually secured after the budget has been prepared.
60. In particular, the 2011 budget excludes a number of new initiatives including new AusAID, EU and FAO initiatives that are currently being negotiated or approved. These initiatives may fill some of the gaps left by delays in processing proposals made to other donors. The new initiatives are outlined below.
61. *Pacific Regional Land Initiative*: This initiative, which is jointly designed by SPC and USP, integrates the LRD terms of reference for land management and conflict minimisation interventions, as mandated by Forum leaders in their 2008 communiqué, and capacity building by USP's Faculty of Land Management. The initiative will have three components: information sharing and coordination; education and training; and professional development. AusAID has allocated AUD 4 million over three years for the initiative.

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this strategy. We are particularly interested in hearing from young people or those working with young people. The strategy will be presented to the Heads of Agriculture and Forestry Services (HOAFS) and Ministers of Youth later this year. Please contact SPC by emailing lrhelpdesk@spc.int with any comments and/or to receive a copy of the consultation document.



The SPC Land Resources Division has made significant efforts through its DSAP programme – Developing Sustainable Agriculture in the Pacific – to promote the involvement of women and youth in its activities. In recognition of those efforts the programme was the recipient of the first ever SPC Gender Award, in 2007 offered by the Human Development Programme, recognising the critical importance of gender issues in development. In Tonga, youth are empowered to live and value healthy lifestyles in the project Ma'a Lahi Youth Project, where DSAP and SPC Healthy Lifestyles Team are collaborating to promote the growing of vegetables in order to significantly increase the availability, accessibility, and affordability of vegetables and fruits for young people and their families.



The Pacific Agriculture and Forestry Policy Network (PAFPNet - <http://www.spc.int/PAFPNet>) was established in 2006 and aims to facilitate communication, information dissemination, capacity building and enhance awareness on issues related to agriculture and forestry policy. The network comprises policy officials from government, representatives from regional and international organisations, NGOs, the private sector, civil society and local community groups and encourages discussion and debate as a vital tool in shaping more effective policies that have at their heart improving the well-being of all the people of the Pacific. If you would like to join the network and receive regular updates please subscribe by emailing the lrhelpdesk@spc.int.

62. *Increasing Agricultural Commodity Trade (IACT):* This is a new project to be funded under EDF 10. Its overall objective is to 'improve Pacific-ACP (African, Caribbean and Pacific Group of States) economic integration through strengthened national systems and institutional frameworks to develop trade capacity, increase private sector competitiveness and increase international market access'. The project aims to strengthen productive export capacity in agriculture, forestry and aquaculture. IACT is expected to commence in early 2011 and operate for four years with a budget of EUR 9 million.

It will be implemented by LRD, in partnership with SPC's Fisheries, Aquaculture and Marine Ecosystems Division (FAME). The project will operate in the 14 Pacific ACP members: Cook Islands, FSM, Fiji Islands, Kiribati, Nauru, Niue, Palau, PNG, Marshall Islands, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu.

63. *Food Security and Sustainable Livelihoods Project (FSSLP):* This is an FAO initiative, with an overall goal of contributing to the achievement of food security by poor and vulnerable populations, especially women and youth, in PICTs. The major outcomes planned include increased ecologically sustainable crop, livestock, fisheries and/or (agro)/forestry production and productivity, improved land and market access for vulnerable and poor households, and the development of policies and strategic actions at country and regional levels to address immediate and long-term food security challenges. SPC is expected to work in partnership with FAO in the implementation of some components of the FSSL project. The project commences in June, 2011 and operates for 4 years with a total budget of USD 72 million. The SPC component of that budget is approximately USD 6 million.
64. *Agriculture and Rural Development Project:* This is also a new initiative to be funded under EDF 10. The likely core components of the project are as follows:
- a) Private sector development for small agricultural enterprises;
 - b) Dissemination of sustainable agricultural practices for smallholders;
 - c) Increased uptake of productivity enhancement practices and inputs for the main production systems in each PICT;
 - d) Strengthened research and development and extension services;
 - e) Support for female smallholders;
 - f) Linkages to existing programmes for disaster preparedness and climate change mitigation.

Media and ICT to strengthen national extension services

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In light of the constraints on human and financial resources and geographical constraints facing PICTs, the media and ICT is being promoted as a valuable tool in extension delivery. Increasingly ICT is being regarded as a tool for sustainable development and poverty reduction.

Mobile phones offer great potential for extension, with estimates of up to 50 percent of Pacific islanders have access to mobile phones. Mobile phones could help link extension systems with farmers to disseminate information such as on crop pricing or pests and diseases.

The Pacific Media Summit recognized the important role the media and ICTs play to assist extension and information dissemination, and calling for greater engagement of media groups at national and regional levels – Journalists Association of Western Samoa (JAWS), Pacific Islands News Association (PINA), PACNEWS, Islands Business, Radio New Zealand International, Radio Australia, Pacific Regional Organisations Media Officers (PROMO) – to assist with information dissemination including greater participation of the media in national/regional agricultural events, farmer field days, agricultural shows, workshops, farmer success stories, environment and health, etc.

The Technical Centre for Agriculture and Rural Development (CTA) have organised information

and communication workshops and seminars for Pacific ACP in past years in collaboration with SPC Land Resources Division. The focus on the role of the media in agriculture and rural development was the highlight of the Seminar held in Brussels in October 2009 where over 200 representatives of the media industry and rural development practitioners from ACP countries gathered for discussion on the topic. The seminar aimed to encourage the media to give greater prominence to agriculture in ACP countries. Media organisations through capacity building can facilitate awareness, learning and action to address major challenges in agricultural and rural development. SPC coordinated the participation of Pacific representatives to the Seminar.

The Pacific media and agriculture summit in May 2010 in Nadi is a direct outcome of the Brussels Summit, and the Pacific became the first member of ACP region to conduct a follow-up workshop. Participants to the Pacific Summit comprised of local and regional media organisations and heads of national extension services. An email group has been formed to facilitate communication between the media and extension and for summit organizers SPC and CTA to monitor growth in media coverage of agriculture and rural development issues. The Pacific Islands News Association, PINA is tasked in one of the summit outcomes to help coordinate media training for extension officers.

Overall project funding is Euro 25 million; the SPC component is yet to be agreed on.

65. In 2010, LRD services have generally been delivered in line with its strategic plan, though the functioning of the Land Management and Resources Policy Support Team was limited by the resignation of one of two members and the team leader taking on the role of Acting Director.
66. LRD has made considerable progress in mobilising resources for the work of its programmes in 2011, and the many staff who have contributed to the design and development of proposals should be commended. All of these projects are of 3–5 years duration, however, and while some will achieve their objectives in this time there remains a need for more sustained funding in several areas.



LRD – COUNTRY ACTIVITIES IN 2010

Country	Activity	JCS (y/n)	Cost FJD
American Samoa 	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipment and rapid test kits for avian influenza 	y	1,810
	<ul style="list-style-type: none"> Provided small grant to Agriculture Department for 'Strengthening animal health laboratory capacity' funding to procure animal health laboratory equipment and supplies – equipment list yet to be finalised by recipients 	y	40,910
	<ul style="list-style-type: none"> Supported one staff member to attend the regional draft International Standard for Phytosanitary Measures (ISPM) workshop in Nadi 	y	4,500
Cook Islands 	<ul style="list-style-type: none"> Crop diversity distribution of 141 of banana, breadfruit, cassava and yam plants, including climate ready varieties 	y	2,820
	<ul style="list-style-type: none"> Conservation of five traditional varieties of fehi bananas in CePaCT 	y	960
	<ul style="list-style-type: none"> Assistance to attend Sustainable Agriculture Symposium in Korea 	y	5,000
	<ul style="list-style-type: none"> Assistance for the management of Cuban laurel thrips incursion 	y	12,000
	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza 	y	1,810
	<ul style="list-style-type: none"> Provided small grant to Ministry of Agriculture for 'Avian Influenza Pandemic Training and Awareness Programme' supporting the conduct of Avian Influenza awareness in outer islands (ongoing from 2009) 	y	21,820
	<ul style="list-style-type: none"> Supported attendance of one staff member at the atoll agricultural conference in South Tarawa, Kiribati 	y	3,160
	<ul style="list-style-type: none"> Continue promotion of the use of <i>Mucuna</i> as a cover crop and green manure 	y	10,000
	<ul style="list-style-type: none"> Assistance for preliminary risk analysis on market access of Tahitian lime, Polynesian plum and island cabbage to New Zealand 	y	10,000
	<ul style="list-style-type: none"> Supported one staff member to attend the regional draft ISPM workshop in Nadi 	y	4,500
	<ul style="list-style-type: none"> Technical assistance on the biosecurity legislation and regulations 	y	10,000
	<ul style="list-style-type: none"> Supported one participant to attend the Regional Workshop on Sandalwood Resource Development, Research and Trade in the Pacific and Asian Region held in Port Vila, Vanuatu in November 2010 		
Federated States of 	<ul style="list-style-type: none"> Technical advice on planning for Micronesian Biosecurity Plan 	y	10,000
	<ul style="list-style-type: none"> Assistance to develop three-year workplans for implementation of FSM component of the Global Environment Facility (GEF)-Pacific Invasive Species Project in February 2010 meeting in Nadi 	y	10,000
	<ul style="list-style-type: none"> Pest alert produced for coqui frog 	y	5,000
	<ul style="list-style-type: none"> Training for 30 farmers on control of white flies in Kittu, Nett and Sokesh municipalities of Pohnpei State 	y	20,000
	<ul style="list-style-type: none"> Provided vegetable seeds to farmers in Pohnpei who supply the local markets with green vegetables 	y	2,500
	<ul style="list-style-type: none"> Training for 25 agriculture extension agents and farmers on the control of African Tulip trees on farm lands using manual, cultural methods and herbicide applications in Nett, Pohnpei 	y	25,000
	<ul style="list-style-type: none"> Collected and released biological control agent, on whitefly infested crops and <i>sakau</i> (<i>Piper methysticum</i>) in Pohnpei 	y	10,000
	<ul style="list-style-type: none"> Surveyed and collected biological control agent (<i>Pareucheates pseudoinsulata</i>) for control of <i>Chromolaena odorata</i> in Pohnpei 	y	12,000
	<ul style="list-style-type: none"> Updated and completed the development of the Agriculture Strategic Action Plan for Pohnpei State 	y	5,000

Federated States of Micronesia (cont'd)	<ul style="list-style-type: none"> Facilitated Food Security and Sustainable Livelihood Program (FSSLP) consultations with FSM State Governments (Yap [22 participants], Chuuk [18 participants], Kosrae [20 participants] and Pohnpei [29 participants]) as technical assistance to the FSM national government; concept projects identified by FSM states for the FAO FSSLP project 	Y	2,000
	<ul style="list-style-type: none"> Facilitated the development of memorandum of understanding between SPC and FSM affirming SPC's technical assistance to forest health services required by FSM; the memorandum facilitates the release of funds from US Department of Agriculture's Forestry Service (USDA FS) to FSM forestry sector 	y	2,000
	<ul style="list-style-type: none"> Facilitated four quarantine officers to attend the SPC-USDA Animal and Plant Health Inspection Service (APHIS) Quarantine and Plant Protection Workshop at the University of Guam 	Y	4,525
	<ul style="list-style-type: none"> Provision of desktop computer to the FSM National Quarantine Office for the Biosecurity Information Facility (BIF) 	y	2,910
	<ul style="list-style-type: none"> Coordinated and provided logistical support for the Food Safety & Food Processing training conducted in Kosrae (12 participants) and Pohnpei (23 participants) 	y	12,000
	<ul style="list-style-type: none"> Successfully negotiated with Kaselehlie Press newspaper to provide a free column (1 page) to publish agricultural news as means of raising awareness on agricultural development; facilitated the provision of agricultural news articles published in the column 	y	0
	<ul style="list-style-type: none"> Collaborated with College of Micronesia (COM) Pohnpei Campus in assisting four students from the Certificate in Agriculture course to be attached with LRD (FSM office) for six weeks 	y	0
	<ul style="list-style-type: none"> Supported the participation of three attendees to the Regional Workshop on Monitoring, Assessment and Reporting for Sustainable Forest Management (MAR-SFM) 	y	4,730
	<ul style="list-style-type: none"> Supported training of FSM counterparts on forest inventory and vegetation mapping of 14 atolls in FSM 	y	9,605
	<ul style="list-style-type: none"> Provided in-country training workshop (35 participants) on improving production standards and food safety standards for agricultural export produce 	y	39,100
	<ul style="list-style-type: none"> Provided technical advice and food processing equipment to private sector, including solar driers (Kosrae) and axis press for production of virgin coconut oil (Chuuk) 	y	5,650
	<ul style="list-style-type: none"> Supported participation of Chuuk representative to Asia-Pacific Coconut Community Meeting 	y	6,600
	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza 	y	1,810
	<ul style="list-style-type: none"> In collaboration with the Pacific Islands Forum Secretariat (PIFS) and SPC aquatic fisheries, conducted training in OIE terrestrial and aquatic animal disease reporting system for two participants 	y	16,200
	<ul style="list-style-type: none"> Support attendance of one staff at the atoll agriculture conference in South Tarawa, Kiribati 	y	6,520
	<ul style="list-style-type: none"> Updating and finalising the Agriculture Strategic Action Plan for Yap and Chuuk States 	y	5,000
	<ul style="list-style-type: none"> Collating, analysing data and completing report on the Food Security Vulnerability and Assessment Survey of the FSM outer islands 	y	2,500
	<ul style="list-style-type: none"> Supported one staff member to attend the draft ISPM workshop in Nadi 	y	6,500
<ul style="list-style-type: none"> Technical assistance on biosecurity legislation and regulations 	y	10,000	

Country	Activity	JCS (y/n)	Cost FJD
Fiji	Fiji JCS undertaken in August 2010		
	<ul style="list-style-type: none"> • Planning workshop for Max Planck Institute (MPI)/ Commonwealth Scientific and Industrial Research Organisation (CSIRO)/SPC project on crop modelling for climate change 		5,000
	<ul style="list-style-type: none"> • Supported an agrobiodiversity study on Viwa Island to assess impact of climate change on traditional and new diversity 		2,650
	<ul style="list-style-type: none"> • Provision of climate ready accessions of sweet potato for evaluation 		500
	<ul style="list-style-type: none"> • Supported the development of new tissue culture lab at Koronivia Research Station and lab consumables and digital camera 		30,000
	<ul style="list-style-type: none"> • Provision of banana varieties to local community in collaboration with MPI and FACT 		2,650
	<ul style="list-style-type: none"> • Documentation of breadfruit collection in Legalega 		800
	<ul style="list-style-type: none"> • Overseeing implementation of Papaya Project 		1,225
	<ul style="list-style-type: none"> • Coconut genetic work in Taveuni Fiji and coconut survey 		8,150
	<ul style="list-style-type: none"> • Pandanus work in Rabi islands 		2,055
	<ul style="list-style-type: none"> • MSc studies assistance 		6,560
	<ul style="list-style-type: none"> • Suspected <i>Erwinia papaya</i> bacterial disease diagnostic support provided; CABI gave a negative diagnostic report 		10,000
	<ul style="list-style-type: none"> • Overseeing implementation of Mikania Biological Control Project; releases of rust on Viti Levu and Vanua Levu 		7,835
	<ul style="list-style-type: none"> • Seedling distribution to assist flood relief efforts 		15,375
	<ul style="list-style-type: none"> • Supported Department of Environment with preparations on the Fiji National Biodiversity Strategic Action Plans (NBSAP) in preparation for the 2010 Conference of Parties to UNCBD; Plant Health Coordinator is on Invasive Species Technical Advisory Committee for Fiji's NBSAP implementation 		5,000
	<ul style="list-style-type: none"> • Proposal for African tulip impacts research to Critical Ecosystems Partnership Fund approved 		2,550
	<ul style="list-style-type: none"> • Posters produced and distributed for African tulip awareness 		790
	<ul style="list-style-type: none"> • Posters for taro Beetle awareness and control – reprint 		860
	<ul style="list-style-type: none"> • Insecticide screening experiment for taro beetle undertaken 		600
	<ul style="list-style-type: none"> • IPM of sustainable production system of <i>Brassica</i> crops 		5,390
	<ul style="list-style-type: none"> • Support the registration process of Fiji Organic Association (FOA) 		2,000
	<ul style="list-style-type: none"> • Implementing multilateral environmental agreement (MEA)-FAO project to review regulations on pesticides in Fiji and several other PICTs 		13,000
	<ul style="list-style-type: none"> • Continue assistance in rehabilitation after 2009 flood 		85,600
	<ul style="list-style-type: none"> • Continue assistance in rehabilitation after cyclone Tomas 		94,700
	<ul style="list-style-type: none"> • Crop mitigation for natural disaster – AusAID project supporting seedling nurseries around Fiji to support cyclone affected farming communities 		20,000
	<ul style="list-style-type: none"> • Supported two participants to the Regional Workshop on MAR-SFM 		1,560
	<ul style="list-style-type: none"> • Supported the participation of three participants at the Regional Workshop on Improving Governance and Building Capacities for Safe Movement of Tree Germplasm Between Pacific Island States 		3,730
	<ul style="list-style-type: none"> • Supported three participants to attend the Regional Workshop on Forestry Strategic Planning in the Pacific 		3,060

Fiji (cont'd)	• Continued support provided to the Drawa sustainable forest management model area	1,050
	• Support provided to strengthen weak components of supply chains for eight private sector exporters (covering a wide range of fresh and processed agricultural produce)	191,680
	• Support the development of fair-trade branded sugar from the Labasa Cane Growers Association	3,380
	• Support provided to develop sandalwood plantings on outer islands (Rotuma and Kadavu)	1,000
	• Procured and supplied animal disease investigation equipment and rapid test kits for avian influenza	1,810
	• In collaboration with PIFS and SPC aquatic fisheries conducted training in OIE terrestrial and aquatic animal disease reporting system for two participants	3,350
	• Provided training in laboratory diagnosis for avian influenza for eight participants (three animal health and five human health)	10,500
	• Provided small grant 'Facilitation of animal disease investigation and emergency response' – procurement of equipment and internet communications for three mobile response centres and 57 basic field investigation kits for use by paravets trained under the PRIPPP project funding	40,900
	• Assistance to Fiji on the evaluation of appropriate dairy cattle, beef cattle, goats and sheep breeds for importation from New Zealand and Australia	5,500
	• Discussion on importation protocols for animals from New Zealand and Australia	2,500
	• Upgraded Fiji Vet Pathology laboratory as a subregional animal health and production lab	182,000
	• Coordinated and conducted an awareness and consultation workshop on Internet governance and IT policy development, in collaboration with EDD and DIPLO (Geneva)	17,800
	• Provided in-country veterinary services	1,000
	• Provided technical guidance on brucellosis and green iguana eradication programmes	2,500
	• Provided technical training and guidance on an FAO project for day-old chicken hatchery production in Labasa	410
	• Stakeholder consultation workshop on the implementation of the market information system (currently ongoing initiative), Fiji	0
	• Coordinated and conduct a Pacific Agriculture and Forestry Policy Network (PAFPNet) Youth in Agriculture Strategy consultation; 52 people attended	2,900
	• Promoted the use of <i>Mucuna</i> as green manuring crop	1,000
	• Supported attendance of one staff member at the atoll agricultural conference in South Tarawa, Kiribati	8,425
	• Conducted a soil test interpretation training for agricultural staff and farmers	8,000
	• Supported three staff members to attend the draft ISPM workshop in Nadi	1,500
	• Supported and provided technical assistance for termite incursion and containment programme	25,000
	• Supported and facilitated Tuvalu – Rotuma trade	1,500
	• Provided advice on fresh taro rejections	1,000
	• Provided technical advice on fruit fly surveillance	1,000
	• Provided technical advice on ginger seed production and multiplication	10,000
	• Provided training on BIF	2,500
• Assistance on preliminary risk analysis for market access for Tahitian lime, Polynesian plum and island cabbage to New Zealand	5,500	
• Supported three participants to attend the Regional Workshop on Sandalwood, Vanuatu		
• Supported the launching of the One Million Trees planting campaign		

	<ul style="list-style-type: none"> LRD, through support of SPC/GTZ ACCPIR, supported Fiji in the assessment of its historical forest cover change and calculation of its forest carbon stock. This will determine the current forest carbon stocking in Fiji. Historical and future carbon change is determined through monitoring forest cover change. This is part of the national monitoring reporting and verification process for REDD. 		
	<ul style="list-style-type: none"> Through support of SPC/GTZ ACCPIR, assisted Fiji in the development of the National Reducing Emissions from Deforestation and Forest Degradation (REDD) policy (endorsed 06 December 2010), as well as assist Fiji in the drafting of the Fiji REDD Strategic Action Plan, and a decree relating to forest and forest management. 		
	<ul style="list-style-type: none"> Provided support to the Fiji Agricultural Show 		
	<ul style="list-style-type: none"> Through support of SPC/GTZ ACCPIR, assisted Fiji in the development of the National Reducing Emissions from Deforestation and Forest Degradation (REDD) policy (endorsed 06 December 2010), as well as assist Fiji in the drafting of the Fiji REDD Strategic Action Plan, and a decree relating to forest and forest management. 		

French Polynesia 	<ul style="list-style-type: none"> Support provided for collecting and documentation of Xanthosoma 	y	5,000
	<ul style="list-style-type: none"> Support provided for banana and breadfruit collections 	y	12,100
	<ul style="list-style-type: none"> Management of rhinoceros beetle - pheromone traps advice 	y	800
	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza 	y	1,810
	<ul style="list-style-type: none"> Supported development of BIF by engaging local consultant 	y	2,960
	<ul style="list-style-type: none"> Supported attendance of one officer at the draft ISPM workshop in Nadi 	y	5,500
	<ul style="list-style-type: none"> Support one participant to the Regional Sandalwood Workshop, Vanuatu 		
Guam 	<ul style="list-style-type: none"> Supported 20 quarantine officers to attend the 7th Sub-Regional Workshop on Quarantine and Plant Protection (SPC-USDA APHIS) training at the University of Guam on March 29-April 02 2010 		15,000
	<ul style="list-style-type: none"> Participated in the Trade meeting between the FSM Resources & Development and Guam Department of Agriculture and Guam Farmers Cooperative on 2-3 August; the meeting is the beginning of efforts between the two countries to build trade because of the future military build-up in Guam 		5,000
	<ul style="list-style-type: none"> Provided training on invasive species detection, prevention and management at biosecurity training at University of Guam with SPC BATS 		3,000
	<ul style="list-style-type: none"> Discussions on support for Micronesian Biosecurity Plan (new and ongoing project) 		3,000
	<ul style="list-style-type: none"> Support provided using polymerase chain reaction (PCR) technology to detect presence of Orytes virus to determine their efficacy in controlling the rhinoceros beetle 		2,500
	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza 		2,200
	<ul style="list-style-type: none"> Procured and supplied laboratory equipments to University of Guam 		1,810
	<ul style="list-style-type: none"> Support attendance of one officer for the draft ISPM workshop in Nadi 		5,400

Kiribati			
	• Crop diversity distribution of 155 plants (breadfruit, cassava, sweet potato, yam and taro) to Kiritimati Island	y	4,650
	• Pest and disease surveys on Tarawa and Butaritari undertaken	y	12,450
	• Weed surveys on Kiritimati Island completed; LRD has identified Puncture vine (<i>Tibulus cistoides</i>) as a serious weed requiring biological control	y	8,300
	• Supply of pheromone traps and training provided to quarantine staff on trapping for rhinoceros beetles	y	23,800
	• Advice and initiated eradication of Mikania weed at Betio, South Tarawa	y	5,000
	• Supported the participation of one person at the Regional Workshop on MAR-SFM	n	4,750
	• In collaboration with SOPAC, supported the training of Ministry of Environment, Lands and Agricultural Development (MELAD) staff on vegetation mapping and the use of GIS systems, tools and equipment	y	4,950
	• Supported the Agriculture Division of the MELAD in the promotion of agroforestry in the rural areas of Kiribati	n	8,850
	• Supported participation of one person at the Regional Workshop on Improving Governance and Building Capacities for Safe Movement of Tree Germplasm Between Pacific Island States	y	4,000
	• Supported two participants to attend the Regional Workshop on Forestry Strategic Planning in the Pacific	n	9,330
	• Provided in-country training workshops on processing of breadfruit and value added coconut products (including virgin coconut oil and coconut sap sugar)	y	52,310
	• Procured and supplied animal disease investigation equipment and rapid test kits for avian influenza	y	1,810
	• Conducted final assessment and completion of introductory paravet training – 17 trained paravets, including eight women	y	23,800
	• In collaboration with PIFS and SPC aquatic fisheries, conducted training in OIE terrestrial and aquatic animal disease reporting system for two participants	n	9,100
	• Provided training in laboratory diagnosis for avian influenza for two participants	y	6,600
	• Supported the operation of the IFAD-funded Centre of Excellence for Atoll Agriculture and Research based in South Tarawa	y	125,000
	• Conducted the IFAD Atoll Agriculture Conference in South Tarawa attended by 35 people	y	22,530
	• Supported the organisation and implementation of the National Food Summit of Kiribati	y	5,845
	• Facilitated the development of the Kiribati Agricultural Strategic Plan	y	11,245
	• Support attendance of one officer at the draft ISPM workshop in Nadi	Y	5,500
• Provide training for 17 quarantine, research and extension officers on quarantine inspection systems, invasive species, plant and animal pests and diseases, imports and export regulatory systems	Y	25,000	
• Provided technical advice on coconut pests	N	2,500	
• Provided computer and software for the biosecurity information facility	Y	3,200	
• Provided training on biosecurity information facility and the plant pest list database	Y	6,600	
• Technical assistance on the biosecurity legislation	Y	15,000	

Mariana Islands 	<ul style="list-style-type: none"> Supported the attendance of five quarantine/plant protection/animal health officers at the 7th Sub-Regional workshop on Quarantine and Plant Protection Training at the University of Guam 	y	4,500
	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza 	y	1,810
	<ul style="list-style-type: none"> Provided small grant for 'HPAI and emerging diseases surveillance, awareness and training project' to support surveillance for avian influenza in CNMI (ongoing from 2009) 	y	36,400
Marshall Islands 	<ul style="list-style-type: none"> Assistance for staff to attend workshop on breadfruit diversity, and to send breadfruit cuttings to Fiji for inclusion in CePaCT regional collection 	y	31,300
	<ul style="list-style-type: none"> Provided vegetable seeds for the DSAP-RMI nursery at Majuro for distribution to farmers 	y	23,000
	<ul style="list-style-type: none"> Facilitated the development of memorandum of understanding between SPC and Marshall Islands affirming SPC's technical assistance forest health services required by RMI; the memorandum facilitates the release of funds from USDA FS to RMI forestry sector 	y	4,500
	<ul style="list-style-type: none"> Facilitated two quarantine officers to attend the SPC-USDA APHIS Quarantine and Plant Protection Workshop at the University of Guam on March 29-April 2 	y	4,525
	<ul style="list-style-type: none"> Provided BIF training to three quarantine officers 	y	8,015
	<ul style="list-style-type: none"> Provision of desktop computer Marshall Islands Quarantine Office for BIF 	y	2,910
	<ul style="list-style-type: none"> Coordinated and provided logistics support for food safety and food processing training for 25 participants 	y	12,000
	<ul style="list-style-type: none"> Funded an agricultural trade column (half page) in the Marshall Islands Journal newspaper to publish related news 	y	8,000
	<ul style="list-style-type: none"> Pest alert produced for coqui frog 	y	2,500
	<ul style="list-style-type: none"> Supported the study on the vulnerability of Marshall Islands coral atolls and island on the impact of sea level rise in collaboration with the Marshall Islands Conservation Society (MICS) 	y	16,000
	<ul style="list-style-type: none"> Provided in-country training workshop on improving production standards and food safety standards for agricultural export produce for 25 participants 	y	19,600
	<ul style="list-style-type: none"> Support to strengthen weak components of supply chains for one private sector producer and exporter of pandanus products 	y	11,000
	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza 	y	1,810
	<ul style="list-style-type: none"> Supported attendance of one officer for the draft ISPM workshop in Nadi 	y	6,600
	<ul style="list-style-type: none"> Provide assistance on BIF 	y	5,000
<ul style="list-style-type: none"> Technical assistance on the biosecurity legislation and regulations 	y	10,000	
Nauru 	<ul style="list-style-type: none"> Support the participation of one person to the Regional Workshop on Improving Governance and Building Capacities for Safe Movement of Tree Germplasm Between Pacific Island States 	y	4,440
	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza 	y	1,810
	<ul style="list-style-type: none"> Conducted final assessment and completion of introductory paravet training - one paravet trained 	y	3,000
	<ul style="list-style-type: none"> Supported attendance of one participant at the atoll conference in Tarawa 	y	3,000
	<ul style="list-style-type: none"> Supported participation of three staff at the training on quarantine in Tarawa 	y	8,200
	<ul style="list-style-type: none"> Supported the printing and supplying of passenger arrival cards 	y	2,000
New Caledonia 	<ul style="list-style-type: none"> Provided small grant 'Préparation de la Nouvelle-Calédonie a la pandémie grippale: diagnostic et biosécurité au laboratoire' assistance to Pasteur Institute for equipment and personnel capacity development for preparedness for possible avian influenza incursions (ongoing from 2009) 		10,000
	<ul style="list-style-type: none"> Supported attendance of one officer for the draft ISPM workshop in Nadi 		3,000
	<ul style="list-style-type: none"> Supported attendance of one officer to the Regional Sandalwood Workshop 		2,170

Niue 	<ul style="list-style-type: none"> Support for development of business plan for Niue Organic Export Association and marketing of vanilla 	y	8,000
	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza 	y	1,810
	<ul style="list-style-type: none"> Conducted final assessment and completion of introductory paravet training – 14 paravets trained, including five women 	y	13,530
	<ul style="list-style-type: none"> Supported participation of one staff member at the atoll agriculture conference in South Tarawa, Kiribati 	y	4,430
	<ul style="list-style-type: none"> Facilitated a workshop for development of agricultural strategy for Niue; attended by over 30 people 	y	1,570
	<ul style="list-style-type: none"> Supported attendance of one officer at the draft ISPM workshop in Nadi 	y	6,600
	<ul style="list-style-type: none"> Provided desktop computer and software for BIF database 	y	3,200
	<ul style="list-style-type: none"> Technical assistance for market access for plantain to New Zealand and vanilla curing process 	y	6,600
	<ul style="list-style-type: none"> Technical assistance on the biosecurity legislation 	y	10,000
	<ul style="list-style-type: none"> Supported attendance of one officer to the Regional Sandalwood Workshop 		6,096
Palau 	<ul style="list-style-type: none"> Support for Kayangel atoll project through AusAID ICCAI: a community climate change adaptation project focusing on agrobiodiversity 	y	25,000
	<ul style="list-style-type: none"> Facilitated developed memorandum of understanding between SPC and Palau affirming SPC's technical assistance forest health services required by Palau; the memorandum facilitates the release of funds from USDA FS to Palau's forestry sector 	y	4,525
	<ul style="list-style-type: none"> Facilitated two quarantine officers to attend the SPC-USDA APHIS Quarantine and Plant Protection Workshop at the University of Guam 	y	2,910
	<ul style="list-style-type: none"> Coordinated and provided logistics support to food safety and food processing training for 15 participants 	y	15,000
	<ul style="list-style-type: none"> Support for invasive species awareness 	y	5,000
	<ul style="list-style-type: none"> Assisted with development of work plans for GEF-Pacific Invasive Species Project implementation in Nadi 	y	5,000
	<ul style="list-style-type: none"> Provided in-country training workshop on improving production standards and food safety standards for agricultural export produce for 15 participants 	y	19,600
	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza 	y	1,810
	<ul style="list-style-type: none"> Small grant provided to Bureau of Agriculture for 'Avian influenza surveillance capacity and laboratory support project' support to Animal Health laboratory for development of laboratory standard operating procedures and manual; funding for a practical surveillance exercise (ongoing from 2009 with additional technical input) 	y	54,600
	<ul style="list-style-type: none"> Supported attendance of one officer for the draft ISPM workshop in Nadi 	y	6,600
<ul style="list-style-type: none"> Provided desktop computer and software for BIF database 	y	3,200	
<ul style="list-style-type: none"> Technical assistance on the biosecurity legislation 	y	10,000	

Papua New Guinea 	PNG JCS not yet undertaken		
	<ul style="list-style-type: none"> Attended 'Seeds for Needs' planning workshop; through ICCAI funding will be provided for one pilot site – focus on identifying taro and sweet potato varieties adapted to specific climate scenarios 		6,125
	<ul style="list-style-type: none"> Tigaso tree oil research; supporting field plant-derived pesticide trials with NARI and chemical analysis of the oil with SPC and The Christensen Fund (TCF) support 		4,600
	<ul style="list-style-type: none"> Supported PNG Quarantine with little fire ant eradication programme in Wewak East Sepik Province under French Pacific Fund 		12,000
	<ul style="list-style-type: none"> Working with NARI in the evaluation of the taro core collection for drought and salt tolerance 		1,500
	<ul style="list-style-type: none"> Supported local grassroots group in National Capital District for marketing of taro domestically 		12,400
	<ul style="list-style-type: none"> Implementation and advisory role on ACIAR project for biological control of Mikania in PNG and Fiji 		5,450
	<ul style="list-style-type: none"> Facilitation of diagnostics and advisory role on Bogia Coconut Syndrome 		1,000
	<ul style="list-style-type: none"> Funded diagnostic research with UNITECH on unknown betel nut disease 		1,500
	<ul style="list-style-type: none"> Surveillance for coconut leaf miner (Promecotheca) biocontrol agents for use in Solomon Islands and Vanuatu on East New Britain with University of Vudal 		2,100
	<ul style="list-style-type: none"> Supported the participation of three persons at the Regional Workshop on MAR-SFM 		13,970
	<ul style="list-style-type: none"> Supported three participants at the Regional Workshop on Improving Governance and Building Capacities for Safe Movement of Tree Germplasm Between Pacific Island States 		14,225
	<ul style="list-style-type: none"> Supported one participant to the Regional Workshop on Forestry Strategic Planning in the Pacific 		12,900
	<ul style="list-style-type: none"> Supported strengthening of weak components of supply chains for five private sector exporters (including balsa, coffee, spices, virgin coconut oil and essential oils) 		277,500
	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipment and rapid test kits for avian influenza 		1,810
	<ul style="list-style-type: none"> In collaboration with PIFS and SPC aquatic fisheries conducted training in OIE terrestrial and aquatic animal disease reporting system for two participants 		13,290
	<ul style="list-style-type: none"> In collaboration with New Zealand's Aid Programme, the National Agriculture Quarantine and Inspection Authority and other line agencies and private sector provided resource materials and technical support to 2nd and 3rd batch of introductory paravet trainings 		2,500
	<ul style="list-style-type: none"> Supported attendance of one staff at the atoll agriculture conference in South Tarawa, Kiribati 		4,795
<ul style="list-style-type: none"> LRD plant health staff accompanied scientists from AQIAS (Australia) and NAQIA (PNG) in completing plant health survey on the Islands of Bougainville and Small Buka, North Solomons province of PNG. 			
<ul style="list-style-type: none"> Supported two participants to attend Regional Sandalwood Workshop, Vanuatu 		5,648	
Pitcairn Islands 	<ul style="list-style-type: none"> Provided technical assistance on general biosecurity and biosecurity banner 	y	2,500
	<ul style="list-style-type: none"> Introduced biological control agent for fruit fly pests from French Polynesia 	y	10,000

Samoa	JCS STILL IN DRAFT AND NOT YET ENDORSED BY THE COUNTRY		
	• Support for taro breeding programme (TIP) to extend TLB breeding programme to identify climate tolerant traits – supplies improved taro for regional collection		20,000
	• Support for coconut regeneration work; developing a conservation strategy for the unique Niu Afa		25,300
	• MSc student support		18,000
	• Crop distribution (Alocasia and banana) and G statistics workshop support		3,190
	• IPM of sustainable production system of Brassica crops		9,000
	• Review of pesticide act		5,000
	• Management of rhinoceros beetle – pheromone traps provided		1,500
	• Supported one participant at the Regional Workshop on MAR-SFM		2,535
	• Supported three participants at the Regional Workshop on Improving Governance and Building Capacities for Safe Movement of Tree Germplasm between Pacific Island States		7,040
	• Supported two participants at the Regional Workshop on Forestry Strategic Planning in the Pacific		4,710
	• Assisted with development of work plans for GEF-Pacific Invasive Species Project implementation in Nadi		1,225
	• Provide technical advice and support to strengthening of weak components of supply chains for private sector exporters (including producing chips from local crops)		60,550
	• Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza		1,810
	• In collaboration with PIFS and SPC aquatic fisheries conducted training in OIE terrestrial and aquatic animal disease reporting system for two participants from Vanuatu		5,600
	• Procured and supplied basic laboratory equipment		38,200
	• Conducted pilot animal disease surveillance training for 23 animal health and production staff in Samoa, three of whom were from Tokelau		28,050
	• Supported attendance of two participants at the atoll agriculture conference in South Tarawa, Kiribati	y	11600
	• Supported one staff member to attend the regional draft ISPM workshop in Nadi		3,000
	• Assistance on the biosecurity bill		5,500
	• Provided assistance on BIF		
	• Supported one participant to the Regional Sandalwood Workshop, Vanuatu		3,864
Solomon Islands	• Planning workshop for banana project – focus of which is to collect unique diversity in Solomon Islands and to promote nutritional benefits of banana diversity; a subcomponent will be identified for inclusion in CePaCT regional collection; Kastom Gaden Association (KGA) and KGA lead farmers – approximately 10 people	y	23,400
	• Support provided to collect and establish a yam collection	y	13,700
	• Plant protection post-entry quarantine facility established and supported	y	10,890
	• Biological control of weeds capacity building project to be funded by AusAID under Public Sector Linkages programme commenced in July	y	8,500
	• Facilitated memorandum of understanding to develop long-term quarantine surveillance between Solomon Islands Ministry of Agriculture and Livestock and Department of Agriculture, Fisheries and Forestry (DAFF) Australia; the memorandum is being prepared for signing	y	5,650
	• Survey of coconut pests in Temotu and Guadalcanal; provided technical assistance for management options; commenced surveys in PNG to benefit Solomon Islands and Vanuatu	y	5,500
	• Review of pesticide act	y	10,000
	• Supported one participant at the Regional Workshop on MAR-SFM	y	4,700
	• Supported one participant to the Regional Sandalwood Workshop, Vanuatu		4,411

	<ul style="list-style-type: none"> Supported two participants at the Regional Workshop on Improving Governance and Building Capacities for Safe Movement of Tree Germplasm Between Pacific Island States 	y	8,200
	<ul style="list-style-type: none"> Supported two participants at the Regional Workshop on Forestry Strategic Planning in the Pacific 	y	7,000
	<ul style="list-style-type: none"> Provided in-country training workshop on improving production standards and food safety standards for agricultural export produce 	y	22,000
	<ul style="list-style-type: none"> Supported strengthening of weak components of supply chains for four private sector exporters and associations (including timber, cocoa and indigenous nuts) 	y	30,700
	<ul style="list-style-type: none"> Assisted with marketing campaign to promote the health benefits of virgin coconut oil 	y	1,000
	<ul style="list-style-type: none"> Seed collections of priority timber and multipurpose nut trees 	y	3,000
	<ul style="list-style-type: none"> Support for government and private sector representatives to undertake timber marketing training/study tour in Australia 	y	15,000
	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza 	y	1,810
	<ul style="list-style-type: none"> In collaboration with PIFS and SPC fisheries, conducted training in OIE terrestrial and aquatic animal disease reporting system for two participants 	n	7,000
	<ul style="list-style-type: none"> In partnership with Rural Development Project (RDP), provided resource materials for paravet training 	y	10,000
	<ul style="list-style-type: none"> In partnership with RDP, provided resource materials and technical support to animal disease surveillance and disease recognition training 	y	10,000
	<ul style="list-style-type: none"> Small grant provided to Ministry of Agriculture 'Avian Influenza Capacity Building in Solomon Islands'-funded development of emergency response plans and standard operating procedures and public awareness for avian influenza (ongoing from 2008) 	y	51,000
	<ul style="list-style-type: none"> Supported the promotion of Mucuna as a green manuring crop in the provinces 	y	10,000
	<ul style="list-style-type: none"> Supported attendance of one staff member at the atoll agriculture conference in South Tarawa, Kiribati 	y	2,290
	<ul style="list-style-type: none"> Survey of Promecotheca parasitoid in Temotu and Honiara 	y	12,160
	<ul style="list-style-type: none"> Joint pest, disease and weed surveys with Australian Quarantine and Inspection Service (AQIS) and Solomon Islands Quarantine Service in Auki 	y	2,185
	<ul style="list-style-type: none"> Assistance on biosecurity bill 	y	10,000
	<ul style="list-style-type: none"> Provided desktop computer and software for biosecurity information facility 	y	3,200
	<ul style="list-style-type: none"> Supported one staff member to attend the regional draft ISPM workshop in Nadi 	y	3,980
	<ul style="list-style-type: none"> General biosecurity assistance on capacity strengthening proposal 	y	5,000
Tokelau	<ul style="list-style-type: none"> Crop distribution (breadfruit, cassava and yams) 		
	<ul style="list-style-type: none"> Management of spiralling white flies and mealy bugs; Samoa entomology technicians hired to undertake this 	y	10,800
	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza 		1,810
Tonga	<ul style="list-style-type: none"> ACIAR Tropical Fruit project: training provided in propagation methods; fruits of Tonga poster published; priority fruit factsheets provided; fruit germplasm provided 	y	80,900
	<ul style="list-style-type: none"> Supplied biological control agents for giant sensitive weed Mimosa on Vava'u 	y	8,800
	<ul style="list-style-type: none"> Advisory and visit on papaya plant diseases 	y	10,000
	<ul style="list-style-type: none"> Assisted with development of work plans for GEF-Pacific Invasive Species Project implementation in Nadi 		2,680
	<ul style="list-style-type: none"> Review of pesticide regulations under MEA Project 	n	10,000
	<ul style="list-style-type: none"> Supported one participant at the Regional Workshop on MAR-SFM 	y	2,470

Tonga (cont'd)	<ul style="list-style-type: none"> Supported three participants at the Regional Workshop on Improving Governance and Building Capacities for Safe Movement of Tree Germplasm Between Pacific Island States 	y	7,100
	<ul style="list-style-type: none"> Supported two participants at the Regional Workshop on Forestry Strategic Planning in the Pacific 	y	4,500
	<ul style="list-style-type: none"> In collaboration with SPC/GTZ ACCPIR, carried out training on GPS handling and data capture and on basic GIS functions for the Tonga Ministry of Agriculture and Forestry; this skill will be useful for the development of land use and forest management plans 	y	3,500
	<ul style="list-style-type: none"> Supported the consultation meeting on the Code of Conduct for the Sustainable Management of the Forest and Tree Resources of Tonga held in the islands of Tongatafu, Vava'u and 'Eua 	y	3,600
	<ul style="list-style-type: none"> With the support from SPC/GTZ ACCPIR, carried out training of trainers in 'Eua, Tonga on climate change issues, sustainable land management, and watershed management; 23 national participants attended 	y	3,500
	<ul style="list-style-type: none"> Support strengthening of weak components of supply chains for private sector agricultural exporting association (covering a wide range of fresh and processed agricultural produce) 	y	46,000
	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza 	y	1,810
	<ul style="list-style-type: none"> In collaboration with PIFS and SPC fisheries, conducted training in OIE terrestrial and aquatic animal disease reporting system for two participants 	n	6,600
	<ul style="list-style-type: none"> Provided small grant to Ministry of Agriculture for 'strengthening animal health laboratory capacity'; organised and funded procurement of animal health laboratory equipment and supplies (ongoing from 2008 with technical input in 2010) 	y	36,500
	<ul style="list-style-type: none"> In-country animal disease reporting training on WAHIS 		5,500
	<ul style="list-style-type: none"> Supported the promotion of Mucuna as a green manuring crop amongst commercial and subsistence farmers 	y	10,000
	<ul style="list-style-type: none"> Supported attendance of one staff at the atoll agriculture conference in South Tarawa, Kiribati 	y	3,190
	<ul style="list-style-type: none"> Assistance with preliminary risk analysis for market access for Tahitian lime, Polynesian plum and island cabbage to New Zealand 	n	5,500
	<ul style="list-style-type: none"> Supported one staff member to attend the regional draft ISPM workshop in Nadi 	y	3,190
	<ul style="list-style-type: none"> Supported two participants to the Regional Sandalwood Workshop, Vanuatu 		3,675
	<ul style="list-style-type: none"> Provided financial and technical assistance to Hango Agricultural College, Eua 		13,801
	<ul style="list-style-type: none"> LRD with the support of the SPC/GTZ ACCPIR, carried out training on GPS handling and data capture and on basic GIS functions for the Tonga Ministry of Agriculture and Forestry. These skills will be useful in the development of land use and forest management plans. 		
	<ul style="list-style-type: none"> LRD and SPC/GTZ ACCPIR supported a one-week awareness raising programme for the Tonga pilot site on 'Eua island which targeted about 400 islanders. 		
	<ul style="list-style-type: none"> LRD with the support of the SPC/GTZ ACCPIR, conducted training on forest inventory and monitoring for the Tonga Forestry Division and the Ministry of Environment and Climate Change. 		
	<ul style="list-style-type: none"> LRD is providing technical and financial support to the Division of Agriculture and Livestock, MELAD, Kiribati, to promote agroforestry practices in the outer islands of Kiribati, including hands-on training in plant propagation, supply of tools and planting materials and the establishment of agroforestry demonstration areas. 		
<ul style="list-style-type: none"> Under a memorandum of understanding (MOU) with SPC, the World Organisation for Animal Health (OIE) agreed to provide SPC member PICTs with access to the World Animal Health Information System (WAHIS) disease reporting system. 			
<ul style="list-style-type: none"> LRD and SPC/GTZ ACCPIR carried out training for trainers in Tonga on awareness-raising on climate change, sustainable land management, sustainable forestry management and land use planning. Thirty trainers representing women's association, youth groups, schools and local government agencies attended. 			

Tuvalu 	<ul style="list-style-type: none"> Swamp taro: assessing the salinity levels of pulaka pits; collecting swamp taro diversity and establishing as cultures in CePaCT swamp taro collection 	Y	10,900
	<ul style="list-style-type: none"> Management of coconut scale on Vaitupu and Nanumaga – redistribution of biological agent 	Y	4,290
	<ul style="list-style-type: none"> Support for one participant to attend the Regional Workshop on MAR-SFM 	Y	3,420
	<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza 	Y	1,810
	<ul style="list-style-type: none"> Technical support for National Adaptation Programme of Action (NAPA) project in Tuvalu 	Y	3,000
	<ul style="list-style-type: none"> Supported attendance of the director of Agriculture and the Minister at the Atoll Agriculture Conference in Tarawa, Kiribati 	Y	7,000
	<ul style="list-style-type: none"> Assistance with the Rotuma-Tuvalu trade facilitation and pest risk analysis for market access for taro, sweet potatoes and cassava 	Y	9,000
	<ul style="list-style-type: none"> Supported one staff member to attend the regional draft ISPM workshop in Nadi 	Y	3,190
	<ul style="list-style-type: none"> Assistance on biosecurity bill 	y	5,000
	<ul style="list-style-type: none"> Provided assistance on BIF 	y	5,000
Vanuatu 	Vanuatu JCS not yet finalised, mission undertaken in May 2010		
<ul style="list-style-type: none"> Support for banana collecting – focus is to collect and document unique diversity in Vanuatu; a subcomponent will be identified for inclusion in CePaCT regional collection 		3,100	
<ul style="list-style-type: none"> Support for collecting of bele (island cabbage) – focus is to collect and document unique diversity in Vanuatu and Yam Festival 		9,900	
<ul style="list-style-type: none"> Survey for and confirmation of heliconia rust disease presence; provided advice for control 		1,000	
<ul style="list-style-type: none"> Little fire ant Control on Efate and Santo 		4,600	
<ul style="list-style-type: none"> Successful biological control of waterweeds on Efate, Malekula and Espirito Santo 		2,000	
<ul style="list-style-type: none"> Review of pesticide regulations under MEA project 		8,550	
<ul style="list-style-type: none"> Supported two participants at the Regional Workshop on MAR-SFM 		5,200	
<ul style="list-style-type: none"> Support national and provincial consultation meetings on the revision of the National Forest Policy 		17,550	
<ul style="list-style-type: none"> Support three participants at the Regional Workshop on Improving Governance and Building Capacities for Safe Movement of Tree Germplasm Between Pacific Island States 		7,020	
<ul style="list-style-type: none"> Support two participants to the Regional Workshop on Forestry Strategic Planning in the Pacific 		7,455	
<ul style="list-style-type: none"> Support to strengthen weak components of supply chains for one private sector exporter (for several processed agricultural products) 		73,500	
<ul style="list-style-type: none"> Support for assessment of whitewood trials on Santo 		2,500	
<ul style="list-style-type: none"> Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza 		1,810	
<ul style="list-style-type: none"> Conducted pilot animal disease surveillance training – 16 participants, including two women 		23,100	
<ul style="list-style-type: none"> In collaboration with PIFS and SPC fisheries, conducted training in OIE terrestrial and aquatic animal disease reporting system for two participants from Vanuatu 		5,800	
<ul style="list-style-type: none"> In-country animal disease reporting training on WAHIS 		5,000	
<ul style="list-style-type: none"> Supported the promotion of Mucuna as a green manuring crop amongst farmers on both Santo and Efate 		5,000	
<ul style="list-style-type: none"> As a member of the organising committee, supported the Regional Food Summit held in Vila [100 attendees] 		5,300	
<ul style="list-style-type: none"> Assistance with preliminary risk analysis for market access for Tahitian lime, Polynesian plum and island cabbage to New Zealand 		3,300	
<ul style="list-style-type: none"> Supported one staff member to attend the regional draft ISPM workshop in Nadi 		3,300	

Vanuatu cont'd)	Assistance provided on preparing a biosecurity bill		5,500
	Provided assistance on BIF		5,000
	Supported one participant to the Regional Sandalwood Workshop		1,875
	LRD, through SPC/GTZ ACCPIR, supported the drafting of the Vanuatu National Forest Policy.		
	LRD, though SPC/GTZ ACCPIR, supported officers from Vanuatu's Department of Environment and Conservation and State Law Office to mainstream climate change issues into the Environmental Management and Conservation Act which will be submitted to parliament at its next sitting.		
	LRD through SPC/GTZ ACCPIR, conducted awareness sessions for local communities and government organisations. Work has also begun with the Vanuatu Curriculum Development Unit of the Ministry of Education to integrate climate change in the school curriculum and awareness sessions were conducted in the Ministry, teacher training institutions and schools.		
	In Vanuatu, LRD and SPC/GTZ ACCPIR supported a two-day workshop on Pele Island on forest nursery design, woodlot management, and climate change adaptation. Additionally, a two-day workshop for farmers was also carried out on breeding and caring for climate-resistant pigs and chickens.		
	LRD with the support of the ACCPIR and in collaboration with SOPAC, supported a one-week workshop in GIS and computer-based planning for 30 Vanuatu participants from relevant government departments. The training focused on the use of GPS, MapInfo software and general GIS and remote sensing techniques.		
Wallis and Futuna 	Training of staff member in tissue culture techniques – one trainee spent one week at CePaCT	y	4,200
	Banana, breadfruit, cassava, taro, sweet potato and yams distributed	y	15,000
	Management of rhinoceros beetle using pheromone traps and Orytes virus	y	5,500
	Discussion and proposal development for weed biological control projects; funding under French Pacific Fund has not been approved	n	2,500
	Procured and supplied animal disease investigation equipments and rapid test kits for avian influenza	y	1,810
	Provided small grant for 'laboratory equipment to develop capacities in avian influenza diagnosis'; organised and funded procurement of animal health laboratory equipment	y	38,200

LRD – PUBLICATIONS BY THEMATIC TEAMS



Forests and Trees team	
Forest and Agriculture Diversification team	Industry survey to identify legislative constraint and opportunities to facilitate improvement of export trade in Agricultural and Forestry products from Pacific Islands.
Plant Health team	<p>Posters/brochures/pest advisory leaflets/pest alerts</p> <ul style="list-style-type: none"> • Revival of Tigaso Tree Oil in Lake Kutubu, Papua New Guinea • <i>Mimosa diplotricha</i> in Tonga • Pest Alert on COQUI FROG for Guam and the wider FSM territory • Poster on <i>Mikania</i> biocontrol in English • Brochures on biocontrol of <i>Mikania</i> in Fijian and Tok Pisin (PNG) and revised English version) <p>Technical publications/reviews/books</p> <ul style="list-style-type: none"> • Davis, R.I. and Ruabete, T. 2010. Records of Plant Pathogenic Viruses and Virus-Like Agents from 22 Pacific Island Countries and Territories : A review and an update. <i>Australasian Plant Pathology</i>, 39: 265-291. • Jackson, T, Lal, S.N., Prasad, S., Monk, J. and Marshall, S. (2010)-Operational Manual-Biological Control of Rhinoceros Beetle in the Pacific.
Crop Production team	<ul style="list-style-type: none"> • Agriculture Strategic Action Plan, Pohnpei State, Federated States of Micronesia
Genetic Resources team	<ul style="list-style-type: none"> • Proceedings from Crops for the Future meeting, September 2009 (printed and published by APAARI) • Priority Fruit Factsheets for Tonga (ACIAR project) • Fruits of Tonga poster (ACIAR project) • International Year of Biodiversity poster • Climate Ready collection poster • Breadfruit of Vanuatu • Regular articles for LRD Newsletter • Pacific Island Countries and Territories; Chapter in Plant Genetic Resources and Food Security - Stakeholders' Perspectives on the International Treaty on Plant Genetic Resources for Food and Agriculture (In Press)
Land Management and Resources Policy team	<ul style="list-style-type: none"> • Developing a Policy framework for Extension system – SPC Policy Brief • Pacific Agriculture and Forestry Policy Network (PAFPNet) Strategic Plan 2010-2012 • Youth in Agriculture Strategy 2011-2015 • Our Future Farmers awareness – DVD

Information, Communication and Extension team	<ul style="list-style-type: none"> • LRD News Vol. 1, Vol. 2 and Vol 3 2010 • 60 farmer pest management leaflets under IPPSII project – Solomon Islands • National Extension Summit Report – Solomon Islands • Reprint island recipe booklet – Solomon Islands • Fruit salad tree brochure (ACIAR fruit tree project) – Tonga • Five leaflet (ACIAR cabbage IBM project) – Tonga • Tonga MAFFF Digital Photo Database • Tonga MAFFF Vegetable factsheets • Taro export launch awareness material – Samoa • 10 crop production leaflets – Samoa • Agriculture Strategic Action Plan 2011–2015 – FSM • Termite awareness materials – Fiji • African tulip awareness poster – Fiji • Invasive <i>Clerodendrum</i> poster – Fiji • Fiji Ag show (printing of Ag show materials) – Fiji • Assisted in designing the new BAFI logo – Fiji • LRD 2011 Calendar
Animal Health and Production team	<ul style="list-style-type: none"> • Pig shed designs • Sheep and goat shed designs • Animal Disease Surveillance and Diagnostic Training for Pacific Island Countries and Territories, Pilot project, 2010. A Training Manual in Basic Epidemiology, Survey Planning, Disease Recognition, Disease Investigation and Collection, Handling and Transportation of Samples for Laboratory Diagnosis • The Paravet training manual for the Pacific Islands: Introductory course • Meat Hygiene and Food Safety Manual for the Pacific Islands • Meat Hygiene and Food Safety Workbook, Introduction and Assignment Student Workbook for the Pacific Islands • Animal Disease Surveillance and Diagnostic Training for Pacific Island Countries and Territories Animal Disease Surveillance and Diagnostic Training for Pacific Island Countries and Territories Trainer's Guide, 2010 <p>Leaflets/brochures</p> <ul style="list-style-type: none"> • Paravet Brochure, revised English Version • Animal Health and Production Leaflet, revised English Version • Water Data Poster • Animal Genetics Poster • Composting Piggery Poster (Versions: English, Fijian)
Biosecurity and Trade Facilitation team	<p>Awareness Materials</p> <ul style="list-style-type: none"> • Cocoa Pod Borer, Solomon Islands • Coffee Berry Borer, Papua New Guinea • Termite (Fiji) awareness
SPC/GTZ Climate Change	<ul style="list-style-type: none"> • Mainstreaming processes for climate change adaptation – collection of best practices • Adaptation to and mitigation of climate change in the agriculture and forestry sector – collection of best practices • Sustainable Land Management – a climate coping mechanism in the Pacific Islands (poster) • Climate change and agriculture (brochure)

LRD MAIN SECTORAL MEETINGS AND WORKSHOPS, 2010

PNG 'Seeds for Needs Meeting'

Inception meeting for new project that aims to source from within PNG, and possibly outside, staple food crop varieties that are adapted to different climate regimes.

Centre for Excellence in Atoll Agriculture workshop in Kiribati, 26–30 April 2010

SPC LRD in conjunction with the International Fund for Agricultural Development (IFAD), Food and Agricultural Organization of the United Nations and the Ministry of Environment, Land and Agricultural Development (MELAD), held an atoll conference in South Tarawa, Kiribati to share results of works done at the Regional Centre of Excellence for Atoll Agricultural Research and Development established in South Tarawa as a response to the recommendations by the Heads of Agriculture and Forestry Services (HOAFS) in 2006 to establish a centre. The two-year first phase of the centre is coming to an end soon and there is a need to also discuss and plan the future direction of the centre.

FSM National Environment Impact Assessment Training & MEA Mainstreaming into EIA Workshop, Kosrae, 15–19 March 2010

Successfully mainstreamed the Sustainable Land Management Principles (SLM) into the FSM Environment Impact Assessment (EIA) Act.

FSM National Food Summit, Pohnpei, 29–31 March 2010

Participated as the team leader for the Research Working Group and contributed to the formulation of the FSM Food Security Policy.

College of Micronesia (COM) Agriculture Summer Program, 14–18 June 2010

Titled, 'Agriculture is more than farming' – over 100 high school students were sensitised regarding farming and seeking careers in agriculture. Presented the LRD work in the region and a case study of DSAP FSM impact stories.

Biosecurity Training Workshops on Import Risk Assessments for Micronesian countries at University of Guam, 29 March–2 April 2010

LRD Biosecurity and Plant Health teams together with USDA APHIS and University of Guam delivered training workshops to help increase understanding and capacity in pest risk analyses, border controls, detection, surveillance, diagnosis steps and procedures, containment and management. Participants came from all Micronesian countries and included customs, police and quarantine personnel.

Biosecurity Training in Tarawa, Kiribati

LRD Biosecurity and Plant Health teams delivered training to quarantine personnel to help increase understanding and capacity in pest risk analyses, border controls, detection, surveillance, diagnosis steps and procedures, containment and management. It was attended by quarantine officers from Tuvalu, Nauru and Kiribati.

Helping Islands Adapt: Global Invasive Species Workshop, Auckland New Zealand, 12–16 April 2010

SPC attended the global workshop as part of the Pacific delegation to help chart a way forward for helping small island developing states in the Pacific as well as other regions of the world cope with invasive species issues in the face of climate change. The Pacific regional collaborative actions are more advanced than other regions.

Invasive Ant Management Workshop, Darwin, Australia, 27–29 April 2010

Two LRD staff members participated at the Invasive Ant workshop in Darwin under the auspices of the Pacific Ant Prevention Programme. LRD also supported the participation of a Plant Protection officer from Vanuatu and PNG.

Subregional SPC-USDA APHIS Workshop on Quarantine and Plant Protection Training, University of Guam, 6–10 April 2010

The course has been an annual event for the past seven years. Trainings are focused on quarantine, aircraft passenger, air cargo and garbage control, US permit requirements, weeds and weed management in the Pacific, entomology, plant pathology, importation of animal products, food safety inspection service, smuggling interdiction, import risk assessment, timber inspection, etc. The course is designed to increase the knowledge and improve the skills of Bio-security Officers in the countries serving at the entry ports of their own countries. SPC provided funded the participation of quarantine officers from Palau (2), Marshall Islands (2) and FSM (4). USDA APHIS funded the participation of quarantine officers from Guam and CNMI.

National Food Safety and Food Processing Workshops in Marshall Islands, FSM (Kosrae State, Pohnpei State) and Palau, May 31–June 25 2010

The training was conducted for small business owners and potential business owners on two major subjects: a) compliance with international food standards and practices, and b) development of existing and potential products for trade. The workshops identified potential export commodities as listed: a) production of pandanus products e.g. juice and baby food (RMI); b) production of taro and breadfruit flour and export of green bananas to Guam (Kosrae State, FSM); c) production of breadfruit chips and 'organic' black pepper (Pohnpei State, FSM); and d) production of taro and cassava flour (Palau).

Pacific Regional Influenza Pandemic Preparedness Project (PRIPPP) Evaluation Training with Fiji Ministry of Primary Industries, Fiji, January 2010

Brief and conduct evaluation of Pacific Regional Influenza Pandemic Preparedness Project for Fiji's Animal Health Sector.

PRIPPP (Independent completion report) Evaluation meeting, Fiji, March 2010

Independent completion report by AusAID consultants on the PRIPPP project.

Pacific Regional Influenza Pandemic Preparedness Project (PRIPPP) International Air Transport Association (IATA) training in Wellington, New Zealand, March 2010

The Training for Animal Health Lab Technicians in Wallaceville Lab in Wellington was part of the continuous effort to strengthen diagnostic capacity in line with the Strategic Plan for Animal Disease Diagnostic Capacity Building in the Pacific Region.

WHO/SPC/PRIPPP meeting and training, Auckland, New Zealand, March 2010

This training was designed to address influenza testing issues and epidemiological aspects of testing with the aim of strengthening lab-based surveillance of influenza in countries and the role of the laboratory in influenza sentinel surveillance in general. The training supported the Phase 2 goals of PRIPPP and the overall long-term goals of the Pacific Public Health Surveillance Network (PPHSN).

Paravet Final Assessment and Refresher training in Kiribati, April 2010

Conducted the final tutorial (refresher) and examinations for requirement for the completion of the 16-week introductory Paravet Training programme in Kiribati.

Paravet Training in Niue, April–May 2010

Conducted the final tutorial (refresher) and examinations for requirement for the completion of the 16-week introductory Paravet Training programme in Niue.

Pacific Avian and Pandemic Influenza Taskforce Meeting (PAPITaF), Nadi, Fiji, May 2010

The PAPITaF meeting was organised under the umbrella of PPHSN and the Pacific Heads of Veterinary & Animal Production Services (PHOVAPS). It was a major regional forum to discuss the management and response by PICTs to possible outbreaks of avian influenza, pandemic influenza or other emerging diseases.

Regional Terrestrial and Aquatic Animal Disease Reporting Training, Suva, Fiji, May-June 2010

This regional workshop was to train appropriate fisheries, quarantine and animal health staff in the use of the WAHIS system and animal health reporting procedures. The focus of the work shop was to ensure countries currently exporting aquatic ornamentals are able to comply with OIE reporting procedures. However the training in the WAHIS system was to also strengthen their ability to demonstrate the health status in regard to other potential aquatic and livestock export products.

Animal health disease and surveillance training, Samoa, July 2010

Conducted the Animal Disease Surveillance and Field Diagnostic Training as part of PRIPPP's goal to develop early warning animal disease surveillance capacity for Samoa.

Animal health disease and surveillance training, Vanuatu, August 2010

Conducted the Animal Disease Surveillance and Field Diagnostic Training as part of PRIPPP's goal to develop early warning animal disease surveillance capacity for Vanuatu.

Pacific Youth in Agriculture Strategy Consultation, Suva, Fiji, 8 July 2010

A half-day workshop aimed to review the draft Youth in Agriculture Strategy.

Regional Workshop on FAO Data Collection, Processing and Dissemination System of Food and Agriculture Statistics, Nadi, 24-28 May 2010

SPC, in collaboration with FAO, held a workshop that aimed on improving the availability and the quality of food and agriculture statistics in the Pacific region. The workshop was attended by statistical officers from 14 Pacific Island countries, FAO and SPC's Statistics and Demography Programme.



Regional Workshop on Monitoring, Assessment and Reporting for Sustainable Forest Management (MAR-SFM), Nadi, 25-29 January 2010

The workshop aimed to demonstrate and discuss selected and tested methodologies for monitoring, assessment and reporting of the agreed MAR criteria; and to discuss and identify country constraints to the use of the above MAR methodologies in terms of human, technical and financial resources and to develop specific support strategies to effectively respond to some of the identified constraints. The regional workshop was organised by the Forests and Trees and Forestry and Agriculture Diversification Group in partnership with FAO. It was attended by delegates from FSM, Fiji, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu.

Regional Workshop on Improving Governance and Building Capacities for Safe Movement of Tree Germplasm between Pacific Island States, Nadi, 15-19 March 2010

The workshop aimed to identify, review and assess all relevant issues, risks and constraints which impede the efficient and safe movement of wild and improved tree germplasm between the countries in the region and build the capacities among relevant government officers in pest risk analysis and to facilitate effective linkages between the biosecurity and forestry services. The workshop was organised by the Forests and Trees Programme in partnership with the Australian Tree Seed Centre, Plant Industry Division of CSIRO with funding from AusAID. This workshop was one of the first in which officials from both forestry and quarantine agencies have been able to collaborate in person to discuss safe and efficient methods of exchanging tree germplasm among PICTs. There were six delegates from forestry agencies and 14 from quarantine agencies from eight SPC member countries (Fiji, Kiribati, Nauru, PNG, Samoa, Solomon Islands, Tonga and Vanuatu).



Centre for Excellence in Atoll Agriculture workshop group photo in Kiribati, 26–30 April 2010

Workshop on Strategic Planning in Pacific Forestry, Nadi, 21–23 April 2010

The workshop aimed to advance strategic planning in Pacific forestry on the basis of forestry outlook studies completed under the Asia-Pacific Forestry Outlook Study 2020 and to produce related policy briefs and recommendations for each country. The workshop was organised by the Forests and Trees Programme in partnership with FAO, the National Forest Programme Facility (NFPP) and GTZ. It was attended by delegates from Fiji, Kiribati, PNG, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu.

Solomon Islands Senior Agriculture Extension Staff Conference, April 2010

LRD supported the Solomon Islands Senior Agriculture Extension Staff Conference, themed 'Improving Rural Livelihoods through Integrated Agriculture Sectors approaches' as a follow-up to the Pacific Extension Summits.

POETCOM Meeting, Apia, May 2010

LRD facilitated and supported three meetings of the Pacific Organic and Ethical Trade Community (POETCOM). These meetings aimed to obtain in-country progress reports and complete the requirements of the current IFAD-funded project on developing the Pacific Organic Standard and the regional strategic plan. An important agenda item for the three meetings was the discussion the sustainability issue of POETCOM and the development of new projects for consideration by various donors.

Role of Media in Agriculture Development, Nadi, Fiji, May 2010

Under the leadership of regional media centre of SPC, LRD supported the CTA-funded Regional Seminar of the Role of the Media in Agriculture and Rural Development. The seminar brought together high level media expert from the region and discussed how the media could highlight agriculture and rural development work in the region.

1st Roundtable Subregional Meeting of Pesticide Regulation Component, Nadi, 11–12 September 2010

SPC's LRD together with the FAO Pesticide Legal Fraternity held this meeting to finalise pesticide regulation issues identified by National Legal Consultants (NLC) which would be scrutinised under the guidance of the FAO legal personnel. The outcome of this meeting would lead to a presentation to the HOAFS meeting for endorsement on paramount issues of concern to the region regarding pesticide regulations and the necessary amendment requirement.

FAO Sub-regional (Fiji, Samoa, Solomon Islands, Tonga & Vanuatu) MEA workshop, Nadi, 12th – 13th September 2010

Initial review of Pesticide Risk Reduction Management Project, examining pesticide alternatives, and developing a communications strategy.

EU-FACT Project Steering Committee (PSC) Meeting, Nadi, 13 September 2010

An annual EU-FACT meeting to update stakeholders from the region of FACT's project activities and at the same time present to them future proposed projects to see if they are line with national, state and regional policies. FACT also sought support from PSC members on its work programme in the region.

4th Regional Meeting of Heads of Agriculture and Forestry Services (HOAFS), Nadi, Fiji, 14–17 September 2010

The goal of the meeting was to report on the status of recommendations from the 3rd HOAFS in 2008, report on progress against the three objectives of the integrated LRD Strategic Plan 2009–2012 and outline new and ongoing initiatives.



Asia-Pacific Banana Network Meeting, Vietnam (early November 2010)

Presentation on banana strategy.

Regional Workshop on Sandalwood Development, Research, and Trade in the Pacific and Asian Region, Port Vila, Vanuatu, 22–25 November 2010

Sandalwood has the potential to contribute to the improvement of living standards in Pacific Island countries and territories (PICTs). However, there must be critical assessment, research and improved management practices. Sandalwood is an important tree crop that has supported the people of the Pacific for many years.

Thirty-eight participants from 12 countries attended the workshop, which was organised by SPC with the support of the European Union-funded Facilitating Agricultural Commodity Trade (FACT) project, German Technical Cooperation (GTZ), Asia Pacific Association of Forestry Research Institutions (APAFRI), James Cook University (JCU) and Vanuatu's Department of Forests.

Fiji REDD workshop, 25 – 26 November, Suva, Fiji.

Fiji is aiming to be REDD (Reducing Emissions from Deforestation and forest Degradation)-ready by 2012 with the recent drafting of the national REDD-plus strategy and action plan. The planning workshop allowed various stakeholders and agencies to draft the REDD-plus strategy that will act as a guide for the next two years' planned activities.

12th Meeting of Pacific Plant Protection Organisation Executive Committee (PPPO ExCo), Auckland, 08-10 December 2010

LRD Biosecurity and Trade Facilitation thematic team is the Secretariat for PPPO ExCo, and the meeting was held to update members on sanitary and phytosanitary developments relating to international trade.

Plant Genetic Resources Workshop, 7–10 December, Suva, Fiji.

The International Year of Biodiversity, celebrating our rich heritage on the land, and in the sea, is coming to an end, and it is fitting that FAO and SPC collaborated to hold the first ever Regional Consultation for the Strengthening, Conservation and Sustainable Use of Plant Genetic Resources for Food and Agriculture in Pacific Island countries. Through Australian government funding, 27 participants from 14 countries attended the meeting.

8th Pacific Organic and Ethical Trade Committee (POETCom) meeting, 13–15 December, Nadi, Fiji.

The aim of the meeting was to look at developing a robust governance mechanism for organics in the region to carry the movement forward in to the future. The meeting was organised by SPC Land Resources Division with assistance provided by the Food and Agriculture Organization (FAO).

PROGRESS AGAINST THE LRD STRATEGIC PLAN FOR 2009–2012

Objective 1: Improved Food and Nutritional Security (IFNS)

Outputs	2010 activities	Status
Output 1.1 Policy development to support the production, consumption and utilisation of locally grown food sources.	<ul style="list-style-type: none"> Active member of the Pacific Food Summit Working Group. 	Ongoing
	<ul style="list-style-type: none"> Fully engaged in development of the Framework of Action on Food Security in the Pacific. 	Completed
	<ul style="list-style-type: none"> Implementation of the Pacific Food Summit and support to the National Food Summits in American Samoa, Cook Islands, Federated States of Micronesia, Fiji Islands, Kiribati, Samoa, and Vanuatu. 	Completed
	<ul style="list-style-type: none"> Supported the establishment of the FAO Food Security and Sustainable Livelihood Programme (FSSLP) which is due to commence activities from early 2011. 	Ongoing
Output 1.2 Conservation, development, promotion and utilisation of agrobiodiversity	<ul style="list-style-type: none"> The Pacific's regional genebank, CePaCT moved to a new location at Narere, Fiji. 	Completed
	<ul style="list-style-type: none"> Worked with the countries and secretariat of the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA). 	Ongoing
	<ul style="list-style-type: none"> Establish an agreement with the treaty secretariat to place the <i>ex situ</i> collections of the region, held in trust by CePaCT, into the Multilateral System of the treaty. 	Completed
	<ul style="list-style-type: none"> Developed a project proposal for long-term funding from the Global Crop Diversity Trust for the region's collections held by CePaCT, in particular, the taro and yam collections. 	Completed
	<ul style="list-style-type: none"> CePaCT has distributed 14,099 plants to 19 countries. The crops/species distributed include taro, sweet potato, yam, banana, breadfruit, <i>Alocasia</i>, <i>Xanthosoma</i>, swamp taro, cassava, potato and vanilla. 	Completed
	<ul style="list-style-type: none"> The 'climate-ready' collection is being distributed and evaluated by country partners, facilitated by the Pacific Plant Genetic Resources Network (PAPGREN) focal points. 	Ongoing
	<ul style="list-style-type: none"> To date 14 countries have received accessions from the 'climate-ready' collection. 	Completed
	<ul style="list-style-type: none"> Establishment of breadfruit collections in Fiji Islands, French Polynesia and Vanuatu. Over 200 accessions have been collected and assembled. 	Completed
	<ul style="list-style-type: none"> Support for collecting and documenting pandanus from a number of selected countries to provide countries with guidelines to help identify varieties. 	Completed
	<ul style="list-style-type: none"> Conducted a study in collaboration with FAO on seed access and availability in Fiji Islands, Kiribati, Tonga and Vanuatu to improve seed production. 	Completed
	<ul style="list-style-type: none"> Signed memorandum of understanding with the World Vegetable Centre (AVRDC) to facilitate access to seeds, particularly the open-pollinated varieties. 	Completed
	<ul style="list-style-type: none"> A regional workshop on Sandalwood (<i>Santalum spp.</i>) was organised and held in Port Vila to facilitate the exchange of information on sandalwood resource development, research and trade; strengthen and explore opportunities for future collaboration; and develop recommendations for future direction to ensure sustainability of sandalwood as a vital economic resource in the Pacific region. The workshop was attended by 45 participants from the Pacific and Asian region, including China. 	



<p>Output 1.3 Promotion of diverse food supply systems</p>	<ul style="list-style-type: none"> • Pacific Crops for the Future meeting, in collaboration with Crops for the Future (formerly ICUC), NARI, Asia-Pacific Association of Agricultural Research Institutions (APAARI) and Bioversity International. • In collaboration with the health sector in some countries, worked to improve the availability of fruits and vegetables, for example with the Ma'a Lahi Project in Tonga and Diabetes Wellness in RMI. 	<p>Completed Ongoing</p>
<p>Output 1.4 Preservation, enhancement, utilisation and acknowledgement of traditional knowledge</p>	<ul style="list-style-type: none"> • Centre of Excellence for Atoll Agriculture Research and Development, is documenting sustainable food production systems, food preservation and utilisation methods for atolls. • In collaboration with NARI and the University of PNG, undertook research project aimed at reviving the tigaso tree oil tapped from the rainforest trees of the genus <i>Camposperma</i> spp in Lake Kutubu region, PNG. The oil is being analysed for possible commercial use at UPNG and field trials are ongoing for its potential as an organic pesticide. 	<p>Ongoing Ongoing</p>

Objective 2 : Integrated & Sustainable Agriculture and Forestry Resources Management and Development (ISAFRMD)

Ouput2	Activities	Status
Output 2.1 Support and development of sustainable forestry, agriculture and land use plans, policies and legislation	<ul style="list-style-type: none"> Assisted Vanuatu in the formulation of its draft forest policy through the SPC/GTZ Programme on Adaptation to Climate Change in the Pacific Island Region (ACCPIR) and consultation in progress. 	Ongoing.
	<ul style="list-style-type: none"> Organised a forestry strategic planning workshop for the Pacific. 	Completed
	<ul style="list-style-type: none"> Assisted Fiji in the formulation of its draft forest legislation through the SPC/GTZ ACCPIR project. 	Ongoing
	<ul style="list-style-type: none"> Monitor and fine tune the development of PICTs' Animal Health Emergency Response Plans (AHERPs) against the Pacific Preparedness Checklist, including the updating SPC's AHERP Checklist Database for all PICTs. 	Ongoing
	<ul style="list-style-type: none"> Consultation with OIE and FAO on possible future GFTADs programme for the region including SPC participation at the 4th Regional Steering Committee meeting for GFTADs for Asia and the Pacific, in Bangkok, 1–2 July 2010. 	Completed
	<ul style="list-style-type: none"> Participated at the 3rd International Ministerial Conference on Avian and Pandemic Influenza (IMCAPI), in Hanoi, Vietnam, 19–24 April 2010. 	Completed
	<ul style="list-style-type: none"> Facilitated the development of the strategic plan for Pohnpei State, Kiribati, and Niue and supported Tokelau's development of its national sustainable development strategy in the agricultural sector. 	Ongoing
	<ul style="list-style-type: none"> Assisted in the development of the Pacific Regional Assessment for the FAO Voluntary Guidelines on the Responsible Governance of Tenure of Land and other Natural Resources, in collaboration with FAO and USP. 	Ongoing
	<ul style="list-style-type: none"> Redeveloped the Pacific Regional Land Project proposal for the implementation of the Land Management and Conflict Minimisation initiative, in collaboration with SPC Human Development Programme, USP and AusAID Pacific Land Program. 	Ongoing
	<ul style="list-style-type: none"> Provided technical support and advice to Pacific Island countries during the 9th United Nations Convention to Combat Desertification (UNCCD) Conference of the Parties held in Buenos Aires, Argentina in September 2009. 	Completed
	<ul style="list-style-type: none"> Carried out monitoring and evaluation and provided a report on the UNCCD Venezuela-funded Sustainable Land Management project for Niue. 	Completed
	<ul style="list-style-type: none"> Assisted in the development of the new digital soil mapping of the world, with the Pacific included in the Oceania Node. This was a joint collaboration with Landcare Research New Zealand and CSIRO Australia. 	Completed
	<ul style="list-style-type: none"> Developed a Youth in Agriculture Strategy and Action Plan. Consultations were conducted in Fiji, Kiribati and Tonga. The Youth in Agriculture Strategy was launched on the 4th HOAFS Meeting in September 2010. 	Completed

<p>Output 2.2</p> <p>Development and promotion of sustainable and appropriate forest, agriculture and land use management practices</p>	<ul style="list-style-type: none"> Carried out training on GPS handling and data capture and on basic GIS functions for the Tonga Ministry of Agriculture and Forestry. These skills will be useful for the development of land use and forest management plans. 	Completed
	<ul style="list-style-type: none"> Carried out training on forest inventory and monitoring. Permanent sample plots were established in 'Eua for monitoring of forest dynamics. 	Completed
	<ul style="list-style-type: none"> Assisted Tonga in the formulation of a Code of Forestry for 'Eua. This has been followed by a National Code for Forestry which has been formulated and is awaiting endorsement by the Government of Tonga. The national code is a requirement under the country's new forest policy. 	Ongoing
	<ul style="list-style-type: none"> Organised a two-week training course on FSM atoll vegetation survey and forest inventory methodology. The design and field survey was intended for the 10 atolls of FSM from Pohnpei, Chuuk and Yap States. The purpose of the training was to train the state peer trainers on FSM atoll vegetation survey and forest inventory methodology, carry out field testing of proposed designs, and select the most appropriate methodology. 	Completed
	<ul style="list-style-type: none"> Organised a training workshop on the harmonised design for MAR-SFM for 19 participants from 12 PICTs. An important component of SFM is having up-to-date and accurate information about forests and forestry. 	Completed
	<ul style="list-style-type: none"> Provided support for a two-week training course on sustainable forest management and forest certification for community based forest enterprises (Village Eco-Timber Enterprises, Value Added Timber Association), NGOs and government representatives in Honiara, Solomon Islands. 	Completed
	<ul style="list-style-type: none"> Assisted in conducting a vegetation survey for 14 atolls in the states of Pohnpei, Chuuk and Yap. This was a response to the request for assistance from FSM to collect baseline data for their reporting to UNFCCC. 	Completed
	<ul style="list-style-type: none"> Implemented a project with the objective of assisting PICTs to overcome hurdles impeding the efficient and safe movement of tree germplasm within the Pacific. This was a joint collaboration with CSIRO with funding from AusAID. In addition to country visits and meetings, a regional workshop on improving governance and building the capacity for safe movement of tree germplasm between countries was also organised. 	Completed
	<ul style="list-style-type: none"> Continued support to Nauru, through the Nauru Rehabilitation Corporation (NRC), to build capacity for the rehabilitation of phosphate-mined areas, an activity identified for SPC support under the SPC/Nauru JCS. The support provided was through sponsorship for the CEO for NRC to undertake a one-week study tour of rehabilitation work of nickel-mined areas in New Caledonia. 	Completed
	<ul style="list-style-type: none"> Conducting atoll agricultural research and development work at the Centre of Excellence for Atoll Agricultural Research and Development in Tarawa, Kiribati, with funding from IFAD. Areas of work include atoll soil management, water management, cultivar evaluation, and improved resilience of food production systems to climate change. An atoll conference was held on Tarawa in April 2010 to discuss the results of the work being undertaken at the Centre of Excellence for Atoll Agricultural Research and in atoll countries, and to map out the future direction of the centre. The areas identified by the conference for the centre to address in its future plan included: i) research, ii) development, iii) trade, iv) partnership, and v) capacity building. 	Ongoing

	<ul style="list-style-type: none"> • Supporting soil improvement programmes in PICTs. In Tonga, Niue, Cook Islands, Solomon and Fiji Islands, the use of <i>Mucuna pruriens</i> has been promoted, with the objective of replacing inorganic fertiliser. In Taveuni (Fiji), soil test interpretation training was conducted in May 2010 for Agricultural Department staff and farmers. The aim was to be able to calculate more precisely the amount of fertiliser to apply to taro based on soil test results. • Implementing the Pacific Agribusiness Research and Development Initiative (PARDI) with the main objective of improving competitiveness and market access for agricultural products. The initiative is to contribute to PICTs' economic growth and benefit smallholder farmers and traders. It will also utilise the knowledge generated by previous ACIAR and other regional projects and will link with programmes such as Facilitating Agricultural Commodity Trade (FACT). PARDI is designed to complement PHAMA. The project has initial funding of AUD 12 million. It will focus on six countries: Solomon Islands, Fiji Islands, Samoa, Vanuatu, Tonga and Kiribati. The initiative will address production and supply-chain constraints associated with fresh and processed horticultural, fisheries and forestry products. It is a joint collaboration with ACIAR, USP and several Australian Universities. • Continued development and fine tuning of standard operating procedures relevant to PICTs' AHERPs. These are available online for adaptation by PICTs. • Institutionalisation of the LRD Paravet Training programme is being pursued with encouraging results, with Vudal University in PNG, Solomon Island School for Higher Education in the Solomon Islands and the Fiji National University in Fiji Islands. • Continuing to develop its paravet training curriculum with the translation of the introductory paravet module into French (electronic version) and making this available online (Moodle) and the continued improvements to the design and implementation of its distance learning tools. • Consultations continued with WSPA (World Society for the Protection of Animals), CVA (Commonwealth Veterinary Association) and IFAW (International Fund for the Animal Welfare) to explore opportunities for increasing veterinary capacity in the region. • Secured funding for the establishment of a Food Animal Biosecurity Network, in collaboration with James Cook University under the Australian Pacific Public Sector Linkage Programme. • Collaborated with SPREP to train UNCCD National Focal Points on the UNCCD Performance Review and Assessment System (UNCCD PRAIS) and the Preparation of 4th National Reports to UNCCD. • Supported the Agriculture and Livestock Division, Kiribati, to promote agroforestry practices in the outer islands • In collaboration with Forestry Division, Tonga MAFFF, assisted Hango Agricultural College Eua to establish agroforestry demonstration farm. 	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Completed</p> <p>Ongoing</p> <p>Ongoing</p>
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<p>Output 2.3</p> <p>Develop national and regional capacity to prepare, respond and adapt to climate change and natural disasters</p>	<ul style="list-style-type: none"> Carried out a Reducing Emissions from Deforestation and Forest Degradation (REDD) Policy scoping study exercise for Fiji and produced a scoping report including a capacity needs and gap analysis and a proposed roadmap for REDD-readiness in Fiji. Assistance has also been provided in the drafting of Fiji's National REDD Policy through the SPC/GTZ ACCPIR. 	Completed
	<ul style="list-style-type: none"> Supported the participation of a representative from the Fiji Forestry Department at the UNFCCC COP16 held in Copenhagen through the SPC/GTZ ACCPIR. The representative was Fiji's lead negotiator for REDD. Support was also provided to Fiji's delegates in negotiation preparation for REDD prior to COP16. 	Completed
	<ul style="list-style-type: none"> Assisted in the integration of climate change issues and concerns into the draft Tonga National Forest Policy, in line with the objective of mainstreaming climate change into forestry, agriculture and land use sector policies and plans. 	Ongoing
	<ul style="list-style-type: none"> Established climate change adaptation sites in Vanuatu and Tonga. Land use planning and application of appropriate adaptation technologies are the main focus for these sites through the SPC/GTZ ACCPIR. 	Ongoing
	<ul style="list-style-type: none"> Conducted regional and national consultations towards the development of national climate change adaptation strategy (land resource sector) for Fiji, Tonga and Vanuatu through the SPC/GTZ ACCPIR. 	Completed
	<ul style="list-style-type: none"> Assisted Kiribati in the setting up of a vegetation monitoring system in collaboration with SOPAC. This included the setting up of a system for mapping Kiribati on a 1:10,000 scale and training of relevant people to operate the system including the collection of field data in 2009. Further support is continuing included additional training and also the provision of a desktop computer in 2010. A technician currently based at SOPAC and funded by LRD is providing technical support to Kiribati and other PICTs that are going to be undertaking similar activities in the future. 	Ongoing
	<ul style="list-style-type: none"> Established a 'climate-ready' collection in the CePaCT which is being evaluated in the countries for climate tolerant traits, such as drought, salinity and water-logging through the support of the AusAID International Climate Change Adaptation Initiative (ICCAI) and the US Government,. This collection is composed of crops and varieties that are known to possess these tolerances from evaluation in other countries and regions. The collection is a dynamic one and will be modified according to the evaluation information received. 	Ongoing
	<ul style="list-style-type: none"> Conducting research into the salinity tolerance of swamp taro and the status of the salinity of the swamp taro pits in Tuvalu through the support of the AusAID ICCAI. This research will enable the delivery of more informed advice on the actual salt tolerance of the different varieties of swamp taro, and the impact of saltwater on the swamp taro pits in Tuvalu 	Ongoing
	<ul style="list-style-type: none"> Collaborating with CSIRO and MPI, Fiji in developing a crop model for cassava, which will enable predictions regarding crop performance, yield etc under various climatic regimes through the support of AusAID ICCAI. Such a model could be further developed for other crops. 	Ongoing
	<ul style="list-style-type: none"> Working with communities in Fiji and Palau, recording observations on weather patterns, documenting the agrobiodiversity existing in those communities, and developing ways in which to assess the impact of introducing "new" agrobiodiversity on climate change adaptation through the support of AusAID ICCAI. 	Ongoing

	<ul style="list-style-type: none"> • Collaborating with Fiji Ministry of Primary Industries to strengthen their planting material network to enable better response to disasters. Work involves expanding the tissue culture laboratory at Koronivia Research Station, making available “climate-ready” crops and varieties and establishing nurseries. • Procured Animal Health lab equipment for the Fiji Veterinary Pathology Laboratory, Tonga’s Animal Health lab and University of Guam (UOG) Vet Lab under the PRIPP Animal Health Lab upgrading programme under the Pacific Regional Influenza Pandemic Preparedness (PRIPP) project. • Supported the study on the vulnerability of the coral islands of the Marshall Islands to the impact of sea level rise in collaboration with the Marshall Islands Conservation Society (MICS) 	Ongoing Completed
<p>Output 2.4</p> <p>Support invasive species, pests and diseases problems identification and capacity developments to respond and address these at national and regional Level</p>	<ul style="list-style-type: none"> • Supported Fiji in the formulation of relevant strategies and actions for the effective long-term control and management of the newly introduced Asian subterranean termite (<i>Coptotermes gestroi</i>), currently infesting buildings and trees in Western Viti Levu. • Continued to provide technical and financial assistance to Fiji on its Brucellosis Eradication programme, the Green Iguana programme and the kadivuka Eradication programme, and assisted both Tokelau and the Solomon Islands on their investigation and overseas referral of reported poultry deaths. • Completed the genetic matching studies (comparing deoxyribonucleic acid or DNA) to narrow down the origin or native range of the African tulip tree populations in collaboration with Rhodes University. The studies have concluded that populations of African tulip present in Fiji and Papua New Guinea have a West African origin. • Undertook the first exploration work in Ghana, West Africa to search for potential biological control agents in collaboration with the Plant Protection Research Institute of South Africa. A total of 12 potential natural enemies found on the invasive tree in Ghana were collected and are being kept in quarantine in Pretoria awaiting SPC to find money to support further host-specificity research. • Collaborated with LandCare New Zealand, United States Forest Service, Secretariat of the Pacific Environmental Programme, and the Pacific Invasives Partnership in organising the First Biological Control of Pests and Weeds of Agriculture and Forestry in the Pacific Region in Auckland, New Zealand. SPC has been tasked to take a leading role in planning and undertaking biological control programmes against pests, diseases and weeds and other invasive species. • The ACIAR supported Biological Control programme against the mile-a-minute weed <i>Mikania micrantha</i> in PNG and Fiji was implemented with the successful introduction of the rust fungi <i>Puccinia spegazzinii</i> into PNG and Fiji. Field releases have seen establishment of the useful fungi in over 70 sites in PNG and 17 release sites in Fiji. Distribution and monitoring of the fungi is continuing in both countries. Apart from improved national capacity, it is too early to report on the benefits of the project. 	Ongoing Ongoing Completed Ongoing Ongoing

<p>Output 2.5</p> <p>Strengthen national and regional capacity of extension, outreach and information.</p>	<ul style="list-style-type: none"> • LRD website re-designed for more effective and efficient information exchange. A climate change webpage on the LRD website has been included. In addition, information materials on climate change and agriculture developed and distributed widely. 	Completed
	<ul style="list-style-type: none"> • Supported an awareness training workshop for regional journalists themed “climate change and food security” in Port Vila through the SPC/GTZ ACCPIR. The training, held prior to the PINA summit, was aimed at increasing journalists’ capacity to ably report on climate change issues in the Pacific. It concluded with resolutions on increasing climate change coverage. 	Completed
	<ul style="list-style-type: none"> • Supported a regional Pacific Climate Leadership workshop, held in Suva, Fiji through the SPC/GTZ ACCPIR. This was attended by youths from 8 Pacific island countries. 	Completed
	<ul style="list-style-type: none"> • Produced publications on “best practices on climate change mainstreaming” and “best practices guidelines on climate change adaptation” through the SPC/GTZ ACCPIR. This includes practices from the Pacific region and other developing countries. 	Completed
	<ul style="list-style-type: none"> • Carried out a training of trainers in ‘Eua, Tonga on climate change issues, sustainable land management, and watershed management through the support of SPC/GTZ ACCPIR. Target groups were local community-based organisations such as youth and women groups. 	Completed
	<ul style="list-style-type: none"> • Supported the development of Farmers Association such as the Samoa Farmers Association (SFA) in collaboration with FAO and others in its governance and organisational structures. SFA is now maturing to the stage where they are exporting and has a membership of over 2000. 	Completed
	<ul style="list-style-type: none"> • Working in Tonga to evaluate the use of mobile phone technology in establishing a customer based help desk that will make it easy for farmers to access information in collaboration with FAO. 	Ongoing
	<ul style="list-style-type: none"> • Continued to inform PICTs through its quarterly LRD Newsletter highlighting activities carried out in the region. 	Ongoing

Objective 3 : Biosecurity and Trade in Agriculture and Forestry (BTAf)

Output	Activities	Status
Output 3.1 Strengthened national capacity to comply with international and other relevant standards of biosecurity services	<ul style="list-style-type: none"> The Pacific Plant Protection Organisation (PPPO) Secretariat and Pacific representatives of contracting parties to the International Plant Protection Convention (IPPC) attended the 4th Session of the Commission on Phytosanitary Measures in April 2009. At this session, they contributed to the deliberation and approval of five new International Standards on Phytosanitary Measures (ISPMs). The PPPO Secretariat and the IPPC Secretariat co-funded regional workshops on draft ISPMs in Nadi, Fiji Islands in August 2009 and 2010. 	Completed
	<ul style="list-style-type: none"> Under a memorandum of understanding with SPC, the World Organisation for Animal Health (OIE) agreed to provide SPC member PICTs access to the World Animal Health Information System (WAHIS) disease reporting system. 	Completed
	<ul style="list-style-type: none"> Continued to assist PICTs in their online reporting via the Web-based animal health reporting system with OIE authority for non-OIE members to report using PICT usernames and passwords provided by OIE; LRD, in collaboration with SPC's Division of Fisheries, Aquaculture and Marine Ecosystems (FAME), was able to negotiate continued entrance of aquatic ornamentals into the EU market despite new entry conditions requiring exporting countries to be OIE members. 	Ongoing
	<ul style="list-style-type: none"> Set up BIFs with equipment, and provided training in Fiji Islands, French Polynesia, PNG, Tuvalu, Solomon Islands, Marshall Islands and Niue. Equipment and software were also provided to Tonga, Vanuatu, FSM, Palau, Cook Islands and Fiji Islands with assistance under the Pacific Regional Economic Integration Programme (PACREIP). BIFs are now operational and operators are able to use their online operations manuals to undertake import permitting and export certification using the system. 	Ongoing
	<ul style="list-style-type: none"> Provided equipment to Pitcairn Islands to help strengthen Pitcairn's biosecurity service, included a computer, a digital camera, newly developed visitor arrival cards, and biosecurity uniforms. 	Completed
	<ul style="list-style-type: none"> Undertook phytosanitary capacity evaluation in Vanuatu in June under a project funded by the World Trade Organization (WTO) Standards and Trade Development Facility. Evaluations have thus far been undertaken in Cook Islands, FSM, Fiji Islands, Kiribati, Marshall Islands, Nauru, Niue, Palau, PNG, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu. 	Completed
	<ul style="list-style-type: none"> Provided training to Quarantine Officers from Solomon Islands on understanding and enforcement of ISPMs. Similar training was also provided to Quarantine Officers from Guam, CNMI, Palau, FSM, Nauru, Kiribati and Marshall Islands in collaboration with the University of Guam, the Guam Department of Agriculture and the US Department of Agriculture's Animal and Plant Health Inspection Service. 	Completed
	<ul style="list-style-type: none"> Provided training on pest risk analysis for importation of plant germplasm for planting for Forestry and Quarantine Officers from the region. Participants were from Fiji Islands, Kiribati, Nauru, Samoa, Tonga, Solomon Islands, PNG and Vanuatu. 	Completed

<p>Output 3.2</p> <p>Develop and strengthen national capacity to increase domestic and export trade</p>	<ul style="list-style-type: none"> Continued support for the bilateral efforts of Fiji Islands and Tuvalu to initiate inter-island trade between Rotuma and Tuvalu. Assistance has included marketing missions for a Fiji Islands delegation to Tuvalu and a Tuvalu delegation to Rotuma, Fiji Islands and submitted formal market access requests for export of taro, sweet potato and cassava from Rotuma to Tuvalu. Tuvalu has undertaken the import risk analysis with LRD's assistance and given approval for taro, sweet potato and cassava to enter the Tuvalu market. LRD undertook a crop specific pest survey in the various Tuvalu islands as a prerequisite to the import risk analysis. 	Ongoing
	<ul style="list-style-type: none"> Assisted market access applications to New Zealand for coconut from Tuvalu and Tahitian lime from Samoa. This market access request has been pending for three years. LRD is now assisting the private sector to prepare for start of exports once formal approval is granted. 	Ongoing
	<ul style="list-style-type: none"> Provided assistance on preliminary import risk analysis for island cabbage and Polynesian plum from Fiji, Tonga, Samoa, Cook Islands and Vanuatu to New Zealand in collaboration with FAO. The Ministry of Agriculture and Forestry (MAF) – Biosecurity New Zealand requires a full import risk analysis, which will take at least 3–5 years. This assistance would provide baseline information and significantly speed up the process of meeting import health standards. MAF Biosecurity New Zealand and Biosecurity Australia are now working together on the import risk analysis for island cabbage and plan to complete it by November 2010. 	Ongoing
	<ul style="list-style-type: none"> Provided technical assistance to the Niue Government for market access of plantain and cured vanilla to New Zealand with assistance under the Pacific Agreement on Closer Economic Relations (PACER) project. A short term consultant conducted a preliminary risk analysis for importing plantain from Niue to New Zealand and train staff and farmers on how to process and cure vanilla for exports in June 2010. 	Completed
	<ul style="list-style-type: none"> Discussed the suspected presence of papaya bacterial rot in Fiji, which affects papaya exports with Fiji Biosecurity and Biosecurity Australia. Samples have been isolated and sent to CABI for identification. 	Ongoing
	<ul style="list-style-type: none"> Working with ACIAR and the Fiji Ministry of Primary Industries on a new project to improve pathways for exports of taro and ornamentals to Australia and New Zealand. This project aims to engage Fiji Islands, Tonga, Samoa, Australia and New Zealand quarantine authorities in active and consistent dialogue to define current problems with taro and foliage export pathways. Through dialogue with quarantine authorities, producers, exporters and importers establish a clear understanding of improvement measures need for commodity production, supply chain and export pathways, history of interceptions and on-arrival treatments for taro and cut flowers to Australia and New Zealand. The project also aims to develop definitive lists of quarantine pests associated with taro and cut flowers from Fiji for Australia and New Zealand. 	Ongoing

<p>Output 3.2 (cont.)</p> <p>Develop and strengthen national capacity to increase domestic and export trade</p>	<ul style="list-style-type: none"> Participated in the final design missions for the AusAID PHAMA project to Solomon Islands, Fiji Islands, Samoa, Vanuatu and Tonga. The PHAMA project is set to start in November 2010. PHAMA will provide a mechanism to support and expand export market opportunities for horticultural and other agricultural commodities. This will be done by creating regional infrastructure that will: identify and prioritise products to target, facilitate the development of information for and progression of market access submissions, ensure their follow-up through the approval systems of importing countries' regulatory agencies and facilitate the implementation of any necessary processes with government agencies in exporting countries. 	Ongoing
	<ul style="list-style-type: none"> Carried out an independent economic and systems analyses of production, export and marketing requirements and design for 14 enterprises selected for FACT support (in Fiji Islands, Marshall Islands, PNG, Samoa, Solomon Islands, Tonga and Vanuatu). Based on these studies, the project has begun to facilitate ongoing improvements towards commercially viable, sustainable and market oriented production programmes for the enterprises. These have included the use of improved germplasm, provision of equipment and technical assistance, implementation of training programmes, establishment of demonstration plots and creation of grower/production networks. 	Ongoing
	<ul style="list-style-type: none"> Research is ongoing to develop a micro-propagation system for sandalwood with a view to providing planting material for a commercial nursery. As for most forest tree species, seed propagation is common for sandalwood, although vegetative propagation via grafting, air layering and root suckers is also practiced. However, achieving production of clones using these methods is inefficient and time consuming. Tissue culture plants of sandalwood have been established and efforts are now focused on root production in tissue culture. Research is also being undertaken by CePaCT with FACT support on tissue culture of pandanus and balsa. 	Ongoing
	<ul style="list-style-type: none"> Under the guidance of POETCom, formerly the Regional Organic Task Force (ROTF), the national organics associations of Cook Islands, Fiji Islands, French Polynesia, Kiribati, New Caledonia, PNG, Samoa, Solomon Islands, Tonga and Vanuatu have continued to develop and promote local organic production and marketing. Some national associations have commenced exports, e.g. coffee from PNG and Vanuatu and organic coconut oil from Samoa and Solomon Islands. 	Ongoing
	<ul style="list-style-type: none"> Completed a Phytosanitary Evaluation project funded under the WTO Standards and Trade Development Facility. Thus, evaluations have been undertaken in Cook Islands, FSM, Fiji Islands, Kiribati, Marshall Islands, Nauru, Niue, Palau, PNG, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu. 	Completed
	<ul style="list-style-type: none"> Continue to provide assistance on fruit fly surveillance and monitoring, including area-wide management of fruit flies. Assistance has been rendered to American Samoa, Samoa, Fiji Islands, PNG, Solomon Islands, Niue, Tuvalu, Marshall Islands, Vanuatu and Kiribati through provision of surveillance equipment, provision of technical advice on quarantine, research and management of fruit flies. 	Ongoing

<p>Output 3.3</p> <p>Development and promotion of sustainable and viable post harvest technologies</p>	<ul style="list-style-type: none"> Facilitated the development of: post-harvest quality assurance and processing and packaging operator skills to increase compliance with Sanitary and Phytosanitary (SPS) standards, market access, shelf life and bulk reduction to increase durability, and value adding to enhance the competitiveness of export products. Products included essential oils (PNG), cassava chips (Vanuatu), banana chips (Samoa) and pandanus juice (Marshall Islands). The FACT project provided information and communications technology and training support for quality standards, post-harvest processing, packaging, marketing, market access and compliance with SPS and Codex standards and Hazard Analysis and Critical Control Point (HACCP). ACIAR has approved a Small Research Activity (SRA) titled ‘Developing cleaner export pathways for Pacific commodities – definition of quarantine environment for targeted commodities’. A revised proposal will be submitted upon completion of the SRA. To support this initiative, LRD has commenced a scoping study to review and identify research issues in the export commodity pathways for taro and cut flowers and foliage 	<p>Completed</p> <p>Ongoing</p>
<p>Output 3.4</p> <p>Improved information available on plant and animal status</p>	<ul style="list-style-type: none"> Maintaining the PPPO website on the international phytosanitary portal (IPP). The Pacific fruit fly website (www.pacifly.org) is also serviced and updated regularly. Pest list database assistance was provided to Tuvalu, Kiribati, Solomon Islands and FSM. LRD Helpdesk responded to 259 queries through the helpdesk. This does not include additional queries directed straight to sections and officers. SPC received endorsement from HOAFS in 2008 to become member of the CABI Compendium Development Consortium. New Zealand’s Aid Programme had recommended that SPC takes up its seat on the consortium. SPC LRD has sought funding support of USD 253,000 for discounted membership cost for access and input rights to the five different compendia including the Invasive Species Compendium from 2010, will include significant sections of the current Crop Protection Compendium. Future access to the various compendia will be by membership and over the Internet only, with CABI phasing out the distribution of CD copies. The PHAMA project will fund this due to the importance of the Crop Protection Compendium in trade facilitation. Continue to provide information in formats such as posters, leaflets, pest alerts, pest advisory fact sheets and news releases. Specific public awareness information has been provided to PNG on coffee berry borer, to Solomon Islands on cocoa pod borer and to Fiji Islands on subterranean termite <i>Coptertermes gestroi</i> and Tonga on giant sensitive mimosa outbreak at Vava’u. 	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>

PROGRESS OF IMPLEMENTATION OF 2008 HOAFS RECOMMENDATIONS

Tabulated below is a brief summary of the SPC LRD responses to the 2008 HOAFS meeting recommendations that come under Objective 1, 2 and 3 of LRD's Strategic Plan 2009–2012. All recommendations are being implemented. Few have been achieved, but due to the nature of the recommendations, implementation is an ongoing process, which will in the majority of cases continue throughout the current strategic plan.

The four areas of recommendation are abbreviated as follows;

- FN: Improved food and nutrition security
 SLFPS: Strengthening local food production system
 LAFM&D: Integrated and sustainable land, agriculture and forestry management and development
 MTI: Maximising income from agriculture and forestry products and their trade

NO.	RECOMMENDATION	PROGRESS OF IMPLEMENTATION
FN21.	The approach used by the EU-funded Development of Sustainable Agriculture in the Pacific project (DSAP) be institutionalised within LRD and funding secured to ensure continuity into 2009 and beyond.	Ongoing
FN2.2	LRD and the Public Health Programme of SPC develop and present a strategy paper for CRGA which recognises the importance of close collaboration between the agriculture and health sectors in combating the increasing incidence of lifestyle related diseases.	Ongoing
FN2.3	SPC and the Secretariat to the ITPGRFA Treaty progress with the establishment of an agreement to place the <i>ex situ</i> collections of the Centre for Pacific Crops and Trees (CePaCT) into the Multilateral System (MLS).	Achieved
FN2.4	LRD explore the establishment of a trust fund for the long-term conservation of Pacific crop diversity	Some funds received from Global Crop Diversity Trust but further funds are necessary to fully support collections
FN2.5	A duplicate collection of the breadfruit varieties currently held in the National Tropical Botanic Garden in Hawaii, is established in the Pacific.	Ongoing
FN2.6	LRD, in collaboration with NARI and FAO, source funding to implement the Pacific Crop Improvement Programme (PARCIP).	Ongoing
FN2.7	LRD, USP and other regional training institutions explore ways of incorporating veterinary science into the curriculum of the relevant institutions.	Ongoing
FN2.8	LRD strengthen engagement with civil society and provide support to build tis management capacity.	Ongoing
FN2.9	LRD ensures the sustainability of the research programme within the Centre of Excellence for Atoll Agricultural Research and Development.	Ongoing
SLFPS4.1	LRD continues to empower extension services to respond to the changing needs of the agro-forestry sector at all levels, such as climate change.	Ongoing
SLFPS4.2	LRD helps PICTs strengthen the partnerships within their communities in order to raise awareness of the benefits of food and nutritional security, and income generation achieved through increasing local food production and consumption.	Ongoing
SLFPS4.3	LRD collaborates with relevant education institutes, such as USP and CETC, to support and strengthen agricultural education, especially the link between agriculture and health.	Ongoing

SLFPS4.5	LRD seeks to strengthen planting material (vegetative and seeds) production capacity and exchange in the region and to expand the diversity within the crop and animal gene pool using appropriate technologies.	Ongoing
SLFPS4.6	LRD strengthens linkages with all relevant nutrition and health agencies, to encourage the consumption and production of local foods, especially targeting children and youth.	Ongoing
SLFPS4.7	LRD builds and strengthens capacity in the processing and preservation of local foods, taking into account traditional knowledge, to provide a competitive alternative to imported foods.	Ongoing
SLFPS4.8	LRD assists PICTs develop appropriate technology for peri-urban agriculture production and to promote and support the home-garden approach.	Ongoing
SLFPS4.9	LRD works with SPREP, GTZ and UN to develop climate change adaptation plans relevant to each country.	Ongoing
LAFM&D3.1	LRD promotes a whole-of-island approach to planning for land resource management	Ongoing
LAFM&D3.2	LRD strengthens its technical capacity in agroforestry, post-harvest wood processing, and product diversification to effectively support national initiatives in these areas.	Ongoing
LAFM&D3.3.	LRD commissions a study to provide up-to-date information and advice on the trade in carbon credits to assist PICTs in exploring options and formulating policies.	Ongoing
LAFM&D3.4	LRD reactivates the biannual Heads of Forestry Meeting.	Heads of Forestry Meeting convened in Nadi, Fiji in 2009 and recommendations of that meeting to be considered by this HOAFS
LAFM&D3.5	LRD participates in the CABI Compendium Development Consortium to strengthen availability of and access to information on PICTs agriculture and forestry sectors.	Ongoing
LAFM&D3.6	LRD and Land Care Research collaborate in the development of a Pacific Soil Portal.	Ongoing
LAFM&D3.7	LRD implements a regional initiative formulated by LRD and PIFS on land management and conflict minimisation.	Ongoing
LAFM&D3.8	LRD promotes the use of land-zoning mapping and economic analysis of land use practices as tools for the sustainable development and management of land resources in PICTs.	Ongoing
MTI5.1	LRD works closely with the Pacific Islands Trade & Investment Commission (PITIC), the Pacific Islands Private Sector Organisation (PIPSO), the private sector and NGOs in providing capacity building in marketing techniques including appropriate branding and the use of ICT in promoting products.	Ongoing assistance from LRD
MTI5.2	LRD builds capacity in identifying suitable products for processing and value adding including the development of organic, fair trade and eco-certification systems.	Ongoing assistance from LRD
MTI5.3	LRD strengthens information exchange between the public and private sectors and other stakeholders, including promotion of success stories.	Ongoing assistance from LRD
MTI5.4	LRD and its partners develop a regional market information system to support trade.	Ongoing assistance from LRD
MTI5.5	LRD liaises with the Pacific Shipping Association through PIPSO and the SPC maritime programme in identifying transport links to enhance intra-regional trade.	Ongoing assistance from SPC for Rotuma–Tuvalu, Kiribati–Solomon Islands
MTI5.6	LRD provides capacity building and awareness raising for producers and associations in meeting quality and marketing requirements for export trade.	Ongoing assistance from LRD



Growing the Pacific
Cultivant nos îlots ensemble
L'Océanie, le terreau de notre avenir.

SPC Land Resources Division

