

Appendices

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Appendix 1: Basis of Authority

ACIAR is governed under the *Australian Centre for International Agricultural Research Act 1982*, proclaimed on 3 June 1982 as Act No. 9 of 1982. The Act was described as ‘An Act to encourage research for the purpose of identifying, or finding solutions to, agricultural problems of developing countries’.

The Act was amended in 2007, coming into effect from 1 July 2007, following a review of the Centre conducted under the auspices of the *Review of Corporate Governance of Statutory Authorities and Office Holders* undertaken by Mr John Uhrig. ACIAR’s existing governance arrangements were reviewed against the principles and recommendations of the Uhrig Review, together with a range of other statutory authorities in the Foreign Affairs and Trade portfolio, to achieve the most effective accountability and governance structures across the whole of Government.

The principal purpose of the amendments introduced in the *Australian Centre for International Agricultural Amendment Act 2007* (the Amendment Act), arising from the review process was to change the governance arrangements of ACIAR. This replaced the Board of Management with an executive management structure involving a Chief Executive Officer (CEO) and a seven-member Commission. The Amendment Act came into force from 1 July 2007. The functions of the CEO are set out at Section 5 of the Legislation.

5. Functions of the CEO

1. The functions of the CEO are:
 - a) to formulate programs and policies with respect to agricultural research for either or both of the following purposes:
 - i) identifying agricultural problems of developing countries;
 - ii) finding solutions to agricultural problems of developing countries;

- b) to commission agricultural research by persons or institutions (whether the research is to be conducted in Australia or overseas) in accordance with such programs and policies; and
 - c) to communicate to persons and institutions the results of such agricultural research; and
 - d) to establish and fund training schemes related to the research programs referred to in paragraph (a); and
 - e) to conduct and fund development activities related to those research programs; and
 - f) to fund international agricultural research centres.
2. The CEO must, in performing his or her functions with respect to agricultural research, have regard to the need for persons or institutions in developing countries to share in that research.
3. Nothing in this section authorises, or permits, the CEO to carry out research on behalf of the Commonwealth.
4. The CEO must, in performing his or her functions, comply with any directions given to the CEO under section 5A.

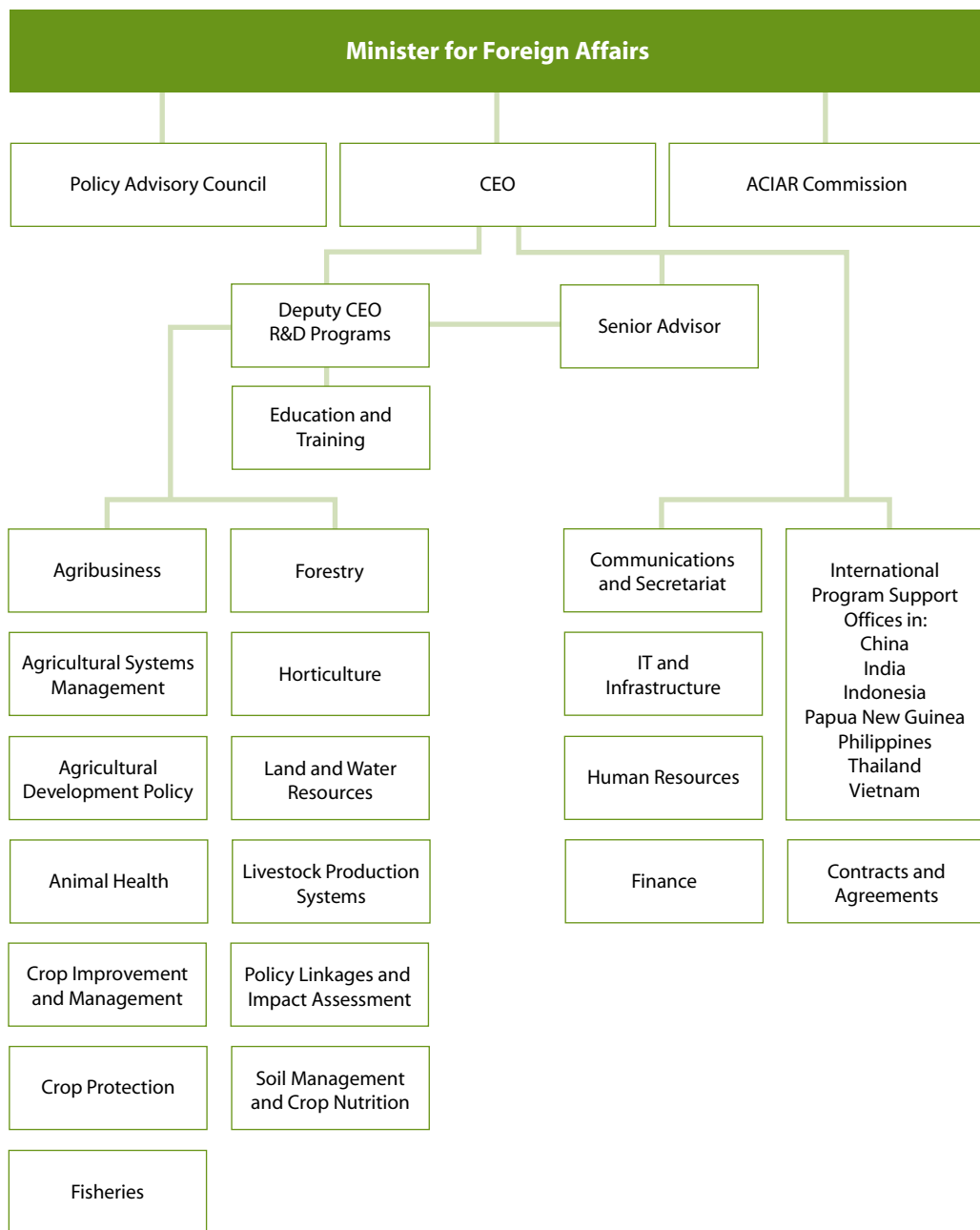
5A Power of Minister to give directions

1. The Minister may, by writing, give directions to the CEO with respect to the performance of the CEO’s functions under this Act (including in relation to the appropriate strategic direction the CEO should take in performing his or her functions).

Note: A direction under this section is included in the annual report: see section 39.

2. A direction given under subsection (1) is not a legislative instrument.

Organisational structure (as at 30 June 2008)



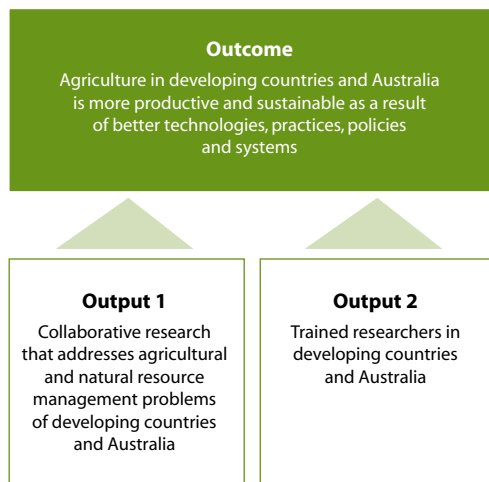
Appendix 2: Outcome and Outputs framework 2007–08

ACIAR’s single outcome, specified in the Portfolio Budget Statement, describes the Centre’s role within the context of Australia’s development assistance program.

The achievement of this outcome relies on the contribution of two outputs:

- Output 1 aggregates the activities of bilateral and multilateral research and development (R&D) programs that address the agreed priorities of developing countries
- Output 2 focuses on capacity-building activities delivered through formal training of researchers. (In addition to formal training, much training takes place through involvement in R&D projects themselves.)

Outcome and outputs structure



Corporate planning

ACIAR publishes a formal Annual Operational Plan for each financial year, to guide external stakeholders through the priority areas for research in partner countries. Key research programs in each country are also identified, creating a two-way management matrix against which funds are allocated. Reporting against the Annual Operational Plan is covered in the section ‘Tracking performance against the 2007–08 AOP’ (page 191 and the country specific sections of the Report).

Resources for outcome

Financial performance

In 2007–08 ACIAR’s direct expenditure on Outputs 1 and 2, including bilateral and multilateral research projects, education and training of researchers and project-related publications disseminating research results, represented 85.7% of expenditure.

The Centre has continued to maintain its healthy financial position. For 2007–08 we operated with a small surplus of \$27,944. ACIAR will continue to operate a balanced budget in future years to maintain this position.

Price of departmental outcomes

Outcome 1—Agriculture in developing countries and Australia is more productive and sustainable as a result of better technologies, practices, policies and systems.

Outcome 1

	(1) Budget* 2007–08 \$'000	(2) Actual expenses 2007–08 \$'000	Variation (column 2 minus column 1) \$'000	Budget** 2008–09 \$'000
Administered Expenses ¹ (including third party outputs)	n/a	n/a	n/a	n/a
Total Administered Expenses	n/a	n/a	n/a	n/a
Price of Departmental Outputs				
Output Group 1.1: Collaborative research that addresses agricultural and natural resource management problems of developing countries and Australia	48,672	47,566	(1,106)	49,828
Subtotal Output Group 1.1	48,672	47,566	(1,106)	49,828
Output Group 1.2: Trained researchers in developing countries and Australia	2,570	3,648	1,078	2,505
Subtotal Output Group 1.2	2,570	3,648	1,078	2,505
Revenue from Government (Appropriation) for Departmental Outputs	51,242	51,214	(28)	52,333
Revenue from other sources	13,271	14,786	1,515	13,330
Total Price of Outputs	64,513	66,000	1,487	65,663
Total for Outcome 1 (Total Price of Outputs and Administered Expenses)	64,513	66,000	1,487	65,663

*Full-year budget, including additional estimates

**Budget prior to additional estimates

¹ ACIAR does not have administered expenses

Appendix 3: ACIAR's active research projects 2007–08

Bilateral research projects—projects may be active in more than one country

	Bangladesh
LWR/2005/146	Expanding the area for Rabi-season cropping in southern Bangladesh
LWR/2005/001	Addressing constraints to pulses in cereals-based cropping systems, with particular reference to poverty alleviation in north-western Bangladesh
	Bhutan
HORT/2005/142	Improving mandarin production in Bhutan and Australia through the implementation of on-farm best management practices
	Burma (Myanmar)
AH/2002/042	Control of Newcastle disease and identification of major constraints in village chicken production systems in Myanmar
	Cambodia
ASEM/2006/130	Enhancing production and marketing of maize and soybean in north-western Cambodia and production of summer crops in north-eastern Australia
ASEM/2003/012	Improving the marketing system for maize and soybeans in Cambodia
ASEM/2003/007	Cambodian Agricultural Research Fund – CARF
ASEM/2000/109	Farming systems research for crop diversification in Cambodia and Australia
AH/2006/025	Understanding livestock movement and the risk of spread of transboundary animal diseases
AH/2005/086	Best practice health and husbandry of cattle in Cambodia
AH/2003/008	Improved feeding systems for more efficient beef cattle production in Cambodia
CIM/2006/040	Diversification and intensification of rainfed lowland cropping systems in Cambodia
CIM/2003/030	Improving understanding and management of rice pathogens in Cambodia
FIS/2006/137	Analyses of three databases of fisheries data from the Mekong River
FIS/2002/068	Improving feeds and feeding for small scale aquaculture in Vietnam and Cambodia
HORT/2003/045	Improvement of vegetable production and postharvest management systems in Cambodia and Australia
SMCN/2001/051	Assessing land suitability for crop diversification in Cambodia and Australia

	China
ADP/2008/005	Viability of alternative frameworks for agricultural trade negotiations
ADP/2007/055	Improving the efficiency of land use change policy in China
ADP/2002/021	Sustainable land use change in the north-west provinces of China
CIM/2005/111	More effective water use by rainfed wheat in China and Australia
CIM/2002/093	Intensifying production of grain and fodder in Central Tibet farming systems
CIM/2000/038	Use and improvement of sugarcane germplasm
CIM/1999/072	Oilseed Brassica improvement in China, India and Australia
FST/2001/021	Improving the value chain for plantation-grown eucalypt sawn wood in China, Vietnam and Australia: sawing and drying
FST/1999/095	Improving the value chain for plantation-grown eucalypt sawn wood in China, Vietnam and Australia: genetics and silviculture
HORT/1999/081	Reducing spoilage and contamination risks of fresh vegetables in China and Australia
LWR/2007/191	Improving farmer livelihoods through efficient use of resources in crop-livestock farming systems in western China
LWR/2006/076	Evaluation of opportunities and constraints for R&D investment into increasing water productivity of agriculture in north-western China
LWR/2005/059	Modelling water and solute processes and scenarios for optimisation of permanent raised bed systems in China, India, Pakistan and Indonesia
LWR/2003/039	Improving the management of water and nitrogen fertiliser for agricultural profitability, water quality and reduced nitrous oxide emissions in China and Australia
LWR/2002/094	Promotion of conservation agriculture using permanent raised beds in irrigated cropping in the Hexi Corridor, Gansu, China
LPS/2006/119	Integrated crop and dairy systems in Tibet Autonomous Region, China
LPS/2005/129	Mineral response in Tibetan livestock
LPS/2002/104	Increasing milk production from cattle in Tibet
LPS/2001/094	Sustainable development of grasslands in western China
PLIA/2006/153	Evaluation of catchment filter pilot study in Shanxi, China
PLIA/2005/152	Australia–China linkage for improved rice cold tolerance
	East Timor
CIM/2005/079	Seeds of Life 2 – Technical Advisory Committee
CIM/2003/014	Seeds of Life 2
LPS/2003/028	Biological control of two major weeds affecting crop and livestock production in East Timor
LPS/2003/004	Building agricultural knowledge and R&D capacity in East Timor: a small projects facility

	Federated States of Micronesia
FIS/2001/036	Maximising the economic benefits to Pacific Island Nations from management of migratory tuna stocks
	Fiji
ADP/2005/140	Participatory needs assessment for capacity building in extension (Pacific Islands)
ADP/2003/069	Policy options for improving the value of land use in smallholder Fijian agriculture
ADP/2002/047	Trade liberalisation, agriculture and land degradation in Fiji: implications for sustainable development policies
AH/2001/054	The identification of constraints and possible remedies to livestock production by zoonotic diseases in the South Pacific
CP/2004/064	Biological control of 'mile-a-minute' (<i>Mikania micrantha</i>) in Papua New Guinea and Fiji
CP/2000/044	Taro beetle management in Papua New Guinea and Fiji
FIS/2006/138	Developing aquaculture based livelihoods in the Pacific Islands region and tropical Australia
FIS/2005/108	Freshwater prawn aquaculture in the Pacific: Improving culture stock quality and nutrition in Fiji
FIS/2001/036	Maximising the economic benefits to Pacific Island Nations from management of migratory tuna stocks
FIS/1997/031	Pearl oyster resource development in the western Pacific
FST/2004/054	Improving value and marketability of coconut wood
FST/2004/053	Establishing forest pest detection systems in South Pacific countries and Australia
HORT/2007/072	Postgraduate Scholarship Scheme for University of South Pacific, Fiji
HORT/2006/109	The potential for increasing the value of cocoa industries in Solomon Islands, Vanuatu, Fiji and Samoa
HORT/2006/055	Developing the ornamentals industry in the Pacific: an opportunity for income generation
HORT/2006/053	Evaluation of the impact of Dasheen mosaic virus on and other viruses on taro yield
HORT/2004/063	Integrated pest management in a sustainable production system for Brassica crops in Fiji and Samoa
HORT/2004/049	Improved farming systems for managing soil-borne pathogens of ginger in Fiji and Australia
HORT/2003/046	Integrated control of powdery mildew and other disease, weed and insect problems in squash in Tonga and Australia
	India
ADP/2008/005	Viability of alternative frameworks for agricultural trade negotiations

ADP/2007/062	Facilitating efficient agricultural markets in India: An assessment of competition and regulatory reform requirements
ADP/2002/089	Agricultural trade liberalisation and domestic market reforms in Indian agriculture
ADP/2000/004	International food safety regulation and processed food exports from developing countries: A comparative study of India and Thailand
AH/2002/038	Improved productivity, profitability and sustainability of sheep production in Maharashtra, India, through genetically enhanced prolificacy, growth and parasite resistance
AH/2001/005	Salinity reduction in tannery effluents in India and Australia
AH/1997/058	Increasing the productivity of cattle in India and Australia with rumen fungal treatments
CIM/2007/064	Linking India and Australia to a global strategy for the Ug99 stem rust pathotype
CIM/2006/094	Enhancing farm profitability in north-west India and South Australia by improving grain quality of wheat
CIM/2005/020	Molecular marker technologies for faster wheat breeding in India
CIM/1999/072	Oilseed Brassica improvement in China, India and Australia
FIS/2006/144	Strengthening regional mechanisms to maximise benefits to smallholder shrimp farmer groups adopting better management practices (BMPs)
FIS/2002/075	Application of PCR for improved shrimp health management in the Asian region
FIS/2002/001	Developing aquaculture in degraded inland areas in India and Australia
LWR/2006/124	Fine-tuning the Happy Seeder technology for adoption in north-west India
LWR/2006/073	Assessing the feasibility of farmers managing climate-related crop production risk in Andhra Pradesh, India
LWR/2005/059	Modelling water and solute processes and scenarios for optimisation of permanent raised bed systems in China, India, Pakistan and Indonesia
LWR/2004/033	Zero-tillage rice establishment and crop-weed dynamics in rice and wheat cropping systems in India and Australia
LWR/2002/100	Water harvesting and better cropping systems for the benefit of small farmers in watersheds of the East India Plateau
LWR/2002/032	Integrated manure nutrient management in soybean/wheat cropping systems on vertisols in Madhya Pradesh and Queensland
LWR/2001/014	Improving water resource management in India's agriculture: search for effective institutional arrangements and policy frameworks
PLIA/2006/132	Policy instruments to address air pollution issues in agriculture: implications for Happy Seeder technology adoption in India

	Indonesia
AGB/2004/028	Social capital and rural development in eastern Indonesia
AGB/2002/012	Technical change in Thai and Indonesian agriculture: measurement, socio-economic impact and policy implications
ADP/2008/005	Viability of alternative frameworks for agricultural trade negotiations
ADP/2003/060	Implementation of rodent management in intensive irrigated rice production systems in Indonesia and Vietnam
AH/2007/060	Scoping opportunities for improving biosecurity in commercial poultry in Indonesia
AH/2006/169	Cost-effective biosecurity for non-industrial commercial poultry operations in Indonesia
AH/2006/166	Improving veterinary service delivery in a decentralised Indonesia
AH/2006/156	Livestock movement and managing disease in eastern Indonesia and eastern Australia
AH/2006/050	Control and characterisation of highly pathogenic avian influenza strains in poultry in Indonesia
AH/2004/074	Large scale production of a vaccine and diagnostic reagents for Jembrana disease in Indonesia
AH/2004/040	The epidemiology, pathogenesis and control of highly pathogenic avian influenza (HPAI) in ducks in Indonesia and Vietnam
AH/2004/032	Identification of policy responses to minimise negative socio-economic impacts of an avian influenza epidemic in Indonesia
AH/2004/020	The development of a national surveillance system for classical swine fever, avian influenza, and foot and mouth disease in Indonesia
AH/2000/083	Development of a vaccine for the control of Gumboro in village and small poultry holdings in Indonesia
CP/2006/147	Integrated pest management of stem borers and insect vectors of viral diseases of sugarcane in Indonesia
CP/2005/167	Optimising the productivity of the potato/Brassica cropping system in Central and West Java
CP/2004/034	Diagnosis and management of wilt diseases of banana in Indonesia
CP/2003/036	Managing pest fruit flies to enhance quarantine services and upgrade fruit and vegetable production in Indonesia
CP/2000/043	Huanglongbing management for Indonesia, Vietnam and Australia
FIS/2007/029	Support for antibiotic residue testing in fisheries products
FIS/2006/144	Strengthening regional mechanisms to maximise benefits to small-holder shrimp farmer groups adopting better management practices (BMPs)
FIS/2006/142	Developing new assessment and policy frameworks for Indonesia's marine fisheries, including the control and management of Illegal, Unregulated and Unreported (IUU) fishing

FIS/2006/140	Achieving consistent spawning of captive yellowfin tuna (<i>Thunnus albacares</i>) broodstock at Gondol Research Institute for Mariculture, Bali, Indonesia
FIS/2006/002	Aceh aquaculture rehabilitation project
FIS/2005/169	Improving productivity and profitability of smallholder shrimp aquaculture and related agribusiness in Indonesia
FIS/2005/009	Technical capacity building and research support for the reconstruction of tsunami-affected, brackishwater aquaculture ponds in Aceh
FIS/2003/027	Planning tools for environmentally sustainable tropical finfish cage culture in Indonesia and northern Australia
FIS/2002/111	Culture, capture conflicts: sustaining fish production and livelihoods in Indonesian reservoirs
FIS/2002/077	Improved hatchery and growout technology for marine finfish in the Asia-Pacific region
FIS/2002/076	Land capability assessment and classification for sustainable pond-based aquaculture systems
FIS/2002/075	Application of PCR for improved shrimp health management in the Asian region
FIS/2002/074	Capacity development to monitor, analyse and report on Indonesian tuna fisheries
FIS/2001/058	Sustainable tropical spiny lobster aquaculture in Vietnam and Australia
FIS/2000/065	Assessing the potential for low cost formulated diets for mud crab aquaculture in Australia, Indonesia and Vietnam
FST/2007/052	Improving governance, policy and institutional arrangements to reduce emissions from deforestation and degradation (REDD)
FST/2005/054	Seed distribution of Australian Trees – Limited Extension
FST/2004/058	Realising genetic gains in Indonesian and Australian plantations through water and nutrient management
FST/2003/048	Management of fungal root rot in plantation acacias in Indonesia
FST/2003/025	Community partnerships for plantation forestry: enhancing rural incomes from forestry in eastern Indonesia and Australia
LWR/2005/059	Modelling water and solute processes and scenarios for optimisation of permanent raised bed systems in China, India, Pakistan and Indonesia
LPS/2006/005	Evaluating strategies to improve calf survival in West Timor villages
LPS/2004/023	Strategies to increase growth of the weaned Bali calf
LPS/2004/005	Improving smallholder crop-livestock systems in eastern Indonesia
SMCN/2005/118	Restoration of annual cropping in tsunami-affected areas of Nanggroe Aceh Darussalam Province, Indonesia
SMCN/2002/033	Seasonal climate forecasting for better irrigation system management in Lombok

SMAR/2007/225	Assessing mariculture market constraints and potential in south-east Sulawesi – Stage 1: Stakeholder engagement and situation analysis
SMAR/2007/219	Identifying economic and social constraints for water management in vegetable production in Nusa Tenggara Timur (NTT) and Nusa Tenggara Barat (NTB)
SMAR/2007/216	Improving rice productivity in South and South East Sulawesi
SMAR/2007/203	Integrated tropical passionfruit production systems in South Sulawesi
SMAR/2007/202	Benchmarking the beef supply chain in eastern Indonesia
SMAR/2007/201	Improving goat production in integrated estate cropping systems in South Sulawesi
SMAR/2007/196	Market development for citrus from eastern Indonesia
SMAR/2007/195	Smallholder commercial pig production in Nusa Tenggara Timur - opportunities for better market integration
SMAR/2007/193	Quality management to enhance effective supply chains for mangoes and rambutans in Nusa Tenggara Barat (NTB), Indonesia and Australia
SMAR/2007/100	Support for development of improved approaches to technology assessment and knowledge exchange
SMAR/2007/068	Productivity and profitability enhancement of tropical pulses in Indonesia and Australia
SMAR/2007/063	Enhancing farmer engagement with specialty coffee chains in eastern Indonesia
SMAR/2007/013	Opportunities to use cocoa pods and forages to address feed gaps in the dry season in South East Sulawesi
SMAR/2006/096	Scaling-up herd management strategies in crop-livestock systems in Lombok, Indonesia
SMAR/2006/080	West Timor integrated timber–forage–livestock agroforestry (scoping study)
SMAR/2006/061	Building capacity in the knowledge and adoption of Bali cattle improvement technology in South Sulawesi
SMAR/2006/011	Enterprise development, value chains and evaluation of non-timber forest products for agroforestry systems in West Timor, Flores, Sumba and Savu, eastern Indonesia
SMAR/2006/003	Integrating forage legumes into the maize cropping systems of West Timor
SMAR/2005/074	Improving cocoa production through farmer involvement in demonstration trials of potentially superior and pest/disease resistant genotypes and integrated management practices
Kiribati	
AH/2001/054	The identification of constraints and possible remedies to livestock production by zoonotic diseases in the South Pacific
FIS/2001/036	Maximising the economic benefits to Pacific Island Nations from management of migratory tuna stocks
FIS/1997/031	Pearl oyster resource development in the western Pacific

Lao PDR	
ASEM/2006/060	Lao Agricultural Research Fund (LARF)
ASEM/2005/124	Extension approaches to scaling out livestock production in northern Lao PDR
ASEM/2005/008	Lao Agricultural Research Fund (LARF) Pilot
AH/2006/161	Management of pig associated zoonosis in the Lao PDR
AH/2006/159	Best practice health and husbandry of cattle and buffalo in Lao PDR
AH/2006/155	Vaccine business development in Lao PDR
AH/2006/025	Understanding livestock movement and the risk of spread of transboundary animal diseases
AH/2003/001	Management of CSF and FMD at the village level in Lao PDR
CIM/2006/041	Increased productivity and profitability of rice-based lowland cropping systems in Lao PDR
FIS/2006/183	Development of fish passage criteria for floodplain species of central Lao PDR
FIS/2006/137	Analyses of three databases of fisheries data from the Mekong River
FIS/2005/078	Culture-based fisheries development in Lao PDR
FST/2005/100	Value adding to Lao PDR plantation timber products
FST/2004/057	Enhancing on-farm incomes through improved silvicultural management of teak and paper mulberry plantations in Luang Prabang Province of Lao PDR
FST/2002/112	Domestication of <i>Meliaceae</i> species in South-East Asia and Australia, particularly management of the problem of <i>Hypsipyla robusta</i> attack
PLIA/2000/165	Facilitating farmer uptake of ACIAR project results: World Vision collaborative program
Marshall Islands	
FIS/2001/036	Maximising the economic benefits to Pacific Island Nations from management of migratory tuna stocks
Nauru	
FIS/2001/036	Maximising the economic benefits to Pacific Island Nations from management of migratory tuna stocks
Nepal	
CIM/1999/064	Lentil and Lathyrus in the cropping systems of Nepal: improving crop establishment and yield of relay and post-rice-sown pulses in the terai and mid-hills
Pakistan	
HORT/2005/160	Increasing citrus production in Pakistan and Australia through improved orchard management techniques
HORT/2005/157	Optimising mango supply chains for more profitable horticultural agri-enterprises in Pakistan and Australia

HORT/2005/153	Development of integrated crop management practices to increase sustainable yield and quality of mangoes in Pakistan and Australia
LWR/2005/144	Optimising canal and groundwater management to assist water user associations in maximising crop production and managing salinisation
LWR/2005/059	Modelling water and solute processes and scenarios for optimisation of permanent raised bed systems in China, India, Pakistan and Indonesia
LWR/2004/035	Technology for direct drilling into rice and other heavy stubbles in Pakistan and Australia
LWR/2002/034	Refinement and adoption of permanent raised bed technology for the irrigated maize–wheat cropping system in Pakistan
LWR/2000/013	Sustainable agriculture in saline environments through serial biological concentration
LPS/2005/132	Improving dairy production in Pakistan through improved extension services
PLIA/2006/136	Economic and policy constraints affecting the development of small scale dairy farmers in Pakistan
	Palau
FIS/2001/036	Maximising the economic benefits to Pacific Island Nations from management of migratory tuna stocks
	Papua New Guinea
ASEM/2006/129	Early warning and drought preparedness for improved management of crop production in Papua New Guinea
ASEM/2006/127	Commercial sector/smallholder partnerships for improving incomes in the oil palm and cocoa industries in Papua New Guinea
ASEM/2006/068	Analytical equipment in support of the ACIAR/Unitech Postgraduate Scholarship Scheme
ASEM/2006/035	Improving marketing efficiency, postharvest management and value addition of sweet potato in Papua New Guinea
ASEM/2006/023	Re-commercialisation of the Papua New Guinea pyrethrum industry and improving harvested yields in Australia
ASEM/2005/094	Improving the profitability of village broiler production in Papua New Guinea
ASEM/2004/077	Postgraduate Scholarship Scheme for Unitech, University of Lae, Papua New Guinea
ASEM/2004/042	Assessing and extending schemes to enhance the profitability of the Papua New Guinea coffee industry via price premiums for quality
ASEM/2004/017	Assessment and improvement of quality management during postharvest processing and storage of coffee in Papua New Guinea
ASEM/2004/011	Evaluating domestic tuna fisheries projects
ASEM/2003/015	Enhancing Papua New Guinea smallholder cocoa production through greater adoption of disease control practices

ASEM/2002/014	Improving productivity and the participation of youth and women in the Papua New Guinea cocoa, coconut and oil palm industries
ASEM/2001/016	Microbial contaminants associated with sago processing and storage in Papua New Guinea
AH/2006/157	Animal health surveillance systems for Papua New Guinea
AH/2001/054	The identification of constraints and possible remedies to livestock production by zoonotic diseases in the South Pacific
CP/2006/063	Integrated pest management for Finschhafen disorder of oil palm in Papua New Guinea
CP/2006/017	Management of <i>Eumetopina flavipes</i> : the vector of ramu stunt disease of sugarcane in Papua New Guinea
CP/2004/071	Reducing pest and disease impact on yield in selected Papua New Guinea sweet potato production systems
CP/2004/064	Biological control of 'mile-a-minute' (<i>Mikania micrantha</i>) in Papua New Guinea and Fiji
CP/2003/042	Fruit fly management in Papua New Guinea
CP/2003/029	Management of potato late blight in Papua New Guinea
CP/2000/044	Taro beetle management in Papua New Guinea and Fiji
FIS/2006/138	Developing aquaculture based livelihoods in the Pacific Islands region and tropical Australia
FIS/2005/096	Assessment of the impact of the Papua New Guinea purse seine fishery on tuna stocks, with special focus on the impact of fish aggregation devices (FADs)
FIS/2004/065	Culture of promising indigenous fish species and bioremediation for barramundi aquaculture in northern Australia and Papua New Guinea
FIS/2001/083	Inland aquaculture in Papua New Guinea: improving fingerling supply and fish nutrition for smallholder farms
FIS/2001/036	Maximising the economic benefits to Pacific Island Nations from management of migratory tuna stocks
FST/2006/120	Increasing downstream value adding in Papua New Guinea's forest and wood products industry
FST/2006/088	Promoting diverse fuelwood production systems in Papua New Guinea
FST/2006/048	Processing of <i>Canarium indicum</i> nuts: adapting and refining techniques to benefit farmers in the South Pacific
FST/2004/061	Assessment, management and marketing of goods and services from cutover native forests in Papua New Guinea
FST/2004/055	Domestication and commercialisation of <i>Canarium indicum</i> in Papua New Guinea
FST/2004/050	Value-adding to Papua New Guinea agroforestry systems
FST/2004/009	Facilitating the availability and use of improved germplasm for forestry and agroforestry in Papua New Guinea

FST/2003/049	Review of portable sawmills in the Pacific: identifying the factors for success
HORT/2006/106	Screening and field trials of high-carotenoid sweet potatoes in Solomon Islands and Papua New Guinea to improve human vitamin A status
HORT/2006/055	Developing the ornamentals industry in the Pacific: an opportunity for income generation
PLIA/2007/096	The policy environment in Papua New Guinea and its impact on the adoption of the outputs of past ACIAR projects
SMCN/2006/031	Analysis of nutritional constraints to cocoa production in Papua New Guinea
SMCN/2004/067	Soil fertility management in the Papua New Guinea highlands for sweet potato based cropping systems
SMCN/2004/041	Productivity and marketing enhancement for peanut in Papua New Guinea and Australia
SMCN/2003/010	Farmer evaluation and multiplication of sweet potato varieties on the North Coast of Papua New Guinea
SMCN/2000/046	Overcoming magnesium deficiency in oil palm crops on volcanic ash soils of Papua New Guinea
	Philippines
ASEM/2006/091	Enhancing tree seedling supply via economic and policy changes in the Philippines nursery sector
ASEM/2003/052	Improving financial returns to smallholder tree farmers in the Philippines
ASEM/2003/009	Bridging the gap between seasonal climate forecasts and decision makers in agriculture
ASEM/2002/051	Sustaining and growing landcare systems in the Philippines and Australia
FIS/2007/045	Evaluation of production technology, product quality and market potential for the development of bivalve mollusc aquaculture in the Philippines
FIS/2003/033	Integrated fisheries resource management (Rinconada Lakes, Philippines and NSW Australia)
FIS/2002/077	Improved hatchery and growout technology for marine finfish in the Asia–Pacific region
HORT/2007/067	Improved domestic profitability and export competitiveness of selected fruit value chains in the southern Philippines and Australia
HORT/2007/066	Enhanced profitability of selected vegetable value chains in the southern Philippines and Australia
HORT/2007/032	Detection surveys for mango seed and pulp weevils in Sarangani and Davao del Sur, Mindanao, Philippines – Phase 2
HORT/2006/111	Managing trade risks arising from the use of crop protection chemicals in horticultural crops in the Philippines and Australia

HORT/2006/006	Development of an embryo culture manual and an embryo transplanted technique for coconut germplasm movement and seedling production of elite coconut types
HORT/2003/071	Integrated pest management and supply chain improvement for mangoes in the Philippines and Australia
HORT/2001/049	Development of PRSV-P resistant papaya genotypes by introgression of genes from wild <i>Carica</i> species
SMCN/2004/078	Evaluation and adoption of improved farming practices on soil and water resources, Bohol Island, the Philippines
SMCN/2004/069	Minimising agricultural pollution to enhance water quality in Laguna de Bay (Philippines) and Mt Lofty Ranges (Australia)
SMCN/2003/011	Herbicide use strategies and weed management options in Filipino and Australian cropping
SMCN/2003/006	Enhancing agricultural production in the Philippines by sustainable use of shallow groundwater
Samoa	
FIS/2006/138	Developing aquaculture-based livelihoods in the Pacific Islands region and tropical Australia
FIS/2001/036	Maximising the economic benefits to Pacific Island Nations from management of migratory tuna stocks
FST/2004/054	Improving value and marketability of coconut wood
HORT/2006/109	The potential for increasing the value of cocoa industries in Solomon Islands, Vanuatu, Fiji and Samoa
HORT/2006/053	Evaluation of the impact of Dasheen mosaic virus on and other viruses on taro yield
HORT/2004/063	Integrated pest management in a sustainable production system for Brassica crops in Fiji and Samoa
HORT/2001/023	Horticulture industry development for market-remote communities
Solomon Islands	
ASEM/2004/011	Evaluating domestic tuna fisheries projects
FIS/2006/138	Developing aquaculture based livelihoods in the Pacific Islands region and tropical Australia
FIS/2001/036	Maximising the economic benefits to Pacific Island Nations from management of migratory tuna stocks
FIS/1997/031	Pearl oyster resource development in the western Pacific
FST/2007/020	Improving silvicultural and economic outcomes for community timber plantations in the Solomon Islands by interplanting with <i>Flueggea flexuosa</i> and other Pacific agroforestry species
FST/2004/055	Domestication and commercialisation of <i>Canarium indicum</i> in Papua New Guinea

FST/2003/049	Review of portable sawmills in the Pacific: identifying the factors for success
HORT/2006/109	The potential for increasing the value of cocoa industries in Solomon Islands, Vanuatu, Fiji and Samoa
HORT/2006/106	Screening and field trials of high-carotenoid sweet potatoes in Solomon Islands and Papua New Guinea to improve human vitamin A status
HORT/2004/030	Control of Asian honeybees in the Solomon Islands
HORT/2003/047	Improved plant protection in the Solomon Islands
LPS/2003/054	Feeding village poultry in the Solomon Islands
Republic of South Africa	
FST/2003/002	Development and evaluation of sterile triploids and polyploid breeding methodologies for commercial species of Acacia in Vietnam, South Africa and Australia
LPS/2008/013	Can we segment the South African market for beef palatability?
LPS/2004/022	Pasture development for community livestock production in the Eastern Cape Province of South Africa
LPS/2002/081	Development of emerging farmer crop–livestock systems in northern South Africa
LPS/1999/036	Developing profitable beef business systems for previously disadvantaged farmers in South Africa
South Pacific general	
ADP/2005/140	Participatory needs assessment for capacity building in extension (Pacific Islands)
Thailand	
AGB/2002/012	Technical change in Thai and Indonesian agriculture: measurement, socio-economic impact and policy implications
ADP/2000/004	International food safety regulation and processed food exports from developing countries: A comparative study of India and Thailand
CIM/2007/215	Improving the reliability of rainfed, rice/livestock-based farming systems in North East Thailand
CIM/2006/041	Increased productivity and profitability of rice-based lowland cropping systems in Lao PDR
CP/2006/170	Plant biosecurity: Technological research and training for improved pest diagnostics in Thailand and Australia
FIS/2006/183	Development of fish passage criteria for floodplain species of central Lao PDR
FIS/2006/144	Strengthening regional mechanisms to maximise benefits to smallholder shrimp farmer groups adopting better management practices (BMPs)
FIS/2005/078	Culture-based fisheries development in Lao PDR
FIS/2002/111	Culture, capture conflicts: sustaining fish production and livelihoods in Indonesian reservoirs

FIS/2002/077	Improved hatchery and growout technology for marine finfish in the Asia–Pacific region
FIS/2002/075	Application of PCR for improved shrimp health management in the Asian region
FST/2002/112	Domestication of <i>Meliaceae</i> species in Sout-East Asia and Australia, particularly management of the problem of <i>Hypsipyla robusta</i> attack
PLIA/2000/165	Facilitating farmer uptake of ACIAR project results: World Vision collaborative program
Tonga	
AH/2001/054	The identification of constraints and possible remedies to livestock production by zoonotic diseases in the South Pacific
FIS/2006/172	Winged oyster pearl industry development in Tonga
FIS/2006/138	Developing aquaculture-based livelihoods in the Pacific Islands region and tropical Australia
HORT/2006/173	Tongan tropical fruit production – improving genetic diversity and production capacity building
HORT/2006/108	The potential for tropical fruits production in Tonga – a feasibility and constraints analysis
HORT/2003/046	Integrated control of powdery mildew and other disease, weed and insect problems in squash in Tonga and Australia
LPS/2006/149	Using local feeds to reduce the cost of pig and poultry production in Tonga
Tuvalu	
FIS/2001/036	Maximising the economic benefits to Pacific Island Nations from management of migratory tuna stocks
Vanuatu	
FIS/2006/138	Developing aquaculture-based livelihoods in the Pacific Islands region and tropical Australia
FIS/2001/036	Maximising the economic benefits to Pacific Island Nations from management of migratory tuna stocks
FST/2007/057	Socio-economic constraints to smallholder sandalwood in Vanuatu
FST/2006/118	Sandalwood inventory
FST/2006/048	Processing of <i>Canarium indicum</i> nuts: adapting and refining techniques to benefit farmers in the South Pacific
FST/2005/089	Improved silvicultural management of <i>Endospermum medullosum</i> (whitewood) for enhanced plantation forestry outcomes in Vanuatu
FST/2004/053	Establishing forest pest detection systems in South Pacific countries and Australia
HORT/2006/109	The potential for increasing the value of cocoa industries in Solomon Islands, Vanuatu, Fiji and Samoa
Vietnam	
AGB/2005/113	Structural adjustment implications of trade liberalisation in Vietnam

ADP/2003/060	Implementation of rodent management in intensive irrigated rice production systems in Indonesia and Vietnam
ADP/2001/066	Strengthening agricultural market information activities in Vietnam
AH/2004/040	The epidemiology, pathogenesis and control of highly pathogenic avian influenza (HPAI) in ducks in Indonesia and Vietnam
CP/2007/211	Research issues on the brown planthopper / virus problem in rice in Vietnam
CP/2007/187	Technical support facility for commercialisation of protein bait production in north Vietnam
CP/2007/123	Scoping study to identify agricultural R&D needs and opportunities of rural upland communities in north-western Vietnam
CP/2006/113	Scoping study to review the role of women and assess constraints in the production of indigenous Vietnamese vegetables
CP/2006/112	Increasing the safe production, promotion and utilisation of indigenous vegetables by women in Vietnam and Australia
CP/2006/084	Targeting crop protection research and development towards social change amongst ethnic minority communities in central Vietnam
CP/2006/083	Effective phosphine fumigation – technology transfer
CP/2006/066	Improving productivity and fruit quality of sweet persimmon in Vietnam and Australia
CP/2002/115	Diseases of crops in the central provinces of Vietnam: diagnosis, extension and control
CP/2002/086	Improving postharvest quality of temperate fruits in Vietnam and Australia
CP/2000/043	Huanglongbing management for Indonesia, Vietnam and Australia
CP/1998/005	Managing pest fruit flies to increase production of fruit and vegetable crops in Vietnam
FIS/2006/144	Strengthening regional mechanisms to maximise benefits to smallholder shrimp farmer groups adopting better management practices (BMPs)
FIS/2006/099	Capacity building and technology transfer in applied population genetics of aquatic species in the south of Vietnam
FIS/2005/115	Improving capability for shrimp virus PCR testing laboratories in Vietnam
FIS/2005/114	Building bivalve hatchery production capacity in Vietnam and Australia
FIS/2002/077	Improved hatchery and growout technology for marine finfish in the Asia–Pacific region
FIS/2002/068	Improving feeds and feeding for small scale aquaculture in Vietnam and Cambodia
FIS/2001/058	Sustainable tropical spiny lobster aquaculture in Vietnam and Australia
FIS/2000/065	Assessing the potential for low cost formulated diets for mud crab aquaculture in Australia, Indonesia and Vietnam
FIS/2000/018	The economics of developing reservoir aquaculture in Vietnam

FST/2003/002	Development and evaluation of sterile triploids and polyploid breeding methodologies for commercial species of <i>Acacia</i> in Vietnam, South Africa and Australia
FST/2002/112	Domestication of <i>Meliaceae</i> species in South-East Asia and Australia, particularly management of the problem of <i>Hypsipyla robusta</i> attack
FST/2001/021	Improving the value chain for plantation-grown eucalypt sawn wood in China, Vietnam and Australia: sawing and drying
FST/1999/095	Improving the value chain for plantation-grown eucalypt sawn wood in China, Vietnam and Australia: genetics and silviculture
LPS/2004/073	Capacity building on cattle production at Dong Giang district, Quang Nam province, Vietnam
LPS/2002/079	Utilisation of local ingredients in commercial feeds for pigs
LPS/2002/078	Improved beef production in central Vietnam
PLIA/2007/094	Policy, institutional and economic constraints to aquaculture research adoption in Vietnam
PLIA/2000/165	Facilitating farmer uptake of ACIAR project results: World Vision collaborative program
SMCN/2003/035	Improving the utilisation of water and soil resources for tree crop production in coastal areas of Vietnam and New South Wales
SMCN/2002/085	Utilising basic soil data for the sustainable management of upland soils in Vietnam and Australia
SMCN/2002/073	Efficient nutrient use in rice production in Vietnam achieved using inoculant biofertilisers
SMCN/2002/015	Managing groundwater access in Tay Nguyen (Central Highlands) Vietnam

Multilateral projects

Multilateral projects, those that have an International Agricultural Research Centre as the project leader (commissioned organisation) and are active in a single country are included in this list only, not in the country list above.

ADP/2004/044	Economic analysis of technical barriers limiting agricultural trade of China
ADP/2004/045	Exploring alternative futures for agricultural knowledge, science and technology (KST)
ADP/2005/066	Markets for high-value commodities in Indonesia: promoting competitiveness and inclusiveness
AGB/2006/115	Linking vegetable farmers with markets in West and Central Java, Indonesia
AH/1998/054	Poverty alleviation and food security through improving the sweet potato – pig systems in Indonesia
AH/2004/046	Forage legumes for supplementing village pigs in Lao PDR
ASEM/2004/047	Sustainable management of coffee green scales in Papua New Guinea
CIM/1999/062	Improving the quality of pearl millet residues for livestock

CIM/2002/106	Fertilisation-independent formation of embryo, endosperm and pericarp for apomictic hybrid rice
CIM/2003/066	Enhancing the adoption of improved cassava production and utilisation systems in Indonesia and East Timor
CIM/2003/067	Ensuring productivity and food security through sustainable control of yellow rust of wheat in Asia
CIM/2004/003	Plant health management for faba bean, chickpea and lentils
CIM/2004/004	Plant genetic resource conservation, documentation and utilisation in central Asia and the Caucasus
CIM/2004/024	Better crop germplasm and management for improved production of wheat, barley and pulse and forage legumes in Iraq
CIM/2006/176	Developing molecular markers to enable selection against chalk in rice
CIM/2007/065	Sustainable wheat and maize production in Afghanistan
CP/2004/048	Integrated disease management (IDM) for anthracnose, <i>Phytophthora</i> blight and whitefly transmitted geminiviruses in chilli pepper in Indonesia
CP/2005/075	Integrated soil and crop management for rehabilitation of vegetable production in the tsunami-affected areas of NAD Province, Indonesia
CP/2005/136	Mitigating the threat of banana <i>Fusarium</i> wilt: understanding the agroecological distribution of pathogenic forms and developing disease management strategies
CP/2006/114	Managing cocoa pod borer in Papua New Guinea through improved risk incursion management capabilities, IPM strategies and stakeholder participatory training
CP/2007/111	Incursion prevention and management of coffee berry borer (CBB) in Papua New Guinea and Indonesia (South Sulawesi and Papua)
FIS/2003/051	Improving sustainability and profitability of village sea cucumber fisheries in Solomon Islands
FIS/2003/059	Sea ranching and restocking sandfish (<i>Holothuria scabra</i>) in Asia–Pacific
FIS/2007/117	Review of sandfish pond-culture progress in Vietnam
FST/2001/105	Can decentralisation work for forests and the poor? Policy research to promote sustainable forest management, equitable economic development, and secure local livelihoods in Indonesia
FST/2005/177	Improving economic outcomes for smallholders growing teak in agroforestry systems in Indonesia
FST/2007/119	Mahogany and teak furniture: action research to improve value chain efficiency and enhance livelihoods
HORT/2005/077	Integrated crop management package for sustainable smallholder gardens in Solomon Islands
HORT/2005/134	The use of pathogen-tested planting materials to improve sustainable sweet potato production in Solomon Islands and Papua New Guinea
LPS/2005/063	Improving the competitiveness of pig producers in an adjusting Vietnam market

LWR/2003/026	Water allocation in the Krishna River Basin to improve water productivity in agriculture
PLIA/2000/039	Impact of migration and/or off-farm employment on roles of women and appropriate technologies in Asian and Australian mixed farming systems
SMCN/2000/173	Improved fertiliser recommendations and policy for dry regions of southern Africa
SMCN/2006/013	Increasing food security and farmer livelihoods through enhanced legume cultivation in the Central Dry Zone of Burma

Note on Project Information for 2007–08

The Support for Market-Driven Adoptive Research (SMAR) is a subprogram of the Australia–Indonesia Partnership for Reconstruction and Development. The purpose of SMAR is to develop strengthened province-based agricultural R&D capacity that is market and client-driven and effectively transferring knowledge to end-users. A feature of this subprogram is integration with other subprograms on enhanced smallholder production and marketing and strengthened private sector agribusiness development.

Appendix 4: ACIAR publications 2007–08

New Publications

Monographs	
119b	<i>Guidelines for surveillance for plant pests in Asia and the Pacific [Vietnamese translation]</i> . Teresa McMaugh, Vietnamese translation by Phan Thuy Hien, 2008, 192 pp.
119c	<i>Guidelines for surveillance for plant pests in Asia and the Pacific [Thai translation]</i> . Teresa McMaugh, Thai translation by Yupa Hanboonsong, 2008, 199 pp.
120a	<i>Better-practice approaches for culture-based fisheries development in Asia [Lao translation]</i> . Sena S. Silva, Upali S. Amarasinghe and Thuy T.T. Nguyen, 2008, 105 pp.
120b	<i>Better-practice approaches for culture-based fisheries development in Asia [Vietnamese translation]</i> . Sena S. Silva, Upali S. Amarasinghe and Thuy T.T. Nguyen, 2008, 96 pp.
128	<i>Quality management of fresh produce from the highlands of Papua New Guinea: a postharvest manual</i> . Vincent Haguluha and Ernest Natera, ed. by John Spriggs, 2007, 86 pp.
129	<i>Diagnostic manual for plant diseases in Vietnam</i> . Lester W. Burgess, Timothy E. Knight, Len Tesoriero and Hien Thuy Phan, 2008, 210 pp.
130	<i>Soil Constraints and Management Package (SCAMP): guidelines for sustainable management of tropical upland soils</i> . P.W. Moody and P.T. Cong, 2008, 85 pp.
131	<i>Integrated pest and disease management for sustainable cocoa production: a training manual for farmers and extension workers</i> . John Konam, Yak Namaliu, Rosalie Daniel and David Guest, 2008, 36 pp.
132	<i>TaroPest: an illustrated guide to pests and diseases of taro in the South Pacific</i> . Amy Carmichael, Rob Harding, Grahame Jackson, Sarlesh Kumar, Sada Lal, Roy Masamdu, Jacqui Wright and Anthony Clarke, 2008, 76 pp.
133	<i>Overcoming liver fluke as a constraint to ruminant production in South-East Asia</i> . G.D. Gray, R.S. Copland and D.B. Copeman (eds), 2008, 155 pp.
Proceedings	
126	<i>Integrated rural development in East Nusa Tenggara, Indonesia</i> . S. Djoeroemana, B. Myers, J. Russell-Smith, M. Blyth and E.I.T. Salean (eds), 2007, 196 pp.
127	<i>Permanent beds and rice-residue management for rice–wheat systems in the Indo-Gangetic Plain</i> . E. Humphreys and C.H. Roth (eds), 2008, 192 pp.

Technical Reports	
67	<i>Grassland degradation on the Tibetan Plateau: the role of small mammals and methods of control.</i> Anthony D. Arthur, Roger P. Pech, Jiebu, Zhang Yanming and Lin Hui, 2007, 35 pp.
68	<i>Economic potential of land-use change and forestry for carbon sequestration and poverty reduction.</i> Oscar Cacho, Robyn Hean, Kirsfianti Ginoga, Russell Wise, Deden Djaenudin, Mega Lugina, Yuliana Wulan, Subarudi, Betha Lusiana, Meine van Noordwijk and Ni'matul Khasanah, 2008, 98 pp.
69	<i>Achieving food security in China: implications of World Trade Organization accession.</i> Chunlai Chen and Ron Duncan, 2008, 67 pp.
Working Papers	
59a	<i>A survey of the mineral status of livestock in the Tibet Autonomous Region of China [Mandarin translation].</i> Nyima Tashi, Luo Xugang, Yu Shunxiang and Geoff Judson, 2008, 36 pp.
Impact Assessment Series Reports	
52	<i>Breeding and feeding pigs in Vietnam: assessment of capacity building and an update on impacts.</i> Hayden Fisher and Jenny Gordon, 2008, 56 pp.
53	<i>The impact of increasing efficiency and productivity of ruminants in India by the use of protected-nutrient technology.</i> Michael Monck and David Pearce, 2008, 32 pp.
54	<i>Impact of improved management of white grubs in peanut-cropping systems in India.</i> Michael Monck and David Pearce, 2008, 34 pp.
55	<i>ACIAR fisheries projects in Indonesia: review and impact assessment.</i> G. Martin, 2008, 75 pp.
56	<i>A review and impact assessment of ACIAR's fruit-fly research partnerships, 1984–2007.</i> Bob Lindner and Paul McLeod, 2008, 164 pp.
57	<i>Management of internal parasites in goats in the Philippines.</i> N.D. Montes, N.R. Zapata Jr, M. Alo and J.D. Mullen, 2008, 44 pp.
58	<i>Guidelines for assessing the impacts of ACIAR's research activities.</i> Jeff Davis, Jenny Gordon, David Pearce and Debbie Templeton, 2008, 120 pp.
Final Reports	
2007-01 [AH/2006/164]	<i>Future directions for animal health services in Indonesia.</i> Helen Scott-Orr, Bruce Christie and Tristan Jubb, 2007, 29 pp. http://www.aciar.gov.au/node/3508
2007-02 FST/2005/049]	<i><u>Mastotermes darwiniensis</u> in the Lae area of PNG.</i> B.M. Thistleton, M. Neal, M. Peki and J. Dobunaba, 2007, 50 pp. http://www.aciar.gov.au/node/3945
2007-03 [SMAR/2007/229]	<i>Options for teak industry development in South East Sulawesi, Indonesia.</i> S. Midgley, A. Rimbawanto, Mahfudz, A. Fuazi and A. Brown, 2007, 41 pp. http://www.aciar.gov.au/node/3870
2007-04 [PLIA/2007/019]	<i>A review of the future prospects for the world coconut industry and past research in coconut production and product.</i> Bob Warner, Derek Quirke, Chloe Longmore, 2007, 89 pp. http://www.aciar.gov.au/node/3938

2007-05 [SMAR/2007/228]	<i>Improving lobster grow-out and nutrition in West Nusa Tenggara—a feasibility study.</i> Clive Jones, Made Susastika, Fatuchri Sukadi, Arif Surahman, 2007, 23 pp. http://www.aciar.gov.au/node/3946
2007-06 [ASEM/2005/062]	<i>The vegetable industry in the Philippines.</i> P.J. Batt, S. Concepcion, K. Dagupen, M.C. Lizada, R. Murray-Prior, 2007, 63 pp. http://www.aciar.gov.au/node/4189
2007-07 [PLIA/2005/148]	<i>Papua New Guinea coffee and cocoa policy linkages.</i> Derek Quirke, Matthew Harding, Bob Warner, 2007, 74 pp. http://www.aciar.gov.au/node/3940
2007-08 [PLIA/2005/159]	<i>A constraints analysis of mango supply chain improvement in Pakistan.</i> R. Collins, T. Dunne, J. Campbell, P. Johnson, A.U. Malik, 2007, 39 pp. http://www.aciar.gov.au/node/3939
2007-09 [PLIA/2006/180]	<i>Happy Seeder policy linkage scoping study.</i> P. Pagan, R.P. Singh, 2007, 33 pp. http://www.aciar.gov.au/node/5019
2007-10 [SMAR/2007/042]	<i>Vegetable value chains in eastern Indonesia—a focus on chilli.</i> B. White, P. Morey, R. Natawidjaja and W. Morgan, 2007, 73 pp. http://www.aciar.gov.au/node/3943
2007-11 [SMAR/2007/200 – Part 1]	<i>Securing the profitability of the Flores coffee industry.</i> Tony Marsh, Jeff Neilson and Surip Mawardi, 2007, 23 pp. http://www.aciar.gov.au/node/3942
2007-12 [SMAR/2007/200 – Part 2]	<i>Securing the profitability of the Toraja coffee industry.</i> Tony Marsh and Jeff Neilson, 2007, 38 pp. http://www.aciar.gov.au/node/3942
2007-13 [SMAR/2007/209]	<i>The citrus market in Indonesia—an eastern Indonesian perspective.</i> Phillip Morey, 2007, 44 pp. http://www.aciar.gov.au/node/3944
2007-14 [PLIA/2006/012 Part 1]	<i>Livestock health and vaccines in Cambodia and Laos.</i> Matthew Harding, Robert Warner, David Kennedy, 2007, 119 pp. http://www.aciar.gov.au/node/5195
2007-15 [PLIA/2006/012 Part 2]	<i>Cattle and buffalo in Cambodia and Laos: the economic and policy environment for smallholders.</i> Matthew Harding, Derek Quirke, Robert Warner, 2007, 98 pp. http://www.aciar.gov.au/node/5196
2007-16 [ASEM/2001/037]	<i>Improving the marketing system for fresh produce of the highlands of PNG.</i> John Spriggs and Barbara Chambers, 2007, 67 pp. http://www.aciar.gov.au/node/8457
2008-01 [AH/2006/163]	<i>Assessment of zoonotic diseases in Indonesia.</i> Nigel Perkins, Ian Patrick, Mahomed Patel and Stan Fenwick, 2008, 100 pp. http://www.aciar.gov.au/node/6987
2008-02 [LWR/2005/042]	<i>Scoping study to assess the technical and economic feasibility of wheat production in southern Bangladesh.</i> P. Carberry, M. Saifuzzaman, H.M. Rawson, M.A. Sufian, A.B.S. Hossain, N.P. Dalgliesh, 2008, 44 pp. http://www.aciar.gov.au/node/7189
2008-03 [PLIA/2005/151]	<i>Philippine policy linkages scoping study.</i> A.M. Balisacan, S. Cuthbertson, M.A. Sombilla, J. Corbishley, 2008, 44 pp. http://www.aciar.gov.au/node/7051

2008-04 [AH/2005/107]	<i>Food safety research in Indonesia: a scoping study and ACIAR's response.</i> Roger Morris and ACIAR, 2008, 67 pp. http://www.aciar.gov.au/node/7097
2008-05 [LWR/2000/089]	<i>Permanent beds for irrigated rice–wheat and alternative cropping systems in north-west India and south-east Australia.</i> Liz Humphreys, Geoff Beecher, Yadvinder Singh, S.S. Kukal, H.S. Sidhu, Jagadish Timsina, John Blackwell, David Smith, Rajinder Pal Singh, 2008, 69 pp. http://www.aciar.gov.au/node/7190
2008-06 [AH/2006/155]	<i>Vaccine business development in the Lao PDR.</i> David Kennedy, Scott Williams, Stephen Page, Nancy Bourgeois-Lüthi and Richard Bevan, 2008, 139 pp. http://www.aciar.gov.au/node/7316
2008-07 [SMCN/1998/028]	<i>Yam nutrition and soil fertility management in the Pacific.</i> Jane O'Sullivan, James Ernest, Marie Melteras, Siosuia Halavatau, Philip Holzknacht and Jimmy Risimeri, 2008, 143 pp. http://www.aciar.gov.au/node/8448
2008-08 [FST/2006/118]	<i>An inventory of wild sandalwood stocks in Vanuatu.</i> David Gillieson, Tony Page and Jeffrey Silverman, 2008, 56 pp. http://www.aciar.gov.au/node/8439
2008-09 [PLIA/2007/050]	<i>Policy, institutional and economic constraints to aquaculture research adoption in Vietnam.</i> Elizabeth Petersen, Nguyen Xuan Suc and Hien Thi Tran, 2008, 21 pp. http://www.aciar.gov.au/node/8458
2008-10 [AH/2006/077]	<i>Identifying research priorities for the development for the beef industry in Cambodia and Lao PDR with special reference to animal health interventions.</i> Peter Windsor, Suon Sothoeun and Syseng Khounsey, 2008, 11 pp. http://www.aciar.gov.au/node/8474
2008-11 [HORT/2006/055]	<i>Developing the ornamentals industry in the Pacific: an opportunity for income generation.</i> Andrew M. McGregor, Kyle Stice, Aileen Burness and Mary Taylor, 2008, 182 pp. http://www.aciar.gov.au/node/8484
2008-12 [LWR/2005/059]	<i>Modelling water and solute processes and scenarios for optimisation of permanent raised bed systems in China, India, Pakistan and Indonesia.</i> Freeman J. Cook, John H. Knight, Elizabeth Humphreys, Judy Tisdall, JackMcHugh, Greg Hamilton, 2008, 105 pp. http://www.aciar.gov.au/node/8491
2008-13 [SMAR/2007/197 – Part 1]	<i>The potential for cashews in eastern Indonesia.</i> Ian Baker, Julian Witjaksono, 2008, 16 pp. http://www.aciar.gov.au/node/8508
2008-14 [SMAR/2007/197 – Part 2]	<i>The potential for mangoes in eastern Indonesia</i> Ian Baker, Muji Rahayu, Herman Suheri, Mursal, 2008, 20 pp. http://www.aciar.gov.au/node/8509
2008-15 [SMAR/2007/197 – Part 3]	<i>The potential for mangosteen in eastern Indonesia</i> Ian Baker, Muji Rahayu, Herman Suheri, Mursal, 2008, 16 pp. http://www.aciar.gov.au/node/8510
2008-16 [SMAR/2007/197 – Part 4]	<i>The potential for passionfruit in eastern Indonesia</i> Ian Baker, Zulkifli Razak, Philip Karundeng, 2008, 10 pp. http://www.aciar.gov.au/node/8511

2008-17 [SMAR/2007/197 – Part 5]	<i>The potential for rambutan in eastern Indonesia</i> Clive Jones, Made Susastika, Fatuchri Sukadi, Arif Surahman, 2008, 23 pp. http://www.aciar.gov.au/node/8512
2008-18 [SMAR/2007/228a Indonesian]	<i>Studi kelayakan: Meningkatkan pembesaran dan nutrisi lobster di Nusa Tenggara Barat.</i> Clive Jones, Made Susastika, Fatuchri Sukadi, Arif Surahman, 2008, 23 pp. http://www.aciar.gov.au/node/8537
2008-19 [HORT/2006/006]	<i>Development of an embryo culture manual and an embryo transplantation technique for coconut germplasm movement and seedling production of elite coconut types.</i> Stephen W. Adkins, Erlinda Rillo and Osmundo Orense, 2008, 20 pp. http://www.aciar.gov.au/node/8578
2008-20 [AH/2007/060]	<i>A scoping study investigating opportunities for improving biosecurity on commercial poultry farms in Indonesia.</i> Ian Patrick and Tristan Jubb, 2008, 20 pp. http://www.aciar.gov.au/node/8577
2008-21 [LPS/2002/078]	<i>Improved beef production in central Vietnam.</i> Peter Doyle, Le Duc Ngoan, Clare Leddin, Nguyen Xuan Ba and Nguyen Huu Van, 2008, 54 pp. http://www.aciar.gov.au/node/8528
2008-22 [CP/2007/002]	<i>Establishment of fruit fly pest-free areas.</i> S. Vijayasegaran, 2008, 17 pp. http://www.aciar.gov.au/node/8844
2008-23 [CP/2007/211]	<i>Research and implementation issues related to management of the brown planthopper / virus problem in rice in Vietnam.</i> K.L. Heong, M.M. Escalada, Nguyen Huu Huan, Ho Van Chien, Il Ryong Choi, Yolanda Chen and Roger Cabunagan, 2008, 30 pp. http://www.aciar.gov.au/node/8846
2008-24 [CP/2006/084]	<i>Targeting crop protection R&D towards social change amongst ethnic minority communities in central Vietnam.</i> Elske van de Fliert, Pradip Thomas, Bronwyn Walsh and Pham Thi Vuong, 2008, 9 pp. http://www.aciar.gov.au/node/8849
2008-25 [CP/2006/113]	<i>Scoping study to investigate the role of women in the safe production, promotion and utilisation of indigenous vegetables.</i> Virginia Brunton, 2008, 23 pp, http://www.aciar.gov.au/node/8851
2008-26 [HORT/2006/108]	<i>The potential for tropical fruits production in Tonga: a feasibility and constraints analysis.</i> Patricia Chay, Yan Diczbalis, Victor O'Keefe, Rod Strahan, Viliami Kami, Lamipeti Havea, Tevita Tapaevalu and Alipate Tavo, 2008, 86 pp. http://www.aciar.gov.au/node/8866
2008-27 [HORT/2007/210 and HORT/2007/032]	<i>Detection surveys for mango seed and pulp weevils in Sarangani, Davao del Sur and Samal Island, Mindanao, Philippines.</i> Bruno Pinese, Hernai G. Golez, Leonie Wittenberg and Larry Lacson, 2008, 14 pp. http://www.aciar.gov.au/node/8868
2008-28 [AH/2006/038]	<i>Feeding papaya fruits and betel nuts to reduce parasite burdens and increase growth rate in pigs.</i> Colin Cargill, Triono Syahputra and Made Damriyasa, 2008, 11 pp. http://www.aciar.gov.au/node/8888
2008-29 [AH/2002/042]	<i>Control of Newcastle disease and identification of major constraints in village chicken production systems in Myanmar.</i> Hoerg Henning, Joanne Meers, Kyaw Sunn and Than Hla, 2008, 53 pp. http://www.aciar.gov.au/node/8890
2008-30 [CIM/1999/094]	<i>Improving the productivity and sustainability of rainfed farming systems for the western loess plateau of Gansu province, China.</i> William Bellotti, Nan Zhi Biao and Huang Gaobao, 2008, 111 pp. http://www.aciar.gov.au/node/8886

2008-31 [LWR/2007/212]	<i>Opportunities to improve land and water management practices in Bhutan.</i> Peter Cornish, 2008, 56 pp. http://www.aciar.gov.au/node/8892
2008-32 [CIM/1999/064]	<i>Lentil and Lathyrus in the cropping systems of Nepal: improving crop establishment and yield of relay and post-rice sown pulses in the terai and mid-hills.</i> C.M. Francis, S. Srivastava and R. Shrestha, 2008, 52 pp. http://www.aciar.gov.au/node/8915
2008-33 [CIM/2001/026]	<i>Drying systems to improve grain quality in north-east India.</i> Robert H. Driscoll, George Szrednicki, Ahi Bhushan Datta and Kishori Mohan Kundu, 2008, 48 pp. http://www.aciar.gov.au/node/8952
2008-34 [HORT/2006/111]	<i>Managing trade risks arising from the use of crop protection chemicals in mangoes in the Philippines.</i> Kevin P. Bodnaruk and Cristina M. Bajet, 2008, 37 pp. http://www.aciar.gov.au/node/9013
2008-35 [LWR/2006/076]	<i>Agricultural water-use efficiency in north-west China.</i> Philip Young, David Marston, Wang Jinxia and Li Xiande, 2008, 80 pp. http://www.aciar.gov.au/node/9015
ACIAR Training Manuals	
1	<i>Financial and economic research methods.</i> Steve Harrison and John Herbohn, 2008, 86 pp. http://www.aciar.gov.au/node/7333
2	<i>Research planning and management for foresters.</i> Michael Blyth, 2008, 62 pp. http://www.aciar.gov.au/node/7330
3	<i>Communicating science.</i> Paul Holford, Janne Malfroy, Paul Parker, Patricia Robinson, Wesley Ward and Patricia Kailola, 2008, 47 pp. http://www.aciar.gov.au/node/7331
4	<i>Social and community dimensions to ACIAR projects.</i> Digby Race and Joanne Millar, 2008, 33 pp. http://www.aciar.gov.au/node/7332
Corporate publications	
	<i>ACIAR Annual Report 2006–07.</i> October 2007
	<i>Working with ACIAR now and in the future: ACIAR's response to the results of a survey of international stakeholders.</i> December 2007
	<i>ACIAR Annual Operation Plan 2008–09.</i> June 2008
	<i>Adoption of ACIAR project outputs: studies of projects completed in 2003–2004.</i> David Pearce and Jeff Davis (eds), 2008, 87 pp.
	<i>Country profiles:</i> <ul style="list-style-type: none"> - China (November 2007) - Cambodia, Lao PDR, Thailand (November 2007) - Indonesia (November 2007) - Pacific islands (November 2007) - Papua New Guinea (November 2007) - Philippines (November 2007) - South Asia (November 2007) - Vietnam (November 2007)
	<i>Partners in Research for Development</i> magazine <ul style="list-style-type: none"> - November 2007 – February 2008 - March–June 2008 - July–October 2008

Appendix 5: ACIAR staffing statistics

Public Service Act 1999 employee numbers at 30 June 2008**

	Ongoing staff	Non -ongoing staff	Total
Full-time			
Male	6	10	16
Female	16	2	18
Part-time			
Male	1	0	1
Female	6	3	9
Total	29	15	44

** Excludes 3 inoperative employees

At 30 June 2008 the Centre employed 68 employees, of whom 44 are employed under the Public Service Act 1999 and are located in Canberra and 21 are at overseas missions and embassies. ACIAR has one male Chief of Division Grade 1 employee, which is equivalent to SES Band 1.

Non-Public Service Act Staff in Australia

Four people based in New South Wales provide services under contract for the Fisheries Program.

Staff turnover

Seventeen employees ceased employment with ACIAR during 2007–08. The table below shows a comparison of employee turnover over the past five years.

	03–04	04–05	05–06	06–07	07–08
Retrenched	1	1	1		1
Promotions/transfers	1	2		4	2
End of contract	1			5	6
Resigned	4	6	1	2	7
Retired	3	1	3	1	1
Leave without pay	1	1		1	
Temporary movement	0	1	1		
Total	11	12	6	13	17

Non-APS employees employed overseas at 30 June 2008

ACIAR employs 21 (20.5 FTE) contract and locally engaged staff in Australian overseas missions to provide program support locally, as detailed in the table below.

Post	Male	Female	Full-time	Part-time	Total
Bangkok	1	2	3	0	3
Beijing	1	1	2	0	2
Hanoi	2	2	3	1	4
Jakarta	2	2	4	0	4
Manila	1	2	3	0	3
New Delhi	1	2	3	0	3
Port Moresby	0	2	2	0	2
Total	8	13	20	1	21

ACIAR EEO data by classification at 30 June 2008 (all based in Canberra) (includes non-ongoing staff but excludes inoperative staff)

Classification	M	F	NESB1	NESB2	ATSI	PWD	Total
CEO	1	0	0	0	0	0	1
Chief of Division Grade 1	1	0	0	0	0	0	1
Executive Level 2 (Senior Principal Research Scientist)	9	1	3*	0	0	0	10
Executive Level 2 (other)	1	2	0	0	0	0	3
Executive Level 1	2	3	0	0	0	2*	5
APS 6	0	4	1*	1*	0	0	4
APS 5	1	5	2*	0	0	0	6
APS 4	2	9	0	1*	0	0	11
APS 3	0	1	0	0	0	1*	1
APS 2	0	1	0	0	0	0	1
Trainee	0	1	0	0	0	0	1
Total	17	27	6*	2*	0	3*	44

*not included in total adding across to final column

EEO abbreviations

NESB 1 Non-English speaking background, first generation

NESB 2 Non-English speaking background, second generation

ATSI Aboriginal and Torres Strait Islander peoples

PWD People with disabilities

Australian Workplace Agreements

At the end of June 2008 one SES equivalent employee and one non-SES employee were covered by Australian Workplace Agreements. As these reach their nominal expiry date alternate arrangements will be put in place, in line with government policy.

Breakdown of ACIAR employees by broadband

ACIAR Broadband	APS Classification	ACIAR Local Designations and Salary			Employees by classification	Ongoing/ Non-ongoing		Male/ Female						
Band 3	EL 2	EL2 (A)	Program Manager	105,162	1	1	0	0	1					
				103,042										
				100,921						Position under review				
				98,798										
				96,678										
	EL2 (B)	Unit Manager	98,409	2	2	0	1	1						
			94,760											
			91,113											
			87,466											
			83,820											
	EL 1	EL1	Manager	81,266	5	5	0	2	3					
				79,264										
				77,262										
				75,260										
Band 2	APS 6	APS 6	APS 6	67,437	4	3	1	0	4					
				65,252										
				63,071										
				60,889										
				58,706										
	APS 5	APS 5	APS 5	57,636	6	6	0	1	5					
				56,545										
				55,449										
				54,355										
	APS 4	APS 4	APS 4	52,913	11	9	2	2	9					
				51,519										
				50,127										
				48,732										
Band 1	APS 3 (includes one ACIAR trainee)	APS 3	APS 3	47,193	2	1	1	0	2					
				46,037										
				44,879										
				43,724										
	APS 2	APS 2	APS 2	42,750	1	0	1	0	1					
				41,176										
				39,782										
				38,389										
	APS 1	APS 1	APS 1	37,491	No employees at this classification									
				36,300										
35,111														
33,922														

ACIAR classification structure and salary rates

Research program manager structure

APS Classification	ACIAR Local Designations and Salary			Employees by classification	Ongoing/ Non-ongoing		Male/ Female	
EL 2 RPM Band	SPRS	Research Program Manager / Senior Principal Research Scientist	135,713	10	0	10	9	1
			131,964					
			128,214					
			124,467					
			120,717					
	PRS	Research Program Manager / Principal Research Scientist	11,765					
			114,615					
			111,461					
			108,311					
	SRS	Research Program Manager / Senior Research Scientist	105,162					
			103,042					
			100,921					
			98,798					
			96,678					

Appendix 6: Freedom of Information

The *Freedom of Information Act 1982* (FOI Act) gives individuals a means to obtain access to Government-held documents, excluding those where exemptions are in place. Government departments and agencies have reporting responsibilities under the FOI Act, in relation to FOI requests. The following statement is made in accordance with Section 8 of the Act.

ACIAR received no requests in 2007–08 regarding the supply of documents or information as prescribed under the provisions of the FOI Act. No requests are outstanding.

ACIAR received no requests, made with reference to the FOI Act, for publications produced by the Centre. The requirements of the *Privacy Act 1988* are abided by in the collection of requests for available publications and in relation to its website.

Administration of the FOI Act

Responsibility for determinations relating to the granting, withholding or deferring of access to particular documents rests with ACIAR. The Central Office of the Department of Foreign Affairs and Trade assists ACIAR in administering FOI. Returns to the Attorney General's Department are coordinated and prepared through the Centre.

ACIAR's Canberra headquarters and some overseas posts hold documents, with many pre-1990 documents being held in archival custody. These may be obtained under the *Archives Act 1983*.

Public access

No documents are held by ACIAR that are open to the public through a public register or otherwise. Publications, including scientific publications of ACIAR-supported research, can be inspected and copies obtained from the Centre's office, with many also available electronically through the ACIAR website (www.aciar.gov.au). A number of other documents are freely available online in accordance with the Government Online initiative.

Freely available documents that may be requested, and increasingly are available through the ACIAR website, include research-related publications, information sheets on projects, scientific project working papers, the annual report, *Partners in Research for Development* magazine, and brochures and fact sheets relating to ACIAR activities.

Inquiries concerning access to documents or other FOI matters should be directed to:

Chief Executive Officer
Australian Centre for International
Agricultural Research
GPO Box 1571
Canberra ACT 2601

Telephone: (02) 6217 0500

Facsimile: (02) 6217 0501

E-mail: aciarc@aciarc.gov.au

Appendix 7: Ecologically sustainable development and environmental performance

The principles of ecologically sustainable development (ESD) are outlined in the *Environment Protection and Biodiversity Conservation (EPBC) Act 1999* (section 3A). These principles underpin ACIAR's activities in meeting its obligations as specified under section 160 of the EPBC Act. The following report is provided in accordance with section 516A of the Act.

How the activities of the organisation, and the administration of legislation by the organisation, accord with the principles of ESD (s516A(6)(a))

ACIAR's guidelines for project development include triggers to ensure that any projects developed which result in significant environmental impacts follow all due processes under the EPBC Act. Organisations developing projects, either as the commissioned (lead) agency or as a collaborator, must fulfil all relevant obligations under the EPBC Act. All obligations under international arrangements to which Australia is a signatory (for example the Convention on Biological Diversity) must also be fulfilled. Processes for commissioned organisations, and where relevant collaborating organisations, when completing project proposal proformas, include the following:

1. documentation of possible negative environmental outcomes from a project, within the context of Environment Australia's *EPBC Administrative Guidelines on Significance* (EPBC Guidelines)
2. where the above outcomes may exist, project proponents must demonstrate that all relevant EPBC obligations have been fulfilled
3. all relevant obligations under international arrangements to which Australia is a signatory, specifically for biological resources, must have been met and properly documented

4. letters of approval relating to the use of experimental animals and/or GMOs must be provided, along with five letters confirming compliance with regulations relating to germplasm transfer, quarantine requirements, biosafety, etc.

Project proposals that pass these processes and meet obligations are then subject to the following:

1. in-house assessment by the relevant Research Program Manager (RPM). This determines if environmental impacts outlined in the proposal, having reference to, amongst other documents, the EPBC Guidelines, require action. If informal consultation with the EPBC Referrals Unit is required, RPMs are empowered to seek and document whether potential impacts are sufficient to warrant a formal referral through the Department of Environment and Heritage (DEH).
2. examination by ACIAR's formal In-house Review (IHR), to assess all aspects and recommend their approval. At this point, a recommendation to contact DEH to consult on potential impacts, either formally or informally, may be made. Such recommendations must then be actioned and signed off.
3. formal approval by the Chief Executive Officer (CEO), after projects have been considered by IHR. The CEO may seek further information on environmental impacts by referring the project back to management.

Training activities, both within projects and also through targeted short courses, help equip partner-country researchers with both the means and the mindset to aim for sustainability, and this is reinforced through project implementation.

How the outcomes specified in a relevant Appropriations Act contribute to ESD (s516A(6)(b))

Section 5 of the ACIAR Act outlines the mandate and functions of the Centre. This includes the formulation of policies to deliver against this mandate. Agricultural research is linked explicitly with sustainability. The link is maintained and implemented in the key planning document—the Annual Operational Plan. At the operational level project development, evaluation and monitoring delivers on this mandate. ACIAR recognises the following trends in its operating environment:

- an increasing emphasis on livelihood improvement and ecologically sustainable development
- the potential for climate change to adversely impact on terrestrial and coastal agriculture and natural systems.

There is a strategic need to respond to these factors by aligning the research program with Australian Government priorities, including the principles of ESD established under the EPBC Act. The Centre's Annual Operational Plans outline relevant research priorities that encourage more productive and sustainable agriculture in developing countries and Australia.

Effect of the organisation's activities on the environment (s516A(6)(c))

Examples of projects with environmental benefits include:

- **Fisheries**—sustainable management of marine species, including migratory tuna in the Pacific, sea cucumber in Solomon Islands, Indonesian tuna fisheries and sharks and rays in the Indian Ocean; cross-country fisheries resource management; planning tools for environmentally sustainable tropical finfish cage culturing in Indonesia and Australia; a suite of projects developing sustainable aquaculture technologies to minimise wild capture and harvest.

- **Land and Water Resources**—developing new approaches to managing and alleviating the affects of salinity and soil acidification; investigating water allocation and management strategies, including seasonal climate forecasting; assessing land suitability, crop diversification and constraints on the system; minimising pollutants in waterways in the Philippines; assessing the impacts of re-vegetation programs in China, Indonesia and Australia; developing and promoting new cropping systems for conservation agriculture.
- **Agricultural Systems Economics and Development Policy**—examining policy and institutional frameworks and their impacts on water management in China and Vietnam; bridging the gap between seasonal climate forecasts and decision makers in the Philippines; sustainable management of plantations in Papua New Guinea; minimising the use of herbicides through the development and dissemination of alternative weed management strategies in the Philippines.
- **Forestry**—improvements in breeding technologies for Australian species, such as eucalypts and acacias, widely utilised for forestry plantations in Australia and parts of Asia; enhancing disease and pest surveillance methodologies and management; improving germplasm usage and management in PNG and elsewhere; and assessing the impacts of, and benefits arising from, community–industry partnerships when engaging in plantation forestry.
- **Crop Improvement and Pest Management**—improving productivity and sustainability in farming systems through crop diversification and the use of alternative cropping methods that minimise soil disturbance and erosion; developing control and management strategies for weeds and pests threatening crop species in Asia and the Pacific, which potentially threaten Australia; the collection and conservation of unique crop and legume germplasm; and improved breeding and cropping technologies for foods.

ACIAR projects target research to address problems in developing countries that may also yield results applicable to environmental management in Australia. Such benefits are either a secondary objective or are the result of research having application within Australian settings.

Measures being taken by the organisation to minimise the impact of its activities on the environment (s516A(6)(d))

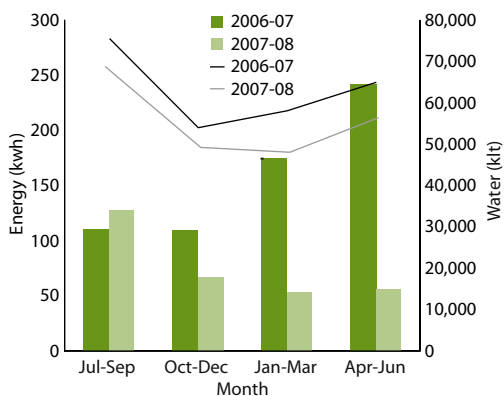
Rather than implement a formal Environmental Management System (EMS) ACIAR has chosen to adopt an informal system for managing environmental impacts. The decision to utilise an informal system, built upon the EMS framework initially circulated to Government Departments and agencies, was taken due to the Centre’s size and the most cost-effective approach available. By utilising the ‘initial environmental review’ a plan of action and subsequent follow-up actions were developed and implemented. The framework has been used to ensure environmental performance within ACIAR’s Canberra premises is as effective as possible.

As the sole building tenant ACIAR is responsible for the management of all infrastructure and implementation of policies to deliver sound environmental management at its Canberra premises. Like all Government agencies and Departments daily operations generate waste and consume electricity, water and materials. Within this context environmental management goals are as follows:

Resource	Target for 2007–08/ compared with 2006–07
Energy	Reduction in energy consumption of light and power by 15%
Waste	Reduction in waste going to landfill by 90%
Water	Reduction in water consumption by 10%
Materials	Reduction in paper usage (reams) by 20%

Resource	Usage		Target
	2006–07	2007–08	2008–09
Energy (kilowatt hours)	252,653	222,120	200,000
Water (kilolitres)	633	304	280
Paper (reams)	1015	967	880

ACIAR energy and water usage



Mechanisms, if any, for reviewing and increasing the effectiveness of these measures (s516A(6)(e))

Formal reporting guidelines on environmental management and associated activities are used for an internal review of environment management processes. These include:

- *National Government waste reduction and purchasing guidelines (2004)*
- *Environmental Purchasing Guide (2004)*
- *Environmental Purchasing Checklist (2004)*
- *Energy Use in Commonwealth Operations (annual publication)*
- *ANAO Green Office Procurement Survey.*

Specific activities undertaken in 2007–08 along with their returns include:

- **Energy**—regular monitoring for tenant use (light and power) and central services (air conditioning and mechanical

devices) has shown a reduction in kilowatt hours consumed. This was achieved through implementation of energy conservation measures, including actively encouraging staff to switch off lights and computers. Abnormal usage patterns for the air conditioning and other mechanical devices are investigated immediately, allowing prompt action. ACIAR is also investigating new servers, which are expected to be implemented early in 2008-09 and will significantly reduce kilowatt hours consumed.

ACIAR's energy usage in 2007-08 (electricity is used, no natural gas or other fuels are used) was 222,120 kilowatt hours (kwh), compared to 252,653 kwh in 2006-07. Electricity consumption comprises tenant usage (light and power) and central services (air conditioning and other mechanical devices). Ten per cent of the electricity consumed is purchased through ACTEW's Green Power initiative, with the premium for purchasing green power used to fund the development of environmentally friendly energy options.

- **Water**—water conservation strategies, combined with an increasing staff awareness of water issues, has resulted in a reduction of 52 per cent in water consumption. In 2007-08 304 kilolitres were consumed, compared to 633 kilolitres in 2006-07.

ACIAR had previously converted garden areas surrounding its building to low water-use plants, with minimal drip irrigation, monitored by a central timer. To support further water conservation ACIAR has installed water tanks to store rainwater. These are used for irrigation purposes, reducing irrigation from mains supply, and to supply the bathroom facilities.

- **Material**—ACIAR has set itself a goal of reducing paper use by 20 per cent each year. Recycled paper (using 80 per cent recycled material) now accounts for 95 per cent of all paper purchases, helping ACIAR meet the goal of a 20 per cent reduction in paper use. Upgrades to printers and photocopiers have supported this through improved energy efficiency ratings and double-sided capacities.

Double-sided printing and photocopying have been set as default settings on high-use printers and copiers. A number of corporate documents, including drafts and daily press clippings are circulated electronically through an internal portal (intranet site). These policies have seen paper use lowered from 1015 reams in 2006-07 to 967 reams during 2007-08.

- **Waste**—recycling is in place for all paper, steel cans, glass, plastic, toner cartridges and batteries. All are now disposed of either by accredited suppliers or by staff to appropriate recycling facilities. Waste disposal to landfills has been reduced by 50 per cent with further reductions planned for 2008-09.

The disposal of waste materials including paper and toner cartridge, is undertaken by professional waste management companies, engaged to ensure the correct disposal for recycling. In addition cardboard is disposed of at accredited waste recyclers.

Appendix 8: Compliance Checklist

Part of Report	Description	Requirement	Page
	Letter of transmittal	Mandatory	1
	Table of contents	Mandatory	3
	Index	Mandatory	246
	Glossary	Mandatory	243
	Contact officer(s)	Mandatory	2
	Internet home page address and Internet address for report	Mandatory	2
Review by Chief Executive Officer	Review by chief executive officer	Mandatory	10
	Summary of significant issues and developments	Suggested	6-8
	Overview of department's performance and financial results	Suggested	5-14
	Outlook for following year	Suggested	14
	Significant issues and developments – portfolio	Portfolio departments – suggested	n.a.
Departmental Overview	Overview description	Mandatory	17-135
	Role and functions	Mandatory	202
	Organisational structure	Mandatory	203
	Outcome and output structure	Mandatory	204
	Where outcome and output structures differ from PBS format, details of variation and reasons for change	Mandatory	n.a.
	Portfolio structure	Portfolio departments – mandatory	n.a.
Report on Performance	Review of performance during the year in relation to outputs and contribution to outcomes	Mandatory	205
	Actual performance in relation to performance targets set out in PBS/PAES	Mandatory	189
	Performance of purchaser/provider arrangements	If applicable, mandatory	n.a.
	Where performance targets differ from the PBS/PAES, details of both former and new targets, and reasons for the change	Mandatory	189
	Narrative discussion and analysis of performance	Mandatory	17-135

	Trend information	Suggested	5
	Factors, events or trends influencing departmental performance	Suggested	10-14
	Significant changes in nature of principal functions/services	Suggested	n.a.
	Performance against service charter customer service standards, complaints data, and the department's response to complaints	If applicable, mandatory	n.a.
	Social justice and equity impacts	Suggested	n.a.
	Discussion and analysis of the department's financial performance	Mandatory	148-149
	Discussion of any significant changes from the prior year or from budget	Suggested	n.a.
	Summary resource tables by outcomes	Mandatory	204
	Developments since the end of the financial year that have affected or may significantly affect the department's operations or financial results in future	If applicable, mandatory	n.a.
Management Accountability			
Corporate Governance	Statement of the main corporate governance practices in place	Mandatory	136-149
	Names of the senior executive and their responsibilities	Suggested	249
	Senior management committees and their roles	Suggested	146
	Corporate and operational planning and associated performance reporting and review	Suggested	17-135 188-192
	Approach adopted to identifying areas of significant financial or operational risk and arrangements in place to manage risks	Suggested	146-147
	Agency heads are required to certify that their agency comply with the Commonwealth Fraud Control Guidelines.	Mandatory	147
	Policy and practices on the establishment and maintenance of appropriate ethical standards	Suggested	142
	How nature and amount of remuneration for SES officers is determined	Suggested	142
External Scrutiny	Significant developments in external scrutiny	Mandatory	198
	Judicial decisions and decisions of administrative tribunals	Mandatory	198
	Reports by the Auditor-General, a Parliamentary Committee or the Commonwealth Ombudsman	Mandatory	198

Management of Human Resources	Assessment of effectiveness in managing and developing human resources to achieve departmental objectives	Mandatory	194-197
	Workforce planning, staff turnover and retention	Suggested	194
	Impact and features of certified agreements and AWAs	Suggested	197
	Training and development undertaken and its impact	Suggested	195
	Occupational health and safety performance	Suggested	195
	Productivity gains	Suggested	197
	Statistics on staffing	Mandatory	230-233
	Certified agreements and AWAs	Mandatory	197,231
	Performance pay	Mandatory	194-195
Assets management	Assessment of effectiveness of assets management	If applicable, mandatory	n.a.
Purchasing	Assessment of purchasing against core policies and principles	Mandatory	198
Consultants	The annual report must include a summary statement detailing the number of new consultancy services contracts let during the year; the total actual expenditure on all new consultancy contracts let during the year (inclusive of GST); the number of ongoing consultancy contracts that were active in the reporting year; and the total actual expenditure in the reporting year on the ongoing consultancy contracts (inclusive of GST). The annual report must include a statement noting that information on contracts and consultancies is available through the AusTender website. (Additional information as in Attachment D to be available on the Internet or published as an appendix to the report. Information must be presented in accordance with the proforma as set out in Attachment D.)	Mandatory	199-200
ANAO Access Classes	Absence of provisions in contracts allowing access by the Auditor-General	Mandatory	199
Exempt contracts	Contracts exempt from the AusTender	Mandatory	198
Commonwealth Disability Strategy	Report on performance in implementing the Commonwealth Disability Strategy	Mandatory	196
Financial Statements	Financial Statements	Mandatory	150-187

Other Information			
	Occupational health and safety (section 74 of the Occupational Health and Safety (Commonwealth Employment) Act 1991)	Mandatory	195
	Freedom of Information (subsection 8(1) of the Freedom of Information Act 1982)	Mandatory	234
	Advertising and Market Research (Section 311A of the Commonwealth Electoral Act 1918)	Mandatory	200
	Ecologically sustainable development and environmental performance (Section 516A of the Environment Protection and Biodiversity Conservation Act 1999)	Mandatory	235
Other	Discretionary Grants	Mandatory	200
	Correction of material errors in previous annual report	If applicable, mandatory	156