

**LIST OF RETA PROJECTS TO SUPPORT AGRICULTURAL AND NATURAL RESOURCES
RESEARCH PROJECTS SUPPORTED BY ADB, 1975–2007**

TA No.	TA Name	Date	TA Amount (\$'000)
A. CGIAR Center			
1. Center for International Forestry Research (CIFOR)			
RETA 5812 ^a	Planning for Sustainability of Forest Through Adaptive Co-Management	22 Oct 1998	1,100
	Subtotal (A1)		1,100
2. International Center for Agricultural Research in the Dry Areas (ICARDA)			
RETA 5866 ^b	On-Farm Soil and Water Management for Sustainable Agricultural Systems in Central Asia	14 Oct 1999	1,200
RETA 6136 ^h	Improving Rural Livelihoods Through Efficient On-Farm Water and Soil Fertility Management in Central Asia	11 Nov 2003	1,000
RETA 6439 ^l	Enabling Policy Options for Sustainable Land Management in Central Asia, PRC, and Pakistan	18 Dec 2007	775
	Subtotal (A2)		2,975
3. International Center for Living Aquatic Resources Management (ICLARM) (WorldFish Center)			
RETA 5068	Workshop on Appropriate Technology for Alternative Energy Sources in Fisheries	7 Jul 1980	70
RETA 5245	International Center for Living Aquatic Resources Management for a Research on Rice-Fish Farming Systems	15 Apr 1987	350
RETA 5279	ICLARM for Genetic Improvement of Tilapia Species in Asia	8 Mar 1988	475
RETA 5558	Dissemination and Evaluation of Genetically Improved Tilapia Species in Asia	14 Dec 1993	600
RETA 5651	Review of Sustainable Exploitation of Coastal Fish Stocks in Asia	4 Dec 1995	100
RETA 5711 ^c	Genetic Improvement of Carp Species in Asia	12 Dec 1996	1,300
RETA 5766 ^d	Sustainable Management of Coastal Fish Stocks in Asia	29 Dec 1997	1,400
RETA 5945 ^e	Strategies and Options for Increasing and Sustaining Fisheries and Aquaculture Production to Benefit Poor Households in Asia	17 Oct 2000	1,100
RETA 6136 ^h	Integrating and Mobilizing Rice Knowledge to Improve and Stabilize Crop Productivity to Achieve Household Food Security in Diverse and Less Favorable Rain-Fed Areas of Asia	11 Nov 2003	950
	Subtotal (A3)		6,345
4. International Centre for Research in Agroforestry (ICRAF)			
RETA 5711 ^c	Policy Research for Sustainable Upland Systems	12 Dec 1996	1,200
	Subtotal (A4)		1,200
5. International Center for Tropical Agriculture (CIAT)			
RETA 5866 ^b	Developing Sustainable Forage Technologies for Resource-Poor Upland Farmers in Asia	14 Oct 1999	1,200
RETA 6067 ^d	Improving Livelihoods of Upland Farmers Using Participatory Approaches to Develop More Efficient Livestock Systems	6 Dec 2002	950
	Subtotal (A5)		2,150
6. International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)			
RETA 5331	Establishment of Plant Biotechnology Research and Training Unit	4 April 1989	325
RETA 5087	Establishment of a Genetic Resources Laboratory at ICRISAT	22 Sept 1981	450
RETA 5118	Strengthening Chickpea Research in Collaboration with International Crops Research Institute for the Semi-Arid Tropics	15 Feb 1983	300
RETA 0882	Strengthening Chickpea Research in Collaboration with ICRISAT, Phase II	9 June 1987	350
RETA 5268	International Crops Research Institute for the Semi-Arid Tropics for the Strengthening Grain Legume in South Asia	4 Dec 1987	350
RETA 1139	Pigeonpea Varietal Adaptation and Production Studies in Collaboration with the International Crops Research Institute for the Semi-Arid Tropics	16 Mar 1989	230
RETA 5331	International Crops Research Institute for the Semi-Arid Tropics for Establishment of Plant Biotechnology Research and Training Unit	4 Apr 1989	1,250
RETA 5393	International Crops Research Institute for the Semi-Arid Tropics for Strengthening Grain Legume Research in Asia	10 Jul 1990	590

TA No.	TA Name	Date	TA Amount (\$'000)
RETA 5405	International Crops Research Institute for the Semi-Arid Tropics for Strengthening the Genetic Resources Unit	7 Sept 1990	600
RETA 1742	Pigeonpea Intercropping and Diversification Study	18 Aug 1992	350
RETA 5603	Strengthening Regional Collaboration on Cereals and Legumes Research in Asia	24 Nov 1994	600
RETA 5711 ^c	Legume-Based Technologies for Rice and Wheat Production	12 Dec 1996	600
RETA 5812 ^a	Improving Management of Natural Resources for Sustainable Rain-Fed Agriculture	22 Oct 1998	1,250
RETA 5945	Rapid Crop Improvement for Poor Farmers in the Semiarid Tropics of Asia	17 Oct 2000	1,200
RETA 6067 ⁹	Participatory Watershed Management for Reducing Poverty and Land Degradation in the Semiarid Tropics	6 Dec 2002	1,300
RETA 6439	Vulnerability to Climate Change: Adaptation Strategies and Layers of Resilience	18 Dec 2007	1,100
Subtotal (A6)			10,845
7. International Food Policy Research Institute (IFPRI)			
RETA 5116	Study of Food Demand and Supply and Related Strategies for Developing Member Countries	4 Feb 1983	248
RETA 5160	Study of Food Demand and Supply and Related Strategies for Developing Member Countries (Phase II)	23 Oct 1984	500
RETA 5420	Study of Food Situation and Outlook for Asia	2 Jan 1991	598
RETA 5866 ^b	Irrigation Investment, Fiscal Policy, and Water Resource Allocation	14 Oct 1999	1,200
RETA 5945	Breeding Iron-Rich Rice to Reduce Iron Deficiency Anemia in Asia	17 Oct 2000	1,300
RETA 6067 ⁹	Poverty Reduction through Advisory Network, Policy Research, and Capacity Strengthening in South Asia	6 Dec 2002	568
RETA 6376 ^k	Promoting a Multi-Stakeholder Dialogue on New Strategies and Actions for Reducing Hunger and Poverty with a Focus on Agriculture and Rural Development in Asia	18 Dec 2006	500
Subtotal (A7)			4,914
8. International Water Management Institute (IWMI)			
RETA 5273	Study on Irrigation Systems Rehabilitation and Improved Operations and Management	14 Jan 1988	500
RETA 0654	Study on Irrigation Management for Crop Diversification	20 Dec 1984	250
RETA 0673	Study of Irrigation Management	27 Mar 1985	350
RETA 5172	Regional Study on Irrigation Service Fees	16 May 1985	100
RETA 5209	Regional Seminar on Irrigation Service Fees	7 May 1986	125
RETA 5234	A Course on Planning and Management of Irrigation Schemes	5 Jan 1987	55
RETA 0846	Study of Irrigation Management and Crop Diversification	16 Jan 1987	350
RETA 0859	Study on Irrigation Management for Diversified Crops (Phase II)	26 Feb 1987	350
RETA 0937	Efficient Irrigation Management and Systems Transfer	17 Dec 1987	600
RETA 5273	Research Support to International Irrigation Management Institute (IIMI) for Study on Irrigation Systems	8 Jan 1988	350
RETA 1481	Rehabilitation and Improved Operations and Management		
	Study on Crop-Based Irrigation Operations in Northwest Frontier	19 Feb 1991	860
RETA 1480	Study of Irrigation Management and Crop Diversification (Phase II)	19 Feb 1991	750
RETA 5812 ^a	Development of Effective Water Management Institutions	22 Oct 1998	1,250
RETA 5945	Pro-Poor Intervention Strategies in Irrigated Agriculture in Asia	17 Oct 2000	1,000
RETA 6208 ^l	Enabling Communities in the Aral Sea Basin to Combat Land and Water Resource Degradation through the Creation of "Bright Spots"	16 Dec 2004	700
Subtotal (A8)			7,590
9. International Livestock Research Institute (ILRI)			
RETA 5812 ^a	Increasing Productivity of Crop-Livestock Systems in Asia	22 Oct 1998	1,000
RETA 6005 ^f	Improving Crop-Livestock Production Systems in Rainfed Areas of Southeast Asia	6 Nov 2001	1,000
Subtotal (A9)			2,000

TA No.	TA Name	Date	TA Amount (\$'000)
10. International Maize and Wheat Improvement Center (CIMMYT)			
RETA 5766 ^d	Application of Biotechnology to Maize Improvement in Asia	12 Dec 1997	1,400
RETA 5945	Sustaining the Rice-Wheat Production Systems in Asia	17 Oct 2000	1,200
RETA 6005 ^f	Developing New Maize Germplasm Through Biotechnology for Resource Poor Farmers in Asia	6 Nov 2001	1,000
RETA 6208 ⁱ	Improving Farmer's Income Through Enhanced Maize Productivities in Drought-Prone Environments in East and Southeast Asia	16 Dec 2004	750
Subtotal (A10)			4,350
11. International Plant Genetic Resources Institute (IPGRI)			
RETA 5590	Coconut Genetic Resources Network in Asia and the Pacific Region	29 Jul 1994	800
RETA5766 ^d	Coconut Genetic Resources Network and Human Resources Strengthening in Asia and the Pacific (Phase II)	29 Dec 1997	1,200
RETA 5866 ^b	Conservation and Use of Native Tropical Fruit Species Biodiversity in Asia	14 Oct 1999	1,200
RETA 6005 ^f	Developing Coconut-Based Income-Generating Technologies in Poor Rural Communities	6 Nov 2001	1,000
Subtotal (A11)			4,200
12. International Potato Center (CIP)			
RETA 5533	Field Testing of True Potato Seed in the Lowland Tropics	24 May 1993	433
RETA 5711 ^c	Field Testing of True Potato Seed (Phase II)	12 Dec 1996	600
Subtotal (A12)			1,033
13. International Rice Research Institute (IRRI)			
RETA 5026	International Rice Research Institute	20 Feb 1975	300
RETA 5039	Establishment of a Rice Genetic Resources Laboratory	29 Mar 1977	500
RETA 5059	Intensification of Rice Research for Disadvantaged Areas	26 Jul 1979	700
RETA 5125	International Rice Research Institute Demonstration-Cum-Training Center on Rice Production, Postharvest Technology and Biomass Utilization	9 Jun 1983	400
RETA 5167	International Rice Research Institute for the Establishment of Research and Training Facilities to Enhance Regional Collaboration on Rice Virus Diseases	14 Dec 1984	350
RETA 5194	International Rice Research Institute for Strengthening Research on Integrated Pest Management for Deepwater Rice Farming Systems	18 Dec 1985	350
RETA 5200	International Rice Research Institute for Printing and Distribution of Rice Abstracts Journal	31 Dec 1985	110
RETA 5208	International Rice Research Institute for Research on Botanical Pest Control	7 May 1986	250
RETA 5227	International Rice Research Institute for Research Demonstration and Training on Rice Production, Postharvest Technology and Biomass Utilization (Phase II)	30 Oct 1986	650
RETA 5261	Technical Assistance to IRRI for the Development of Rice Varieties Tolerant to Problem Soil Conditions	20 Aug 1987	500
RETA 5299	International Rice Research Institute for Strengthening Research on Integrated Pest Management in Deepwater Rice Farming Systems (Phase II)	12 Jul 1988	400
RETA 5336	Strengthening Agricultural Science and Information Services in the Bank's DMCs	31 May 1989	180
RETA 5349	Strengthening Rice Crop Protection Research and Minimizing Environmental Damage in DMCs	26 Sep 1989	850
RETA 5414	Decentralized Participatory Research for Less Favorable Rice Ecosystems and Rice Wheat Systems	13 Nov 1990	3,000
RETA 5510	Establishment of the Asian Rice Biotechnology Network	24 Nov 1992	900
RETA 5606	International Rice Research Institute for Rain-Fed Lowland Rice Ecosystem Research	6 Dec 1994	1,100
RETA 5667	Asian Rice Biotechnology Network—From Products to Impact	9 Jan 1996	850
RETA 5711 ^c	Exploiting Biodiversity for Sustainable Rice Pest Management	12 Dec 1996	1,500
RETA 5766 ^d	Development and Use of Hybrid Rice in Asia	29 Dec 1997	1,500
RETA 5812 ^a	Asian Rice Biotechnology Network: Achieving Impact and Sustainability	22 Oct 1998	1,000

TA No.	TA Name	Date	TA Amount (\$'000)
RETA 6005 ^f	Sustaining Food Security in Asia Through the Development of Hybrid Rice Technology	6 Nov 2001	1,000
RETA 6136 ^h	Integrating and Mobilizing Rice Knowledge to Improve and Stabilize Crop Productivity to Achieve Household Food Security in Diverse and Less Favorable Rain-Fed Areas of Asia	11 Nov 2003	900
RETA 6208 ⁱ	Enhancing Farmers' Income and Livelihoods through Integrated Crop and Resource Management in the Rice-Wheat System in South Asia	16 Dec 2004	700
RETA 6276 ^j	Development and Dissemination of Water-Saving Rice Technologies in South Asia	2 Dec 2005	1,000
Subtotal (A13)			18,990
14. International Service for National Agricultural Research (ISNAR)			
RETA 5254	Regional Workshop on Planning and Management of Agriculture Research in the South Pacific	23 Jun 1987	75
RETA 5341	Strengthening Agricultural Resources Management in Asia with Special Emphasis on Management Information Systems	4 Jul 1989	480
RETA 5866 ^b	Building Performance-Based Management Systems in the National Agricultural Research Systems in Asia	14 Oct 1999	800
Subtotal (A14)			1,355
Subtotal (A)			69,047
B. Other Centers and Organizations			
1. The World Vegetable Center (AVRDC)			
RETA 5027	Outreach Programs in Vegetable Research in Korea, Philippines, and Thailand	15 Apr 1975	390
RETA 5119	Strengthening Vegetable Research in Collaboration with the Asian Vegetable Research and Development Center	15 Feb 1983	475
RETA 5143 ^e	Regional Training Program in Vegetable Production and Research	20 Dec 1983	175
RETA 5253 ^e	Regional Training Program in Vegetable Production and Research (Phase II)	18 Jun 1987	350
RETA 5282	Planning and Organization Workshop to Establish Collaborative Vegetable Research Program in Southeast Asia	28 Mar 1988	75
RETA 5322	Asian Vegetable Research and Development Center to Establish a Collaborative Vegetable Research Program in Southeast Asia	17 Mar 1989	600
RETA 5402 ^e	Regional Training Program in Vegetable Production and Research (Phase III)	28 Aug 1990	400
RETA 5461	South Asia Vegetable Research Network	25 Sep 1991	600
RETA 5517	Collaborative Vegetable Research Program for Southeast Asia (Phase II)	21 Dec 1992	600
RETA 5582	Workshop on Vegetable Research and Development in Cambodia, Lao People's Democratic Republic and Viet Nam	6 Jun 1994	94
RETA 5680	Establishment of a Vegetable Research Network for Cambodia, Lao People's Democratic Republic and Viet Nam	8 Apr 1996	600
RETA 5719	RETA to AVRDC for South Asia Vegetable Research Network (Phase II)	10 Jan 1997	600
RETA 5839	Collection, Conservation, and Utilization of Indigenous Vegetables	29 Mar 1999	550
RETA 6011	Strengthening the Collaborative Vegetable Research Network in Cambodia, Lao PDR, and Viet Nam (Phase II)	17 Dec 2001	650
RETA 6067 ⁹	Promoting Utilization of Indigenous Vegetables for Improved Nutrition of Resource-Poor Households in Asia	6 Dec 2002	1,000
RETA 6208 ⁱ	Improving Rural Livelihoods through Development of Vegetable-Based Post-Harvest Technologies in Cambodia, Lao People's Democratic Republic, and Vietnam	16 Dec 2004	700
RETA 6376 ^k	Supporting Pro-poor Vegetable Value Chains in Greater Mekong Subregion Countries	18 Dec 2006	490
Subtotal (B1)			8,349
2. Centre on Integrated Rural Development for Asia and the Pacific (CIRDAP)			
RETA 5248	Study of the Role of Women in Rural Industries	26 May 1987	180
Subtotal (B2)			180

TA No.	TA Name	Date	TA Amount (\$'000)
3. Fisheries Research Studies, Seminars, and Training			
RETA 5032	Fish Market Study	30 Oct 1975	49
RETA 5077	Regional Training Program in Fisheries Stock Assessment and	25 Dec 1980	200
RETA 5082	Statistical Data Collection		
	Second Fish Market Study	3 Jun 1981	220
RETA 5109	Research and Training in Aquaculture	30 Aug 1982	220
RETA 5142	South Pacific Training in Fisheries Statistics, Interpretation and Stock Assessment	4 Nov 1983	50
RETA 5150	Regional Training Program in Fish Handling and Quality Control	13 Mar 1984	50
RETA 5252	Fisheries Sector Development Strategies Study for South Pacific DMCs	9 Jun 1987	350
RETA 5316	Third Fish Market Study	18 Jan 1989	334
RETA 5358	Study on Fish Disease and Fish Health Management	22 Dec 1989	380
RETA 5534	Regional Study and Workshop on Aquaculture Sustainability and the Environment	1 Jun 1993	600
RETA 5566	Tuna Industry Development in Pacific Island Countries	29 Dec 1993	495
Subtotal (B3)			2,948
4. Forestry Research Studies, Seminars, and Training			
RETA 5049	Regional Seminar on Application of Appropriate Technology in Forestry and Forest Industries (ILO)	15 Jun 1978	90
RETA 5224	Regional Training Center in Community Forestry [Supplementary] (KU)	17 Jul 1987	350
RETA 5409 ^e	Forestry Research Support Program for the Asia and Pacific Region (FAO)	17 Oct 1990	1,500
RETA 5595 ^e	Regional Community Forestry Training Center in Kasetsart University, Thailand (KU)	5 Sep 1994	600
RETA 5612	Forestry Research Support Program for Asia and the Pacific [Phase II] (FAO)	22 Dec 1994	600
Subtotal (B4)			3,140
5. International Board for Soil Research and Management (IBSRAM)			
RETA 5218	Regional Workshop on Soil Management	10 Sep 1986	40
RETA 5284 ^e	International Board for Soil Research and Management for Research on Management of Sloping Lands for Sustainable Agriculture	14 Apr 1988	350
RETA 5400	Research on the Management of Sloping Lands for Sustainable Smallholder Agriculture in the South Pacific	24 Aug 1990	262
RETA 5803	TA to the International Board for Soil Research and Management for the Catchment Approach to Managing Soil Erosion in Asia	13 Aug 1998	1,300
Subtotal (B5)			1,952
6. International Centre for Integrated Mountain Development (ICIMOD)			
RETA 5293	International Centre for Integrated Mountain Development for a Study of Strategies for the Sustainable Development of Mountain Agriculture	10 Jun 1988	540
RETA 5443	International Centre for Integrated Mountain Development	18 Apr 1991	600
RETA 5565	Appropriate Technology for Soil Conserving Farming Systems	29 Dec 1993	600
RETA 5784	Appropriate Technology for Soil Conserving Farming Systems (Phase II)	23 Mar 1998	600
Subtotal (B6)			2,340
7. International Jute Organization (IJO)			
RETA 5235	International Jute Organization for Collection Conservation, Characterization and Exchange of Germplasm of Jute, Kenaf, and Mesta	5 Jan 1987	350
RETA 5375	International Jute Organization for the Development of Improved Varieties of Jute and Allied Fiber Crops (Phase II)	28 Mar 1990	600
Subtotal (B7)			950
8. Livestock Research Studies, Seminars, and Training			
RETA 5135	Regional Workshop on Livestock Production Management (ADB)	21 Nov 1983	130
RETA 5272	Regional Workshop on Animal Disease Reporting System (OIE)	8 Jan 1988	150
RETA 5505	Regional Seminar on Policies and Strategies for Livestock Development (ADB)	20 Aug 1992	220
Subtotal (B8)			500

TA No.	TA Name	Date	TA Amount (\$'000)
9. Other Research Studies and Training^m			
RETA 5319	Workshop and Symposium on Strengthening Pesticides Regulations (FAO)	16 Jan 1989	250
RETA 5336	Strengthening Agricultural Science and Information Services in the Bank's DMCs (IRRI and CABI)	31 May 1989	180
RETA 5434	Regional Conference on Integrated Pest Management (CABI)	13 Mar 1991	270
RETA 5514	Commonwealth Agricultural Bureau International for Integrated Pest Management in Cotton (CABI)	17 Nov 1992	760
RETA 5618	Establishment of the Asian Maize Training Center (CIMMYT)	29 Dec 1994	600
RETA 6208	Workshops for Strengthening Partnerships for More Effective Planning, Research and Development in Agriculture in Mekong and Southeast Asia Regions (ADB)	16 Dec 2004	150
Subtotal (B9)			2,210
Subtotal (B)			22,569
Total (A+B)			91,616

ADB = Asian Development Bank, CABI = Commonwealth Agricultural Bureau International, CGIAR = Consultative Group on International Agricultural Research, CIMMYT = International Maize and Wheat Improvement Center, DMC = developing member country, FAO = Food and Agriculture Organization, KU = Kasetsart University, OIE = International Office of Epizootics, RETA = regional technical assistance, TA = technical assistance.

^a A component of TA 5812-REG (ADB. 1998. *Technical Assistance for the Third Agriculture and Natural Resources Research at CGIAR Centers*. Manila), for \$5.6 million.

^b A component of TA 5866-REG (ADB. 1999. *Technical Assistance for the Fourth Agriculture and Natural Resources Research at CGIAR Centers*. Manila), for \$5.6 million.

^c A component of TA 5711-REG (ADB. 1996. *Technical Assistance for the Agriculture and Natural Resources Research at CGIAR Centers*. Manila), for \$5.2 million.

^d A component of TA 5766-REG (ADB. 1997. *Technical Assistance for the Second Agriculture and Natural Resources Research at CGIAR Centers*. Manila), for \$5.5 million.

^e A component of TA 5945-REG (ADB. 2000. *Technical Assistance for the Fifth Agriculture and Natural Resources Research at CGIAR Centers*. Manila), for \$5.8 million.

^f A component of TA 6005-REG (ADB. 2001. *Technical Assistance for the Sixth Agriculture and Natural Resources Research at CGIAR Centers*. Manila), for \$4.0 million.

^g A component of TA 6067-REG (ADB. 2002. *Technical Assistance for the Seventh Agriculture and Natural Resources Research at International Agricultural Research Centers*. Manila), for \$3.8 million.

^h A component of TA 6136-REG (ADB. 2003. *Technical Assistance for the Eighth Agriculture and Natural Resources Research at International Agricultural Research Centers*. Manila), for \$3.0 million.

ⁱ A component of TA 6208-REG (ADB. 2004. *Technical Assistance for the Ninth Agriculture and Natural Resources Research at International Agricultural Research Centers*. Manila), for \$3.0 million.

^j A component of TA 6276-REG (ADB. 2005. *Technical Assistance for the Tenth Agriculture and Natural Resources Research at International Agricultural Research Centers*. Manila), for \$1.0 million.

^k A component of TA 6376-REG (ADB. 2006. *Technical Assistance for the Eleventh Agriculture and Natural Resources Research at International Agricultural Research Centers*. Manila), for \$1.0 million.

^l A component of TA 6439-REG (ADB 2007: *Technical Assistance for the Twelfth Agriculture and Natural Resources Research at International Agricultural Research Centers*. Manila) for \$2.0 million.

^m Executing agencies indicated.

Source: RETA 6439 (REG): Technical Assistance for Twelfth Agriculture and Natural Resources Research at International Agricultural Research Centers.