



TRAINING

long-term | short-term



Long-Term Training

The IPM CRSP provides long-term training to build the capacity of host country scientists who will have major responsibilities for crop protection in their home countries. Training is also made available to young U.S. scientists who plan for careers in international crop protection and development work. While addressing a global knowledge base in U.S. universities, the training addresses specific host country IPM questions, opportunities,

and constraints. These programs are designed to meet the needs of host country scientists by integrating with IPM CRSP research carried out by the researchers based at the U.S. universities.

Student numbers by degree/level and country

Country	Doctorate		Masters		Bachelors		Post Docs		Total
	Men	Women	Men	Women	Men	Women	Men	Women	
Bangladesh				2					2
Dominican Republic				1					1
Ecuador			1						1
Ethiopia			1	2					3
Guatemala				1					1
Honduras			1			1			2
India	4	4	4	2			2	5	21
Indonesia	1	2	2	4	6				15
Kenya		1		2	1				4
Mexico					1				1
Peru	1								1
Senegal	2	1							3
Taiwan		1							1
Tajikistan		1		1					2
Tanzania	3		2	1	1				7
Thailand	1								1
Uganda	1		5	3	2	1			12
USA	1	4	4	5					14
TOTAL	14	14	20	24	11	2	2	5	92
	28		44		13		7		

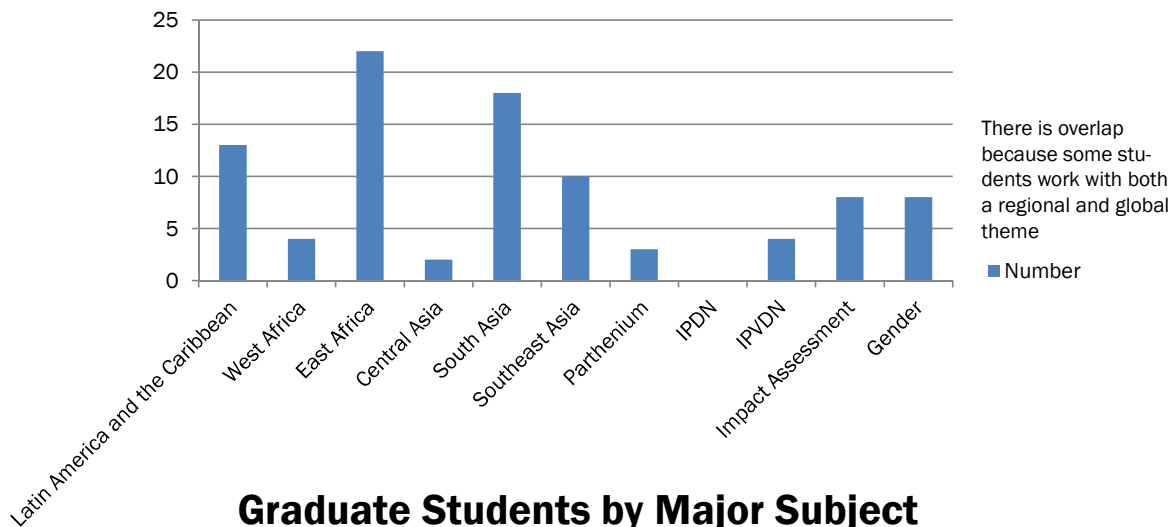
LONG-TERM TRAINING at a glance

In annual report year 2011-12, we trained

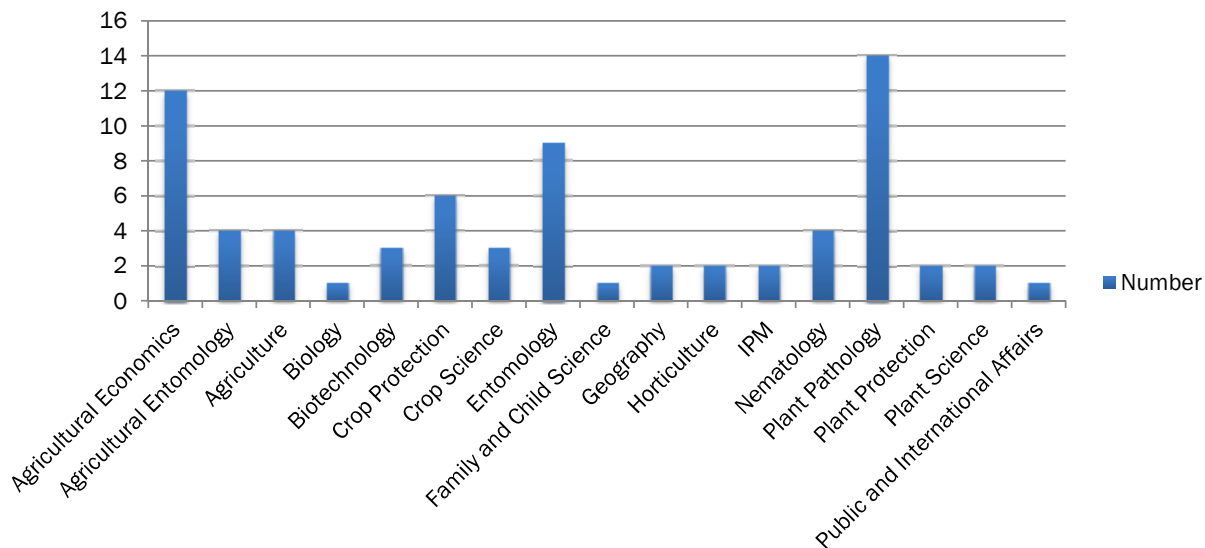
- **92** students and post docs
- **72** graduate students (34 men, 38 women)
- **28** PhD students (14 men, 14 women)
- **44** MS students (20 men, 24 women)
- **13** BS students (11 men, 2 women)
- **7** post doctoral resesarch associates (5 men, 2 women)

at 9 U.S. and 13 host-country universities

Graduate Student Focus by Program



Graduate Students by Major Subject



Last Name, First Name	Sex	Nationality	Regional Project	Global Theme	Degree	Discipline	Start Date	End Date	University	Advisor
Ahsanuzzaman	F	USA	South Asia	Impact Assessment	PhD	Agricultural Economics	2012	2013	Virginia Tech	George Norton
Aravind, D.	M	India	South Asia		MS	Agricultural Entomology	2011	2013	TNAU	C. Durairaj
Ariko, Joseph	M	Uganda	East Africa		BS	Crop Science	2012	2013	Makerere University	M. Ochowo-Ssemkula
Ashok, Patil Anandaro	M	India	South Asia		MS	Biotechnology	2011	2012	TNAU	S. Mohankumar
Ashraf, Mohamed Ashraf	M	Tanzania	East Africa		MS	Horticulture	2010	2013	Sokoine University	A.P. Maerere
Atukunda, Robinah	F	Uganda	East Africa	Gender	MS	Crop Science	2010	2013	Makerere University	M. Ocho-Ssemakula
Avelar, Sophia	F	Guatemala	LAC		MS	Plant Pathology	2013	2014	University of Arizona	
Badji, Kemo	M	Senegal	West Africa		PhD	Entomology	2010	2013	University of Bamako	Carlyle Brewster
Baideng, Eva	F	Indonesia	Southeast Asia		PhD	Entomology	2010	2012	Sam Ratulangi University	D.T. Sembel
Balaji, C.G	M	India	South Asia		Post Doc	Plant Pathology			TNAU	S. Mohankumar/G. Karthikeyan
Balayara, Assa	F	Senegal	West Africa		PhD	IPM		2012		
Barragan, Remedios Torres	M	Mexico	LAC		BS	Socioeconomic Development and Environment	2012	2012	Panamerican School, Zamorano	Laura Suazo
Beyera, Sheleme	M	Ethiopia	East Africa	Parthenium	MS	Plant Sciences		2011	Ambo University	S. K. Singh
Brady, Sally	F	USA	LAC		MS	Plant Sciences	2012	2013	Virginia Tech	
Buckmaster, Amy	F	USA	LAC		MS	Agricultural Economics	2010	2012	Virginia Tech	Jeffery Alwang
Campbell, A. J.	F	USA		IPVDN	PhD	Plant Pathology			University of California-Davis	
Campoverde, Angel	M	Ecuador	LAC		MS	Agricultural Economics	2012	2014	Virginia Tech	Alwang
Capelli, Matt	M	USA		Impact Assessment	MS	Agricultural Economics	2011	2012	Virginia Tech	Dan Taylor
Carrion, Vanessa	F	USA	LAC	Impact Assessment	MS	Agricultural Economics	2011	2013	Virginia Tech	George Norton
Cruz, Keilyn Yanivis Castillo	F	Honduras	LAC		BS	Socioeconomic Development and Environment	2012	2012	Panamerican School, Zamorano	Arie Sanders
Danda, Telesphory	M	Tanzania	East Africa		BS	Horticulture	2011	2012	Sokoine University	A.P. Maerere
David, Grace Matiku	F	Tanzania	East Africa		MS	Plant Protection	2010	2013	Sokoine University	K.P. Sibuga
Deepa, S.P	F	India	South Asia		Post Doc	Nematology			TNAU	S. Mohankumar/G. Karthikeyan
Devi, Nirmala	F	India	South Asia		Post Doc	Entomology			TNAU	S. Mohankumar/G. Karthikeyan
Dwianri, Idho	M	Indonesia	Southeast Asia		BS	Crop Protection	2011	2012	Bogor Agricultural University	Aunu Rauf
Elanchezhiya, K.	M	India	South Asia		MS	Agricultural Entomology	2010	2012	TNAU	G. Karthikeyan
Gautum, Swati	F	India	South Asia		MS	Biotechnology	2012	2013	TNAU	S. Mohankumar
Habiba, Umme	F	Bangladesh	South Asia	Gender	MS	Geography	2010	2013	University of Dhaka	Shahnaz Huq-Hussein
Hiskias, Bethelehem	F	Ethiopia	East Africa	Parthenium	MS	Crop Science		2012	Haramaya University	Ranjan Karippai
Ibore, Martha	F	Uganda	East Africa	Parthenium	BS	Crop Science		2012	Makerere University	J. Bisikwa
Isoto, Rosemary	F	Uganda	East Africa	Impact Assessment	MS	Agricultural Economics	2010	2012	Ohio State University	David Kraybill

Last Name, First Name	Sex	Nationality	Regional Project	Global Theme	Degree	Discipline	Start Date	End Date	University	Advisor
Jurua, Herbert	M	Uganda	East Africa		MS	Crop Protection	2011	2013	Makerere University	J.Karungi/ P. sseuwagi
Kahinga, Joe Ng'ang'a	M	Kenya	East Africa		BS	Horticulture	2010	2013	Kenya Methodist University	D. Waiganjo
Keerthana, U.	F	India	South Asia		MS	Plant Pathology	2011	2013	TNAU	G. Karthikeyan
Keerthikurtha, S.	F	India	South Asia		Post Doc	Biotechnology			TNAU	S. Mohankumar/G. Karthikeyan
Kilambo, Deuseddit	M	Tanzania	East Africa		PhD	Plant Protection	2009	2013	Sokoine University	D. Mamiro
Kirinya, Julian	M	USA	East Africa	Impact Assessment	MS	Agricultural Economics	2012	2014	Virginia Tech	Dan Taylor
Kirithika, N.	F	India	South Asia	Impact Assessment	PhD	Agricultural Economics	2009	2012	TNAU	K. N. Selvaraj
Kuo, Yen-Wen	F	Taiwan		IPVDN	PhD	Plant Pathology			University of California-Davis	R. Gilbertson
Kuria, Sylvia Nyambura	F	Kenya	East Africa		MS	Plant Pathology	2010	2013	Makerere University	D. Tusiime, M. Waiganjo
Megersa, Firehiwot	F	Ethiopia	East Africa	Parthenium	MS	Crop Science		2012	Haramaya University	Ranjan Karippai
Melgarejo, Tomas	M	Peru	LAC	IPVDN	PhD	Plant Pathology	2009	2013	University of California-Davis	R. Gilbertson
Meza, Akida	M	Tanzania	East Africa		MS	Plant Pathology	2009	2012	Sokoine University	D. Mamiro
Miir, Richard	M	Uganda	East Africa	Gender	PhD	Agriculture	2012		Makerere University	Margaret Mangheni
Mtui, Hosea Dustan	M	Tanzania	East Africa		PhD	Horticulture	2008	2012	Sokoine University	A.P. Maerere (SUA)
Muwanga, Zachary	M	Uganda	East Africa		MS	Crop Protection	2009	2012	Makerere University	Michael Otim/ S. Kyamanywa
Muwanika, Chris tansani	M	Uganda	East Africa		MS	Crop Protection	2010	2012	Makerere University	J. Karungi/ M. Ochowo-Ssemakula
Nagendran, K.	M	India	South Asia		PhD	Plant Pathology	2011	2014	TNAU	G. Karthikeyan
Nantale, Mariam	F	Uganda	East Africa		MS	Crop Protection	2009	2012	Makerere University	M. Ochowo-Ssemakula/P. Sseuwagi
Nasution, Anes	M	Indonesia	Southeast Asia		MS	Entomology	2010	2012	Sam Ratulangi University	Max Tulung
Natarajan, Kiruthika	F	USA	South Asia	Impact Assessment	PhD	Agricultural Economics	2010	2013	TNAU	K.N. Selvaraj
Ndiaye, Ousmane	M	Senegal	West Africa		PhD	IPM		2012		
Nghoma, Nyambisi Maliyatabu	M	Tanzania	East Africa		PhD	Plant Pathology	2009	2013	Sokoine University	D. Mamiro
Ochago, Robert	M	Uganda	East Africa	Gender	MS	Agriculture	2010	2013	Makerere University	Margaret Mangheni
Octaviany, Vani Nur	F	Indonesia	Southeast Asia		MS	Entomology	2012	2013	Bogor Agricultural University	Purnama Hidayat
Oktarima, Dwiwahdiati	F	Indonesia	Southeast Asia		MS	Crop Protection	2011	2012	Bogor Agricultural University	Nina Maryana

Last Name, First Name	Sex	Nationality	Regional Project	Global Theme	Degree	Discipline	Start Date	End Date	University	Advisor
Omayio, Deborah Bikoro	F	Kenya	East Africa		MS	Agriculture	2011	2012	Kenya Agricultural	C. Mugo, M. Waiganjo
Otipa, Miriam	F	Kenya	East Africa		PhD	Plant Pathology	2008	2013	Jomo Kenyatta University of Agriculture and TNAU	E. Ateka, E. Mamati, and D. Miano
Packiaraj, M	M	India	South Asia		Post Doc	Plant Pathology				S. Mohankumar/G. Karthikeyan
Perla, David	M	Honduras	LAC		MS	Nematology	2011	2013	Purdue University	
Pfeufer, Emily E.	F	USA	LAC		PhD	Plant Pathology	2010	2015	Penn State University	Beth K. Gugino
Pinaria, Betsy	F	Indonesia	Southeast Asia		MS	Entomology	2005	2010	Sam Ratulangi University	Saartje Rondonuwu-Lumanau
Poojari, Sudarsana	M	India	South Asia	IPVDN	PhD	Plant Pathology	2006	2013	Washington State University	Naidu Rayapati
Prakash, V.G.	M	India	South Asia		MS	Agricultural Entomology	2011	2013	TNAU	C. Durairaj
Prama, Aris	M	Indonesia	Southeast Asia		BS	Crop Protection	2011	2012	Bogor Agricultural University	Aunu Rauf
Preetha, B	F	India	South Asia		Post Doc	Biotechnology			TNAU	S. Mohankumar/G. Karthikeyan
Pulatova, Madina	F	Tajikistan	Central Asia		MS	Biology	2011	2012	Tajik National University	
Rahma, Atika	F	Indonesia	Southeast Asia	Gender	MS	Family and Child Sciences	2011	2013	Bogor Agricultural University	Herien Puspitwati
Rajamanickam	M	India	South Asia		PhD	Plant Pathology	2009	2013	TNAU	G. Karthikeyan
Rajeswari	F	India	South Asia		PhD	Nematology	2010	2014	TNAU	S. Ramakrishnan
Rana, Seema	F	India	South Asia		PhD	Biotechnology	2012	2016	TNAU	S. Mohankumar
Reynoso, Teofila	F	Dominican Republic	LAC		MS	Nematology	2010	2012	Universidad Autonoma de	
Rusniarsyah, Lufthi	M	Indonesia	Southeast Asia		MS	Entomology	2010	2012	Bogor Agricultural University	Aunu Rauf
Safarzoda, Shahlo	F	Tajikistan	Central Asia		PhD	Entomology	2011		Michigan State	Karim Maredia
Saithya, B.K	F	India	South Asia		Post Doc	Horticulture			TNAU	S. Mohankumar/G. Karthikeyan
Sampath kumar, S.	M	India	South Asia		PhD	Agricultural Entomology	2011	2013	TNAU	C. Durairaj
Sanglestawai, Santi	M	Thailand	Southeast Asia	Impact Assessment	PhD	Agricultural Economics	2007	2012	North Carolina State	Roderick M. Rejesus
Sarangi, Thamalika	F	India	South Asia		PhD	Nematology	2012	2015	TNAU	S. Ramakrishnan
Secor, William	M	USA	LAC	Gender	MS	Agricultural Economics	2010	2011	Virginia Tech	Jeffery Alwang
Sidiq, Fajar	M	Indonesia	Southeast Asia		BS	Crop Protection	2011	2012	Bogor Agricultural University	Sugeng Santoso
Sowell, Andrew	M	USA	LAC		MS	Agricultural Economics	2009	2011	Purdue University	Shively
Sparger, Adam	M	USA	LAC		PhD	Agriculture	2009	2012	Virginia Tech	Jeffery Alwang
Ssemwogerere, Charles	M	Uganda	East Africa		MS	Crop Protection	2010	2012	Makerere University	S. Kyamanywa/ J. Karungi
Sufyana, Ridwan	M	Indonesia	Southeast Asia		BS	Crop Protection	2011	2012	Bogor Agricultural University	Aunu Rauf
Sultana, Tahera	F	Bangladesh	South Asia	Gender	MS	Geography	2010	2014	University of Dhaka	Shahnaz Huq-Hussein

Last Name, First Name	Sex	Nationality	Regional Project	Global Theme	Degree	Discipline	Start Date	End Date	University	Advisor
Tangkilsan, Marcel	M	Indonesia	Southeast Asia		BS	Social Economics, Agribusiness	2010	2012	Sam Ratulangi University	Jen Tatum
Testen, Anna	F	USA	LAC		MS	Plant Pathology	2010	2012	Penn State University	Paul Backman
Tumwesigye, Innocent	M	Uganda	East Africa		BS	Agricultural Economics	2011	2012	Makerere University	J. Karungi
Udiarto, Bagus K.	M	Indonesia	Southeast Asia		PhD	Entomology	2009	2011	Bogor Agricultural University	Purnama Hidayat
Utomo, Emod Tri	M	Indonesia	Southeast Asia		BS	Agrometerology	2011	2012	Bogor Agricultural University	Yonny Kusmaryono
Wardans, Nila	F	Indonesia	Southeast Asia		PhD	Entomology	2010	2013	Bogor Agricultural University	Aunu Rauf
Zseleczy, Laura	F	USA	West Africa	Gender	MS	Public and International Affairs	2009	2012	Virginia Tech	Maria Elisa Christie

Short-Term Training

The IPM CRSP provides short-term training to build the capacity of host country institutions, scientists, students, extension agents, and others directly involved with crop protection. Specialized symposia, training events, and technical workshops are conducted in the U.S. or in program host countries and are designed to build the capacity of host country scientists and graduate students.

The program also trains growers on proper identification of plant diseases and pests and sound management practices through seminars, workshops, field days, field demonstrations, and Farmer Field Schools (FFS). IPM components and packages are also disseminated to growers using this approach. These activities are facilitated by U.S. and host country scientists, technicians, graduate students, and communication specialists.

IPM CRSP Non-Degree Training (Activity Summary), FY 2012

Individual Participation to each Type of Event	Workshop	Training	Meeting	Survey	Field day/ Demonstration	Seminar/ Conference	Total
Regional Programs							
Latin America and the Caribbean	0	6	0	0	1	4	11
East Africa	4	3	0	0	1	0	8
West Africa	0	0	1	0	0	1	2
South Asia	1	12	0	0	0	1	14
Southeast Asia	0	7	17	0	60	4	88
Central Asia	1	1	0	0	27	0	29
Global Programs							
Parthenium	2	0	0	0	0	0	2
IPDN	2	2	0	0	2	0	6
IPVDN	1	3	0	0	0	1	5
Impact Assessment	0	4	0	0	0	5	9
Gender	8	2	7	0	0	1	18
Total	19	40	25	0	91	17	192

IPM CRSP Non-Degree Training (Participants Summary), FY 2012

Individual Participation to each Type of Event	Workshop	Training	Meeting	Survey	Field day/ Demonstration	Seminar/ Conference	Total
Regional Programs							
Latin America and the Caribbean	0	489	0	0	160	151	800
East Africa	81	503	0	0	25	0	609
West Africa	0	0	2	0	0	2	4
South Asia	35	2526	0	0	0	47	2608
Southeast Asia	0	136	207	0	2438	939	3747
Central Asia	3	4	0	0	495	0	502
Global Programs							
Parthenium	55	0	0	0	0	0	55
IPDN	34	26	0	0	530	0	590
IPVDN	5	5	0	0	0	47	57
Impact Assessment	0	6	0	0	0	70	76
Gender	192	73	58	0	0	7	338
Total	405	3795	267	0	3648	1263	9378

Latin America and the Caribbean-Regional Project

Honduras						
Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
Training	May 2012-Aug 2012	Summer Internship, Purdue University	3	3		Undergraduate Students
Training (6 events)	January 2012	Sample collection/ diagnosis of plant viruses	122	115	7	Extension officers/ para-technicians
Field Day	Feb. 23, 2012	Demonstration on IPM of tomato and pepper using tunnel structures	160	140	20	Farmers
Seminar	June 27, 2012	Advances in IPM in Honduras	30	28	2	Personnel of ICTA
Seminar	July 10, 2012	Rationale for establishment of demonstration plots in IPM for eggplant	7	5	2	Growers/ students
Seminar	March 28, 2012	IPM of nematodes	70	69	1	Growers/ extension workers
Seminar	Sep. 19, 2012	Use of <i>Metarhizium</i> for control of spittle bug in sugarcane	44	41	3	Undergraduate students (San Pedro Sula) and growers
Total participants in Honduras			436	401	35	
Ecuador						
Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
Training	August. 2012	Data analysis at Penn State	1	1		Scientist
Total participants in Ecuador			1	1		
Guatemala						
Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
Training			3			Students
Training	March 2012	IPM for tomato, pepper, and potato	300	250	50	Growers
Training	July 2012	Fungal and viral diseases	60	50	10	Growers
Total participants in Guatemala			363	303	60	
Total participants in the Latin America and the Caribbean			800	705	95	

East Africa-Regional Project

Kenya						
Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
Workshop		High-tunnel tomato production	24	14	10	farmers
Training		IPM for passionfruit	57	37	20	Extension agents/ farmers
Training		IPM packages	226	147	79	farmers
Total participants in Kenya			307	198	109	
Uganda						
Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
FFS		IPM Package for tomato	25	12	13	Farmers
Workshop	May 2012	Plant Disease Diagnostics	20	13	7	Crop protection specialists
Workshop	July 2012	Plant Disease Diagnostics	15	10	5	Crop protection

						specialists
Training	July 2012	Plant Disease Diagnostics	220	145	75	Farmers/ Crop protection specialists
Workshop	May 2012	Plant Pest diagnostics-SOPs	22	13	9	scientists
Total participants in Uganda			302	193	109	
Total participants in East Africa			609	391	218	

West Africa-Regional Project

Ghana						
Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
Meeting	January 2012	Planning meeting	2	2		Scientists
Symposium	July 2012	Research and management of plant virus diseases	2	2		Scientists
Total participants in Ghana			4	4		
Total participants in West Africa			4	4		

South Asia-Regional Project

India						
Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
Symposium	July 2012	Research and management of insect-transmitted plant virus diseases	47	34	13	Scientists
Training	July 23, 2012	Vegetable IPM	55	45	10	Growers
Training	January 28, 2012	Eco-friendly IPM methods for vegetable pest management	700	500	200	Farmers
Workshop	July 52, 2012	Awareness program on IPM in vegetable	35	35		Input dealers
Training	January 5-6, 2012	Eco-friendly IPM methods for vegetable pest management	76	62	14	Farmers
Training	April 18, 2012	Vegetable cultivation-Nagapattinam Dt	80	50	30	Farmers
Training	April 18, 2012	Vegetable cultivation-Thoothukudi Dt	20	15	5	Farmers
Training	April 19, 2012	Vegetable cultivation-Krishnagiri Dt	47	30	17	Farmers
Training	July 24, 2012	Vegetable cultivation-Thanjavur Dt	21	18	3	Farmers
Training	September 10, 2012	Vegetable cultivation-Himachal Pradesh	40	40		Farmers
Training	October 1, 2012	Vegetable cultivation-Villupuram Dt	40	30	10	Farmers
Total participants in India			1161	859	302	
Bangladesh						
Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
Training	February 6, 2012	IPDN-Plant disease diagnostics	11	7	4	Scientists
Total participants in Bangladesh			11	7	4	
Nepal						
Program Type	Date	Training Type	Number of Participants	Men	Women	Audience

Training		Vegetable IPM	1414	403	1011	Vegetable Growers
Training		Grafting Technology	22	12	10	Growers
Total participants in Nepal			1436	415	1021	
Total participants in South Asia			2608	1281	1327	

Southeast Asia-Regional Project

Cambodia						
Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
Training / 3 Field Days	2012	Reviewing field protocols for IPM test plots, field monitoring and data collection procedures, and update <i>Trichoderma</i> production process.	300	210	90	Field technicians
Total participants in Cambodia			300	210		
Indonesia						
Training	November 11, 2011	Development of organic farming/ Transfer of IPM Technologies	18	10	8	City officials/ extension officials
Training	December 9, 2011	Development of organic farming/ Transfer of IPM Technologies	39	16	23	Farming groups
Training	October 2011	Transfer of IPM technologies in Tomohon	31	16	15	Farming groups
Training	February 23, 2012	Organic farming/ bench terracing and IPM	42	26	16	Farming groups
Seminar	October 5, 2012	Pests and global climate change	241	123	118	Extension staff, farmers, and scientists
Training	October 24-26, 2011	Papaya mealybug	3	3	0	Scientists and extension agents from Timor Leste
Meeting	November 2-4, 2011	Plant Protection	46	27	19	Scientists, extension agents, policy makers
Seminar	November, 11, 2011	Virus diseases	38	15	23	Scientists and students
Meeting	November 11, 2011	Planning meeting/Project achievement	9	6	3	Scientists
Meeting	February 21, 2012	Planning meeting/ IPM research	5	5	0	Farmers
Meeting	March 12, 2012	Planning meeting/ IPM research	7	7	0	Farmers
Meeting	April 16, 2012	IPM research	3	3	-	Farmers
Meeting	April 19, 2012	IPM training	9	4	5	Scientists, farmers
Meeting	April 23, 2012	IPM research	13	7	6	Scientists
Training	April 25, 2012	<i>Trichoderma</i> and PGPR	30	18	12	Farmers, extension agents
Seminar	April 26, 2012	Biological control	60	27	33	Faculty, students
Meeting	April 30, 2012		30	28	2	Pest observers, farmers
Meeting	May 1, 2012	IPM research	4	4	0	Farmers

Meeting	May 31, 2012	IPM research	5	5	0	Farmers
Meeting	June 12, 2012	IPM research	3	3	0	Farmers
Meeting	June 18, 2012	Mobile plant clinic	32	18	14	Scientists, extension agents, farmers
Meeting	September 13, 2012	IPM research	9	6	3	Farmers, extension agents
Meeting	September 19, 2012	IPM research	3	2	1	Farmers
Meeting	September 20, 2012	IPM research	8	6	2	Researchers, farmers
Meeting	September 25, 2012	IPM research	6	3	3	Faculty, students
Meeting	October 16, 2012	Gender research	15	3	12	Farmers
Field visit	November 1, 2012	Rice stem borer	5	5	0	Extension agents, farmers
Seminar	November 8, 2012	IPM for rice stem borer	600	340	260	Scientists, extension agents, farmers
Total participants in Indonesia			1314	736	578	
Philippines						
FFS (Farmer Field School)	Oct 2011-Sept. 2012	IPM Onion: Matingkis, Munoz, Nueva Ecija	49	24	25	Farmers
FFS	Oct 2011-Sept. 2012	IPM Onion: San Antonio, Munoz, Nueva Ecija	37	27	10	Farmers
FFS	Oct 2011-Sept. 2012	IPM Onion: San Agustin, STO. Domingo, Nueva Ecija	33	26	7	Farmers
FFS	Oct 2011-Sept. 2012	IPM Onion: Dolores, Sto. Domingo, Nueva Ecija	30	21	9	Farmers
FFS	Oct 2011-Sept. 2012	IPM Onion: Marikit, Pantabangan, Nueva Ecija	37	23	14	Farmers
FFS	Oct 2011-Sept. 2012	IPM Onion: Cadaclan, Pantabangan, Nueva Ecija	38	34	4	Farmers
FFS	Oct 2011-Sept. 2012	IPM Onion: Manambong Sur, Bayambang, Pangasinan	43	33	10	Farmers
FFS	Oct 2011-Sept. 2012	IPM Vegetables: Palina East, Urdaneta City, Pangasinan	87	55	32	Farmers
FFS	Oct 2011-Sept. 2012	IPM Vegetables: Palina West, Urdaneta City, Pangasinan	37	22	15	Farmers
FFS	Oct 2011-Sept. 2012	IPM Vegetables: Cayambanan, Urdaneta City, Pangasinan	39	23	16	Farmers
FFS	Oct 2011-Sept. 2012	IPM Eggplant & Tomato: Nancolobasaab, Urdaneta City, Pangasinan	42	23	19	Farmers
FFS	Oct 2011-Sept. 2012	IPM Vegetables: Tulong, Urdaneta City, Pangasinan	39	21	18	Farmers
FFS	Oct 2011-Sept. 2012	IPM Onion: Dasay, Narvacan, Ilocos Sur	37	33	4	Farmers
FFS	Oct 2011-Sept. 2012	IPM Onion : San Pablo, Narvacan, Ilocos Sur	37	30	7	Farmers
FFS	Oct 2011-Sept. 2012	IPM Eggplant : Sapriana, Sinait, Ilocos Sur	37	28	9	Farmers
FFS	Oct 2011-Sept. 2012	IPM Garlic: Binacud, Sinait, Ilocos Sur	32	26	6	Farmers
FFS	Oct 2011-	IPM Onion & Vegetables:	99	74	25	Farmers

	Sept. 2012	Padu-Chico, Sto. Domingo, Ilocos Sur				
FFS	Oct 2011-Sept. 2012	IPM Eggplant: San Agustin, San Niclos, Ilocos Norte	35	26	9	Farmers
FFS	Oct 2011-Sept. 2012	IPM Garlic: Lipay, Vintar, Ilocos Norte	42	28	14	Farmers
FFS	Oct 2011-Sept. 2012	IPM Vegetables, Cababaaan, Pasuquin, Ilocos Norte	124	69	55	Farmers
FFS	Oct 2011-Sept. 2012	IPM Onion: Carusikis, Pasuquin, Ilocos Norte	51	38	13	Farmers
FFS	Oct 2011-Sept. 2012	IPM Onion: Bangantalinga, Iba, Zambales	47	35	12	Farmers
FFS	Oct 1- Sept 30, 2012	Vegetables: Saprina, Sinait, Ilocos Sur	14	10	4	Farmers
FFS	Oct 1- Sept 30, 2012	Onion: Manambong Sur, Bayambang, Pangasinan	12	12	0	Farmers
FFS	Oct 1- Sept 30, 2012	Vegetables: Palina West, Urdaneta City, Pangasinan	14	10	4	Farmers
FFS	Oct 1- Sept 30, 2012	Onion: Dasay, Narvacan, Ilocos Sur	22	18	4	Farmers
FFS	Oct 1- Sept 30, 2012	Onion & Vegetable: Tayabo, San Jose City, Nueva Ecija	29	26	3	Farmers
FFS	Oct 1- Sept 30, 2012	Onion & Vegetables: Palestina, San Jose City, Nueva Ecija	36	30	6	Farmers
FFS	Oct 1- Sept 30, 2012	Vegetables: Palina East, Urdaneta City, Pangasinan	52	30	22	Farmers
FFS	Oct 1- Sept 30, 2012	Onion, Vegetables, Melon, Watermelon: Matingkis, Munoz, Nueva Ecija	15	15	0	Farmers
FFS	Oct 1- Sept 30, 2012	Onion: Marikit, Pantabangan, Nueva Ecija	28	23	5	Farmers
FFS	Oct 1- Sept 30, 2012	Onion: Mapangpang, Munoz, Nueva Ecija	26	22	4	Farmers
FFS	Oct 1- Sept 30, 2012	Onion: Calabalabaan, Munoz, N.E.	19	18	1	Farmers
FFS	Oct 1- Sept 30, 2012	Onion, Cadaclan, Pantabangan, N.E.	31	27	4	Farmers
FFS	Oct 1- Sept 30, 2012	Vegetables: Rangayan, Munoz, N.E.	18	16	2	Farmers
FFS	Oct 1- Sept 30, 2012	Vegetables: Bical, Munoz, N.E.	13	7	6	Farmers
FFS	Oct 1- Sept 30, 2012	Onion: Bangantalinga, Iba, Zambales	25	17	8	Farmers
FFS	Oct 1- Sept 30, 2012	Onion: Bagnong Sikat, San Jose, City, N.E.	20	13	7	Farmers
FFS	Oct 1- Sept 30, 2012	Onion: San Pabli, Narvacan, I. Sur	31	27	4	Farmers
FFS	Oct 1- Sept 30, 2012	Onion: Doloroes, Sto. Domingo, N.E.	39	34	5	Farmers
FFS	Oct 1- Sept 30, 2012	Onion & Garlic: Cabisuculan, Vintar, Ilocos Norte	15	12	3	Farmers
FFS	Oct 1- Sept 30, 2012	Garlic: Lipay, Vintar, N.E.	25	20	5	Farmers
FFS	Oct 1- Sept 30, 2012	Vegetables: Cababaaan Elementary School	93	35	58	Farmers
FFS	Oct 1- Sept 30, 2012	Onion: San Fernando, Laur, N.E.	33	29	4	Farmers
FFS	Oct 1- Sept 30, 2012	Onion: Tugatog, Bongabon, N.E.	21	19	2	Farmers
FFS	Oct 1- Sept 30, 2012	Onion: Dasay, Narvacan, I.Sur	22	18	4	Farmers
FFS	Oct 1- Sept 30, 2012	Onion & Vegetables:	23	19	4	Farmers

	30, 2012	Carusikis, Pasuquin, I. Norte				
FFS	Oct 1- Sept 30, 2012	Onion & Garlic: Cabisuculan, Vintar, I. Norte	32	28	4	Farmers
FFS	Oct 1- Sept 30, 2012	Eggplant: San Agustin, San Nicolas, I. Norte	33	18	15	Farmers
FFS	Oct 1- Sept 30, 2012	Onion & Vegetables: Carusikis, Pasuquin, I. Norte	18	15	3	Farmers
FFS	Oct 1- Sept 30, 2012	Vegetables: Cayambanan, Urdaneta City, Pangasinan	35	19	16	Farmers
FFS	Oct 1- Sept 30, 2012	Vegetables: Sta. Barbara, Pangasinan	30	11	19	Farmers
FFS	Oct 1- Sept 30, 2012	Onion: General Santos City	197	159	38	Farmers
FFS	Oct 1- Sept 30, 2012	Vegetables: Bansalan, Davao Del Sur	20	13	7	Farmers
FFS	Oct 1- Sept 30, 2012	Onion: Bone North, Aritao, Nueva Vizcaya	12	12	0	Farmers
FFS	Oct 1- Sept 30, 2012	Onion & Vegetables: San Antonio, Munoz, N.E.	28	16	12	Farmers
Total participants in Philippines			2133	1519	614	
Total participants in Southeast Asia project			3747	2465	1282	

Central Asia-Regional Project

Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
Farmer Field School	October 24, 2011	Choosing varieties, observing seedling rates in IPM v. farmer standard plots, establishment of demo plot.	20	15	5	Students/farmers
Farmer Field School	March 5, 2012	How to establish flowering plants for beneficial insects.	20	15	5	Farmers
Farmer Field School	March 18, 2012	Herbicide application rates	20	15	5	Farmers
Farmer field School	April 2, 2012	Herbicide and fertilizer application	20	15	5	Farmers
Farmer field School	April 19, 2012	Identification of SUNN pest and its evaluations	20	15	5	Students/farmers
Farmer Field School	April 30, 2012	Observation of beneficial insects in flowering plants	20	15	5	Farmers
Farmer Field School	May 17, 2012	Identification of Sunn pest and its evaluation Identification of yellow rust v. brown rust.	20	15	5	Students/Farmers
Farmer Field School	June 15, 2012	Wheat yield evaluation	20	15	5	Farmers
Farmer Field School	October 17, 2011	Choosing varieties for rust resistance, preparing plots for planting.	20	13	7	Farmers/Students
Farmer Field School	December 16, 2011	Observing seedling rates in IPM v. farmer standard plots, establishment of demo plot.	20	15	5	Farmers/Students
Farmer Field School	February 28, 2012	How to establish flowering plants for beneficial insects	20	13	7	Farmers/students
Farmer Field School	March 28, 2012	How to prepare of herbicide application rates.	20	12	8	Farmers
Farmer Field School	April 10, 2012	Herbicide application. Preparation of fertilizers	20	12	8	Farmers
Farmer Field School	April 14, 2012	Identification of cereal leaf beetle and its evaluations	20	15	5	Farmers/Students
Farmer Field	April 25, 2012	Observation of beneficial	20	13	7	Farmers

School		insects in flowering plants				
Farmer Field School	May 12,2012	Identification of cereal leaf beetle and its evaluations	20	13	7	Farmers/ Students
Farmer Field School	May 28,2012	Identification of yellow rust compared to brown rust	20	15	5	Farmers
Farmer Field School	June 19, 2012	Wheat Yield Evaluation	20	15	5	Farmers
Farmer Field School	December 5,2011	Choosing varieties, observing seedling rates in IPM v. farmer standard plots, establishment of demo plot	15	8	7	Farmers/ Students
Farmer Field School	March 20, 2012	How to establish flowering plants for beneficial insects.	15	8	7	Farmers
Farmer Field School	April 10,2012	How to prepare of herbicide application rates.	15	8	7	Farmers
Farmer Field School	April 28,2012	Accurate application of herbicide (effectiveness rates) and how to prepare fertilizer	15	8	7	Farmers
Farmer Field School	April 28, 2012	Identification of cereal leaf beetle and its evaluations.	15	8	7	Farmers/ Students
Farmer Field School	May 10, 2012	Observing beneficial insects in flowering plants	15	8	7	Farmers
Farmer Field School	May 31, 2012	Identification of cereal leaf beetle and its evaluations.	15	8	7	Farmers/ Students
Farmer Field School	June 1, 2012	Identification of yellow rust v. brown rust	15	8	7	Farmers
Farmer Field School	June 30, 2012	Wheat yield evaluation	15	8	7	Farmers
Workshop	March 7-9, 2012	7 th International IPM Symposium: Tajikistan IPM CRSP project & IPM Vegetable crop packages	3	1	2	Scientists / Ph.D Graduate Student
Training		Enumerator Selection and training for farmers in Uzbek	4	3	1	Graduate Students
Total Participants for Central Asia			502	332	170	

Parthenium- Global Theme

Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
Workshop	December 19-21, 2011	Progress and Planning Workshop on <i>Parthenium</i> : Ethiopia	21	16	5	Representatives of partner institutions and countries.
Workshop	September 3-4, 2012	Strategic meeting to abate the spread and adverse impact of the invasive weed parthenium (<i>Parthenium hysterophorus</i>) in Ethiopia.	34	24	10	Members of the EIAR, IBC, and HU.
Total Participants for Parthenium			55	40	15	

International Plant Diagnostic Network- IPDN Global Theme

Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
Workshop	February 7-9, 2012	IPM CRSP Disease and Insect Diagnostics: Bangladesh	11	7	4	Scientists
Workshop	June 28-29, 2012	Training in Tomato Bacterial Canker (<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i>): Guatemala	23	14	9	Scientists
Training	September	Use of priority standard	22	13	9	Project

	2012	operating procedures for Passion fruit, tomato, and onion in East Africa				Partners
Training	September 15-29, 2012	Disease and insect pest diagnostic workshop at OSU	4	4	0	Scientists/ Graduate Student
Field Day	June 2012	Diagnostics of Important Diseases in Solanaceous Crops Including Tomato, Potato, and Peppers for Small Growers: Salama & Solola	50	35	15	Growers
Seminar & Field Visit	February 15-17, 2012	Diagnostics of Important Diseases in Vegetable Crops and Use of Immunostrips for Detection of Bacterial Diseases in Vegetable Crops	480	405	75	Agroexperts, government officials, growers, export operations, consultants, and extension personnel
Total Participants for IPDN			590	478	112	

International Plant Virus Disease Network-IPVDN Global Theme

Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
Training	February 1- July 31, 2012	Diagnosis of viruses by serological and molecular assays: WSU	1	1	0	Scientist
Training	2012	Virus identification techniques : Guatemala	1	1	0	Scientist
Internship	Summer 2012	Internship Program	3	1	2	Undergraduate/ High School Students
Workshop	January 7-10, 2012	Seed health, certification, plant pest, and disease diagnosis.	5	5	0	Scientists
Symposium	July 2012	Research and management of insect-transmitted plant virus diseases	47	34	13	Scientists
Total Participants for IPVDN			57	42	15	

Impact Assessment- Global Theme

Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
Training	February 2012	IPM Impact Assessment India	3	1	2	Scientists/ Graduate Students
Seminar	February 2012	IPM Impact Assessment TNAU	60	40	20	Scientists / Graduate Students
Seminar	February 2012	IPM Impact Assessment Nepal	2	1	1	Scientists / Graduate Students
Seminar	February 2012	IPM Impact Assessment Bangladesh	3	3	0	Scientists
Seminar	June 2012	IPM Impact Assessment Uganda	3	2	1	Scientists/ Graduate Students
Seminar	July 2012	IPM Impact Assessment Ecuador	2	1	1	Scientists
Training	March 8-25,	Impact Assessment Study at	1	1	0	Student

	2012	Virginia Tech				
Training	April 15-October 15, 2012	Impact Assessment Study at Virginia Tech	1	0	1	Student
Training	June-September 2012	Impact Assessment Study at Virginia Tech	1	0	1	Student
Total Participants for Impact Assessment			76	49	27	

Gender- Global Theme

Program Type	Date	Training Type	Number of Participants	Men	Women	Audience
Workshop	3.8.2012	Gender training Honduras	21	7	14	Farmers
Workshop	9.21.2012	Gender and Safe Use and Management of Pesticides: Guatemala	24	10	14	Farmers
Workshop	6.8.2012	Gender and Safe Use and Management of Pesticides: Honduras	20	10	10	Farmers
Workshop	5.11.2012	Gender Issues in Coffee Production: Uganda	27	15	12	Farmers
Seminars	5.2012	Women Participation Checklist: Uganda	7	4	3	Farmers
Workshop	6.9.2012 & 7.9.2012	Assessing Gendered Knowledge on Pesticide Use and IPM Practices on Vegetables: Dharmapuri	42	10	32	Farmers
Workshop	December 14-15, 2012	Gender Mainstreaming in Agriculture: Cambodia	31	6	25	Farmers
Workshop	December 2, 2012	Analysis of Gender Role in Home, Yard and Kitchen	27	12	15	Farmers
Training	August 21-22, 2012	Refresher training on Trichoderma Production and Application on Vegetable (included gender session): Cambodia	18	14	4	IPM Provincial Coordinator, District Trainers, Field Trainers
Training	August-September 2012	Farmer Discussion on Trichoderma production and application and the gender role of farmers: Cambodia	55	20	35	Farmers
Focus Group Discussions	October 3, 2011	Gender and IPM Technology: Philippines	9	3	6	Farmers
Focus Group Discussion	November 12 & 15, 2011	Gender role in home, garden, and kitchen space: Indonesia	14	14	0	Farmers
Focus Group Discussion	November 20 & 27, 2011	Gender role in home, garden, and kitchen space: Indonesia	15	0	15	Farmers
Focus Group Discussion	May 31 & June 5, 2012	Gender role in the home, garden, and kitchen space: Indonesia	20	0	20	Farmers
Total Participants for Gender			330	125	205	