

# Awareness Raising and Capacity Building

## September 2007 – December 2008

The period from September 2007 to December 2008 saw significant efforts by TL II and its partner institutions and individuals in the target countries to raise awareness about available technologies and research and development methods. Presented here are summaries of short-term training, regional and national workshops conducted since the launching of the project in September 2007, and plans for the coming season (January – December 2009). Information on students identified and registered in various universities for degree training is also provided here.

### Farmer and short-term training

TL II and partner NARS scientists were able to raise awareness of a total of 12,235 farmers about available technologies during this reporting period (Table 1). The number of farmers participating in these activities ranged from 39 for Niger to 3,644 for India. Participation of women farmers ranged from 17.5% for Ethiopia to 65% for Kenya. A total of 100 NARS scientists, technicians, and extension staff were also given hands-on training. The training focused on one or more of the following areas:

- Research methods;
- PVS (participatory variety selection);
- On-farm trial management;

- Integrated crop management techniques;
- *Rhizobium* inoculation;
- Seed production;
- Post-harvest handling;
- Processing and utilization; and
- Marketing and business skills.

An additional 162 enumerators were also trained for collecting baseline data across the nine countries (Table 1).

The plan for 2009 includes 20 training sessions for a total of an estimated 150 days (Table 2). Depending on the nature of training, each session would last for 2 to 30 days. In addition to the areas of training mentioned above, other areas of emphasis have been added in the 2009 training. These are:

- Data analyses and report writing;
- Qualitative and quantitative methods of impact monitoring and evaluation;
- Tracking early adoption;
- Seed production, management, processing and marketing; and
- Innovative technology transfer.

The kind of trainees will include all partners in the tropical legumes value chain: NARS scientists and technicians; government extension agents; agricultural development workers of NGOs and CBOs; government regulatory bodies (e.g. seed certification agencies); and agro-dealers.



## Workshops

CG Centre partners and NARS of participating countries held 31 workshops and meetings during this reporting period. The total number of participants was 931 and the total number of days allotted to these workshops and meetings was 72 (Table 3). These workshops helped, among other things, to introduce the project to a wider audience of the NARS partners, plan the project implementation and clearly define the roles and responsibilities of all partners.

A total of 17 national and regional workshops are planned for 2009, each one lasting one to two days (Table 4); these will take a total of 43 days.

## Degree training

Twenty eight students have been identified and registered in 14 universities in Africa and India under TL II sponsorship (Table 5). Of these, 21 are pursuing studies towards their master's degree and seven for PhD. In addition

to those shown in the table, one PhD student from Zimbabwe (Mr. Godwill Makunde) is registered at the University of Free State in South Africa under Objective 4 (common bean); this is done under TL I – TL II collaboration. Only three of all the students are women. This is a reflection of the paucity of female scientists in the NARS, particularly in Sub-Saharan Africa.

The original number of total students identified was 34 (27 MSc and 7 PhD) but some students have dropped out for better opportunities – scholarships that send for studies in North America, Europe or Australia.

All MSc studies are fully sponsored whereas some of the PhD students are partially sponsored by TL II (helping with costs for their theses).

Three quarters of the students are engaged in plant breeding work for their theses; five of these are using molecular markers. Three are in agricultural economics-related fields, two in seed technology, and one in processing.

Table 1: Short-term training conducted under TL II (September 2007 - December 2008)

Country	Farmers		Scientists, technicians, extension		Enumerators
	Total	% Women	Total	% Women	
Mali	319	52.7	1	0.0	17
Niger	63	19.0	1	0.0	18
Nigeria	2,234	27.5	5	40.0	12
Ethiopia	2,761	17.7	7	0.0	26
Kenya	2,288	60.3-65.0	46	22.2-35.4	17
Malawi	254	41.9	25	20.0	11
Mozambique	571	38.0	0	0.0	5
Tanzania	101	54.5	9	33.3	30
India	3,644	10.5-57.8	6	0.0	26
<b>Total</b>	<b>12,235</b>		<b>100</b>		<b>162</b>

Table 2: TL II short-term training plan for 2009

Topic	Participants	Tentative date	Venue	Duration (days)
Training Course on Chickpea Breeding and Seed Production	NARS scientists and technicians	6 Jan - 5 Feb	ICRISAT-Patancheru	30
Production of QDS (cowpea)	NARS scientists and extension	5-10 Jan	Iringa, Tanzania	6
PVS and Data Collection on On-farm Trials (Soybean)	Extension, farmers	22-23 Jan	Lilongwe and other districts, Malawi	2
PVS and Data Collection on On-farm Trials (Soybean)	Extension, farmers	26-28 Jan	Dowa and other districts, Malawi	3
TOT on soybean processing and nutrition (HACCP hygiene and sanitation)	NARS scientists and extension	10-13 Feb	Maseno, western Kenya	3
Innovative Technology Transfer	Extension (Government + NGOs)	19-20 February	Morogoro, Tanzania	2
Innovative Technology Transfer	Extension (Government + NGOs)	23-25 February	Arusha, Tanzania	3
Pigeonpea Seed Production	District extension, NGOs, CBOs, Seed Certification Institute, agro-dealers	23-27 February	Arusha, Tanzania	5
Hands-on Breeding Methodology and Crop Management	NARS scientists and technicians	February	ICRISAT-Bamako	15
Seed Delivery Schemes	Scientists, extension	12-13 March	Morogoro, Tanzania	2
Cowpea Seed Production Techniques for Extension Workers	Scientists, extension, technicians	March	Iringa, Tanzania	2
Regional Training Workshop on Qualitative and Quantitative Methods for Impact M and E	NARS scientists	March	IITA-Cotonou	5

Table 2: Continued

Topic	Participants	Tentative date	Venue	Duration (days)
Principles of Groundnut and Pigeonpea Seed Production	Extension and technicians	March-April	ICRISAT-Chitedze	2
Principles of Chickpea Seed Production and Management Strategies, Field Data Collection and Seed Cleaning	Extension, farmers	March-April	Lake Zone, Tanzania	9
Hands-on Training in Groundnut Breeding, ICM and Seed Production	NARS scientists	March/April	ICRISAT-Patancheru	30
Grain Legumes Seed Production, Processing and Marketing	Companies, district extension officers, NGOs, CBOs, seed certification institute, agro-dealers	9-10 April	Morogoro, Tanzania	2
TOT on Soybean Processing and Nutrition (HACCP Hygiene and Sanitation)	NARS scientists and extension	21-23 April	Busia, western Kenya	3
Training Workshop on Tracking Early Adoption	NARS scientists	April	ICRISAT-Patancheru	5
TOT on Soybean Processing and Nutrition (HACCP Hygiene and Sanitation)	NARS scientists and extension	21-23 April	Busia, western Kenya	3
Training Workshop on Tracking Early Adoption	NARS scientists	April	ICRISAT-Patancheru	5
Seed Management and Storage (for Farmers and Farmer Groups)	Scientists, extension, technicians	May	Iringa, Tanzania	4
Cowpea Seed Marketing for Farmers and Farmer Groups	Scientists, extension, technicians	June	Iringa, Tanzania	4
Training Workshop on Data Analysis and Report Writing (Common Bean)	NARS scientists (Ethiopia and Kenya)	June	KARI-Machakos	5

Table 3: Workshops conducted under TL II, September 2007 to December 2008

Topic	No. of participants	Date	Venue
In-country Stakeholders Workshop (Groundnut)	102	6-8 Sept 2007	ICRISAT-Patancheru
Chickpea Work Plan Meeting	5	6-8 Sept 2007	ICRISAT-Patancheru
Bean Seed Systems Inception and Planning Meeting	33	8-19 Sept 2007	Machakos, Kenya
Project Implementation Meeting	9	19 Dec. 2007	IITA-Nampula
Project Launch (Bean & Chickpea) Planning Workshop	75	14-15 January 2008	Adama, Ethiopia
Planning Workshop for Partners from Central and South Rift Valley, Nyanza and Western Kenya	14	17-18 January 2008	Machakos, Kenya
Groundnut Planning Workshop (WCA)	11	22-Feb-08	ICRISAT-Bamako
Groundnut Planning Workshop (WCA)	10	13 March 2008	Niamey, Niger
Review and Planning Workshop for the Central Rift Valley of Ethiopia	30	14 August 2008	Adama, Ethiopia
Pigeonpea, Groundnut, and Chickpea Review and Planning Meet (ESA)	20	4-5 Sept 2008	Dar es Salaam
<i>Rhizobium</i> Inoculums Workshop	24	17-21 March 2008	Arusha, Tanzania
Bean Seed Systems Regional Planning Workshop, Central Rift Valley	34	25 March 2008	Adama, Ethiopia
Bean Seed Systems Regional Planning Workshop, Southern Ethiopia	44	27 March 2008	SARI-Hawassa
Bean Seed Systems Planning Workshop, Northeastern Ethiopia	18	29 March 2008	Debre Berhan, Ethiopia
Groundnut Planning Workshop (WCA)	14	7-9 April 2008	Samaru, Nigeria
Bean Seed Systems Planning Workshop, West Hararge	18	14 April 2008	Chiro, Ethiopia
Bean Seed Systems Planning Workshop, East Hararge	18	18 April 2008	Dire Dawa, Ethiopia
Seed Systems Team Meeting	17	22-23 May 2008	Nairobi, Kenya

Table 3: Continued

Topic	No. of participants	Date	Venue
Chickpea Planning Workshop	34	16-18 June 2008	EIAR-Debre Zeit
Chickpea Review & Planning Meeting (SA)	6	17-18 July 2008	ICRISAT-Patancheru
TL II sub-regional annual review meeting for cowpea & soybean	14	20-22 August 2008	IITA-Chitedze
Project Launch Meeting (Objectives 1, 2 & 8; WCA)	47	5-6 Sept 2007	Bamako, Mali
Project Launch Meeting (Objectives 1, 2 & 8; WCA)	37	30-31 Aug 2007	ICRISAT-Niamey
Project Launch Meeting (Objectives 1, 2 & 8; WCA)	45	11-12 Sept 2007	IITA-Ibadan
Regional Review Meeting for WCA	30	14-16 Sept 2008	IITA-Kano
Planning for Central and Eastern Kenya	28	Sept. 2008	Machakos, Kenya
Review Workshops for Partners from Central, South Rift Valley and Nyanza and Western	29	Sept. 2008	Nakuru & Kisumu, Kenya
Annual Review and Planning Meeting	48	29 Sept-03 Oct 2008	Addis Ababa, Ethiopia
Groundnut Review & Planning Meeting (SA)	21	25-26 Nov 2008	ICRISAT-Patancheru
Annual Review and Planning Workshop for the Central Rift Valley of Ethiopia	46	December 2008	Adama, Ethiopia
Annual Review and Planning Workshop for Southern Ethiopia	29	December 2008	Hawassa, Ethiopia
Cowpea and Soybean Review and Planning Meeting	21	30-31 Dec. 2008	IIAM-Nampula
<b>Total</b>	<b>931</b>	<b>72(days)</b>	

Table 4: TL II workshops planned for 2009

Topic	Tentative date	Venue	Duration (days)
TL II Year 2 Work Planning Meeting (Soybean, TSBF )	29-30 Jan	Nairobi	2
Joint TL II-PABRA Workshop on Drought Tolerance	9-12 Feb	Lilongwe	4
Groundnut and Cowpea Review and Planning Workshop (WCA)	March	Bamako	2
Groundnut and Cowpea Review & Planning Workshop (WCA)	March	Niamey	2
Groundnut, Cowpea and Soybean Review and Planning Workshop (WCA)	March	Kano	2
Groundnut and Pigeonpea Review and Planning Workshop (SA)	7-8 May	ICRISAT-Patancheru	2
Seed Systems Review & Planning Workshop (ESA)	7-8 May	Morogoro, Tanzania	2
Joint Bean & Chickpea Review and Planning Workshop (Ethiopia)	20-22 May	Adama or Debre Zeit	3
The Under Fives Nutritional Assessment - Feedback Workshop	May/June	Western Kenya	1
Groundnut Stakeholders Workshop (Exporters)	1-2 July	Naliendele, Mtwara	2
Pigeonpea Stakeholders Workshop (ESA)	15-17 July	Babati, Tanzania	3
Chickpea Stakeholders Workshop	28-29 July	Shinyanga, Tanzania	2
Cowpea Seed Producers and Traders Joint Workshop	31-Jul	Iringa, Tanzania	1
Chickpea Review and Planning Workshop (SA)	Jul/Aug	ICRISAT-Patancheru	2
Soybean and Cowpea Review & Planning Workshop (ESA)	19-21 May	Nampula, Mozambique	3
Seed Systems Workshop	14-18 Sept	Bamako	5
Annual Review and Planning Meeting	16-20 Nov	Bamako	5

Table 5: Students currently undertaking their degree studies under TL II

Name	Gender	Degree	University	Date registered	Area of thesis
<b>Mali</b>					
Mamadou Diallo	M	MSc	Bamako	Oct. 2008	Cowpea breeding
Sory Diallo	M	MSc	Bamako	Oct. 2008	Cowpea breeding
Mamary Traore	M	MSc	Bamako	Dec. 2008	Groundnut breeding
Abdoulaye Diarra	M	MSc	Ouagadougou	Oct. 2008	Ag economics
Ibrahima Z. Doumbia	M	PhD	Bamako	Oct. 2008	Use of molecular markers (cowpea)
<b>Nigeria</b>					
Habibu Aliyu	M	MSc	Ahmadu Bello	Jul. 2008	Use of molecular markers (cowpea)
Auwal Adamu Umar	M	MSc	Ahmadu Bello	Feb. 2008	Cowpea breeding
Shaahu Aondover	M	MSc	Makurdi	Sept. 2008	Soybean breeding
<b>Ethiopia</b>					
Berhanu Amsalu	M	PhD	Pretoria	Aug. 2008	Bean breeding
Mitiku Demissie	M	MSc	Haramaya	Jul. 2008	Market chain (chickpea)
Tadesse Sefera	M	MSc	Haramaya	Sept. 2008	Chickpea breeding
<b>Kenya</b>					
Felix Waweru Muchiri	M	MSc	Nairobi	Sept 2007	Use of molecular markers (bean)
Peter Kaloki	M	MSc	Nairobi	Sept. 2008	Drought tolerance (chickpea)
David Nyongesa	M	PhD	Dar es Salaam	Sept. 2008	Agro-enterprise development
<b>Malawi</b>					
Wilson Chafutsa	M	MSc	Malawi	Aug. 2008	Seed technology (groundnut)
Lizzie Kalolokesya	F	PhD	Free State	Aug. 2009	Bean breeding
<b>Mozambique</b>					
John Bulassi Kaunda	M	MSc	Malawi	Aug. 2008	Cowpea breeding
Henrique Victor Colial	M	MSc	Malawi	Aug. 2008	Cowpea breeding
Anica Sandra Francisco Massas	F	MSc	Malawi	Aug. 2008	Soybean breeding
Guillermo Boina	M	MSc	Malawi	Aug. 2008	Seed technology (cowpea)
<b>Tanzania</b>					
Mohamed Ismael	M	MSc	Sokoine	Sept. 2008	Groundnut breeding
Juma Mfaume	M	MSc	Sokoine	Sept. 2008	Groundnut breeding
Didasi Tarimo	M	MSc	Sokoine	Jun. 2008	Cowpea breeding
Julius Missanga	M	MSc	Sokoine	Jun. 2008	Cowpea breeding
Justine A. Mushi	M	MSc	Sokoine	Sept. 2008	Soybean processing
<b>India</b>					
R. Deepika	F	PhD	Osmania	Mar. 2008	Chickpea breeding
Rachit K. Saxena	M	PhD	Osmania	Mar. 2008	Identification of molecular markers (pigeonpea)
Shrikant Laxmikantrao Swargaonkar	M	PhD	Marathwarda	Aug. 2008	Heterosis in pigeonpea

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