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*“Helping Indonesia to Grow”*

**AMARTA**  
**Quarterly Report of Project Activities and Achievements**  
**Quarter Three, 2010**  
**April 1 – June 31, 2010**

## **Introduction**

AMARTA is pleased to submit this second quarterly report which reviews activities undertaken during the 1 April – 30 June, 2010 time period. Important transitions affecting both the Project and its relationship with USAID occurred during this quarter: a new COP consolidated his position, USAID's permanent COTR returned, and the Mission's office of Economic Growth witnessed both a permanent Director and an Agricultural Development Specialist/Senior Economic Growth Advisor. Moreover, longstanding contractual issues concerning personnel and the extension of Activities in Papua were resolved.

Technically, Q3 witnessed considerable progress in all fields. Below is an accounting of these accomplishments.

## **Project Management**

### **Monitoring and Evaluation**

The following progress was made this quarter against the ten indicators that have been approved by USAID:

#### ***1a. Number of additional hectares under improved technologies or management practices***

In quarter three 2010, AMARTA added **4,019 hectares** under improved technologies through implementation of value chain interventions including the following Coffee (953 hectares), Vegetables (25 hectares), Tropical Fruit and Flowers (3,041 hectares).

#### ***1b. Number of additional units of animals, fish, and other aquaculture products under improved technologies or management practices***

In quarter three 2010, AMARTA added **14,830 kilograms** of Barramundi and mixed fish (Aquaculture) and **3** new swine (Livestock) under improved technologies through implementation of value chain interventions

#### ***2. Number of producers organizations, water users associations, trade and business associations, and community-based organizations (CBOs) receiving USG assistance***

In quarter three 2010, AMARTA assisted **523 associations and farmer's groups** through implementation of value chain interventions, including the following: Coffee (303 organizations), Vegetables (3 organizations), and Tropical Fruit and Flowers (217 organizations)

#### ***3. Number of agriculture related firms benefiting directly from USG supported interventions***

AMARTA implemented activities in new partnership with **20 agriculture firms**, including the following: Coffee (4), Vegetables (13), and Regional Agribusiness Competitiveness Alliances (3).

**4. Number of individuals who have received USG supported short term agricultural sector productivity training**

AMARTA conducts training programs to provide knowledge on best agricultural practices in an effort to improve local farmer's harvesting capacity and to meet international standards. In quarter three 2010, **7,182 farmers** participated in agribusiness trainings, including the following: Cocoa (260 participants), Coffee (2,494 participants), Vegetables (236 participants) Tropical Fruit and Flowers (3,570 participants), and Regional Agribusiness and Competitiveness Alliances (622 participants).

**5. Percent change in value of international exports of targeted commodities as a result of USG assistance**

The following exporters reported significant export value increases compared to last year's comparable quarterly sales:

**Cocoa South & Southeast Sulawesi, PT. Olam Indonesia;** total exports for the quarter were \$1,917,059 an increase of 17 % from last year

**6. Percent change in value of purchases from smallholders of targeted commodities as a result of USG assistance**

Impact of USG assistance has also produced additional positive results in the value of purchases from smallholders compared to last year's comparable quarterly sales:

**Cocoa South & Southeast Sulawesi, PT. Olam Indonesia;** value of purchases was \$1,747,980 for the quarter an increase of 3% from last year

**Vegetables West Java, CV. Bimandiri;** value of purchases was \$42,315 for the quarter or an increase of 34% from last year

**Vegetables West Java, PT. Momena;** value of purchases was \$464 for the quarter or an increase of 100% from last year

**Aquaculture Kokonao-Papua, Maria Bintang Laut Cooperative;** value of purchases was \$12,511 for the quarter or an increase of 369% from last year

**7. Number of new technologies or management practices made available for transfer as a result of USG assistance**

AMARTA activities have introduced **17 new technologies** or management practices available for transfer to farmers this quarter, including:

**Cocoa (1):** Pod line pruning method

**Swine /livestock (4):** Swine disease prevention, Vitamin injection for swine, Swine farm construction and Swine farm hygiene

**Vegetables (10):** New varieties of sugar snax 54 (super sweet baby carrots), Sprinkler irrigation system for watering baby carrots , Planting spacing for baby carrots, Post-harvest handling techniques for beef tomatoes, Spraying technique of beef tomatoes, Seedling tray for leafy greens, seedling tray for broccoli, High density planting for broccoli, Soil sterilization for broccoli, Making compost for rice in Agimuga.

**Coffee (2):** Coffee tree pruning and using Aravhis Pintoii as a cover top soil to protect coffee from weeds and bushes.

**8. Number of additional surveillance and/or control systems in place for agricultural threats**

This quarter AMARTA activities introduced **1 new control system** for Coffee which is Beauvariana Bassiana for combating cherry borers.

**9. Number of public private partnerships formed as a result of USG assistance**

This quarter, AMARTA activities have established **5 Public Private Partnership** to enhance agribusiness interventions, including:

(1) Cooperative Baliem Arabica with PT Pangansari Utama, (2) Cooperative Baliem Arabica with Highland Agriculture Development, (3) Cooperative Santo Isidorus with Highland Agriculture Development, (4) Bayu Radio in Kabanjahe, and (5) PT Momenta

**10. Number of women's organizations/associations assisted as a result of USG Supported interventions**

In quarter three 2010, AMARTA assisted **10 women's organizations/associations** through implementation of value chain interventions, including the following: Coffee (4 organizations), Vegetables (1 organization) and Tropical Fruits and Flowers (5 organizations)

**AMARTA Grants Program**

During the quarter, AMARTA continued to work with Baliem Arabica Cooperative and Maria Bintang Laut to implement important activities in Papua. An update of successful initiatives and ongoing implementation will be provided in the PADA Quarterly Report.

## Quarterly Overview

AMARTA maintained its focus on cocoa, coffee, high value horticulture and policy advocacy during the quarter creating three new Regional Agribusiness Competitiveness Alliances (RACAs) in Sulawesi, further cooperating with government agencies in West Java, expanding the major coffee and cocoa training programs in Sulawesi, North Sumatera, and Bali, and expanding floriculture and pineapple value chains to address significant demand. USAID provided final approval on June 16, 2010 for the AMARTA budget realignment and PADA II extension proposal in conjunction with PT Freeport Indonesia and LPMK, expanding activities in the Mimika Region of Papua.

## Advocacy for Improved Enabling Environment

### **Network and Partnership Development**

#### **Pak Pak Bharat RACA Addresses Farmers Concerns to Local Government**

In an effort to begin implementing the action plan of the newly established Regional Agribusiness Competitiveness Alliance (RACA) in Pak Pak Bharat, AMARTA and the Alliance of Pro-Agribusiness met with the C Commission District Parliament on April 14<sup>th</sup>. Three brief proposals were formally submitted to Parliament officials. As a result of the Alliance's proposal on improving the major road and bridge utilized by farmers, the C Commission pledged to survey the location and share their findings with the local



**Alliance of Pro-Agribusiness Pak Pak Bharat together with Regent of Pak Pak Bharat**

government to be included in the 2010 District Budget Plan. The meeting and dialogue was the first of its kind in Pak Pak Bharat, where the community held a direct dialogue with local government officials. Numerous members of the Alliance and farmers were appreciate and thankful to USAID/AMARTA in supporting and facilitating the new citizen advocacy organization that has empowered them to represent the community directly with the government to remove constraints in the agriculture value chain.

#### **Simalungun RACA Advocates for Farmers**

On April 23<sup>rd</sup>, the newly established RACA in Simalungun met with the B Commission District Parliament. Only two days prior the Alliance had participated in training regarding problem identification and articulated four constraints in the form of brief proposals: Transferring technology, post-harvest handling, access to markets, and access to finance. The Commission was extremely impressed by the final submission of thoughtful proposals and expected the Alliance to partner with them in order to identify

specific constraints to agriculture development in Simalungun. Currently, the local government provides only 3% of the development budget to agriculture and the Commission invited the Alliance to work together to increase the funding next year by participating in the annual hearing for the 2011 Budget Plan. As a result of this initiative the citizens and farmers in Simalungun will have the opportunity to voice their priorities in the budgeting process and expect to have new projects with allocated funds directed toward improving the horticulture value chains.



The new Alliance in Simalungun meets with Commission II of Parliament

### The Karo Horticulture Community Alliance and Barangan Banana Alliance of Deli Serdang Accesses New Markets through Carrefour



The Karo Horticulture Community meets with the Fruit and Vegetable Manager of Carrefour Medan

The Karo Horticulture Community and Barangan Banana Alliance of Deli Serdang discussed and identified key constraints together including access to finance and reaching modern markets. In an effort to remedy the situation both Alliances met with Carrefour Medan, regarding the quality and pricing requirements they insist upon to supply their supermarkets. After several meetings, negotiations, and quality assurance verification a contract was signed between the

Banana Alliance and Carrefour on May 10<sup>th</sup>, and the Karo Horticulture Community alliance on June 15<sup>th</sup>. Both Alliances are thrilled to partner with a well known brand such as Carrefour and pleased they were able to achieve the strict quality requirements and standard production levels required by modern markets.

The two Alliances also participated in a seminar focusing on accessing the Swiss and European markets for fruits and vegetables on June 1<sup>st</sup>, conducted



The Alliances join the Seminar on Accessing Swiss and European Markets

by the Swiss Import Promotion Program (SIPPO) in cooperation with the Regional Export Training and Trade Promotion Department (RETCP) of North Sumatera.

A day before the seminar a delegation visited the banana demonstration plot run by the Banana Alliance. Mr. Hermen Aeschbach, Senior Consultant of SIPPO; Mrs. Diyan Hastarini from Swiss Contact; and Mrs. Sri Maryani, Director of the Agriculture Division from the National Agency for Export Development from the Ministry of Trade admired the support of USAID/AMARTA through the demonstration plots and the Alliances activities. The organization has included them in their market information database and invited them to the *World Fruit and Vegetables Exhibition* on February 2011 in Berlin. Mr. Aeschbach recommended to the Director of the District Department of Trade in North Sumatera to facilitate local government support for the Barangan Banana Alliance of Deli Serdang to participate. The delegates were also impressed that both of the Alliances had completed deals with Carrefour to supply fresh fruits and vegetables- translating into certified quantity and quality standards reached by member farmers.

### **RACAs Continue Public Radio Broadcasts for Farmers**

The Karo Horticulture Community Alliance and the Deli Serdang Banana Alliance continued broadcasting educational and informational programming on local and RRI Radio. The shows began two years ago in order to provide useful information for farmers including an interactive dialogue allowing farmers and traders to ask questions regarding horticulture, particularly citrus standard operating procedures. As a result of this long term initiative, AMARTA has been able to continually support farmers participating in formal training events, as well as reaching new farmers who are able to learn about innovative production methods and technology.

### **Expanded Partnerships with the Sulawesi Government Results in Creating Three New RACAs**

#### **RACA Establishment in North Luwu**

On April 6<sup>th</sup>, AMARTA facilitated the initial meeting for the establishment of a RACA in North Luwu. It was attended by 37 participants including farmers, exporters, and government officials. Some key discussion points included: An assessment of the cocoa export tax policy that has adversely impacted cocoa farmers throughout Indonesia, to be conducted by the Trade and Industry Agency and also parliament representatives from North Luwu; the high incidence of disease attacking cocoa and the integrated control methods to mitigate the impact; and the lack of institutional capacity of farmers'



**Initial meeting of the Alliance in North Luwu attended by various cocoa stakeholders**

organizations that needs to be strengthened by creating a special program. All participants agreed to form an alliance to support cocoa sector development.

A follow-up RACA workshop was then held in North Luwu on May 11<sup>th</sup>, and attended by 60 participants from the local government, farmer's forum, Estate Crops Agency, PT Olam, Koperindag, APKAI, and other local NGOs. Participants addressed the issues of lack of access to finance for farmers, the continuing adverse impact of the cocoa export tax decreasing income for farmers, increasing fertilizer prices, and fermented versus standard cocoa production.



The Regent of Masamba opens the workshop

As a result of the event an Alliance was officially created and registered. Also, participants concluded that the difference in price of Rp. 2,000 between normal and fermented beans did not provide enough incentive for farmers to add to the processing of their cocoa and without a market mechanism or price signal raising the value few farmers would continue to ferment. Finally, a formal appeal to the government requesting the export tax be repealed will be finalized and sent to the Central Government.

### **RACA Establishment in North Kolaka**

On April 8<sup>th</sup>, AMARTA facilitated a meeting in Lasusua, North Kolaka in an effort to establish a new RACA. Twenty two related stakeholders attended, including: the Estate Crops and Horticulture Agency, the Agricultural Extension Agency, B-Legislative Commission, banks (BRI and Cab Kolaka), PT Olam, and Cocoa Farmers Association of Indonesia (APKAI) who all confirmed their support regarding the importance of creating an Alliance.



Initial RACA meeting with cocoa stakeholders in North Kolaka

Several issues were discussed regarding the implementation the export tax, the extension system, lack of access to capital and financial services, cocoa pests and diseases, the trade system that is not transparent enough for cocoa farmers to understand prices and premiums paid for quality, and low productivity from cocoa trees.



The second workshop was held in North Kolaka on May 12<sup>th</sup>, and attended by 60 participants from the Estate Crops Agency, the Industry and Trade Agency, farmer groups, PT Olam, BRI bank, and APKAI. Some of the outputs as a result of the workshop include: Provision of superior clones for rehabilitating old trees used by many farmers, creating a local movement to encourage cocoa farming, funding support from the banking sector leveraged by the National Land Agency associated with the land certification system, and establishing a specific export port for cocoa in North Kolaka.

### **RACA Establishment in Polman**

The first meeting intended to establish a RACA in Polman was held on April 22<sup>nd</sup> and opened by the Regent of Polman, Dr. H. Ali Baal. A total of 73 participants attended including the Polman Estate Crops and Forestry Agency, farmer groups, PT Armajaro, and local NGOs. A number of interesting issues were discussed, such as: The new export tax policy adversely impacting farmers, the Gernas program, increase in fertilizer prices, government extension services, joint marketing opportunities, and the cocoa certification program conducted by PT Nestle in Polman.



**RACA participants in Polman, West Sulawesi**

A second workshop was held in Polman on May 14<sup>th</sup> and attended by 70 participants who reviewed some of the previous findings and noted that over 600,000 people are depending on cocoa farming in the region. Some positive outputs resulted in the local government's willingness to establish a cocoa wholesaler market in Polman, as well as BRI Bank's commitment to facilitate small loans if the necessary paperwork and collateral are supplied.

On June 18<sup>th</sup>, SIKAP Mandar was officially declared as a Community Cocoa Alliance in Polewali Mandar in front of 138 participants.



**Inauguration of the SIKAP Mandar Alliance**

This declaration was witnessed directly by the Regent of Polewali Mandar, Dr. H A Ali Baal. Dr. Baal welcomed the formation of the Alliance and affirmed that the organization can assist the government in coordination and communication, providing input to the government in supporting cocoa farmers. He also offered support from the government in the form of office space and other in-kind resources to assist SIKAP Mandar in carrying out their activities.

## Continued Collaboration with Local Governments in Bali

Two RACA meetings were held from April 20<sup>th</sup> - 23<sup>rd</sup> with the Community Alliance of Cocoa in Tabanan (AMARKATA) and the Community Alliance of Cocoa in Jembrana (ALKANA). The two day sessions focused on institutional capacity building. In Tabanan, 38 people attended the event that was officially opened by the Head of the Forestry and Estate Crops Agency. In Jembrana, 45 participants from farmer groups, The Estate Crops Agency, and the Forestry and Marine Affairs Agency worked with the organization to strengthen capacity to lobby the government on behalf of cocoa farmers and work closely with the private sector.



Group discussion at RACA Meeting, Jembrana- Bali

The next event in Tabanan during May included a public hearing with Parliamentarians and the Estate Crops Agency. In total 45 participants from Parliament, BAPPEDA, Disbun, and farmer groups discussed strategies that could result in improved cocoa competitiveness. A number of policy proposals were formulated including: providing pruning tools, superior cocoa clones, infrastructure facilities, and facilitating comparative studies to Sulawesi.

The May RACA meeting in Jembrana was attended by 52 participants including the Chairman of Parliament Mr. Made Kembang Hartawan, Bappeda, and farmer groups. As a result of the open dialogue it was determined that the Jembrana Government, through the Parliament, would raise the priority of the cocoa sector and ensure funding and supports were provided in the future. The Alliance was also requested by the Government to take on a more active role in influencing agricultural policy.

In June, the two Alliances joined together in an effort to establish one combined organization that would represent cocoa farmers at the provincial level. AMARKATA and ALKANA met together from June 22<sup>nd</sup> - 23<sup>rd</sup> with representatives from the Bali Provincial Estate Crops Agency, as well as Forestry and Estate Crops Officials at the District level, including Mr. Putu Budiastra from Tabanan, and Mr. Luh Anggraeni from the Jembrana Marine Forestry and Estate Crops Agency. A total of 71 participants attended the discussions with the local government regarding issues raised in the field, such as side grafting and incentive funds provided by the government to farmer groups through the LM3 program.



The Alliances meet with Provincial authorities

During the second day, the combined entity elected a Chairman and formed an organizational structure. As a result of deliberations, Mr. Nyoman Suranata from Jembrana was unanimously elected as Chairman of the Joint Alliance. The key tasks of the new organization will be voicing the problems faced by cocoa farmers and providing input and feedback on government policies impacting farmers.

## **Cocoa**

Indonesia's Cocoa farmers are confronting serious challenges in the form of widespread disease infestation, aging stock, poor cultural practices, and new taxes on exported production. The average yields have declined from 590 kg/ha to 400 kg/ha. AMARTA is pleased to report that in the fifteen months the project has focused on improved production practices, the average yield on Project – assisted fields has actually increased by 150 kg/ha to 750 kg/ha. Below, we provide data on methods AMARTA cocoa specialists used to achieve this growth.

### **Sulawesi Kakao Alliance (ASKA) Program - Sulawesi**

#### **Solar Dryer Development**

To support the improvement of quality cocoa beans produced by farmers, AMARTA provides technology assistance and material support for constructing solar dryers, while the farmer groups provide the equipment and other materials to build 1 x 3 meter structures that can hold about 45-50 kg of cocoa. The new technology allows farmers an alternative solution for drying the cocoa in rainy season so they can produce higher quality beans. By June, the total number of dryers built reached 300 units- 100 each in South Sulawesi, Southeast Sulawesi, and West Sulawesi as seen in the following table:

**Table 1:** List of Solar Dryer Distribution per Region

No.	Province/Region	Number of Solar Dryer established
1.	West Sulawesi /Polman	100 unit
2.	South Sulawesi /North Luwu	70 unit
3.	South Sulawesi /East Luwu	30 unit
4.	Southeast Sulawesi /North Kolaka	100 unit
<b>Total</b>		<b>300 unit</b>

Some of solar dryer design model that has been set up:



**Solar dryer with rack model that allows for**



**Roll up top model in Luwu**

*“I personally, and as a member of Pala Kerti Farmer Group wish to thank USAID /AMARTA for sharing the technology and providing the plastic for the solar dryer so that the cocoa farmers in our group were very enthusiastic and reinvigorated to manage our gardens again”. Mr. Pande, Chairman of Pala Kerti Farmer Group, Jembrana, Bali*

### Farmer Field Day in North Luwu

Farmer Field Days are events where farmers meet, learn, and share experiences with other farmers at AMARTA demonstration plots. This activity is one method that is considered quite effective in reinforcing newly acquired knowledge and adoption practices. Visiting successful gardens that have applied new cultivation techniques allows farmers first-hand exposure to their peers who have increased productivity and quality. On June 17<sup>th</sup> a field day was held in Batualang Village, North Luwu with 138 farmers from 40 farmer groups attending. Government officials also participated in the event. As a result of this activity, farmers have increased their skills and knowledge relating to intensification, replanting, and rehabilitation, and were motivated by other farmer’s successes in pre-harvest methods and post-harvest handling.



Discussions between farmers and the demonstration plot owner



Participants observe some excellent local clones exhibited by farmer groups

### Progress of Cocoa Model Garden Demonstration Plots

Demonstration plot gardens also provide farmers with convenient access to learn firsthand by seeing a model garden in their area. The plots are located in strategic areas near the training sites for access by all training participants. These model gardens are managed by field trainer coordinators and serve as an indicator for good practices and also the development of some technological research and studies.

**Table 2:** Description of demonstration plots in Sulawesi, problems, and solutions

No.	Location	Pest & Disease observation	Controlling / Technical Recommendation
1.	Pulliwa, Bulu, Polman	Helopeltis, Trunk Canker	Pruning, pull off the affected skin/slicing and use natural pesticide like ginger
2.	Bussu, Tapango, Polman	Black pod,	Pruning, sanitation (bury the infected pod)
3.	Batualang, Sabbang, North Luwu	Black pod, VSD	Cut the infected branches to eliminate VSD effect, sanitation,

			pruning, fertilizing, and bury the infected pod
4.	Cendanahijau, Wotu, East Luwu	Black pod, trunk canker	Pruning, sanitation (bury the infected pod), slicing the infected trunks, provide natural pesticide
5.	Pakue, North Kolaka	trunk canker	slicing the infected trunks and providing natural pesticide
6.	Lawalatu, Ngapa, North Kolaka	CPB, VSD, Black pod	Pruning, sanitation (bury the infected pod), fertilizing



**Demoplot garden at Batualang Village, Wotu District, Polman**



**Plot intensification at the dem plot in Cendana Hijau Village, North Luwu**

*“I never thought that I would be able to grow cocoa again after my trees were attacked by VSD. I now have some of the most high quality coca trees in the village and I’m very proud of my hard work. I plan to reinvest the profits back into my cocoa and hope to continue to be bale to support my family.” Mr. Sukardi, Cocoa farmer from North Luwu, South Sulawesi*

### **Clone Trials with ICCRI**

In an effort to improve the overall quality of cocoa trees and prepare farmers for the future, significnat clone trials have been conducted with the Indoensian Cocoa and Coffee Research Institute (ICCRI). In April, grafting was tested with ICCRI clones at three demonstration plots in Polman, two plots in North Luwu, two plots in East Luwu, and four plots in North Kolaka. The tested clones consisted of ICCRI 03, ICCRI 04, ICCRI 2005, SCA 6, Sulawesi 1 and Sulawesi 2. Each clone consisted of 10 trees, so the total grafting for testing were about 60 gratings per trunk.



**Clone testing**



**Clone Sulawesi 2 grafting at cocoa model garden Pulliwa Village**

## Clone exploration

In general, clone exploration was conducted in all areas of Sulawesi to inform farmers about the importance of superior planting material to increase production utilizing a variety of criteria, including high production and resistance to certain pests and diseases. Exploration clones were created to identify superior planting material. Information was collected and eventually a selection was made after going through various observations and testing on the production and resistance to pests and diseases. AMARTA has helped identify the most superior clones that can be further tested by institutions to provide the most suitable local varieties.



Some results of superior local clones in North Luwu, South Sulawesi; there are 31 superior local clones that have been tested

## ASKA Farmer Field Training Activities

During the quarter, ASKA continued training for the current Cycle in three new topics: 1) Pest and diseases; 2) Nursery Development; and 3) Harvesting technology and sorting of cocoa pods. Each AMARTA field technician supervises 10 farmer groups. Training activities are divided into two main categories of basic training and follow-up activities measuring the level of training adoption.

Training was conducted on pests and diseases from April 12<sup>th</sup> - 23<sup>rd</sup> where farmers were expected to be able to identify some of the major pests and diseases hampering cocoa production, identify the symptoms and impacts, and illustrate that they can control and, ideally, prevent pests and diseases from attacking cocoa trees. In total, 100 farmer groups (FGs) were trained in North Kolaka including 2,138 (86%) men and 327 (14%) women; in North and East Luwu 100 FGs including 2,042 (84%) men and 377 (16%) women; and in West Sulawesi 100 FGs including 2,138 (87%) men and 327 (13%) women. To support the implementation of training programs, AMARTA distributed fact sheets, posters, and VCDs.

**Table 3:** Participants attending ASKA training

Time and topic	# of FGs and Location	Attendance		
		Total	Male	Female
Major Pests and Diseases on	100 FGs in South Sulawesi	2,419	2,042	377

Cocoa plant (April 12nd – 23rd 2010)	100 FGs in West Sulawesi	2,344	2,077	285
	100 FGs in Southeast Sulawesi	2,465	2,138	327
<b>Total (300 FGs)</b>		<b>7,228</b>	<b>6,239</b>	<b>989</b>



Sanitation treatment for cocoa husks (immersing of infected husks) to prevent fungal growth



Cocoa pod infected by black pod, caused by a high level of humidity and fungus

Additional training was conducted on nursery development from May 10<sup>th</sup> - 22<sup>nd</sup> where farmers were expected to make cocoa seedlings, grow and select good seeds, build a nursery house, and understand the process of breeding management. In total, 100 FGs were trained in North Kolaka including 2,111 (87%) men and 319 (13%) women, in North and East Luwu 100 FGs including 2,048 (87%) men and 312 (13%) women; and in West Sulawesi 100 FGs including 2,017 (87%) men and 303 (13%) women.

**Table 4:** Participants attending ASKA training

Time and topic	# of FGs and Location	Attendance		
		Total	Male	Female
Nursery Development (May 10 <sup>th</sup> – 22 <sup>nd</sup> 2010)	100 FGs in South Sulawesi	2,360	2,048	312
	100 FGs in West Sulawesi	2,320	2,017	303
	100 FGs in Southeast Sulawesi	2,430	2,111	319
<b>Total (300 FGs)</b>		<b>7,110</b>	<b>6,176</b>	<b>934</b>



**Practicing planting medium preparation and filling poly bags**



**Practicing seed sorting and treatment**

Further training was conducted on harvesting technology and sorting of cocoa pods from June 14<sup>th</sup> – 26<sup>th</sup> where farmers learned best practice techniques for picking the cocoa pods on a regular basis and classified them based on the maturity and source of fruit (primary, secondary, or tertiary stems), as well as organizing labor for harvesting. At these sessions 100 groups were trained in North Kolaka including 2,118 (79%) men and 502 (21%) women; in North and East Luwu 100 FGs including 1,995 (87%) men and 307 (13%) women; and in West Sulawesi 100 FGs including 2,005 (86%) men and 325 (14 %) women.

**Table 5: Participants attending ASKA training**

Time and topic	# of FGs and Location	Attendance		
		Total	Male	Female
Harvesting and sorting of cocoa pods, cocoa pods handling and drying techniques (June 14th – 26th)	100 FGs in South Sulawesi	2,302	1,995	307
	100 FGs in West Sulawesi	2,330	2,005	325
	100 FGs in Southeast Sulawesi	2,420	2,118	502
<b>Total (300 FGs)</b>		<b>7,052</b>	<b>6,118</b>	<b>1,134</b>



**Raw beans ready for sorting**



**Sorting procedures for harvested cocoa**



### **Additional Support for Cocoa Farmers**

Strengthening activities are conducted after the farmer groups receive training in the classroom sessions. The aim is to improve the adoption by participants, as well as facilitate small working groups in the field. In April, efforts were made in Polman, North Luwu, North and East Luwu, and North Kolaka focusing on local identification of superior clones, maintenance, and applying all of the theoretical good agricultural practices training completed in the classroom.

In June 2010 strengthening activities in Polman, North Luwu, East Luwu, and North Kolaka focused on producing high quality seedlings, grafting in the nursery, and harvesting during the major season where beans were sold both individually and collectively.



**H. Nasir (Padaidi FG in Batualang village) showing local clones that have produced high production and resistance to black pod disease**

### **Buying Unit Issues and New Government Cocoa Taxation Impact**

Some significant events occurred at the buying units at ASKA locations, especially for PT Olam and UD Tunas Jaya. After the new cocoa export tax was applied in April 2010, some buying units did not make purchases, resulting in cocoa bean prices declining at the farmer level from Rp. 21,000 to Rp. 16,000 on average. The reaction affected local buyers as well since traders did not want to suffer significant losses after the implementation of the export tax resulting in cocoa prices sliding further. It was also in protest to the government's application of the new tax policy. PT Olam, however, did open a new buying unit in Mangkutana on June 28<sup>th</sup> where AMARTA hopes ASKA farmers in East Luwu can access the market.

Unfortunately, all Tunas Jaya buying units have closed since the company became insolvent. During May, in West Sulawesi, where there are 100 AMARTA FGs participating in training, the farmers could no longer sell cocoa to UD Tunas Jaya. In June, several FGs under AMARTA actively began to target joint marketing opportunities, for example: In North Luwu and North Kolaka farmers collected large quantities of cocoa and transported them to the PT Olam and PT Armanjaro buying stations in more distant locations. Several other FGs sold their beans to Cooperative Sibalireso Masamba, who purchases fermented cocoa, while wet beans were sold to PT Mars in North Kolaka. AMARTA continues to explore ways to assist farmers in reaching exporters or local traders who provide a quality premium, as well as working with government officials to address farmer's concerns about the new cocoa export tax.

### **2010 ASKA-SKA Baseline Survey**

In April, the 2010 Baseline Survey results were provided. The tool was designed to provide initial information before AMARTA interventions began in order to compare results after training and technical assistance are completed, and was implemented in six provinces in Sulawesi and two in Bali. It involves 360 farmer groups totaling 9,000 cocoa farmers- 7,500 in Sulawesi and 1,500 in Bali. The survey utilized a sampling method where respondents were selected from each farmer group (12% from the total of group member). The farmers were interviewed in detail by AMARTA field staff and farmer trainers in all program sites. The data was then sent to the Makassar for further input, processing, tabulation, and analysis. The key finding was that farmer's average income per hectare per year in 2008 was about Rp. 8.2 million which increased 14% to Rp. 9.3 million in 2009.

### **SustaIndonesia Kakao Alliance (SKA) – Bali**

#### **Farmer Field Day in Jembrana**

A farmer field day was conducted in Jembrana on June 24<sup>th</sup> at the demonstration plot in Yeh Embang Kangin Village. In total, 70 people, including farmers, extension agents, and other government officials attended the event focusing on side grafting, introducing superior local clones, choupon grafting, and nursery management. The farmer groups were particularly interested in side grafting models from AMARTA since they have witnessed the results where grafted trees grew faster and healthier.

On the second field day held at Megati Village in Tabanan on June 25<sup>th</sup>, 52 participants from the Department of Provincial Estates, extension services, and local village officials attended. Topics discussed included side grafting, nursery development, pests and diseases, and an exhibition of local superior clones. There was also a request from the Estate Crops Department to actively assist on side grafting activities undertaken in the Gernas program. AMARTA displayed the 13 clones currently being tested.



**Farmer field day in Jembrana**

#### **Progress of Model Cocoa Garden Demonstration Plot**

In June, AMARTA worked with ICCRI to re-graft 72 clones at two ICCRI demonstration plots in Tabanan and Jembrana. The action was necessary because the growth rate for ICCRI clones was below 30% overall. By providing the improved measures, ICCRI hopes to attain a 90% growth in both plots. On June 19<sup>th</sup> and 20<sup>th</sup>, Mr. Eko from ICCRI visited both locations in Tabanan and Jembrana, along with the farmers and AMARTA trainers, where he discussed the conclusions that many graftings failed because they were

infected by phytophthora, which typically occurs due to less intensive post-grafting treatment and high rainfall. Another step he recommended was to re-graft the Sulawesi 1 and 2 clones and ensure the clones are provided directly from Sulawesi.



Re-grafting techniques illustrated by ICCRI

### Farmer Training Activities

During the quarter, ASKA continued training for the current Cycle in three new topics: 1) Pest and diseases; 2) Nursery Development; and 3) Harvesting technology and sorting of cocoa pods. Each AMARTA field technician supervises 10 farmer groups. Training activities are divided into two main categories of basic training and follow-up activities measuring the level of training adoption.

### Overview of SKA Farmer Training Activities



Pala Kerti FG at Kali Akah village, Jembrana

In April, follow-up activities were completed for each FG on fertilization techniques. The training session showed farmers how to either create appropriate organic fertilizer obtained from the surrounding environment, or make compost using readily available materials. During this session 30 FGs with 756 farmers from Tabanan participated, 673 (89%) men and 83 (11%) women. In Jembrana 30 FGs totaling 744 farmers, 719 (97%) men and 25 (3%) women participated.

The next session on April 15<sup>th</sup> discussed recognition and control of pests and diseases. The farmers were keenly interested in the topic since most of the problems faced in Tabanan and Jembrana are primarily related to these challenges. Some of the recommendations delivered by the farmer trainer to overcome Black Pods is earlier pruning, spraying with a natural fungicide (liquid betel leaf), and improved sanitation through regular harvesting. After the training, farmers noted that they felt more confident in handling the challenges they face.



To support the training, AMARTA distributed fact sheets to all 60 groups of farmers about regular harvesting, pruning, sanitation and

Kembang Sari FG at Sangketan Village, Tabanan

fertilization (PsPSP) one of the most effective agriculture practices. Posters and VCDs were also provided to attendees for future reference.

**Table 1:** Participants attending SKA training in fifth topic

Time and topic	# of FGs and Location	Attendance		
		Total	Male	Female
Pest and disease (April 15 <sup>th</sup> – 30 <sup>th</sup> , 2010)	30 FGs in Tabanan	751	677	72
	30 FGs in Jembrana	746	725	23
<b>Total (30 FGs)</b>		<b>1,497</b>	<b>1,402</b>	<b>95</b>

The next topic presented was harvesting and sorting of cocoa pods, cocoa pod handling, and drying techniques conducted from May 15<sup>th</sup> to May 31<sup>st</sup>. Farmers were exposed to improved methods of harvesting and pod sorting that will be useful in determining the quality of their cocoa. During this session, 30 FGs in Tabanan attended totaling 750 farmers, 678 (90%) men and 72 (10%) women. In Jembrana, AMARTA trained 30 FGs totaling 738 farmers, 725 (98%) men and 13 (2%) women.

In June, training sessions were delivered on pod sorting and harvesting technology and drying the cocoa beans. AMARTA introduced and recommended that farmers use solar dryers to speed up drying time and efficiency. The technique was especially suitable in June when the rainfall continued to be quite high. In this session, 1468 participants were trained including 1368 (93%) men and 100 (7%) women. The final session provided insight into the appropriate sorting and storage of cocoa beans. Farmers learned how to sort the beans before drying then store them properly to avoid mold and waste. A total of 1,462 farmers attended the session, 1,371 (93%) men and 91 (7%) women.

### **Collaboration with the Bali Estate Crops Office**

Based on the agreement between AMARTA and the Estate Crop Agency of Jembrana and Tabanan, each agency committed to sending four of their staff to participate in the training with AMARTA FGs. A total of 40 FGs attended the training on socialization and garden evaluations.

**Table 2:** Participants attending follow up training in first topic

Time and topic	# of FGs and Location	Attendance		
		Total	Male	Female
Socialization and garden evaluation (23-29 April , 2010)	24 FGs in Tabanan	626	607	19
	20 FGs in Jembrana	465	450	15
<b>Total (40 FGs)</b>		<b>1,090</b>	<b>1,057</b>	<b>34</b>

Considering the old age of many cocoa trees in the two districts the farmers were very interested in side grafting training to increase their production. Farmers also conveyed to the extension staff their interest in more intensive training on how to prevent fallen cocoa cherelle wilts during the rainy season, which adversely impacted this year's production. In May, the Estate Crops Agency staff performed training for 80 FGs with 973 participants in Tabanan and 946 in Jembrana on pruning, sanitation, and fertilizing. The training was followed up with additional technical assistance in June for the 80 FGs on pruning, sanitation, clone selection, and grafting techniques. The total number of participants in Tabanan was 995 farmers, while in Jembrana 897 farmers participated.



Estate Crops Agency training at Pala Werdi FG in Tabanan, Bali

### **Farmer and Exporter Business Meetings in Tabanan and Jembrana**

In order to bring the cocoa FGs in Tabanan and Jembrana closer to buyers, AMARTA initiated a meeting between farmers and exporters on May 18<sup>th</sup> in Mendoyo District, Jembrana; with a similar event in Tabanan being held at Angkah Village. The goal was to build partnerships between cocoa farmers in Bali and PT Olam Indonesia through explanation of the transparent buying system based on standards of Indonesian cocoa markets. Government officials, the two RACA's, and FG leadership listened to PT Olam's explanation on conducting fermented coca buying, and emphasizing that the product must be in accordance with accepted standards. No formal agreement was signed regarding purchasing because of ongoing price negotiations that must be completed. The cocoa farmers did agree to entrust the sales process to the AMARKATA Alliance, who plans to start sales in late July 2010 after the purchasing agreement has been signed. As a result of this effort, both districts cocoa farmer's expect to receive a fair price for their cocoa with improved market access through PT Olam.



Farmers meet with PT Olam and the Estate Crops Office in Tabanan

## **Coffee**

### **Improving the Coffee Value Chain in North Sumatera**

AMARTA's objective to strengthen the coffee value chain, focusing on increasing productivity and quality, continued with trainings in collaboration with government extension agents who presented good agricultural practices (GAP) including seed selection, coffee nurseries, planting, maintenance, pruning, disease identification, and improving post-harvest handling. The sessions held in Pak Pak Bharat and Simalungun are a combination of theoretical and practical training at the field demonstration sites.

During the quarter, AMARTA trained 2,438 farmers, including 1,580 (65%) men and 858 (35%) women. AMARTA also added 953 hectares under improved technologies and assisted 302 FGs in practicing GAP and standard operating procedures (SOPs) in coffee cultivation. AMARTA has produced a new coffee manual and posters to distribute to coffee farmers and local governments as resource materials. Initial feedback from farmers was that this is the first and only training manual they have ever received, and were extremely grateful for the easy to understand reference book.



**Training in Sondi Raya Village**

### **Building Partnerships with Government Extension Agents in Simalungun**

On June 18<sup>th</sup> and 23<sup>rd</sup> AMARTA conducted meetings with government extension agents in Simalungun. The objective was to review and evaluate current activities and determine future actions to improve coffee quality and yields. The extension agents proposed that efforts be made to identify the champion coffee farmers in each village AMARTA holds training in order for other farmers to see the increased results of productivity and quality. There were 12 champion farmers who were nominated and AMARTA and the extension agents will work on program activities to transform the nominees' farms into showcase farms for other trainees to visit.

### **Establish Geographical Indications**

Two meetings with the Department of Agriculture and Directorate General of Processing and Marketing were held to explain the importance of establishing, and technique for developing, geographical indications (GIs) in Indonesia. The first meeting was held on May 24<sup>th</sup> where the discussion focused on the role of GIs to protect the origin. The second meeting on June 17<sup>th</sup> provided an update on the needs from the GI Protection Community from Bali Kintamani and Aceh Gayo to develop promotion of the brand. In addition, technical matters about registration regulated in the Government Decree, the process of monitoring, and the difference between a collective trademark and GIs were discussed based on the results of the French Agricultural Research Center for Development (CIRAD) research funded by AMARTA.

The findings by CIRAD helped identify the chemical profile of Sumatera coffee and supported the hypothesis that buyers will pay a premium for specialty coffee if they can be sure where it was grown. In the industry, this is called “traceability”. The GIs create a legal framework for traceability. Once a GI is established by the Government of Indonesia, only coffee from that origin can be sold under the registered name.

Funded by AMARTA, The Specialty Coffee Association of Indonesia (SCAI) and CIRAD, are working to develop scientific methods of identifying coffee from different origins. During the 2008-2009 season, 32 type samples of Arabica coffee were collected in the origins of Sidikilang, Lintong and Gayo. CIRAD has developed a method of analyzing coffee samples using infrared light. By looking at a range of chemicals, this method can detect extremely small differences between samples. The researchers looked at seven constituents of the coffee, including moisture, fat, sucrose, caffeine, trigonelline and chlorogenic acids.



GI maps showing unique regions in the Lake Toba area of North Sumatera

The researchers then used statistical methods to analyze the concentration of other chemicals in the coffee. They found that the Gayo samples could be separated from the Sidikilang and Lintong samples 100% of the time, making this difference highly significant. The Sidikilang samples could be identified 89% of the time and Lintong 92% of the time. The results show that it is possible to scientifically distinguish between Arabica coffees from different origins in Sumatera. In the future, these methods could be used to market Indonesian coffee and enforce GIs.

### **Expand Promotion of Indonesian Specialty Coffee in the Domestic and Global marketplace**

The SCAI website was activated in early 2009 and has had 45,639 unique visitors (on average 2,684 visit per month) and received 513,079 total hits (on average 30,181 hits per month) from all over the world. The visit and hit rate showed an increasing trend: In the past quarter, the SCAI website has received more than 4,000 visitors per month. Forty-two percent of the website visitors were Indonesian, 27% from the USA, 12% from China and 18% from various other countries including Germany, Russia, Romania, England, Australia, and Malaysia.

### **Origin Tour by the Moscow Coffee House to Sumatera, Java, and Toraja**

From May 21<sup>st</sup> through 31<sup>st</sup> SCAI coordinated the visit of its members Valery Zарvazin and Maxim Bodiansky from The Moscow Coffee House to SCAI members' farms and processing facilities. Moscow Coffee House wanted to visit Indonesia because demand for Indonesia coffee in Russia is increasing. Their objective was to understand the

farms, processing, and the vendors who supply the coffee. They also would like to build relationships and discuss terms and conditions with exporters. They visited the farmers and the processing facilities of PT Menacom, PTPN XII, PT Indokom, and CV Lion Lestari. SCAI provided the company data on production and exports in Indonesia.

### **SCAI Participates in the Specialty Coffee Association of America Event**

From April 15<sup>th</sup> to 18<sup>th</sup>, SCAI and some of its members traveled to Anaheim, California to the 2010 Annual Trade Show and Exposition organized by the Specialty Coffee Association of America (SCAA), the largest coffee event in the world. The show includes a number of events highlighting different aspects of the coffee industry. These include the World Barista Championship, an educational symposium, a coffee quality contest called “Cup of the Year”, and numerous training courses and lectures.

The SCAI booth was decorated with seven banners and maps representing the major Indonesian coffee origins, including: Gayo, North Sumatera, Java, Flores, Bali, Toraja, and Papua. Ten agriculture companies and one cooperative from Papua were involved in this successful event. More than 200 visitors provided the SCAI team with their contact details, demonstrating their interest in learning more about Indonesian coffee. In past years, SCAI members have developed valuable business relationships from the contacts made with booth visitors. Although many visitors were aware of Indonesian coffee, they appreciated the opportunity to speak directly with exporters and sample coffee from various origins. A number of buyers expressed interest in purchasing copies of the maps, resulting in nearly \$1,000 in orders. The contracts closed during the event totaled a minimum of 12 containers or approximately 216 tons of coffee worth approximately \$800,000.

Before the opening ceremony on 15 April 2010, the Indonesian Consular General in LA, Subijaksono Sujono, accompanied by Edi Suharto (Economic Affairs Consular) and Arief Fadilah (Commercial Attaché) visited the SCAI booth. During the visit, they were briefed on Indonesia’s coffee origins and SCAI’s efforts to map the Arabica production areas.



**The SCAI booth at the SCAA Exposition in Anaheim, California**



During the show, the SCAI Executive Director met with the Director of SCAA, Ric Reinhart, the International Relations Council of SCAA, and Ted Lingle, the Director of the Coffee Quality Institute. The meeting with the International Relations Council allowed SCAI to network with other countries specialty coffee associations. Following the show, the SCAI Director and the Chairman of the Association met with Ibu Hj. Delima Hasri Azahari, the Senior Researcher and Minister's Adviser for Agricultural Policy, to brief her on the delegations experiences at the show and SCAI activities.

For the first time, the Indonesian government played an active role in supporting both SCAI and the Association of Indonesian Coffee Exporters (AEKI), which also had a booth at the show. Their support included picking up the delegation from the airport, pre-event promotion from the Commercial Attaché, and commitment to cover the booth expenses for the SCAA show in 2011, which will be held in Houston, Texas.



**From left to right : Arief Fadilah (Commercial Attache, Washington), Subijaksono Sujono (Consular General, LA), Syafrudin (SCAI member) and Edi Suharto (Economic Affairs Consular), visited SCAI's booth**



**The SCAI delegation with Indonesian counterparts and international partners**

SCAI coffee samples and the seven origin maps will be displayed in the Indonesia Trade Promotion Center in Los Angeles or the Indonesian Embassy in Washington. The Commercial Attaché will link distributors of Indonesian products to finished goods importers.

### **Collaborate with the Directorate General of Processing and Marketing**

The Agrinex Expo 2010 was held from March 12<sup>th</sup> through 14<sup>th</sup> to promote agriculture products from Indonesia. SCAI was invited by the Department of Agriculture to participate in the 'Coffee Corner'. Four SCAI members participated in this event and explained the different varieties of Arabica specialty coffee. This event helped SCAI to strengthen its relationship with the Estate Crops Directorate General who is interested in promoting a coffee pulper machine to farmers they train. SCAI also was invited to participate in the same event in Medan, Surabaya, and Batam later this year.

## **Supporting Intellectual Property Rights**

The Directorate General of Intellectual Property Rights invited SCAI and its members to join the Intellectual Property Rights Expo from May 27<sup>th</sup> through 29<sup>th</sup> at the Jakarta Convention Center. The event marked the celebration of World Intellectual Property Rights Day. Seven SCAI members presented a copy of the Gayo Map to the Ministry of Justice and Human Right, Mr. Patralis Akbar. During the event, SCAI attracted two new members and two prospective members.

## **High Value Horticulture**

### **AMARTA Introduces new MD-2 Variety Pineapple to West Java**

One of the major constraints for farmers in producing high quality fruits and vegetables is poor planting material and seeds. In an effort to improve this situation, AMARTA and PT. Mandiri Jaya (MJ) Flora are producing MD-2 pineapple transplants through tissue culture. During the quarter, AMARTA introduced the new variety to the West Java Provincial Agriculture Office, private companies, and farmer groups (FGs).

AMARTA and MJ Flora are currently developing a plant nursery and cooperating with the West Java Provincial Office of Agriculture to develop the site and disseminate the results to farmers interested in developing MD-2. Several fruit and vegetable export companies have expressed strong interest in cultivating MD-2, including PT Alamanda Sejati Utama and PT Momenta Agrikultura. Responding to the demand, AMARTA planned follow-up training and on May 26<sup>th</sup> held a training



Training participants test the new planting material

on production techniques. Nineteen participants came from the West Java Provincial Agriculture Office, Bogor Regency Agriculture Office, University Farm IPB, LPPM - UNPAD, PT Alamanda Sejati Utama, PT Momenta Agrikultura, and pineapple FGs from Bogor. By the end of June, MJ Flora planted 12 open field plots (estimated at 15,000 transplants) and still has additional transplants available for future use and research.

### **Broccoli**

Broccoli is an excellent production choice as a high value crop, however locally produced broccoli is of inferior quality to broccoli imported from China and Australia based on presentation, smell, and color of flowerets. Heavy losses in production during the rainy season due to disease, and during the dry season due to drought stress, creates unacceptable financial losses to local growers, reduces the supply to supermarkets, and forces supermarket chains to rely on imported products.

The inferior quality is caused by the following problems :

- Poor control of *Alternaria* fungi (*Alternaria brassicicola*), which is very prolific during the rainy season.
- Spread of *Alternaria* is exacerbated by club root (*Plasmodiophora brassicae*), and infection during production that reduces the crops tolerance to other pathogens and insects.
- Broccoli heads being transported without the benefit of any pre-cooling or cold chain.
- Packing warm broccoli in shrink wrap plastic at either the distributor or the supermarket outlet, without first reducing internal heat.
- High levels of pesticide residue in the crop, which often makes Indonesian broccoli un-exportable



**The broccoli fields before planting**



**Broccoli near harvest time**

This will be done through a combination of judicious use of pesticides as directed by partners Syngenta Foundation and the AMARTA introduction of soil sterilization, drip irrigation, high density planting and floating row covers, and plastic seedling trays. In addition, AMARTA introduced pre-cooling after harvest at farmer packing sheds and new brocolini (mini broccoli) varieties. The current broccoli demonstration plots in Cikidang, Lembang are already planted with 5,700 broccoli transplants and 300 brocolini plants using direct seedling.

### **Tomatoes**

Tomatoes are a high demand commodity throughout Indonesia. The primary type of tomato sold in Indonesia is a determinate Roma cross developed in Taiwan that has very thick flesh, is bi-ocular, holds up very well under rough handling and shipping, and is almost completely flavorless.

There are major problems affecting tomato production that need to be addressed in any serious production development scheme, including: crop collapse during the rainy season when light intensity is low; water restrictions; high insect pest pressure particularly during the dry season; and improper fertilization.

AMARTA, working with the Syngenta Foundation and Rijk Zwaan Seed Company, is introducing interventions to address some of the key constraints in specialty tomatoes, particularly beefsteak, as well as the common local variety. AMARTA networks and partners with buyers that supply high end supermarkets to produce and market tomatoes that receive a premium price in Jakarta and Singapore. PT Momenta has been instrumental in providing support to growers, supplying grafted tomato plants and technical assistance to help farmers produce a better grade of tomato, and paying a minimum of Rp. 5,000 per kilogram for beefsteak tomatoes.



**Healthy tomatoes grown by AMARTA farmers in West Java**

On June 3<sup>rd</sup> training on production techniques for beef tomatoes was held at Desa Sukahurip, Cigedug. A total of 31 Participants from Mulus Rahayu Farmer Group received instruction from Rijk Zwaan, Syngenta Foundation, PT. Momenta Agrikultura, and AMARTA. As a follow-up an additional training was held on June 24<sup>th</sup> emphasizing post-harvest handling procedures and spraying application techniques. During this event, PT. Momenta proposed a contract grower scheme to the farmer group and committed to continuing to supply 5,000 grafting transplants per month.

AMARTA introduced plastic covering and irrigation technology that has resulted in growers producing tomatoes year round with far less fluctuation in production yields between seasons. The demonstration plot has already harvested and sold a total of 1,446 kg of product. Activities will continue in the coming months with new demonstration plots and also applying wider plant spacing to produce heavier tomatoes.



**Trainees from Mulus Rahayu Farmer's Group**

### **Baby Carrots**

Baby carrots have the potential to become a very popular product in high end supermarkets as a healthy snack food choice. AMARTA is working with PT Momenta to produce and package a specialty carrot for snack packs. Once production possibilities have been proven, AMARTA and PT Momenta will approach fresh cut processors, in particular PT Saung Mirwan, who has a processing plant in Bogor, to investigate the possibility of providing a continuous supply for the ready to eat pre-packaged baby

carrot market both in Indonesia and Singapore. The major constraint is that the seeds are very expensive so in an effort to minimize this problem, AMARTA staff worked on developing a system for sowing that maximizes spacing and minimizes the need for thinning. AMARTA also introduced a micro-sprinkler system that will insure consistent germination and continuous fast growth of the carrots. As in all demonstration plots AMARTA uses best practices for pH amendment and fertilization and does not buy fertilizer, rather it is provided by the growers or by Syngenta Foundation.

### **Screen House for Vegetables Nursery at Cisurupan, Garut**

To complement Bimandiri's expanded procurement from farmers in Garut, and in an effort to develop export grade horticulture, AMARTA has provided a Cipelah Farmer's Group with a vegetable nursery screen house.



**The screen house at Cipelah Farmer's Group site**

The nursery operated by the farmer group (FG) produces transplants (seeds) in response to orders from Bimandiri. For the planting program Bimandiri will provide farmers with good quality transplants, produced from the nursery and committed to purchasing produce that meets export standards.

On May 19<sup>th</sup> at the Cipelah FG location training on nursery operations and seedling media preparation was attended by 36 participants. The objectives were to introduce farmers to production techniques on transplants and seedling media preparation for vegetables to fulfill quality standards required by export markets. Currently, the nursery has produced vegetable transplants for FG members and Bimandiri is planning to develop a production base for green leafy vegetables for supermarkets.



**AMARTA STTA Jeff Gucker providing training**

### **Farmer Training on Farm Record Keeping in West Java**

The goal of farm management training is to change farmers' behavior from subsistence to commercial oriented with sound basic financial documentation. Very few farmers have farm activity records that show expenses and revenues from their efforts. Emphasis is placed on farm record keeping in compiling basic monthly statements, prepare a budget, calculate the cost of production, and determine expected profits. A total of ten FGs were selected to participate; five in Garut, two in Bandung, and three in West Bandung. Trainings were conducted in two phases: The first was an introduction explaining the concept of farm record keeping, farm budgeting, and cash flow. The



**AMARTA record keeping classroom training**

second was a tutorial on farm record application. A total of five tutorials, conducted every two to three weeks, totaling 50 tutorials, were delivered this quarter for 618 people, 425 (69%) male and 193 (31%) female. Feedback from participants was extremely positive and the farmers understood the importance of keeping detailed and accurate financial records in order to understand cash flow and the need for working capital, record all activities to monitor performance, and prepare documents required by financial institutions to apply for a loan.

### **West Java Agribusiness Action Group – Value Chain Center Activities**

Round table discussions sponsored by the West Java Horticulture Value Chain Center were conducted in collaboration with The Research and Community Service Institute of Padjadjaran University (LPPM UNPAD). Other activities initiated by the Action Group include the Value Chain Development Strategy Paper and agribusiness plan training for farmers, extension workers, and government staff. There will be four round table discussions completed by the end of October 2010 that will result in concrete recommendations provided to the provincial and national government. The topics include improving access to the following: Technology, Agro-inputs, Finance, and Markets.



**The Round Table on Access to Technology**

The Round Table on Access to Technology was conducted on June 16<sup>th</sup> aimed at bridging the gaps between sources and users of horticulture related technologies. It was attended by 32 participants coming from various agencies, universities, and associations. The Jakarta based government agencies were represented by the Directorate of Vegetables, Directorate of Fruits, and Ministry of Agriculture's International

Cooperation Bureau, while West Java based government offices were represented by the Provincial Agriculture Office, Bandung Agriculture Office, West Bandung Agriculture Office, and Assessment Institute for Agriculture Technology (BPTP).

It was noted that there is an extensive list of technologies available; though many of them were not applied by users either because they lack information or the technologies do not match the farmer's requirements. It was concluded that there is a technology dissemination problem in addition to a lack of facilities and infrastructure in promoting user oriented technology innovation. Participants noted problems, not only in pre-harvest technology, but most critically during harvest and post-harvest handling that significantly affect quality, shelf-life, losses, and ultimately prices and farmers income. Included in post-harvest technologies are storage, cooling, and distribution systems. Another important issue recommended in the discussion was establishing the West Java Horticulture Development Consortium to intensify user-sources communication and consolidation in developing the West Java horticultural sector.

## **High Value Horticulture in North Sumatera**

### **Improving Banana Production and Quality**

During the quarter AMARTA completed intensive training for 1,571 banana farmers



**Banana training in Dusun VI Tembengan**



**Banana TOT in AMARTA's Bintang Meriah demo plot**

in Deli Serdang, North Sumatera, consisting of 848 (54%) men and 723 (46%) women from 71 FGs covering 1,263 hectares of land under improved technology. Training started at the village level then was followed by further training in AMARTA double row system demonstration plots. The material covered in basic training focused on the introduction to double row cultivation, Barangan banana basic principles, pest and disease control, and post-harvest handling. The socialization activity continued to be presented at night time due to fact that most farmers work in their fields during the day. AMARTA then continued with training of banana cultivation using proper good agricultural practices (GAP) and standard operating procedures (SOPs) in demonstration plots.

*“I was amazed at the impact of replicating USAID/AMARTA’s double row system on my own land since I have grown bananas for many years using the same strategy. I realized that this new system of cultivation is very profitable since it produced double the amount of stems using the same amount of land, which means double the profit for me .”*

Sudarman Tarigan, Banana Farmer in Deli Serdang , North Sumatera

### **Research Links Banana Farmers with the University of North Sumatera**

North Sumatera University agriculture science faculty collaborated with AMARTA on running fertilization demonstration plots; Dr. Kelin Tarigan conducted research on finding the optimum application of fertilizer using the double row planting system. This research is very important to many farmers in Deli Serdang because every location requires specific amounts of fertilizer; therefore the experiments implemented in demonstration plots will provide a more precise indication for application and techniques to reach an optimum result of production and quality. As a result of this initiative, farmers will save money on inputs and improve the overall quality of their bananas.

### **Post-Harvest Training and Support of the Deli Serdang Banana Cooperative**

On May 17<sup>th</sup> and 18<sup>th</sup>, former Chief of Party, and current STTA, David Anderson, along with STTA Jeff Gucker, conducted a series of trainings on post-harvest handling and management preparation for improving marketing to reach modern markets. Improving the capacity for the Deli Serdang Banana Cooperative is very important to increase efficiency in collecting fresh bananas from the field, transferring them to the packing house, packing, and delivering the product to markets. The management training was conducted because every month the Banana Alliance supplies 10,000 hands to the local Medan market and PT Sewu Segar Nusantara, worth a total of Rp. 50 million. By improving the management capacity, the Cooperative can increase the delivery totals up to 60,000 hands per month valued at Rp. 300 million.



**Former COP and current STTA David Anderson provides instruction**

### **Banana Training Results**

In an effort to quantify measurable achievements, AMARTA conducted surveys with farmers who were trained by selecting and sampling five farmers from each village and FG as a sample. Comparing harvest production, income before and after implemented banana technology, and selling price per hand the following successes were recorded:



- Harvest production increased 125%, from 692 bunches per ha to 1,560 bunches per ha.
- Average monthly income from banana fields increased from Rp. 1,119,000 to Rp. 2,445,000 million, or about 118%.
- Average selling price increased from Rp 3,750 per hand to Rp 4,750 hand or 27%.

### **Citrus Cultivation Training Using SOPs and GAP in North Sumatera**

During the quarter, North Sumatera citrus cultivation training using proper SOPs and GAP was carried out in three main districts; Karo Highlands, Simalungun, and Pak Pak Bharat. The ultimate goal of the program is to enhance the knowledge of farmers on agriculture practices in order to improve local farmer knowledge, improve production, and acquire proper standards of good agriculture practices. During the quarter 146 FGs totaling 1,999 farmers, consisting of 1,565 (78%) men and 434 (22%) women participated in citrus cultivation training covering 1,778 hectares under improved technologies through implementation of citrus GAP and SOPs.

The training material provided is based on SOPs covering soil management and pest and disease control. In order to enhance farmers' skills with advanced knowledge, AMARTA conducted field schools in demonstration plots. Through direct exposure in the model gardens using proper SOPs, citrus farmers can directly access and easily absorb materials, as well as become adept at replicating successful practices in their own citrus fields.



**Citrus training in Pak Pak Bharat**



**Citrus Field School in the Dokan dem plot**

*"I started from zero. I had no idea about good agricultural practices (GAP) and standard operating procedures (SOPs) in citrus cultivation. Thankfully, AMARTA taught me knowledge of citrus cultivation and now I am successful and confident in myself to grow high value produce ."*

**Mrs. Mawari Boru Tarigan, Citrus Farmer in Karo Highland , North Sumatera**

## AMARTA Distributes Citrus Training VCD

AMARTA has been assisting citrus farmers for four years in the Karo Highlands helping more than 10,000 farmers by providing technical assistance and conducting training using good agricultural practices (GAP) and standard operating procedures (SOPs), establishing demonstration plots, and distributing VCDs, manuals, and posters to reinforce training conducted in the field. The training provided on May 24<sup>th</sup>, aimed to



VCD delivered to representatives from FGs in Kabanjahe

provide an open forum for farmers where they could share their experiences implementing technology introduced by AMARTA. Many farmers expressed their thoughts on what they have accomplished and challenges faced.

In total, there were 67 farmers from different villages who attended the event. AMARTA also distributed VCDs illustrating proper GAP and SOPs to the representatives of each farmer group so that they can review the recommended strategies on their own or in small groups. In total, 1,280 VCDs were distributed to

farmers.

*“After AMARTA came to our village last year and provided training and assistance I was able to revitalize my citrus cultivation and started harvesting higher quality fruit that I was able to sell in the local market for a higher price than I had ever received. Our hope in the future is that USAID/AMARTA will continue its program helping citrus farmers in the Karo Highlands because it helps all the citrus farmers.”*

Mr. Herman Tarigan, Citrus Farmer in Karo Highland , North Sumatera

## Citrus SOP Training Results

In an effort to quantify measurable achievements, AMARTA conducted surveys with farmers who were trained by selecting and sampling 10 trained farmers from each village and farmer group. Comparing harvest production, production costs, and income before and after implemented citrus SOP procedures the following successes were recorded:

- Harvest production increased 54%, from 60 kg per ha to 91 kg per ha.
- Grade-A produce increased from 6% to 13%, Grade-B increased from 14% to 25%, Grade-C remained at 37%, but Grade-D decreased from 25% to 12%.
- Sales prices increased from Rp. 1,573 per kg to Rp. 2,176 or 38%, due to increased fruit quality and quantity.
- Monthly production costs reduced from an initial Rp. 1-1.5 million to Rp. 0.5-1 million, or about 50-100%.
- Average monthly income increased from Rp. 0.5-1.5 million to Rp. 2-2.5 million, or about 66 -300%.

### **Ministry of Agriculture and USAID Visit North Sumatera**

From May 24<sup>th</sup> -26<sup>th</sup> USAID and Ministry of Agriculture staff members visited North Sumatera to monitor AMARTA's ongoing activities in the horticulture value chain.



**The USAID and Ministry of Agriculture team visits the banana field dem plot**

USAID's Jacky Hendrawan, and Heldi Yunana and Adrian from the Bureau of International Cooperation, and Nurli Eriza and Sindha Cahya Wardhani from the Directorate of Horticulture visited trainings of Karo farmers at the citrus demonstration plot and banana demonstration plot. The delegation also visited the Simalungun Agriculture Department to get feedback on AMARTA's collaboration with government agencies.

### **Berastagi, Carrot Greenhouse Nursery**

In May the AMARTA carrot greenhouse began harvesting carrot seed, compiling 20 packs valued at Rp. 1 million. Although the total yield and sales proceeds were small, the success of the proven technology is very important to farmers in terms of the minimal impact achieved using a net to cover the seeds to improve pollination. The pilot demonstration provided an important lesson for carrot farmers that using nets for the local carrot seeds is not particularly helpful. In order to solve the problem in the future, the farmers will use the greenhouse for tomato production and continue carrot seed production opening the net screen.



**Farmers harvesting carrot seed**

### **AMARTA Builds a New Floriculture Demonstration Plot in Berastagi**

In May, AMARTA completed a new demonstration plot for floriculture in Raya Village Berastagi, the center of floriculture-especially chrysanthemums for local market demand. The purpose of establishing the plot was to provide the women farmers a location to study proper floriculture techniques including post-harvest handling.

AMARTA also introduced new



**Women farmers help with greenhouse**

ornamental cut leaves- that demand a high price in the market- to farmers in Raya Village. The women responsible for the demonstration plot are from Krisan Women's Farmers Group. It is anticipated that other women farmer's groups working with AMARTA in floriculture will replicate the GAP and SOPs demonstrated at the plot.

In an effort to expand the overall knowledge of floriculture technicians in North Sumatera, six female farmers were selected for a two week training in Bogor at STTA Benny Tjia's floriculture green house. Intensive training in cultivation ranging from nursery management, planting, fertilizing, and post-harvest handling were provided in a small group environment. Ultimately, the women will serve as trainers for their FGs. Mr. Karya Ketaren one of the farmers noted, "*We are very thankful to AMARTA who has given us the opportunity to learn in depth about floriculture and opened our minds with this intensive training in Bogor.*"

Participant Training Information: April- June 2010

ECONOMIC GROWTH OFFICE

PROJECT: Agribusiness and Market Support Activity (AMARTA)

No	Title of Training/ Conference/Workshop/Meeting	Brief Description/Purposes of The Training/Conference/Workshop	Primary Sponsor	Institution of Participants	# of USAID Employee Attended	# of Male Participants (To Include # of Male USAID Employee Attended)	# of Female Participants (To Include # of Female USAID Employee Attended)	Place of Training	Date	
1	Coffee Cultivation of Arabica Training of Trainee	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and pest harvest handling.	USAID	Government extension agents	0	26	5	BPP Purba, Pematang Purba Subdistrict, Simalungun	30-Mar-10	31-Mar-10
2	RACA North Luwu : Preliminary Dialogue to Establish RACA in North Luwu	The aim of the activity is to initiate RACA meeting and facilitate related cocoa stakeholders in Luwu region	USAID	Related local government agencies in Luwu, Exporter company, Bank, member of house of representatives	0	37	0	Masamba, South Sulawesi	06-Apr-10	06-Apr-10
3	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	juma kenjahe,juma uruk,juma deleng,sembara,sempagit,juma pulo,sumbali,p gedang,lau kaci, lau krapat,juma genting	0	42	20	Kuta Buluh illage, Kuta Buluh Subdistrict,Karo	06-Apr-10	07-Apr-10
4	RACA North Kolaka : Preliminary Dialogue to Establish RACA in North Kolaka	The aim of the activity is to initiate RACA meeting and facilitate related cocoa stakeholders in North Kolaka region	USAID	Related local government agencies in North Kolaka, Exporter company, Bank, member of house of representatives	0	20	2	Lasusua - North Kolaka, Southeast Sulawesi	08-Apr-10	08-Apr-10
5	Training Banana New Technology Double Row System	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Lestari,Tani Subur,Sidomuncul	0	37	7	Durin Simeleng Village, Pancur Batu subdistrict,Deli Serdang	08-Apr-10	08-Apr-10
6	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	Seribu Jandi	0	56	5	Seribu jandi Village, Subdistrict Pematang Silimakuta, Simalungun district	08-Apr-10	09-Apr-10
7	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	arihta ras,sadanoga,sejahtra bersama,elsyadai	0	50	19	Seberaya simpang Bertah Village, Subdistrict Tiga Panah, District Simalungun	08-Apr-10	09-Apr-10
8	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	juma simbelang,buah raja,juma lepar,ulih lath,juma jehaan,perjuangan,juma seri belang,juma erjeki	0	33	18	Rumah Rih Village, Barus Jahe Subdistrict, Karo	12-Apr-10	13-Apr-10
9	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	ras kita,refomasi,ras maju,tunas baru,berdikari,mawar	0	40	5	Paribuhan Toba Village,Dolok Silau Subdistrict, Karo	12-Apr-10	13-Apr-10
10	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and pest harvest handling.	USAID	Sada Rejeki,Dos Ate,Lomba Maju,Mersitegun,Mersielaen,Sada Orjok	0	24	17	Parongngil Village, Tianida subdistrict, pakpak Bharat	12-Apr-10	12-Apr-10

11	<b>Training Banana New Technology Double Row System</b>	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Arih Ersada,Harapan,Pertampilen,Makmur	0	25	49	Pertampilan Village,Pancur Batu dundistrict, Deli Serdang	12-Apr-10	12-Apr-10
12	<b>Coffee Cultivation of Arabica Training</b>	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Sada Sungkun,Terolih Karina,Mbuah,Dalan Mardemu,KAT,Sada Ukur	0	34	4	Silimakuta Village, Tianada Subdistricit, Pakpak Bharat	12-Apr-10	13-Apr-10
13	<b>Training Banana New Technology Double Row System</b>	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Arih Ersada,HarapanTani I,Harapan Tani II,Baginta Ras,Gunanta Ras	0	31	44	Batu Mbelin village, Sibolangit subdistrict,Deli Serdang	13-Apr-10	13-Apr-10
14	<b>Coffee Cultivation of Arabica Training</b>	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Sariah,Suka Maju	0	32	1	Ambarisan Dusun III, Sidamanik subdistrict, Simalungun	13-Apr-10	13-Apr-10
15	<b>Coffee Cultivation of Arabica Training</b>	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and pest harest handling.	USAID	Sada Kata,Maju,Simolap,Trolih,Mandarin,Ingini Maju,Sada Arih,Kt Kersik	0	27	4	Silimakuta Village, STTE Julu Subdistrict, Pakpak Bharat	14-Apr-10	15-Apr-10
16	<b>Coffee Cultivation of Arabica Training</b>	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Sada Kata,Sada Arih,SAHMO	0	28	38	Namugseng Village ,STTE Julu subdistrict, Pakpak Bharat	14-Apr-10	15-Apr-10
17	<b>Coffee Cultivation of Arabica Training</b>	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Sayang Tani,Sariah,Parsaoran,Serba Guna,Dosni Uhur,Tani Jaya,Harosuh,Basar Tani	0	25	5	Bangun Saribu Village, Silimakuta Subdistrict,Simalungun	15-Apr-10	15-Apr-10
18	<b>Citrus Standard Operating Procedure Training</b>	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	sada arih,dosniriah,bolot lingga,karya tani,sauhur	0	53	11	Sinar Baru District , Pematang Silimakuta Subdistrict, Simalungun	15-Apr-10	16-Apr-10
19	<b>Training Banana New Technology Double Row System</b>	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Tani Makmur,Tani Jaya,Sada Nioga,Tunas Mekar	0	39	21	Buah Nabar village, sibolangit Sdistrict,D serdang	16-Apr-10	16-Apr-10
20	<b>Cocoa Farmer Training (the 5th meeting : Pest and Disease) for 100 FGs</b>	The aim of the training is to improve skills and technical knowledge for cocoa small holders regarding with pest and disease. There are 100 farmer groups (FGs) in South Sulawesi that involved in ASKA training during this extention program	USAID	Bukit Indah,Cahaya Coklat, Tunas Muda, Bunga Coklat, Sipatuo, Tunas Mekar, Tibusok, Siparuru, Sumber Harapan, Bosowa / Sapuraga II, Samaturu, Sapuraga, Tani Bersama, Bina Tani, Tunas Harapan, Taro Ada Taro Gau, Samtana, Mandiri, Tunas Sejahtera	0	2,042	377	North & East Luwu, South Sulawesi	16-Apr-10	26-Apr-10

21	<b>Cocoa Farmer Training (the 5th meeting : Pest and Disease) for 60 FGs</b>	The aim of the training is to improve skills and technical knowledge for cocoa small holders regarding with pest and disease. There are 100 farmer groups (FGs) in Bali that involved in ASKA training during this extension program	USAID	Sari Bumi, Sarwa Pala, Petapan Sari Kajo, I Petapan Sari Kaja II Petapan Sari Kaja III, Gelar Sari I Gelar Sari II, Merta Nadi I, Merta Nadi, Merta Nadi, Petapan Sari Kelod, Sarwa Nadi, Pengunggangan, Manggala Sari, Manggala Sari, Tumpeng Sari I, Tump	0	1,402	95	Bali	16-Apr-10	30-Apr-10
22	<b>Cocoa Farmer Training (the 5th meeting : Pest and Disease) for 100 FGs</b>	The aim of the training is to improve skills and technical knowledge for cocoa small holders regarding with pest and disease. There are 100 farmer groups (FGs) in Southeast Sulawesi that involved in ASKA training during this extension program	USAID	Karya muda, Kakao raya, Putra tani, Kakao lestari, Tunas mekar, Meohai, Kakao putra, Padaidi, Kurnia lestari, Tunas muda, Kembali muda, Samaturu, Buah coklat, Mandiri, Bersatu, Samaturu, Abadi, Gunung coklat, Bunga coklat, Mattiro bulu, Reski jaya Mandi	0	2,138	327	North Kolaka, Southeast Sulawesi	16-Apr-10	29-Apr-10
23	<b>Citrus Standard Operating Procedure Training</b>	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	farmers	0	61	20	Ujung Deleng Village, Kuta Buluh Subdistrict, Karo	19-Apr-10	20-Apr-10
24	<b>Cocoa Farmer Training (the 5th meeting : Pest and Disease) for 100 FGs</b>	The aim of the training is to improve skills and technical knowledge for cocoa small holders regarding with pest and disease. There are 100 farmer groups (FGs) in West Sulawesi that involved in ASKA training during this extension program	USAID	Bintang Terang, Siammasei, Lestari, Bukit Indah, Mandiri, Cahaya Talepo, Bukit Hijau, Siasayang, Siasayang II, Harapan Mandar, Siammasei, Mekar, Mesa Peolo, Harapan Jaya, Sipaingarang, Sinar Harapan, Sumber Jaya, Bukit Taheo, Bulo Lae, Bunga Mawar, Pemu	0	2,059	285	Polman, West Sulawesi	19-Apr-10	26-Apr-10

25	Supply Chain Horticulture Development Training	Objectives of this Training is to discuss about all issue supply chain horticulture. Beside that gave knowledge about field technical. After the training all representative agricultural agencies can be consolidator between PT ASU, farmers and supplier to	USAID	LPPM UNPAD, PT. Alamanda Sejati Utama, PT. Rama Putra Farm, Multi Karya FG, STA Panumbangan Ciamis, West Bandung Agriculture Office, Cisarua FGs, Eco Pesantren Daarut Tauhid, Bandung Agriculture Office, Syngenta Foundation, West Java Agriculture Office, a	0	57	13	LPPM UNPAD Bandung	19-Apr-10	19-Apr-10
26	Training Banana New Technology Double Row System	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Tanuma I,H.Jaya	0	52	19	Pane Tongah Village, Paneh Tonga S district, Karo	20-Apr-10	20-Apr-10
27	Coffee Cultivation of Arabica Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	Tani,Sada Ate,Sakata,Nduma,Dalan Maju,Sada Kata	0	41	49	Kuta Babo Village, Tinada subdistrict,Pakpak Barat	19-Apr-10	20-Apr-10
28	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Sepakat, Ingin Maju,Harapan Maju,Lae Nciho,Sodipta,Siumong-umong,Mersiurupen	0	30	9	Pardomuan Village, STTE Julu subdistrict ,Pakpak Barat	19-Apr-10	20-Apr-10
29	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	HBN 1,Rezeki Tani,Taruna Tani,HBN 4,HBN 1, Wanita Tani,Pangulu Nagodi	0	25	8	Bah BolonVillage., Raya Subdistrict,Simalungun	20-Apr-10	20-Apr-10
30	RACA Bali : Training for Management and Leadership Empowerment on the Management Board Capacity		USAID	Estate crops agency Tabanan & Jembrana, ALKANA, AMARKATA	0	70	13	Tabanan & Jembrana, Bali	20-Apr-10	23-Apr-10
31	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	juma pintu,juma pasar,deleng macik,juma mulgap	0	33	26	Gung Pinto Village, Subdistrict Naman Teran Karo	21-Apr-10	22-Apr-2010
32	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Dalanta Maju,Karina Makmur,Marsipekaden,Keke Karina,Marsitegun	0	27	3	Mahala Village, Tinida Subdistrict, pakpak Barat	21-Apr-10	21-Apr-10
33	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Sada Ate,Sada Arih,Lae Rambung,Namuseng	0	37	16	Iaelangge Namuseng Village, STTE Julu subdistrict, Pakpak Barat	21-Apr-10	22-Apr-2010
34	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	sadanioga,maju tani,wanita tani,simbergeh jaya,karia tani	0	55	24	Cingkes Village,Dolak Silau Subdistrict Simalungun	22-Apr-10	23-Apr-10
35	RACA Polman : Preliminary Dialogue to Establish RACA in Polman	The aim of the activity is to initiate RACA meeting and facilitate related cocoa stakeholders in Polman region	USAID	Related local government agencies in Polman, Exporter company, Bank, member of house of representatives	0	70	3	Kanreapi-Polewali, West Sulawesi	22-Apr-10	22-Apr-10
36	Follow up training in collaborating with Estate Crops of Tabanan & Jembrana (the 1 <sup>st</sup> meeting: Socialization & Garden Evaluation) for 80 units of Farmer Groups	The aim of the training is to improve skills and technical knowledge for cocoa small holders regarding with Garden evaluation. There are 100 farmer groups (FGs) in Bali that involved in ASKA training during this extension program	USAID	Estate crops agency Tabanan & Jembrana, farmer groups	0	1,876	84	Bali	22-Apr-10	07-May-10
37	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Garuda Mas,Rama Jaya,Juma Paya,Sitora,Sada Arih,Bintang,Wanita Tani,Sada Arih,Gapokta	0	29	16	Naga Saribu, Simalungun	26-Apr-10	26-Apr-10



38	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Berutu Dua Empung,Mitokona,Mersada,Dos Arih,Maranata,Napuren Hebabah,Merak Merik,Muat Mendena	0	26	16	Aornaken II Village, PGG Sengkut Subdistrict, Pakpak Bharat	26-Apr-10	27-Apr-10
39	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and pest harest handling.	USAID	Dalanta Maju,Lae Bigo,Asa Nduma,Maju Bersama,Manen,Sada Arih,Tolong Kami,Nunut,Rananta,Wanita Tani Mawar,Sabah	0	24	21	Kecupak 2 Village , PGG Sengkut Subdistrict,Pakpak Bharat	26-Apr-10	27-Apr-10
40	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Sauhur,Riah Tani,Tani Subur	0	5	24	Naga Tongah Village,Raya Subdistrict,Simalungun	27-Apr-10	27-Apr-10
41	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Maju Bersama,Kt Galung,Saemauli,Lot Laba Ledja,Kuta Gugung,Sempangan,Sadar Ingin Maju,Lobasi,Sada Orjok	0	35	5	Salak II Village, Salak Subdistrict, Pakpak Bharat	28-Apr-10	29-Apr-10
42	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Bagot Ingul,Bagot Raja,Gapoktan Dosriah	0	33	17	Bagot Raja, Pematang Village, Purba subdistrict, Simalungun	29-Apr-10	29-Apr-10
43	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Mersada,Sada Rana,Sakata,Maneas,Sempurna,Ulu Merah	0	43	7	Ulu Merah Village,STTE Julu Subdistrict, Pakpak Bharat	29-Apr-10	30-Apr-10
44	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Damak Jaya II,Jaya I	0	44	20	Damak, Siporkas Village, Raya Subdistrict,Simalungun	4-May-10	4-May-10
45	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	juma kenjulu, juma reba,juma nangka,juma genting,juma buhar,juma lau buah,sayur mayur,kenjahe	0	55	0	Ujung Teran Village, Naman Teran Subdistrict, Karo	4-May-10	5-May-10
46	Training Banana New Technology Double Row System	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Sada Arih I,Sada Arih II	0	35	35	Kuala Village, Biru-Biru Sdistrict, Deli Serdang	4-May-10	4-May-10
47	Citrus Standard Operating Procedure Training TOT II	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	government extension agents	0	28	5	BPP Purba, Subdistrict Simalungun	5-May-10	7-May-10
48	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Sido Muncul,Mawar,Mamoraja,Bina Warga,Mandiri,KSM Mandiri,Jaya Mandiri,M Sari	0	40	4	Manik Maraja Village,Subdistrict Sidamanik, Simalungun	6-May-10	6-May-10
49	Training Banana New Technology Double Row System	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Tanuma I,H.Jaya	0	96	58	Pasar X Dusun Kinangkung Village, Kutalimbaru Sdistrict, Deli Serdang	7-May-10	7-May-10
50	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	sangap encari,persadaanta	0	33	31	Suka Rumah Lige Village, Tiga panah Subdistrict, Karo	10-May-10	11-May-10

51	<b>Cocoa Farmer Training (the 6th meeting : Harvesting and sorting of cocoa pods &amp; cocoa pods handling and drying techniques) for 100 FGs</b>	The aim of the training is to improve skills and technical knowledge for cocoa small holders regarding with Harvesting and sorting of cocoa pods & cocoa pods handling and drying techniques. There are 100 farmer groups (FGs) in West Sulawesi, are invol	USAID	Bintang Terang, Siammasei, Lestari, Bukit Indah, Mandiri, Cahaya Talepo, Bukit Hijau, Siasayangi, Siasayangi II, Harapan Mandar, Siammasei, Mekar, Mesa Peolo, Harapan Jaya, Sipaingarang, Sinar Harapan, Sumber Jaya, Bukit Taheo, Bulo Lae, Bunga Mawar, Pemu	0	2,017	303	Polman, West Sulawesi	10-May-10	22-May-10
52	<b>RACA Workshop in North Luwu</b>	Masamba, South Sulawesi	USAID	Government, APKAI, exporter, farmers, legislative		51	9	North Luwu, South Sulawesi	11-May-10	11-May-10
53	<b>Training Banana New Technology Double Row System</b>	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Arih Ersada, Manggis, Bingkawan I, Bingkawan II, Merih, Harapanta	0	22	17	Bengkawang Village, Sibolangit Sdistrict, Deli Serdang	12-May-10	12-May-10
54	<b>RACA Workshop in North Kolaka</b>	The aim of the activity is to initiate RACA meeting and facilitate related cocoa stakeholders in Polman region	USAID	Related local government agencies in North Kolaka, Exporter company, Bank, member of house of representatives	0	49	11	North Kolaka, Southeast Sulawesi	12-May-10	12-May-10
55	<b>Coffee Cultivation of Arabica Training</b>	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Tongonma I, Tongonma II, Raya Baru, Raya Baru I, Siloting Pasar, Tongonma, Raya Bayu IV, Riap Hadear	0	26	20	Siloting Village, Raya Bayu, Raya Subdistrict, Simalungun	12-May-10	12-May-10
56	<b>Cocoa Farmer Training (the 6th meeting : Harvesting and sorting of cocoa pods &amp; cocoa pods handling and drying techniques) for 100 FGs</b>	The aim of the training is to improve skills and technical knowledge for cocoa small holders regarding with Harvesting and sorting of cocoa pods & cocoa pods handling and drying techniques. There are 100 farmer groups (FGs) in South Sulawesi, are invo	USAID	Bukit Indah, Cahaya Coklat, Tunas Muda, Bunga Coklat, Sipatuo, Tunas Mekar, Tibusok, Siparuru, Sumber Harapan, Bosowa / Sapuraga II, Samaturu, Sapuraga, Tani Bersama, Bina Tani, Tunas Harapan, Taro Ada Taro Gau, Samtana, Mandiri, Tunas Sejahtera	0	2,048	312	North Luwu, South Sulawesi	14-May-10	25-May-10
57	<b>RACA Workshop in Polman</b>	Polewali Mandar, West Sulawesi	USAID	Government, Bank, exporter, farmers, representative legislative	0	74	4	Polman, West Sulawesi	14-May-10	14-May-10
58	<b>Coffee Cultivation of Arabica Training</b>	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Sari Buah, Tani Bersama, Sirundung, Luppattan Kompak Tani, Sipapaga, Bunga Desa, Luppattan, Sirundung	0	40	5	Toru Buah, Hutaraja village, Pematang purba Subdistrict, Simalungun	14-May-10	14-May-10

59	<b>Cocoa Farmer Training (the 6th meeting : Harvesting and sorting of cocoa pods &amp; cocoa pods handling and drying techniques) for 100 FGs</b>	The aim of the training is to improve skills and technical knowledge for cocoa small holders regarding with Harvesting and sorting of cocoa pods & cocoa pods handling and drying techniques. There are 100 farmer groups (FGs) in Southeast Sulawesi, are	USAID	Karya muda, Kakao raya, Putra tani, Kakao lestari, Tunas mekar, Meohai, Kakao putra, Padaidi, Kurnia lestari, Tunas muda, Kembali muda, Samaturu, Buah coklat, Mandiri, Bersatu, Samaturu, Abadi, Gunung coklat, Bunga coklat, Mattiro bulu, Reski jaya Mandi	0	2,111	319	North Kolaka, Southeast Sulawesi	16-May-10	26-May-10
60	<b>Training Banana New Technology Double Row System</b>	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Suka Tani, Latersia, Persima, Maju Bersama, Aronta, Tani Maju, Reh Jilena	0	71	41	Penugkiran Village, Biru biru Sdistrict, Deli Serdang	17-May-10	17-May-10
61	<b>Citrus Standard Operating Procedure Training</b>	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	ingin maju, sempurna, ulu merah, mersada	0	56	5	Uluh Merah Village, Sundistrict STTU U Juulu, Pakpak Bharat	17-May-10	#####
62	<b>Citrus Standard Operating Procedure Training</b>	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	Mandarin, Gabuna, Kasah, Maju, Sada Arih, Simotap, Lotre, Ngkasah, Sada Kata, Subur Tani, Lae Cikaok, Koptan	0	46	12	Silimakuta Julu Village, Subdistrict STTU Julu, pakpak Bharat	17-May-10	#####
63	<b>Coffee Cultivation of Arabica Training</b>	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Arih Mersada, Simahembur, Keleng Ate, Saut Matuna, Tadina, Sada Ukur, Sepakat, Enmoid, Ninta Karina, Simahembur	0	31	29	Arnoaken I Village, PGG Sengkut subdistrict, Pakpak Bharat	17-May-10	18-May-10
64	<b>Coffee Cultivation of Arabica Training</b>	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Nantampak, Petani, Naluk Merangir, Rananta Kin	0	35	14	Kecupak 1 Village, PGG Sengkut subdistrict, Pakpak Bharat	17-May-10	18-May-10
65	<b>Cocoa Farmer Training (the 6th meeting : Harvesting and sorting of cocoa pods &amp; cocoa pods handling and drying techniques) for 100 FGs</b>	The aim of the training is to improve skills and technical knowledge for cocoa small holders regarding with improving garden status. There are 60 farmer groups (FGs) in Bali are involved in first ASKA training during extension program	USAID	Sari Bumi, Sarwa Pala, Petapan Sari Kaja, I Petapan Sari Kaja II, Petapan Sari Kaja III, Gelar Sari I, Gelar Sari II, Merta Nadi I, Merta Nadi, Merta Nadi, Petapan Sari Kelod, Sarwa Nadi, Pengungangan, Manggala Sari, Manggala Sari, Tumpeng Sari I, Tump	0	1,404	92	Bali	18-May-10	31-May-10
66	<b>Coffee Cultivation of Arabica Training</b>	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Gapoktan Bah Dolok, Karya Tani I, Karya Tani II, Sentosa I/Dsn II, Karya Tani, Jaya I, Jaya II, Tambun Marisi III, Silau Marihat,	0	69	18	Dolok Huluan, Raya Huluan Village, Raya Subdistrict, Simalungun	18-May-10	18-May-10

67	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	Tambun Marisi IV,Sentosa II,Kampung Baru II	0	34	17	Lepar Samura Village, Kabanjahe, Karo	18-May-10	19-May-10
68	Training on Nursery House Operation and Seedling Media Preparation	The objective of this training is improving farmer's technical skill on Screen House Nursery for producing good quality transplants. And apply a sterilize process for Seedling Media preparation. With good transplants farmer can increase the yield.	USAID	Cipelah FG	1	22	14	Ds Tambakbaya, Kecamatan Cisarupan	19-May-10	19-May-10
69	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Tani Maju,Merarih Sosor, Timim,Wanita Tani Nduma,Sada Arih Saar 1,Sada Kata,Bina Mitra,Jojong,Sani Sauh,Merarih Sosor,Beras Pagi,Sabahta,Sada Kata	0	35	13	Desa Boang Manalu Village, Salak subdistrict,PakPak Bharat	19-May-10	20-May-10
70	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Karya Putra,Mekar sari,Swadaya,Sekar Tani,Mega,Parma Jaya,Sumber Mata Air,Karya Putra,Bungasari,Namanis,Bunga Sari,Mandiri,Sekar Tani Ibanu,Gapoktan Sari Madear,Karya Putra,Gunung Mulia,Mujur Saroha,Talunan Jawa,Sejahtera,Mekar sari,	0	93	18	Sait Buttu Saribu Village, Raya Subdistrict, Simalungun	20-May-10	20-May-10
71	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Jadina,Sepakat,Keleng Ate,Mersada,Simehambur	0	31	41	Siguangguang Village, PGGGS subdistrict,Pakpak Bharat	20-May-10	21-May-10
72	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	ula melantar,bersatu tani	0	43	4	Paramian Dolak Village, Dolok Silau Subdistrict, Simalungun	20-May-10	21-May-10
73	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	kw kamboja,oraet labora,martabe,kuba,dalanta pulung,saragh	0	27	10	Saran pandan Village, Dolok Silau Subdistrict, Simalungun district	20-May-10	21-May-10
74	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	reformasi,tunas muda,meratah nguda,sepakat,bandel,aronta,merah muda	0	51	21	Bawang Village, Dolok Silau Subdistrict, Simalungun District	20-May-10	21-May-10
75	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Simolap,Mekar Cikaok,Lae Cikaok,Subur Tani,Lebuhna,Resdes,Sosor,Cikaok	0	73	52	Cikaok Village, STTE Julu Subdistrict,PakPak Bharat	24-May-10	25-May-10
76	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Rodearni,Mudah,Sadar Tani II	0	34	25	Sondi Raya Village, Raya subdistrict, Simlaungun	25-May-10	25-May-10
77	Training on Pineapple MD-2 Production Technique	Introduction new varieties Pineapple MD-2 and Development Pineapple MD-2 in West Java. Objectives of this training are introducing Pineapple MD-2 Cultivation Technique, start from Sucker (transplants) to Fruit Production.	USAID	West Java Province Agriculture Office, Bogor Regency Agriculture Office, PT. Alamanda Sejati Utama, PT. Momenta Agrikultura, University Farm - IPB, LPPM-UNPAD, and Farmers Group.	0	18	1	Desa Sukamanah, Kec. Megamendung Bogor	26-May-10	26-May-10
78	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Nduma,Darmo Kasea,Maju Bersama,Kompak,Lot Labana,Sada Arih,Kini Nduma,Asa Nduma,Darmo Kasea,Mulana Jadi,Kini Nduma,Marandal,Dalan Trolih,Dos Ukur Mersada	0	84	38	Kuta Tinggi Village, Salak subdistrict, Pakpak Bharat	26-May-10	27-May-10
79	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Cikala Ria,Raja Gok,Ratana,Bersatu,Tani Kopi,Nduma	0	54	33	Panenggalan Village, Salak Subdistrict,Pakpak Bharat	26-May-10	27-May-10
80	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Marjandi Dolog	0	36	24	Marjandi Dolog Village, Raya Subdistrict, Simalungun	27-May-10	27-May-10

81	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	petani, ktna, USAID staff and MOAg staff	1	44	4	mag Village, Raya Subdistrict, Simalungun	25-May-10	26-May-10
82	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	merek raya, padang bulan, b.pange, sariah, sejahtera, sahatta, gandawanti a tani, rumah bayu	0	53	11	Merek Raya Village, Subdistrict Raya, Simalungun	26-May-10	27-May-10
83	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	farmers	0	40	44	Kuta Tonggal Village, Tiga Nderket Subdistrict, Karo	27-May-10	28-May-10
84	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	arih ersada, gotong royong, mekar jaya, mesra	0	23	26	Tambak bawang Village, Dolok Silau S district, Simalungun	30-May-10	31-May-10
85	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Dos Arah, Bersinar, Marsada, Nan Cundung, Lumbung Pundy, Saud Jadi, Page Jolo, Harapan, Sama Bertumbuh, Sada Arah, Ndurna, Sitio-tio, Lum Urijan, Roh Marjuna, Galiaman, Sadap, Harapan Kita, Lum Urijan	0	61	35	Kuta Dame Village, Kerajaan subdistrict, Pakpak Bharat	31-May-10	1-Jun-10
86	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Mandarin, Simolop, Ngasah, Sada Arah, Gabuna, Uban Habin, Sada Kata	0	36	6	Silimakuta Village, STTE subdistrict, Pakpak Bharat	31-May-10	1-Jun-10
87	Enlightenment Session on Value Chain Concept for Value Chain Centre (VCC) Team (a Discussion)	The objective of the discussion are Sharing on Value Chain Concepts. Improve knowledge and Enlightenment for Value Chain Centre (VCC) Team	USAID	Value Chain Centre (VCC), LPPM-UNPAD	0	6	3	Jl. Banda, Bandung	1-Jun-10	1-Jun-10
88	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Suka Maju, Sariah, Taruna Tani, Hagar Tani, Gapoktan	0	30	28	Dalig Raya Village, Raya subdistrict, Simalungun	1-Jun-10	1-Jun-10
89	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	farmers	0	57	2	Gajah Village, Simpang Empat Sdistrict, Karo	1-Jun-10	2-Jun-10
90	Follow up training in collaborating with Estate Crops of Tabanan & Jembrana (the 2 <sup>nd</sup> meeting : Clone Selection & Grafting Technique) for 80 unit Farmer Groups	Tabanan & Jembrana, Bali	USAID	Taman Sari, Pamaksan Kaja, Pamaksan Kelod, Pamaksan Tireman, Tumpeng Giri, Buana Mekar, Tibu Misa, Dayang Pasut, Batur Penataran, Ulun Desa, Merta Sari, Giri Purana, Asaman Taman Sari, Asagan, Pamaksan angkah Pondok, Mekar Sari, Batu Jambul, Waru, Suci.	0	1,818	74	Tabanan & Jembrana, Bali	01-Jun-10	18-Jun-10

91	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Maju Bersama,Eben Ezer,Talup Ni Roha,Marsi Talupan,Lae Tanggiang,Hortabe Jaya,Bertani Saroha,Lamtama,Serasi,Martabe Jaya	0	59	26	Dolog Tolog Village, Sumbul subdistrict, Dairi	2-Jun-10	9-Jun-10
92	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	rama jaya,sirora,sampan riah,sitora,gloria,karya muda,r besi,jaya tani,simanja,sada arih	0	59	1	Naga Saribu Village,Pematang Silimakuta Sdistrict,Simalungun	3-Jun-10	4-Jun-10
93	Training on Beef Steak Tomato Production Technique and Crop Protection.	Training objective are Introducing New varieties of Tomato and Grafting Technique for tomato to improve Plant Health from deseas. Also introducing new technology : Drip Irrigation, Fertigation, and Plastic Cover on rainy season.	USAID	Mulus Rahayu FG (Cigedug FG)	0	29	1	Ds. Sukahurip, Kecamatan Cigedug, Garut.	4-Jun-10	4-Jun-10
94	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Sepakat Maju,Lae Cilum,Merandal,Bina Karya,Arke Banta,Mberna,Mitorana,Mata Kucing,Salak,Kitamo,Bina Karya	0	19	18	Salak Village,subdistrict Salak,pakpak Bharat	7-Jun-10	8-Jun-10
95	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	dasang,merokir,sada ukur,saut ulun,pardomuan	0	27	14	Buluh Telang Village, Tianida Sdistrict,Pakpak Bharat	7-Jun-10	8-Jun-10
96	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	sada rejeki,dosate,lomba maju,sada arih,njuah jerdik,kokik	0	60	16	Tinida village, Tinida Sdistrict,Pakpak Bharat	7-Jun-10	8-Jun-10
97	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	farmers	0	46	2	Paromil Village, Tinida Sdistrict,Pakpak Bharat	7-Jun-10	7-Jun-10
98	Training Banana New Technology Double Row System	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	DAT	0	33	29	Ketanguhen Village, Sibolangit Sdistrict, Deli Serdang	7-Jun-10	7-Jun-10
99	Training Banana New Technology Double Row System	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Bukum I,Bukum II,Bukum	0	32	52	Bukum Village, Sibolangit Sdistrict, Deli Serdang	8-Jun-10	8-Jun-10
100	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Marihat Jaya,Huta Bayu Raya,Gunung Panei,Jandi Raya,Jaya Tani	0	19	23	Dusun Marihat Village,Raya Hulan, Raya subdistrict, Simalungun	8-Jun-10	8-Jun-10
101	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	gunung hulan,b selamat,b raya	0	67	3	Bahapal Village, Raya Sdistrict,Simalungun	9-Jun-10	10-Jun-10
102	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	cinta tani, sada arih,lau biang 2	0	47	1	Rakut Besi Village,P Silimakuta Sdistrict, Simalungun	9-Jun-10	10-Jun-10

103	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Mandarin,Gabuna,Kasah,Maju,Sada Arih,Simolap,Lotte,Ngkasah	0	25	10	Kampung Kristen Village, Subdistrict Seribu Dolok, Simalungun	10-Jun-10	10-Jun-10
104	Training Banana New Technology Double Row System	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Mbuah Page,Merga Silima, KWT Mandiri	0	43	64	Tembengan Village, Biru-Biru S district, Deli Serdang	10-Jun-10	10-Jun-10
105	Training Banana New Technology Double Row System	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Arih Ersada	0	23	24	Martelu Village, Sibolangit S district, Deli Serdang	10-Jun-10	10-Jun-10
106	Training Banana New Technology Double Row System	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Pehulisa,Mampat,Arih Ersada,Batu Perkas	0	59	42	Rambai Village, Biru Biru S district, Deli Serdang	14-Jun-10	14-Jun-10
107	Training Banana New Technology Double Row System	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Arih Ersada,La Me Gogo,Ture-Ture Deleng Barus,Ersinaisal	0	88	42	Basam Village, Barus Jahe Sdistrict, Karo	14-Jun-10	14-Jun-10
108	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	farmers	0	63	27	Tapak Kuda Village, Kuta Buluh S district, Karo	14-Jun-10	15-Jun-10
109	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	murai,gomor,kenjulu	0	26	12	Mulia Rakyat Village,Merek Sdistrict,Karo	14-Jun-10	15-Jun-10
110	Training Banana New Technology Double Row System	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	Arih Ersada,Tama Guna,Maju Bersama,Mulana,Lengau,Bunga Ncole,Sangap ncani, Tunas Baru,Jayasari,Usahanta,Cempaka,Janggar Leitou,Bersatu,eprata,Simulih karaben ,Giat tani,Perlu, Hakta Ras	0	111	152	Tanjung Barus Village, Barus Jahe S district, Karo	15-Jun-10	15-Jun-10
111	Cocoa Farmer Training (the 7 <sup>th</sup> meeting : Harvesting & Sorting Pods,Pod Breaking & Drying, Sorting & Storage) for 100 unit FGs	Luwu Utara, South Sulawesi	USAID	Bukit Indah, Cahaya Coklat, Tunas Muda, Bunga Coklat, Sipatuo, Tunas Mekar, Tibusok, Siparuru, Sumber Harapan, Bosowa / Sapuraga II, Samaturu, Sapuraga, Tani Bersama, Bina Tani, Tunas Harapan, Taro Ada Taro Gau, Samtana, Mandiri, Tunas Sejahtera	0	1,995	307	North Luwu, South Sulawesi	15-Jun-10	30-Jun-10
112	Cocoa Farmer Training (the 7 <sup>th</sup> meeting : Harvesting & Sorting Pods,Pod Breaking & Drying, Sorting & Storage) for 100 unit FGs	Kolaka Utara, Southeast Sulawesi	USAID	Karya muda, Kakao raya, Putra tani, Kakao lestari, Tunas mekar, Meohai, Kakao putra, Padaidi , Kurnia lestari, Tunas muda, Kembali muda , Samaturu, Buah coklat, Mandiri, Bersatu, Samaturu, Abadi, Gunung coklat, Bunga coklat, Mattiro bulu, Reski jaya Mandi	0	2,118	502	North Kolaka, Southeast Sulawesi	15-Jun-10	30-Jun-10
113	Cocoa Farmer Training (the 7 <sup>th</sup> meeting : Harvesting & Sorting Pods,Pod Breaking & Drying, Sorting & Storage) for 100 unit FGs	Polman, West Sulawesi	USAID	Bintang Terang, Siammasei, Lestari, Bukit Indah, Mandiri, Cahaya Talepo, Bukit Hijau, Siasayang, Siasyangi II, Harapan Mandar, Siammasei, Mekar, Mesa Peolo, Harapan Jaya, Sipaingarang, Sinar Harapan, Sumber Jaya, Bukit Taheo, Bulo Lae, Bunga Mawar, Pemu	0	2,005	325	Polman, West Sulawesi	15-Jun-10	30-Jun-10

114	Cocoa Farmer Training (the 7 <sup>th</sup> meeting : Appropriate Sorting & Storage of Cocoa Beans ) for 60 FGs	Tabanan & Jembrana, Bali	USAID	Sari Bumi, Sarwa Pala, Petapan Sari Kaja I Petapan Sari Kaja II Petapan Sari Kaja III, Gelar Sari I, Gelar Sari II, Merta Nadi I, Merta Nadi, Merta Nadi, Petapan Sari Kelod, Sarwa Nadi, Pengungangan, Manggala Sari, Manggala Sari, Tumpeng Sari I, Tump	0	1,371	91	Tabanan & Jembrana, Bali	15-Jun-10	30-Jun-10
115	SCAI-Annual General Meeting	The approval for AD/ART revision, The Program Report for the 2008 - 2010 Period Chairman and Board, The election of new board, The approval for 2010-2012 programs and committee	SCAI-AMARTA	PTPN XII, AMARTA Project, IFC, APED,Aceh Coffee Forum, Farmer Cooperative Muli Sari, Farmer cooperative Subak abian, PT. Menacom, PT. Indokom Citra Persada, PT. Sabani Internasional, PT. Santino, PT. JavArabica, PT. Sulotco Jaya Abadi, KSU Lepo Gayo, PT.	1	47	9	Cyber 2 Tower, Jakarta	16-Jun-10	16-Jun-10
116	Round Table Discussion on Access to Technology	Discussed on Farmer's (Technology User) Access to Sources of Technology (e.g. GOI - R and D, University, Private company). Result of discussion are a Policy Brief for central / local government to improve access to technology.	USAID-AMARTA	LPPM UNPAD, PT. Alamanda Sejati Utama, STA Panumbangan Ciamis, Bandung Agriculture Office, Cisarua FGs, Eco Pesantren Daarut Tauhid, Bandung Agriculture Office, PT. Syngenta Indonesia, West Java Agriculture Office, and Others FGs.	0	23	9	Jl. Banda, Bandung	16-Jun-10	16-Jun-10
117	Farmer Field Day	Batualang - North Luwu	USAID	Farmer group representatives and farmer, head of village, local trader		131	7	North Luwu, South Sulawesi	16-Jun-10	16-Jun-10
118	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	Perintis Tani,Mudaha,Rodearni,Rado Asi	0	10	20	Sondi Raya Village, Raya Subdistrict, Simalungun	16-Jun-10	16-Jun-10
119	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	wanita tani,parratusan,sombul 2,sariah	0	41	4	Juma Sihala Village,, Raya Sdistrict,Simalungun	16-Jun-10	17-Jun-10
120	Training Banana New Technology Double Row System	The banana farmers introduced the good practice of growing banana with double row planting system and using meristem tissue culture to reduce disease problem	USAID	farmers	0	52	27	Lau Rakit Village, Biru Biru S district, Deli Serdang	17-Jun-10	17-Jun-10
121	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	sirunding,kompak tani,giat tani,karya tani,sapat hututan	0	39	2	Purba Tonga village,Purba S district,Simalungun	17-Jun-10	18-Jun-10
122	Inauguration SIKAP Mandar Alliance	Polman, West Sulawesi	USAID	Government, farmer group representatives, farmers, bank, NGO, Legislative, Exporter	0	91	47	Polman, West Sulawesi	18-Jun-10	18-Jun-10
123	Coffee Cultivation of Arabica Training	The aim of the training is to improve coffee arabica training using GAP and SOP, including nursery, pest and disease control and post harvest handling.	USAID	farmers	0	45	73	Bintang Meriah Village, Raya subdistrict,Simalungun	21-Jun-10	21-Jun-10
124	RACA : Participatory Discussion	Tabanan & Jembrana, Bali	USAID	Estate Crop Tabanan, Jembrana, provincial level, head of village, ALKANA, AMARKATA	0	68	3	Tabanan & Jembrana, Bali	22-Jun-10	23-Jun-10
125	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	keptan d.delapan belas	0	37	10	Tombak Sihala Village,Raya S district,Simalungun	24-Jun-10	25-Jun-10
126	Training on Post Harvest for Beef Tomato and Spraying Application Technique for Beef Tomato	Introducing farmer to fresh handling procedure for Beef Tomato (incl. Standard Quality, Sorting / Grading, Packing and Delivery) and Introducing new technique for Spraying application for plant (with height 2 - 3 meters) likes Beef Tomato.	USAID-AMARTA and Syngenta Foundation, PT. Momena Agrikultura	Mulus Rahayu FG (Cigedug FG), PT. Momena Agrikultura and CV. Bimandiri	0	39	1	Jl. Kayu Ambon, Lembang, Bandung.	24-Jun-10	24-Jun-10



127	Citrus Standard Operating Procedure Training	Citrus farmers trained basic practice of citrus standard operating procedure such maintaining soil fertility, pruning, controlling pest diseases and post harvest handling	USAID	banu jaya tani, subur, mutiara bumi	0	39	2	Urun Purba Village, Purba Sdistrict, Simalungun	24-Jun-10	25-Jun-10
128	Farmer Field Day	Tabanan & Jembrana, Bali	USAID	Estate crops agency, Extension service, FG representatives	0	118	4	Tabanan & Jembrana, Bali	24-Jun-10	25-Jun-10

Total Training Participants from April-June 2010

3 31,417 5,662 37,079

**AMARTA Indicators for Quarter 3, 2010 (April - June 2010)**

INDICATORS	Aqua	Natural	Cocoa	Coffee	Beef	Vegetables	Tropical Fruit	Biofuels	Seaweed	RACA	Total	
	culture	Rubber			Livestock		& Flowers					
Number of additional hectares under improved technologies or management practices as a result of USG assistance	Actual 2007	-	-	1,220	-	-	-	1,137	-	-	-	2,357
	Actual 2008	-	535	20,804	7,200	-	679	3,425	40	-	-	32,684
	Actual 2009	-	1,782	9,528	1,099	-	268	2,899	-	-	-	15,575
	Q3 2010	-	-	-	953	-	25	3,041	-	-	-	4,019
	Actual 2010	-	-	12,206	1,085	-	89	4,793	-	-	-	18,173
	Target 2010	-	0	12,325	4,135	-	116	6,016	-	-	-	22,592
	LOP Actual	-	2,317	43,758	9,384	-	1,036	12,254	40	-	-	68,789
	LOP Target	-	2,317	43,877	12,434	-	1,063	13,477	40	-	-	73,208
Number of additional units of animal, fish and other aquaculture products under improved technologies or management practices as a result of USG assistance	Actual 2007	-	-	-	-	-	-	-	-	-	-	-
	Actual 2008	14,140	-	-	-	300	-	-	-	2,203	-	16,643
	Actual 2009	92,769	-	-	-	38	-	-	-	1,866	-	94,673
	Q3 2010	14,830	-	-	-	3	-	-	-	-	-	14,833
	Actual 2010	46,744	-	-	-	6	-	-	-	-	-	46,750
	Target 2010	58,868	-	-	-	23	-	-	-	-	-	58,891
	LOP Actual	153,653	-	-	-	344	-	-	-	4,069	-	158,066
	LOP Target	165,777	-	-	-	361	-	-	-	4,069	-	170,207
Number of producer organizations, water user associations, trade and business associations, and community-based organizations (CBOs) receiving USG assistance	Actual 2007	-	-	-	9	-	-	-	-	-	-	9
	Actual 2008	3	19	860	290	17	107	273	2	15	69	1,655
	Actual 2009	-	4	42	5	22	4	233	-	-	122	432
	Q3 2010	-	-	-	303	-	3	217	-	-	-	523
	Actual 2010	-	-	224	423	-	10	390	-	-	5	1,052
	Target 2010	-	-	224	146	-	21	267	-	-	81	739
	LOP Actual	3	23	1,126	727	39	121	896	2	15	196	3,148
	LOP Target	3	23	1,126	450	39	132	773	2	15	272	2,835
Number of agriculture related firms benefiting directly from USG supported interventions	Actual 2007	-	-	-	-	-	-	-	-	-	-	-
	Actual 2008	12	11	22	10	1	15	11	4	2	2	90
	Actual 2009	-	-	4	9	-	3	8	-	-	-	24
	Q3 2010	-	-	-	4	-	13	-	-	-	3	20
	Actual 2010	2	-	1	39	-	14	-	-	-	3	59
	Target 2010	2	-	11	55	-	14	3	-	-	8	93
	LOP Actual	14	11	27	58	1	32	19	4	2	5	173
	LOP Target	14	11	37	74	1	32	22	4	2	10	207
Number of individuals (men and women) who have received USG supported short-term agriculture sector productivity training	Actual 2007	-	79	17,428	128	-	60	5,520	-	-	186	23,401
	Actual 2008	453	445	32,155	12,670	446	1,497	3,942	1,436	216	1,387	54,647
	Actual 2009	192	384	60,809	1,257	-	859	4,483	-	218	972	69,174
	Q3 2010	-	-	260	2,494	-	236	3,570	-	-	622	7,182
	Actual 2010	-	-	13,928	2,827	-	782	5,740	-	-	1,768	25,045
	Target 2010	55	-	19,608	5,610	4	837	3,915	-	-	1,455	31,484
	LOP Actual	645	908	124,320	16,882	446	3,198	19,685	1,436	434	4,313	172,267
	LOP Target	700	908	130,000	19,665	450	3,253	17,860	1,436	434	4,000	178,706
Percent change in value of international exports of targeted agricultural commodities as a result of USG assistance	Actual 2007	-	-	-	-	-	-	-	-	-	-	-
	Actual 2008	-	-	100	100	-	-	-	-	100	-	100
	Actual 2009	-	-	104	69	-	-	-	-	100	-	91
	Q3 2010	-	-	17	-	-	-	-	-	-	-	17
	Actual 2010	-	-	39	-	-	-	-	-	-	-	39
	Target 2010	-	-	45	89	-	18	-	-	100	-	63
	LOP Actual	-	-	81	85	-	-	-	-	100	-	88
	LOP Target	-	-	45	89	-	18	-	-	100	-	63
Percent change in value of purchases from smallholders of targeted commodities as a result of USG assistance	Actual 2007	-	-	-	-	-	-	-	-	-	-	-
	Actual 2008	100	-	100	100	-	-	87	-	100	-	97
	Actual 2009	87	-	125	25	-	100	100	-	200	-	127
	Q3 2010	369	-	3	-	-	67	-	-	-	-	146
	Actual 2010	213	-	33	-	-	53	-	-	-	-	100
	Target 2010	100	-	30	59	-	50	26	-	150	-	69
	LOP Actual	133	-	86	63	-	77	94	-	150	-	88
	LOP Target	100	-	30	59	-	50	26	-	150	-	69
Number of new technologies or management practices made available for transfer as a result of USG assistance	Actual 2007	-	-	-	-	-	-	9	-	-	-	9
	Actual 2008	24	14	25	12	1	23	27	5	4	-	135
	Actual 2009	2	1	3	-	1	11	3	-	2	8	31
	Q3 2010	-	-	1	2	4	10	-	-	-	-	17
	Actual 2010	-	-	2	4	4	13	-	-	-	-	23
	Target 2010	-	-	4	14	-	15	4	-	-	-	37
	LOP Actual	26	15	30	16	6	47	39	5	6	8	198
	LOP Target	26	15	32	26	2	49	43	5	6	8	212
Number of additional surveillance and/or control systems in place for agricultural threats	Actual 2007	-	-	-	-	-	-	-	-	-	-	-
	Actual 2008	6	2	4	3	1	-	1	-	1	-	18
	Actual 2009	4	-	1	-	1	1	-	-	2	-	9
	Q3 2010	-	-	-	1	-	-	-	-	-	-	1
	Actual 2010	-	-	-	1	-	1	-	-	-	-	2
	Target 2010	-	-	-	-	-	1	-	-	-	-	1
LOP Actual	10	2	5	4	2	2	1	-	3	-	29	
LOP Target	10	2	5	3	2	2	1	-	3	-	28	

