



USAID | **HAITI**
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FEED THE FUTURE WEST / WINNER ANNUAL REPORT

FISCAL YEAR 2013



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The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

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ACRONYMS

ADEBABO	Association pour le Développement de Bas Boen
ACIDEVTH	Association des Citoyens pour le Développement (Trou d'Eau)
ACPDD	Association des Citoyens Progressistes pour le Développement de Duvier
ADAIM	Association pour le Développement Agro-Industriel de Mirebalais
ADIM	Association pour le Développement de l'Intégration Massive
AGCRDD	Association de Gestion du CRDD
AIPA	Association des Irrigants de la Plaine de l'Arcahaie
AJAD	Association des Jeunes pour Alphabétisation et Développement Communautaire
AJBD	Asosyasyon Jen Baye wouj pou Devlopman Dwaya Dasne
AJPD	Association des Jeunes Patriotes de Drouillard
ANAPAAAH	Association Nationale des Producteurs Agricoles pour l'Avancement de l'Agriculture Haïtienne
AND	Autorité Nationale Désignée
APADAPC	Association des Planteurs en Action pour le Développement de l'Agriculture de la Plaine du Cul-de-Sac
APD	Association des Planteurs de Duval
APFCK	Association des Producteurs de Fleurs Coupées de Kenscoff
APPADAM	Association des Paysans Plus en Action pour le Développement
ASOJEDEP	Association des Jeunes pour le Développement de la Plaisance
ASPEK	Asosyasyon Peyizan Kwochi
ASV	Association de Solidarité de Vaudreuil
AT6	Association des Travailleurs de la 6ème Section St Marc
ATRADEM	Association des Travailleurs pour le Développement de Merceron
BIA	Boutique d'Intrants Agricoles
BRANA	Brasserie Nationale
CNC	Conseil National des Coopératives
COAGEL	Coopérative Agricole de Lefevre
CODECOF	Conseil Communautaire de Furcy
COEPDA	Comité des Organisations Evangéliques pour le Développement Agricole
CRDD	Centre Rural de Développement Durable
COTR	Contracting Officer Technical Representative
CUPEC	Coopérative de l'Union des Paysans Calous
DFSA	Delicious Fruits SA
DPC	Direction de la Protection Civile
EDAG	Economic Development Advisory Group
EDH	Electricité d'Haïti
ELITE	Ensemble des Personnes les Plus Responsables d'un Groupe ou d'une Communauté
EMPR	Environmental Mitigation Plan and Report
FAMV	Faculté d'Agronomie et de Médecine Vétérinaire
FAPDG	Fédération des Agriculteurs pour le Développement de Goyavier

FEDEPAT	Fédération des Producteurs Agricoles de Thomazeau
FEWS	Flood Early Warning System
FTF	Feed the Future
GAP	Good Agricultural Practices
GARPRON	Groupe d'Appui pour le Remembrement de la Production Nationale
GIS	Geographical Information System
GRAFIDGRAPT	Groupement des Affaires Internes de la Grande Plaine de Thomazeau
HITSA	Haiti International Trader SA
HTG	Haitian Gourde
IFDC	International Fertilizer Development Center
JADEG	Jeunes en Action pour le Développement de Ganthier
KAPPG	Kooperativ Agricool pou Pwogre Peyizan Gwayavye
KEBJ3A	Kodinasyon Ekip Blok Jilbe 3eme Seksyon pou Suspen Te Ale
KOEPDA	Komité Evangelique pour le Développement Agricole
LEA	Lamardelle en Action
MARNDR	Ministère de l'Agriculture, des Ressources Naturelles, et du Développement Rural
MODEG	Mouvement pour le Développement de Gros Balance
MOU	Memorandum of Understanding
MPDLMB	Mouvement Paysan pour le Développement de la Hatté Cotin Mme Bauge
ODAI – L	Organisation de Développement Agricole Intégré - Local
ODEMAR	Organisation pour le Développement des Enfants des Masses Rurales
OPVH	Organisation des Paysans Vaillants de la Hatté Cadette Thomazeau
OJEUDEC	Organisation des Jeunes pour le Développement de Cécicourt
OPD8	Organizasyon Gwopman Peyizan pou Devlopman 8eme Seksyon Kominal Akaye Monwi
OPDD	Organisation pour le Développement de Dumisseau
OPADEC	Organisation des Paysans pour l'Avancement et de Développement de la CDB
OTPDBC	Organisation des travailleurs pour le Développement de Bois Cotin
ODCs	Other Direct Costs
ONADEV	Organisation Nationale des Agents de Développement
PERSUAP	Pesticide Evaluation Report and Safer Use Action Plan
PHASS	Association Passionnante Haïtienne pour le Service Social
RAPCOM	Regwoupman Asosyasyon pou Pwoduksyon ak Komesyalisasyon
RIG	Regional Inspector General
RPI	Research Planning International
SAPKO	Sosyste Agricool pou Pwoduksyon ak Komesyalisasyon
SOCOBELAM	Société Coopératives Bellevue la Montagne
SOCODEF	Société Coopérative pour le Développement de Fonds Baptiste
SOHARDEK	Solidarité Haïtienne pour le Développement de Kenscoff
SRI	System of Rice Intensification
STTA	Short Term Technical Assistance
UF	University of Florida
USAID	United States Agency for International Development
WIF	Watershed Investment Fund

WINNER

Watershed Initiative for National Natural Environmental Resources

SECTION I. OVERVIEW

Feed the Future West/WINNER's annual report for Fiscal Year 2013 covers the period from October 1st 2012 to September 30th 2013 and presents project achievements under the new USG Strategy for Haiti. Over the past fiscal year, FtF West/WINNER was a leading development actor in the Cul de Sac and Matheux corridors and continued to intervene at each stage of focus value chains, working with tens of thousands of small farmers, to expand production, processing and commercialization of key crops. We are pleased to report that the project has gained respect and support from governmental institutions, farmer organizations and private enterprises that are our main partners and beneficiaries and participate in our unprecedented efforts to promote broad-based modernization of Haitian agriculture in our zones of intervention.

In last year's work plan, we introduced a series of strategic considerations that shaped our approach and guided our activities. We will now use the same strategic considerations to better understand and evaluate our most important accomplishments in FY 13.

A1. Strategic Considerations

Transition towards sustainability:

We decided that Year 4 (FY 13) should be a transition period towards sustainability. One of our major planned initiatives was to strengthen eligible farmer organizations, so that they become more sustainable and graduate to directly receive grants from USAID/Haiti, in the spirit of USAID FORWARD.

In that perspective, we undertook an assessment of 47 WINNER-supported organizations that were carefully selected among more than three hundred partner entities. Those organizations included the best Chanpyon associations and cooperatives, partner foundations and entities that will take over the management of CRDDs at the end of WINNER. The assessment was conducted according to the NUPAS criteria (Non-US Organization Pre-Award Survey), which include: legal structure, financial management and internal controls, procurement systems, human resources systems, project performance management, and organization sustainability. We attributed weights to each criterion, to take into account the specific characteristics of local organizations supported by FtF West/WINNER.

Overall, associations have decent technical capacity; however, they were generally weak in terms of organizational structure and internal controls. In light of those results, the project has started and will continue to provide capacity building to target organizations, based on their specific needs, in the areas of accounting systems, internal control procedures, and monitoring and evaluation. The goal is to help them acquire sound managerial and financial skills, strengthen their structures and democratize their leadership.

We also engaged a team of experts in June 2013 to conduct an assessment of the financial sustainability of 17 partner input stores (BIAs). For the evaluation process, BIAs' financial records of May 2013 were combined with scores received against the following criteria: physical infrastructure (including environmental compliance), dynamism of managers, presence of a management committee, communication strategy, use of sound accounting principles and production of accounting reports, stock management strategy, and customer satisfaction. A little over 50% of BIAs demonstrated potential of becoming fully sustainable without FtF West/WINNER support, whereas almost a third of them had moderate potential of attaining sustainability. Only three BIAs were facing challenges to become financially viable. Weaker stores have since received additional training and we are confident that all BIAs will continue to operate and generate profit, without our assistance, at the end of WINNER. We succeeded to capitalize BIAs, since their overall bank savings sum up to nearly 9 million HTG (approximately \$ 208,000) for an average of \$13,000 per BIA. The total value of BIA assets was 55.4 million HTG (approximately \$1.23 million) for an average of \$80,000 per BIA.

Another key step toward sustainability was the creation of five "Chanpyon" cooperatives, in the Cul-de-Sac plain, Kenscoff/Petionville, Matheux corridor, Mirebalais and Saut d'Eau. The main purpose of those cooperatives is to commercialize agricultural products coming from associations assisted by FtF/WINNER. They own the "Chanpyon" brand and logo, which reflects an image of healthy local products, grown and packaged using modern and environmentally friendly techniques. In the future, they will also have the capacity to buy agricultural inputs in larger quantities for BIAs. We helped the cooperatives set up their offices and we provided training on management, organizational structures and accounting systems. We also gave them trucks to facilitate the transport of agricultural products to markets. Those cooperatives are expected to take a lead role in aggregating the production of small farmers and in interacting with end buyers of agricultural products, from hotels to supermarkets. They also manage the weekly "farmers' market" (Mache Peyizan) launched by WINNER in January 2012.

Focus on a few value chains in the plains, while promoting sustainable agriculture on hillsides (IR 1 and 2).

We continued to work with small farmers to increase yields and expand the production of our focus crops: corn, rice, beans and plantain in the Cul de Sac and Matheux corridors, as well as mango in the Mirebalais and Saut d'Eau regions. We are pleased to report the following results that generally show progress, thanks to a combination of improved extension services and access to good quality inputs, despite adverse weather conditions.

- The average yields for beans in FY 2013 for farmers supported by FtF West/WINNER were slightly lower than the yields reported last year. This is mainly due to severe drought conditions experienced at the beginning of 2013 that negatively impacted production. However, gross margins increased for WINNER-assisted farmers thanks to higher market prices (\$1,392 in FY 13 compared to \$1,023 in FY 12).

- The spring/summer corn campaign had to be extended, following a severe drought that prevailed at the beginning of the year. However, average corn yields for farmers assisted by FtF West/WINNER increased due to a greater utilization of high quality, hybrid corn seeds. The average yields went from 3.54 tons to 4.64 tons per hectare.
- There was a significant expansion of areas planted in rice in the Cul-de-Sac plain, which reached 1,000 hectares for the first time. While not all farmers are applying the full itinerary for SRI (system of rice intensification), there is evidence that many small growers are using at least some of the system's features, such as early and one-slip transplanting. This has led to an increase in average yields, for WINNER-assisted farmers, from 5.03 to 5.26 tons per hectare, compared to a baseline yield of 2.5 T/ha
- The average yield for plantain in FY 2013 for farmers supported by FtF West/WINNER was 20.31 tons per hectare. It is worth noting that the baseline previously reported (24 tons/ha) was erroneous. The actual baseline for plantain producers in the Matheux corridor, estimated in 2011, is 13 tons per hectare. The gross margin per hectare for plantain farmers in the Matheux is \$6,172/year, making plantain one of the most valuable crops in Haiti.
- The total value of mango exports from farmer associations supported by FtF West/WINNER in the 2013 mango growing season is \$1,161,035. Without our interventions to improve mango harvest and reduce post harvest losses, we estimate that mango exports from the same associations would have only reached \$656,866. Thus, the added value of mango exports due to US Government assistance in 2013 is \$504,169 for WINNER-assisted farmer organizations. This is a 92% increase over the value reported last year (\$262,472).
- In hillside areas, we continued to promote the "Greenhouse Revolution", by training farmers and providing in-kind grants to farmer associations for the installation of small greenhouses with drip irrigation and vertical growing systems. During the 2013 fiscal year, we helped 36 farmer organizations including more than 15,000 members build 263 greenhouses in the Kenscoff and Matheux corridors. This technique of protected and vertical agriculture is used to grow high value crops such as vegetables and flowers, and generate more money per year on 70 m² than a farmer usually makes on one hectare with traditional practices. This innovative technology frees up spaces on hillsides for soil conservation and agro-forestry activities. As a cost-share, each member of farmer associations that benefit from this program must plant 50 fruit or forest trees.

Improve commercialization of agricultural products (IR 3).

This year, FtF West/WINNER continued to be active in supporting the commercialization of agricultural products, working with a total of 42 farmer associations from Cul de Sac,

Matheux and Kenscoff to improve market access and expand sales that reached more than \$600,000, including “Mache Peyizan” events. We were less successful with big contracts between Chanpyon cooperatives and large agribusinesses, because farmers have a tendency to disregard their long term commitments and prefer to quickly sell their products, generally on retail markets that offer better prices. On the other hand, on the positive side, they learned to pay attention to product specifications such as moisture content or quality of grains. We now encourage cooperatives to sign short term contracts with agribusinesses, for small quantities that are easily manageable.

There is no profitable commercialization without appropriate post-harvest operations. We helped reduce post harvest losses through adequate training and in-kind grants of small silos, crates, tarps, pack frames and moisture gauges. We also provided the material and technical support to a farmer organization in Kenscoff to set up the first modern packing unit, with a daily capacity of 2 tons of fresh fruits and vegetables. This kind of support, as well as the mobile collect unit for mango and plantain, is transforming and modernizing the way small farmers commercialize their products in our zones of intervention.

Provide more effective extension and technical support services (IR 1 and 2).

Our master farmer program remained one of the key pillars to providing proximity and broad-based technical support to small holders, especially in light of the absence of extension services from governmental institutions. Over the past year, we included a nutrition course in the master farmer curriculum and we proposed new specializations such as irrigation and drainage, or integrated pest management. We continued to carefully monitor post-certification performances and needs of master farmers and helped market their services to other projects, NGOs, agribusinesses and public institutions. In FY 2013, 991 master farmers were certified, including 417 women (42%). To date, Ftf West/WINNER has certified 2,547 master farmers, including 730 women (28.6%).

The “Centres Ruraux de Développement Durable” (CRDDs) became strategic demonstration and training centers regularly visited by hundreds of farmers and agribusinesses eager to learn new practices, see improved varieties and try modern equipment. They are unique in Haiti and attract people from all regions of the country. CRDDs offer also an ideal environment for students and researchers to conduct studies and undertake research activities in many fields. We provided scholarships to 35 students from the main public and private universities. Throughout the 2013 fiscal year, the Bas Boen CRDD received a total of 1145 visitors, with 749 visits to the laboratory where small farmers can have soil samples analyzed for a little more than 2 dollars.

As of January 2014, the Bas Boen CRDD will be managed by a private foundation including representatives of three universities, farmer organizations and private enterprises. This foundation will sign a management contract with the Ministry of Agriculture, which owns the land and the buildings, and will receive a grant from Ftf West/WINNER.

The construction of the Montrouis CRDD was launched on June 25th 2013. The facility is built on 3 hectares of land donated by a private entity, the Fondation Délugé. It will be managed by an organization that includes representatives from local farmer associations, the Ministry of Agriculture, the Commune of St Marc, and the Fondation Délugé. The

Montrouis CRDD will focus on plantain, which is the most important value chain in the Matheux corridor.

The Kenscoff CRDD was inaugurated on January 24th 2013, in the presence of US Ambassador Pamela White, Minister of Farmer Promotion, Mimose Felix, Kenscoff Deputy Louis Gustave, Undersecretary for Agriculture Fresnel Dorcin, and Dr. Walter Bowen from the University of Florida. The Wynne Foundation is the private partner, which will manage the CRDD and which will ensure the long term sustainability of our training and demonstration programs.

The last key component of our technical support to farmers is the SMS extension system that provided technical information to 8,000 small growers, who already registered in our database. Beneficiaries received bi-weekly messages that encompassed topics such as proper plantation techniques, availability and price of inputs and soil preparation services, as well as other useful information.

Introduce innovative production systems that both increase incomes and reduce degradation (IR 1 and 2).

In August 2013, we organized a workshop with farmers from all FtF West/WINNER corridors, in order to objectively evaluate innovations introduced by the project during the last four years and receive feedback on the effectiveness of our assistance. More specifically, we requested comments and recommendations from participants on agricultural campaigns, extension services, new practices, post-harvest operations, commercialization, and the rehabilitation of rural infrastructures:

- Most associations recognized that access to irrigation water, inputs and technical support were the best services offered by FtF West/WINNER. Visits to CRDD, extension services from young agronomists (REAs) and master farmers, as well as SMS messages were the most effective ways to disseminate and share technical knowledge. But all participants complained about the lack of credit, which is a major impediment and prevents farmer from using equipment, inputs and new techniques introduced by FtF West/WINNER, on a much larger scale.
- Participants recommended a partnership between the Haitian Government, the private sector and farmer associations to continue planning and implementing agricultural campaigns in the future. They also highlighted the importance of using modern methods for extension services (text messages, demonstration plots, videos, etc.) and empowering public and private institutions to deliver those services.
- They insisted on specific training programs, such as compost production or reduction of post harvest losses and requested that water user associations be strengthened for the maintenance of irrigation systems.

To reduce the degradation of upper watersheds, we pursued our agro-forestry campaigns, mainly based on fruit trees and other income-generating species such as coffee, to stabilize hillsides, protect irrigation systems and other downstream investments, and foster additional revenues for small farmers. In FY 2013, a total of 1,446,987 seedlings were produced and 1,285,730 fruit and forest trees were planted by the project in the Kenscoff, Mirebalais/Saut d'Eau, Matheux and Cul de Sac regions. We also established 84 coffee nurseries that produced 1,614,952 seedlings, of which 1,045,515 were transplanted. Finally, through our partnership with DINASA, a major oil distribution company, almost one million seedlings of fruit and forest trees were transplanted in FY13 by 104 farmer associations supported by FtF West/WINNER.

Rebuild and maintain critical infrastructures (IR 1, 2 and 3)

In FY 2013, we continued to expand irrigated areas in the Cul-de-Sac and Matheux corridors, so that farmers can have access to irrigation water even during dry seasons. More precisely, in FY13 we rehabilitated 4,400 hectares of the Riviere Blanche system, 9 irrigation pumps in the Cul-de-Sac plain and 3,500 hectares of the Torcelle and Bretelle irrigation systems in the Matheux corridor. We also made emergency interventions at the end of October 2012 to clean clogged canals in areas badly hit by hurricane Sandy and enable farmers to participate in the bean campaign from December 2012 to March 2013. However, our most important activity, the diversion structure on the Riviere Grise, in the Cul de Sac corridor, as well as our road program, were delayed because we did not receive on time the necessary technical and environmental authorizations from the Mission. We would like to provide more details on this last point:

Rivière Grise diversion structure

In order to provide a sustainable and long-term solution for irrigation in the Cul de Sac, the FtF West/WINNER team has been working for 30 months with its subcontractor CH2M Hill, the GOH, local partners and USAID officers to develop a permanent diversion structure on the Riviere Grise, as opposed to the current temporary dirt dike that must be dismantled and rebuilt before and after heavy rains. The proposed diversion structure represents one of the most important, even transformational, investments of USAID/Haiti in the agricultural sector. It will increase irrigated areas from 4,700 ha to 7,300 ha, at least, and will protect thousands of people against flood damages in the Dumay/Croix des Bouquets area. In FY 2013, FtF West/WINNER completed the design of the riviere Grise diversion structure. The project organized a bidders' conference in February 2013. Bids were received in March 2013 and a contractor was selected in May 2013, through an international competitive process, with the active participation of the Mission. The contract was then submitted to USAID for approval, as well as a full environmental assessment, and we are still waiting for the final approvals to begin the work.

Road program

In our work plan for FY 2013, three road rehabilitation activities were planned with the goal of facilitating access to markets and reducing transportation costs: the Dumay, Merceron, and Cottin roads in the Cul-de-Sac plain. After the passage of hurricane Sandy

in October 2012, four additional road projects were submitted to the Mission for quick interventions: Campeche, Carrefour-Ti Marche, Marlic-Duvier, in the Cul-de-Sac and Bretelle-Cazale in the Matheux corridor.

Dumay Road: The rehabilitation of the Dumay road was first identified and proposed by FtF West/WINNER to USAID in the 2010-11 workplan. In September 2012, a company was chosen, MULENG SA, by an evaluation committee with the active participation of a representative from the Mission. In September 2013, one year after the selection of the subcontractor MULENG SA, USAID engineer informed project staff during a work planning meeting that the Dumay road rehabilitation could not be approved, because of errors in the study and high cost of the works. This road has been dropped from our FY2014 work plan.

Merceron road: In July, 2012 a detailed study commissioned for the partial rehabilitation of the road was performed and sent to the Mission, with a cost of about \$150,000/km. In November 2012, after the passage of Hurricane Sandy, project engineers, using the study, proposed to the Mission the implementation of some repair works to re-open the road to traffic. In March 18 2013, after being informed that the GoH would no longer execute the consolidation and strengthening works on the Riviere Blanche banks, as originally expected, FtF West/WINNER engineers recommended to cancel the repair works, to avoid flooding of the repaired road. FtF West/WINNER informed the Mission of the decision.

Cottin road: In June 2012, a preliminary study was commissioned for the rehabilitation of the 6-km road from Cottin (source Zabeth) to Chapotin. Based on the economic analysis, the full rehabilitation was dropped because the repair costs were considered too high. Furthermore, the road faced high flood risks from the Rivière Blanche (similar to the Merceron road), whereby the sustainability of the rehabilitation works was contingent to the GOH dredging the Rivière Blanche and strengthening its banks.

Campeche: In October 2011, the original plan to rehabilitate this road was dropped by the Mission due to high costs. In March 2013, a joint field visit between USAID representative and FtF/WINNER was made to re-assess the feasibility of the project. The rehabilitation of the road was once again dropped by the Mission due to cost constraints.

Ti-Maché: In March 2013, a joint field visit between USAID and FtF/WINNER was conducted to the road site, which was extremely damaged by hurricane Sandy. Following this visit, the rehabilitation of the Ti Maché road was dropped by the Mission due to time and resource constraints.

Marlic - Duvier: On March 18-19, 2013 a joint field visit between USAID and FtF/WINNER staff was organized to the road site. The rehabilitation of hillside roads, including the Marlic – Duvier segment, was dropped by the Mission due to time and resource constraints.

The Matheux (Bretelle- Cazale): Studies for the 2 remaining roads have started (Bretelle-Cazale and Robert-Delices; 19 km) and the works will be completed in August 2014, if we receive on time the technical and environmental authorizations from the Mission.

Soil conservation and ravine treatment

In FY 2013, FtF West/WINNER implemented a total of 13 soil conservation and ravine treatment activities in the upper watershed of the Rivière Grise, in the Petionville commune. Overall, these activities resulted in the treatment of some of the most aggressive ravines in the region (Duval, Figaro, Martha, Duvier, etc.) that threaten lives and properties of thousands of people. Local organizations received grants and adequate training to install dry walls and gabions on 33,6 kilometers of ravines; They also stabilize 116.6 hectares of hillsides through the plantation of 133,600 trees, and 1,651,250 seedlings of vetiver. The impact of these activities has been very positive on both the management of the sub-watersheds around the ravines and the protection of agricultural infrastructures in the productive plains downstream from the ravines. It is estimated that the dry walls and gabions have allowed the trapping of 43,798 cubic meters of sediments. In the absence of these systems, a large portion of sediments would have threatened the productive plains and rivers downstream of the ravines. Furthermore, the trees and vetiver seedlings planted on hillsides and the gabions installed in the middle of ravines have greatly contributed to increase the infiltration of water in the soil, resulting in new water springs.

Strengthen local governance structures (IR 2)

One of our key tasks was to implement the watershed management plans for the Cul de Sac and develop a new one for the Matheux corridor. We especially focused on land use/land cover maps and plans at the commune level to help local governments and stakeholders understand the challenges ahead and properly manage their urban, agricultural and forest lands. We helped communes in the plain of Cul de sac develop zoning regulations that will protect agricultural lands.

In mid November 2012, a two-day workshop was organized by FtF West/WINNER, jointly with the CIAT, to present the Cul-de-Sac watershed management and zoning plans to Ministry of Agriculture officials and key stakeholders involved in watershed management in the Cul-de-Sac corridor (mayors, representative of civil society, professionals and private sector representatives). During the event, participants had the opportunity to discuss the actions proposed in the plans and to make recommendations for their effective implementation. This region-level plan is a key input to the subsequent development of zoning policies for communal-level plans for the communes of (Petionville, Kenscoff, Croix-des-Bouquets, Tabarre, Ganthier, Thomazeau, and Cité Soleil).

Following this event, and on the base of this plan, several meetings were held between FtF West/WINNER and representatives of the ten communal sections of Croix des Bouquets (ASECs, CASECs, farmer associations, community leaders), to gather inputs for the development a zoning plan for the commune. Related zoning maps were prepared and the plan was finalized in May 2013, identifying areas reserved for agriculture,

urbanization, reforestation, etc. This plan has been used to draft a municipal zoning decree for the area which is now ready for enactment.

In Petionville, meetings between FtF West/WINNER were held with representatives of five communal sections to gather inputs for the development the commune's zoning plan, which will be finalized in late October 2013 and presented to key stakeholders for feedback in early November 2013.

SECTION II. AGRICULTURAL PRODUCTIVITY INCREASED

This section presents the progress made by Feed the Future West / WINNER during fiscal year 2013 (October 2012 – September 2013) in increasing agricultural productivity. Sustainable increase of agricultural productivity remains a key component of the Feed the Future initiative and FtF West/WINNER program. Across the target corridors and value chains, FtF West/WINNER has built on results to date to increase rural incomes through agricultural modernization, training, extension services, in order to increased yields and foster a transition towards sustainability by building the capacity of farmer associations and local institutions, including the CRDDs.

2.1. Market-driven access to agricultural inputs

2.1.1 Support to BIAs

Since the inception of the project, FtF West/WINNER has been providing a comprehensive technical support package to farmers through semi-annual Agricultural Campaigns. The package includes: increased access to improved agricultural inputs (seeds, fertilizer and pesticides), soil preparation services, including mechanized soil preparation, and extension services through FtF West/WINNER's network of REAs (rural extension agents).

Feed the Future West/WINNER supported increased access to agricultural inputs through in-kind assistance to agricultural in supply stores or BIAs (Boutiques d'Intrants Agricoles). In fiscal year 2013, BIAs received inputs for the winter bean campaign and for the spring/summer agricultural campaign in both the Cul-de-Sac and Matheux corridors, in the form of seeds and fertilizers. This year, FtF West/WINNER worked with a total of 17 BIAs (5 in the Matheux corridor, 6 in Kenscoff and 6 in the Cul de Sac plain).

The total value of the support provided by FtF West/WINNER BIAs for this year's campaigns amounted to HTG 28,862,498 (approximately \$670,000), out of which HTG 12,232,880 (approximately \$285,000) were provided by the BIAs as part of a cost-sharing agreement. This system was devised by the project to ensure the financial sustainability of these stores. The BIAs that have been supported by the project for less than two years had to put in a cost share of 30%, while the BIAs that have been supported by the project for more than 2 years are required to put up a 50% cost-share for the purchase of inputs. Table 1 outlines the different types of support provided by the project to partner BIAs and the respective cost-sharing percentage for each BIA.

Support provided by FtF West/ WINNER to partner BIAs in Cul de Sac plain, Matheux and Kenscoff this year totaled 245 metric tons of fertilizers, 397 metric tons of urea, 27 metric of DAP. Additionally, the project also supplied the stores with 83.5 metric of red bean seeds, 88 metric tons of black bean seeds, 50 metric tons of corn seeds and 6.7 metric tons of rice seeds. A total of 228.7 metric tons of seeds were provided for the BIAs as part of the year's agricultural campaigns.

Ensuring the financial sustainability of the BIAs is one of the key objectives of the support provided to FtF West/WINNER. This year, BIA staff were trained on financial and administrative management with the aim of strengthening their business skills. A management system for BIAs was also developed and implemented by the project. Moreover, meetings between input supply stores (BIAs) and agricultural input suppliers were organized to consolidate the relationships between BIAs and importers of agricultural inputs to ensure the regular supply of these products at competitive prices.

Table 1 presents the financial status of the BIAs as of September 2013, including the amount stores have in bank accounts, cash on hand, accounts receivables from credit issued, and the value of assets. As shown, the overall value of revenues generated by 16 BIAs reached 21.6 million HTG (approximately \$500,000). Overall, BIAs' bank savings sums up to nearly 9 million HTG (approximately \$ 208,000) for an average of \$13,000 per BIA. The total value of BIA assets was 55.4 million HTG (approximately \$1.23 million) for an average of \$80,000 per BIA.

Table 1. Financial report of BIAs supported by FtF West/WINNER * (Sept. 2013)

BIA #	Association's name	Total revenues (HTG)	Amount in bank (HTG)	Accounts receivables (HTG)	Total cash on hand (HTG)	Value of assets (HTG)
<i>Kenscoff</i>						
1	CODECOF	631,680	278,643	not available	20,960	880,684
2	SOCOBELAM	595,485	199,312	not available	127,641	3,623,200
3	COAGEL	391,073	66,812	not available	128,976	715,343
4	SOHADERK	1,395,795	769,643	not available	159,150	4,758,383
5	ODEMAR	897,865	72,599	not available	35,625	3,892,791
6	AVIH	not available	not available	not available	not available	not available
	Subtotal	3,911,898	1,387,009	0.00	472,352	13,870,401
<i>Cul de Sac Plain</i>						
7	APD	268,445	153,947	172,000	7,000	1,329,101
8	ACPDD	1,208,107	351,278	22,916	10,000	2,157,198
9	LEA	371,938	300,000	150,175	0	2,474,878
10	OPVH	1,561,040	426,968	200,000	51,575	1,494,642
11	GFVCT	969,400	884,995	450,000	0	3,503,036
12	OJEUDEC	553,672	601,337	19,085	4,400	1,883,448
	Subtotal	4,932,602	2,718,525	1,014,176	72,975	12,842,303
<i>Matheux</i>						
13	RACADAMA	5,424,130	2,143,246	1,111,208	26,000	15,061,755
14	GFVB	1,363,734	608,244	10,000	16,834	3,779,320
15	ATAIB	1,350,252	300,600	42,601	1,500	3,919,103
16	SOCODEF	2,978,938	1,195,634	820,450	259,073	3,590,324
17	FAPDG	1,686,292	600,000	500,000	16,925	2,332,026
	Subtotal	12,803,346	4,847,724	2,484,259	320,332	28,682,528
	TOTAL - HTG	21,647,846	8,953,257	3,498,435	865,659	55,395,233
	TOTAL - USD	\$503,438	\$208,215	\$81,359	\$20,132	\$1,288,261
	AVERAGE per BIA	\$31,465	\$13,013	\$7,396	\$1,258	\$80,516

* During the preparation of this report, up-to-date information for the AVIH BIA and accounts receivables data for all project-supported Kenscoff associations could not be obtained. All average calculations were based on a total of 16 associations; except for the accounts receivables average, which considered a total of 11 associations.

In June 2013, a team of experts was engaged by the project to conduct an assessment of the financial sustainability of partner BIAs. For the evaluation process, BIAs' financial

records of May 2013 were combined with scores received against the following criteria: physical infrastructure, dynamism of the managers, presence of a management committee, communication strategy, use of sound accounting principles and production of accounting reports, stock management strategy, customer satisfaction.

Table 2 below presents the results of the assessment and the classification of BIAs. As shown, a little over 50% of BIAs demonstrated potential of becoming fully sustainable without FtF West/WINNER support, whereas almost a third of them had moderate potential of attaining sustainability. At the time of the study, only three BIAs were facing challenges to become financially viable. FtF West/WINNER intends to conduct a follow-up assessment in November 2014 to monitor progress; the study will pay a special focus on capturing improvements made by least-performing BIAs.

Table 2. Ranking of sustainability potential of supported BIAs

BIAs	Sustainability Potential			
	Low	Medium	High	Total
Cul de Sac	2	5	5	12
Matheux	1	1	3	5
Total	3	6	8	17

2.2. Agricultural campaigns

For the past three years, FtF WEST/WINNER has been providing a comprehensive technical support package to farmers through semi-annual agricultural campaigns. The support provided by the project includes: access to inputs, mechanized soil preparation, extension services, farmer training, and the introduction of appropriate technologies and management practices.

2.2.1 Soil preparation and extension services

To modernize the Haitian agricultural sector, FtF West/WINNER promoted mechanized soil preparation during the agricultural campaigns. Last year, 13 tractors were purchased by FtF West/WINNER for the benefit of farmer associations and of the CRDDs. During the 2013 fiscal year, and additional 7 tractors were purchased and made available to local farmer associations in the project's target areas. As a result of this support, overall, 2,695 hectares of land were mechanically plowed in the Cul de Sac and Matheux corridors. Of the 20 tractors purchased by the project, 13 were used by the CRDDs for soil preparation services (9 in the Cul de Sac plain and 4 in the Matheux corridor), and the other seven (7) tractors were donated to farmer associations.

During FY 2013, FtF West/WINNER worked to strengthen the capacity of farmer associations and of CRDDs to manage the tractors. The project provided training to tractor operators on the proper use and maintenance of the tractors and on environmental compliance. The project also prepared a user's manual for tractor operators. The tractors provide an opportunity to generate funds for the CRDDs and the farmer associations. It is

clear that the demand for tractor services in the productive plains far exceeds the availability of tractors. As the cost of manual land preparation increases, farmers are eager to procure tractor services.

During the past year, FtF West/WINNER also monitored the use of tractors by farmer associations. The project conducted repeated field audits to ensure that associations followed the proper procedures related to tractor management, maintenance, environmental compliance, and financial transparency.

Extension services support to farmers

During FY 2013, a total of 73 REAs, 169 master farmers and 20 consultants were mobilized by the project to provide technical assistance to farmers belonging to 112 farmer associations in Kenscoff, the Cul de Sac plain and the Matheux corridor (8 were women-led associations), helping them to improve agricultural productivity through the application of prescribed technical itineraries. Table 3 below summarizes FtW West/WINNER achievements in technical assistance this year.

Table 3. Assistance provided to farmers through extension services (FY 2013)

Area	# REAs	# of master farmers	# of associations assisted
Matheux	28	62	31
Kenscoff	13	37	37
Cul de Sac Plain	32	70	44
TOTAL	73	169	112

2.2.2 Beans

During FY 2013, FtF West/WINNER supported two bean seasons: the winter 2012-2013 bean season and the spring/summer 2013 bean season. Overall, 5,247 farmers cultivating 3,258 hectares of beans were supported by the project. These farmers belonged to 129 farmer associations. The drought conditions that prevailed in the first few months of 2013 affected bean yields, which were somewhat lower than last year's. Table 4 summarizes the results of the bean campaigns supported by FtF West/WINNER.

Table 4. Summary of the FY 2013 bean campaigns supported by FtF West/WINNER

Corridor	# of hectares assisted	# of farmers assisted	# of farmer associations assisted
Cul-de-Sac hillsides	420	571	30
Cul-de-Sac plain	1,911	2,888	75
<i>Subtotal Cul de Sac</i>	2,331	3,459	105
Matheux hillsides	502	1,100	11
Matheux plains	425	688	13
<i>Subtotal Matheux</i>	927	1,788	13
Total	3,258	5,247	129

The average yields for beans in FY 2013 for farmers supported by FtF West/WINNER were slightly lower than the yields reported last year. This is due to the severe drought conditions experienced at the beginning of 2013 that negatively impacted production, as well as to the relatively low germination rates of local bean seeds available this year. However, gross margins increased for farmers due to higher market prices (\$1,392 in FY 13 compared to \$1,023 in FY 12). Table 5 provides a summary of yields and gross margins based on samples of farmers in target areas.

Table 5. FY 2013 yields and gross margins for beans in areas supported by FtF West/WINNER

Corridor	# of hectares in sample	Average yield (t/ha)	Gross margin/ha (\$)
Cul-de-Sac	603	1.14	\$1,388
Matheux	927	1.08	\$1,402
Total/Average	1,540	1.11	\$1,395

2.2.3 Corn

This year, the spring/summer corn campaign had to be extended due to the drought conditions that prevailed at the beginning of the year. Many corn farmers in the Cul-de-Sac plain chose to sell corn at the green stage (before full maturity) because prices were interesting in the market place. However, average corn yields for farmers assisted by FtF West/WINNER increased due to an increased used of high quality corn seeds.

Table 6. Summary of the FY 2013 corn campaigns supported by FtF West/WINNER

Corridor	# of hectares assisted	# of farmers assisted	# of farmer associations assisted
Cul-de-Sac plain	1,309	2,091	31
Matheux	70	59	2
Total	1,379	2,150	33

The average yields for corn in FY 2013 for farmers supported by FtF West/WINNER were 4.64 tons per hectare. This is a significant increase over last year's average yields of 3.54 tons per hectare. However, gross margins decreased because of a drop in prices compared to last year and also because many farmers sold their corn at the green stage. Table 7 provides a summary of yields and gross margins for corn based on samples of farmers in target areas.

Table 7. FY 2013 yields and gross margins for corn in areas supported by FtF West/WINNER

Corridor	# of hectares in sample	Average yield (t/ha)	Gross margin/ha (\$)
Cul de Sac	24	4.07	\$742
Matheux	19	8.64	\$910
	43	4.64	\$826

2.2.4 Rice

This year, there was a significant expansion of the area planted in rice in the Cul-de-Sac plain. Farmers in Thomazeau are expanding rice production with nearly 1,000 hectares planted in rice. While not all farmers are applying the full itinerary for SRI (system of rice intensification), there is evidence that many farmers are using some of the system's features. This has led to an increase in average yields to 5.26 tons per hectare (up from 5.03 tons per hectare in FY 2012).

Table 8. Summary of the FY 2013 rice campaigns supported by FtF West/WINNER

Corridor	# of hectares assisted	# of farmers assisted	# of farmer associations assisted
Cul-de-Sac plain	1,000	900	24
Matheux hillsides	262	297	8
Total	1,262	1,197	32

The average yield for rice in FY 2013 for farmers supported by FtF West/WINNER was 5.26 tons per hectare (up from 5.03 tons in FY 12). The gross margin per hectare for rice producers in areas supported by FtF West/WINNER increased to \$1,643 (from \$ 1,371 in FY 12). Table 9 provides a summary of yields and gross margins for rice based on samples of farmers in target areas.

Table 9. FY 2013 yields and gross margins for rice in areas supported by FtF West/WINNER

Corridor	# of hectares in sample	Average yield (t/ha)	Gross margin/ha (\$)
Cul de Sac	260	5.24	\$1,525
Matheux	45	5.39	\$2,325
	305	5.26	\$1,643

2.2.5 Plantain

This year, FtF West/WINNER supported the development of the plantain value chain in the Matheux corridor by introducing improved production techniques, as well as better post-harvest operations. Overall, nearly 900 farmers who were supported by the project started harvesting their plantain, as shown in Table 10 below.

Table 10 Summary of the FY 2013 plantain campaigns supported by FtF West/WINNER

Corridor	# of hectares assisted	# of farmers assisted	# of farmer associations assisted
Matheux	582	877	30

The average yield for plantain in FY 2013 for farmers supported by FtF West/WINNER was 20.31 tons per hectare. It is worth noting that the baseline previously reported (24 tons/ha) was erroneous. The actual baseline for plantain producers in the Matheux corridor, estimated in 2011, is 13 tons per hectare. The gross margin per hectare for plantain farmers in the Matheux is \$6,172, making plantain one of the most valuable crops in Haiti. Table 11 provides a summary of yields and gross margins for rice based on samples of farmers in target areas.

Table 11. FY 2013 yields and gross margins for plantain in areas supported by FtF West/WINNER

Corridor	# of hectares in sample	Average yield (t/ha)	Gross margin/ha (\$)
Matheux	582	20.31	\$6,172

2.3. Farmer trainings

One of the key components of FtF West/WINNER's strategy to increase agricultural productivity is the training of farmers on modern techniques of production and the sustainable management of agricultural resources. In FY 2013 fiscal year, FtF West/WINNER continued providing training to farmers and others.

Fourth quarter training results

The table below presents the training sessions conducted by FtF West/WINNER in the fourth quarter of FY 2013 (July – September 2013).

Table 12. Trainings conducted by FtF West/WINNER in the 4th quarter (July – September 2013)

Date	Training topic	Region	Male	Female	% Female	Total
July 2013	General agricultural principles	Matheux	28	9	24%	37
July 2013	Growing techniques for corn and beans	Matheux	28	12	30%	40
July 2013	General agricultural principles	Matheux	40	44	52%	84
July 2013	Implementation of mango orchards	Matheux	28	1	3%	29
July 2013	Implementation of mango orchards	Matheux	28	1	3%	29
August 2013	Plantain production	Matheux	32	37	54%	69
August 2013	Family planning	Matheux	42	38	47.5%	80
August 2013	Growing techniques for corn and beans	Matheux	23	13	37%	36
August 2013	Small farm management	Matheux	42	38	47.5%	80
September 2013	Sustainable environmental management	Matheux	46	40	46.5%	86
July 2013	Small farm management	Cul de Sac plain	23	14	38%	37
July 2013	Small farm management	Cul de Sac plain	33	15	31%	48

Date	Training topic	Region	Male	Female	% Female	Total
July 2013	Sustainable environmental management	Cul de Sac plain	17	9	35%	26
July 2013	General agricultural principles	Cul de Sac plain	26	7	21%	33
July 2013	Corn growing techniques	Cul de Sac plain	31	7	18%	38
August 2013	Sorghum growing techniques	Cul de Sac plain	40	9	18%	49
August 2013	Sorghum growing techniques	Cul de Sac plain	20	8	29%	28
August 2013	Cabbage growing techniques	Cul de Sac plain	27	17	39%	44
August 2013	Sustainable environmental management	Cul de Sac plain	35	7	17%	42
August 2013	Sustainable environmental management	Cul de Sac plain	30	15	33%	45
August 2013	Corn growing techniques	Cul de Sac plain	21	7	25%	28
August 2013	Family planning and nutrition	Cul de Sac plain	24	17	41%	41
August 2013	Family planning and nutrition	Cul de Sac plain	33	12	26%	45
August 2013	Implementation of nurseries and agro-forestry techniques	Cul de Sac plain	31	15	33%	46
September 2013	Beans growing techniques	Cul de Sac plain	58	20	30%	78
September 2013	General agricultural principles	Cul de Sac plain	25	13	49%	38
September 2013	Small farm management	Cul de Sac plain	41	10	20%	51
September 2013	Small farm management	Cul de Sac plain	34	17	33%	51
September 2013	Sustainable environmental management	Cul de Sac plain	37	19	34%	56
September 2013	Sustainable environmental management	Cul de Sac plain	29	11	27.5%	40
September 2013	Corn growing techniques	Cul de Sac plain	29	22	43%	51
September 2013	Family planning and nutrition	Cul de Sac plain	7	40	15%	47
September 2013	Pest control	Cul de Sac plain	55	17	24%	72
September 2013	Soil conservation techniques	Cul de Sac plain	30	15	33%	45
July 2013	Family planning and nutrition	Kenscoff	31	19	38%	50
July 2013	Family planning and nutrition	Kenscoff	18	12	40%	30
July 2013	General agricultural principles	Kenscoff	50	30	37.5%	80
August 2013	Small farm management	Kenscoff	25	16	39%	41
August 2013	Sustainable environmental management	Kenscoff	53	30	36%	83
September 2013	Vegetable production techniques	Kenscoff	54	26	32.5%	80
September 2013	Flower production techniques	Kenscoff	6	3	33%	9
September 2013	Protected and vertical agriculture and greenhouse construction	Kenscoff	55	26	32%	81

Date	Training topic	Region	Male	Female	% Female	Total
Total attendees			1,365	738	35%	2,103
Total Individuals trained (*)			410	193	32%	603

(*) The total individuals trained account for the overlap for Master Farmer candidates that take six courses in order to graduate. Thus, this reflects the number of unique individuals that received FtF West training this quarter.

Certification of Master Farmers

Overall, 300 master farmers were certified in the fourth quarter of FY 2013. Of these, 90 were in the Cul-de-Sac plain, 89 were in the Matheux, 86 were in Kenscoff, and 35 were in Gonaïves. The table below summarizes the Master Farmer certification from July to September 2013.

Table 13. Master farmers certified this quarter (July - September 2013)

Date	Region	Male	Female	Total
June 24 20143	Gonaïves	27	8	35
June 26 2013	Matheux	47	42	89
June 27 2013	Kenscoff	52	34	86
June 28 2013	Cul-de-Sac plain	65	25	90
Total		191	109	300

It is noteworthy that the percentage of women certified this quarter has increased to 36%.

Overall training results for the year

During the FY 2013, a total of 157 training sessions were organized by the project in three areas of intervention with a recorded of 4763 attendants overall (45% women). Accounting for the overlap due to individuals attending multiple training sessions, the total number of individuals trained by FtF West/WINNER in FY 2013 was 2,299 (including 718 women (31.2%). At the end of FY 2013, 991 Master Farmers were certified, including 417 women (42%). Table 14 details the number of sessions per module and the number of participants per training module in FtF West/WINNER target areas. Table 15 presents the number of graduating master farmers for the 2013 fiscal year.

Table 14. Master farmer trainings, attendance per module, per region (2013)

Module	# of sessions held	Male	Female	% (fem)	Total
<i>- Matheux -</i>					
General Agricultural Principles	6	206	108	52%	314
Small Farm Management	7	229	105	45%	334
Sustainable Environmental Management	4	158	85	53%	243

Family Planning and Nutrition	5	218	96	44%	314
Installation of Mango Orchards	2	56	2	3%	58
Protected Agriculture under Greenhouse	1	34	8	23%	42
Techniques for the Cultivation of Corn and Beans	2	51	25	49%	76
Management and use of pesticides	1	40	8	2%	48
Construction and Management of Greenhouses	4	112	1	0.8%	113
Women Capacity Building	1	0	43	100%	43
Pest Management for Mangoes	2	61	4	6%	65
Plantain Cultivation	4	123	75	60%	198
Regulation for BIAs Federation	1	9	4	44%	13
Sub-total	40	1297	564	43%	1861
<i>- Cul de Sac -</i>					
Small Farm Management	12	371	153	41%	524
Sustainable Environmental Management	12	335	131	39%	466
Agroforestry and Nurseries	2	65	27	41%	92
Administrative and Financial Management	1	8	5	62%	13
Cultivation Techniques for Corn	10	202	93	46%	295
Techniques for the Cultivation of Cabbage	1	27	1	3%	28
Family Planning and Nutrition	11	370	133	35%	503
Pest Control	5	142	129	90%	271
Cultivation Techniques for Sorghum	9	248	105	42%	353
Soil Conservation Techniques	2	60	24	40%	84
General Agricultural Principles	8	254	99	38%	353
Installation of Mango Orchards	1	31	11	35%	42
Maintenance and Management of Tractors	2	22	15	68%	37
Irrigation	1	13	4	30%	17
Use of Pesticides	1	25	5	20%	30
Hygiene and Sanitation	2	69	33	47%	102
Techniques for the Cultivation of Beans	3	130	41	31%	171
Pest Management for Mangoes	1	41	12	29%	53
Integrated Pest Management	1	24	11	45%	35
Techniques for the Plantation of Vetiver	1	31	10	32%	41
Sub-total	86	2468	1042	42%	3510
<i>- Kenskoff -</i>					
General Agricultural Principles	3	122	86	70%	208
Cultivation under Greenhouse	2	22	20	90%	42
Floriculture	2	25	19	76%	44
Small Farm Management	5	146	87	59%	233
Hygiene and Conditioning of Fruits and Vegetables	1	16	8	50%	24
Family Planning and Nutrition	5	140	62	44%	202
Sustainable Environmental Management	3	149	123	82%	272
Agroforestry and Nurseries	1	23	14	60%	37
Post-harvest technologies	1	13	7	53%	20
Greenhouse Construction	2	88	26	29%	114
Vegetable Cultivation	3	113	59	52%	172
Pest Control	3	86	55	63%	141
Sub-total	31	943	566	60%	1509
<i>- Gonaives -</i>					
Environmental Management	1	13	3	23%	16
Family Planning and Nutrition	1	15	3	20%	18
Techniques for the Cultivation of Corn and Beans	1	27	12	44%	39
Sub-total	3	55	18	32%	73
Total Attendees	157	4,763	2190	45%	6953
Total Individuals trained	157	1,581	718	31.2%	2,299

(*) The total individuals trained account for the overlap for Master Farmer candidates that take six courses in order to graduate. Thus, this reflects the number of unique individuals that received FtF West training this year.

Table 15. Certified Masters Farmers (FY 2013)

Region	Q1			Q2			Q3			Q4			Year		
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T
Cul-de-Sac plain	15	32	47	46	108	154	50	113	163	25	65	90	136	318	454
Kenscoff	n/a	n/a	n/a	24	38	62	21	31	52	34	52	86	79	121	200
Matheux	6	58	64	17	35	52	16	42	58	42	47	89	81	182	263
Gonaïves	n/a	n/a	n/a	n/a	n/a	n/a	13	26	39	8	27	35	21	53	74
Total	21	90	111	87	181	268	100	212	312	109	191	300	317	674	991

To date, the FtF West/WINNER project has certified 2,547 Master Farmers, including 730 women (28.6%). The table below shows the master farmers certified by region and gender since the beginning of the project.

Table 16. Master Farmers certified by FtF West/WINNER (life of project)

Region	FY 2010			FY 2011			FY 2012			FY 2013			Total		
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T
Cul-de-Sac plain	14	37	51	49	118	167	41	128	169	136	318	454	240	601	841
Kenscoff	3	6	9	49	86	135	83	127	210	79	121	200	214	340	554
Matheux	0	0	0	16	95	111	53	202	255	81	182	263	150	479	629
Gonaïves	0	0	0	14	96	110	20	118	138	21	53	74	55	267	322
Mirebalais	0	0	0	38	77	115	33	53	86	0	0	0	71	130	201
Total	17	43	60	166	472	638	230	628	858	317	674	991	730	1,817	2,547

2.4. Sustainable Rural Development Centers (CRDDs) and Technological Innovation

During the 2012-2013 fiscal year, FtF West/WINNER continued to support and directly implement a number of activities aimed at increasing access to improved agricultural practices across its target areas.

The installation of demonstration plots is a key component of FtF West/WINNER goal of increasing access to improved agricultural technologies. In order to fulfill this aim, a total of 216 experiments of this type were implemented during the year for the project's primary crops (beans, corn, rice and plantains) in the Cul-de-Sac and Matheux corridors, thereby allowing farmers to benefit from improved planting techniques. The total surface area allocated for the planting of correct technical itineraries was 163.11 hectares in total. Table 17 summarizes FtF West/WINNER demonstration plot activities in the target corridors.

Table 17. Demonstration Plots set for FtF West/WINNER primary crops (FY 2013)

Crop	Cul-de-Sac		Matheux	
	# of plots	# of hectares	# of plots	# of hectares
Beans	47	7.13	71	20.41
Corn	43	8.46	19	4.8
Rice	35	4.42	34	8.95
Plantain	n/a	n/a	20	17.7
Total	125	20.01	91	38.11

Bas Boen CRDD activities

During FY 2013, the Bas Boen CRDD was very active in setting up field trials for target crops (beans and corn), as well as for other crops grown in the Cul-de-Sac plain. The details of these trials are provided in an Annex.

During the second quarter of the 2012-2013 fiscal year, FtF WINNER signed an agreement IICA to disseminate the use of the DPC-40 bean variety, which is a new black bean variety with a higher yield potential than local varieties. Previous trials generated yields of 1.2 to 1.4 MT per hectare with DPV-40 compared with yields from 1.01 to 1.21 MT per hectare with the local black bean variety.

Assistance and training in new technologies was provided by project-supported experts from the University of Florida to farmers in target corridors in the area of pivot irrigation, greenhouse building and management, farm management, agronomy, soil fertility, vertical production of high value crop, and agronomy.

2.4.1 Guided visits to the Bas Boen CRDD

Throughout FY 2013, the Bas Boen CRDD received a total of 1145 visitors, 749 visits were paid to the CRDD laboratory. The total revenue generated by the CRDD through the provision of trainings, and soil and water analysis activities during this period was HTG 591,700.00 (approximately USD 14,792.00).

Table 18. Visits to the Bas Boen CRDD per quarter (FY 2013)

Q	Visits to CRDD	Visits to the laboratory
Q1	49	60
Q2	285	150
Q3	602	318
Q4	209	221
Total	1145	749

2.4.2 Bas Boen CRDD laboratory activities

Soil diagnostics

Throughout the year, the Bas Boen CRDD laboratory performed several soil testing, water quality testing, and plant diagnostics activities. A total of 693 soil samples were analyzed. The majority of the samples were from demonstration plots set up by the FtF WINNER project in the Cul-de-Sac plain and the Matheux corridor (see Table 22 below). There were also samples from private farms from across the country, as well as samples related to agronomic research and international, non-governmental organizations, such as Oxfam. Tests were conducted on physical elements: pH, conductivity, Total Dissolved Solids; and on chemical elements: Nitrogen (N), Phosphorous (P), Potassium (K), Sulfate, Calcium, Magnesium, Chlorium, Iron, Aluminium, Magnesium, and organic matter. The table below summarizes the soil analyses undertaken by the Bas Boen laboratory during the 2013 fiscal year.

Table 19. Summary of soil testing activities undertaken by the Bas Boen CRDD laboratory (FY 2013)

Q	Demonstration Plots Cul de Sac	Demonstration Plots Matheux	Research activities	Private Properties	Other Projects	Total
Q1	90	20	21	28	1	160
Q2	63	6	5	26	2	102
Q3	73	42	40	20	156	301
Q4	38	2	10	16	64	130
Total	264	70	76	90	223	693

Water quality and plant diagnostics

The Bas Boen laboratory conducted a series of water tests, which included pH, conductivity, total dissolved solids, roughness, levels of ammonium, nitrate, nitrites, nitrates, coliform, and E. Coli. During the third quarter, 5 samples from the fish-ponds and forages were tested for the CRDD farm on a weekly basis. Additionally plant samples were also analyzed throughout the year for the purposes of identifying causes leading to plant sagging, viral diseases and nutrient problems.

2.4.3 Trainings

The table below presents the training sessions organized by the Bas Boen CRDD during the FY 2013. A total of 220 individuals benefitted from these trainings, including representatives of non-governmental organizations, local farmer associations and university students, among others.

Table 20. Trainings held at the Bas Boen CRDD (FY 2013)

Beneficiary Profile	# of attendees	Topic	Institution
Extension agents (REA)	63	Soil fertility management	FtF West/WINNER project
Agronomy students	72	Soil chemistry	Collège Universitaire Caraïbes

Extension agents (PV)	38	Soil fertility management	FtF West/WINNER project
Members of associations involved in food processing	37	Hygiene and microbiology in food processing	Associations of the Cul de Sac plain
Agriculture technicians of RACPABA in the Artibonite	10	Soil fertility management/ Sampling and analysis techniques	Oxfam Intermon

2.4.4 Transfer of management at the CRDDs

During the previous fiscal year, FtF West/WINNER established management committees for both the Kenscoff and Duvier CRDDs. During the 2012-2013 fiscal year it continued to promote meetings with key stakeholders to discuss the transition of management to identified associations. Sustainability concerns are particularly critical at this point, given that the project approaches its final cycle next year.

2.4.5 Montrouis CRDD

The construction of the Montrouis CRDD was launched on June 25th 2013. In FY 2013, FtF West/WINNER completed the design of the facility, launched the bid for the construction of the facility, and awarded the construction contract. In the fourth quarter of FY 13, the construction firm ECSA began work on the foundations for the Montrouis CRDD. The facility is on 5 hectares of land donated by the Fondation Délugé, it will be managed by an entity that includes representatives from local farmer associations, the Ministry of Agriculture, the Commune of St Marc, and the Fondation Délugé. The Montrouis CRDD will focus on the plantain value chain, which is the most important agricultural product in the region.

2.4.6 Technical support from the University of Florida

During the period, the University of Florida provided assistance in a number of themes to improve production, productivity, post-harvest and farm management as well as biodiversity conservation (Table 1). Assistance was provided to PPP in mountain production, post-harvest and irrigation. Two study tours were organized for WINNER partners, Belmart and Ticadaie. A packing shed for fresh produce was built and equipped. Synergy was created with other UF programs to transfer biodiversity education materials, evaluate potential in managing biodiversity in the corridor and to initiate the transition period in anticipation to the end of the WINNER project. The following results are as follows

- Implementation of a new greenhouse generation (metal frame, heavy duty, easier to build)
- Introduction of new species (Alstomeria, Alpinia, Gerbera and torch ginger) and varieties (gladiolus, baby's breath)
- Improving cutflower germplasm bank at Kenscoff CRDD and assisting value chain consultant in field work
- Building of the first rural packing house for a communal association (ODAIL); capacity two tons of fresh produce a day

- Inventory of long, medium and short term biodiversity conservation activities and synergy building
- Distribution of education materials (Posters, books and coloring books) to various environmental institutions and libraries
- Improving irrigation system for Kenscoff flower producer association
- Trials on potato cuttings, indeterminate tomatoes, yield, cultural practices, seasonal and fertilization response and trellis, weed control and plastic mulch, nursery techniques
- Training technicians and associations at flower production, germplasm management, farm management, post-harvest, gravity irrigation, building farm infrastructures, composting and other cultural practices
- Restitution of results for sugar cane multiplication plot (yield, brix and fiber)
- Assisting the private sector in nursery, secondary growth forest, flower and ornamental production management plans; organizing study tours for strawberry production, post-harvest, packing house and food safety issues, solving water conflicts and irrigation
- Seven of the eight scholarship grantees successfully graduated
- Building bridges for after WINNER (assisting Kenscoff regional office at hiring capable individuals for Kenscoff CRDD; connecting Bas-Boen and Kenscoff CRDDs to UF Institute of Food and Agricultural Sciences deans, two presentations on UF Research and Education Centers to MARNDR and stakeholders; Presentation of UF WINNER technical assistance to Senator Nelson)

Table 21. Summary of the various technical assistance themes provided by UF experts in FY 2013

UF expert	Technical assistance themes
Stewart Swanson	Farm management, agronomy, trials, post-harvest and packing house building; on the job training in building agricultural structures
Brian Boman	Water catchment; water conflict resolution, assistance to irrigation (pivot, drip and gravity), training in basics of flood irrigation; assistance to ordering biological engineering and agricultural materials for CRDD and private partners; production plan to large land owners; building greenhouses and training technicians and workers
Nigel Smith	Small scale biodiversity and natural resource management
Kelly Morgan	Coffee and sugar cane multiplication plot; restitution for sugar cane results (cultivation, irrigation, inputs, yield, sugar cane characteristics).
Richard Fethiere	Cut flower production; improving germplasm; training association members; assisting value chain expert
Walter Bowen	Synergy between UF, WINNER, USDA and the Ministry of Agriculture of Haiti and Brazil agricultural institutions.
Florence Sergile	Coordination; assistance to on-the-job training and signs for demonstration plots; education materials repatriation; transition period planning

Synergy with UF research , CRDD, Ministry of Agriculture and WINNER

In January, the Director of International programs headed a tour for IFAS Dean for Research & Director of the Florida Agricultural Experiment Station Director, John Hayes and Deans for the College of Agriculture and Life Sciences to initiate dialogue and initiatives during the transition period. Assisting the WINNER CRDDs offers great collaboration opportunities between UF Research and Education Centers (REC), Haitian Universities and Ministry of Agriculture Natural Resources and Rural Development of Haiti (MARNDR).

Walter Bowen created a synergy between USDA, Winner, UF, Brazil Ministry of Agriculture and MARNDR through the Trilateral Project financed by USAID. Several tours were organized in Haiti, Florida and Brazil to assist MARNDR officials at taping into modern agriculture. Its various delegations visited Bas-Boen CRDD, a number of UF RECs, private agribusiness and farms, and USDA offices in Miami to appreciate the role UF plays at serving agriculture in Florida. WINNER students and their advisors were introduced to the delegation and presented posters of their research.

2.4.7 University scholarship program

This year, FtF West/WINNER launched the second round of its scholarship program in Haiti to support agricultural university students, by collaborating with local universities to provide financial support to students completing their research thesis. MOUs were signed with the agronomy faculties of four Haitian universities (Quisqueya, UNEPH, UNDH et FAMV/UEH) to provide scholarships to finance 25 students who are undertaking research projects in fields relating to improved agriculture technologies. In addition, FtF West/WINNER also continued to support 6 Haitian students, who were granted scholarships in 2010 for a master's degree program at the University of Florida in Gainesville in areas related to agriculture, agribusiness, environment, etc. These students completed their research projects by May 2013 and graduated on May 5th 2013. The graduation ceremony was attended by US Ambassador to Haiti Pamela White. All eight students are back in Haiti and are contributing to the modernization of Haitian agriculture.

Additionally, FtF West/WINNER financed internships for 39 students in FtF West/WINNER areas of interventions to provide support to REAs during the months of August and September 2013.

2.5. Irrigation

In FY 2013, FtF West/WINNER continued to focus on expanding the availability of irrigation water to farmers in the Cul-de-Sac and Matheux productive plains. In addition

to farmers receiving FtF West/WINNER technical assistance for applying the proper technical itineraries for target crops in the Cul-de-Sac plain (corn, beans and rice), there are also farmers who benefitted from irrigation water made available due to the rehabilitation of irrigation networks performed by the project. During the 2012-2013 fiscal year, FtF West/WINNER continued to make significant improvements to irrigation systems in target corridors. In particular, a significant portion of the irrigation systems of the Rivière Blanche was rehabilitated, paving the way for 4,400 hectares of land that had been lying fallow to be irrigated and back into productive use. The project also completed the design of a diversion dam on the Rivière Grise, completed the rehabilitation of the Bas Boen thermal plant and rehabilitated 9 irrigation pumps in the Cul-de-Sac plain.

2.5.1 Cul-de-Sac Plain

For the Cul-de-Sac corridors the project's intervention in irrigation systems included: the design and bids for the Rivière Grise diversion structure; rehabilitation of irrigation systems in the Rivière Grise perimeter, rehabilitation of irrigation systems in the Rivière Blanche perimeter, rehabilitation of pumps for the aquifer system, and emergency interventions after the passage of hurricane Sandy in October 2012.

Rivière Grise diversion structure

Since its start in 2009, FtF West/WINNER has facilitated the access of 4,500 hectares to irrigation water with the partial rehabilitation of the then poorly functioning Rivière Grise irrigation system. This in turn allowed more than 6,000 farmers to increase their agricultural productivity, household incomes and food security. Irrigation water remains one of the most important factors for increased agricultural production. In order to provide a sustainable and long-term solution for irrigation in the Cul de Sac, the FtF West/WINNER team has been working with its subcontractor CH2M Hill, the GOH, local partners and USAID officers to develop a structurally sound permanent river water diversion structure, as opposed to the current temporary dirt dike that must be dismantled and rebuilt before and after each heavy rain. The proposed diversion structure represents one of the most important, even transformational, and long-lasting investments of USAID/Haiti FtF West/WINNER to support the GOH "Programme de Relance Agricole" in the Cul de Sac area. The completed structure will expand the Rivière Grise irrigation perimeter to more than 8,000 hectares, and will protect hundreds of hectares of agricultural lands against flood risks, through controlled water flow in the irrigation canals. The expanded irrigation perimeter will benefit 10,000 farmers, who, as a result, will be able to grow at least two (2) crops a year, generating a net income of \$2,500 per hectare, representing about US\$20 million annual earnings in the target growth corridor of Cul de Sac.

In FY 2013, FtF West/WINNER completed the design of the rivière Grise diversion structure. The design was completed by engineers from CH2MHill. The project launched the bids in early 2013 and organized a bidders' conference in February 2013. The bids were received in March 2013 and a contractor was selected in May 2013. The contract

was submitted to USAID for approval and we are awaiting the final approval to begin the work on the diversion structure.

Irrigation system rehabilitation

In FY 2013, FtF WINNER continued to rehabilitate irrigation systems in the Cul-de-Sac plain. As shown in the table below, 65 kilometers of canals were rehabilitated and 9 pumps were rehabilitated, resulting in 13,970 hectares of irrigated land. Additionally, these projects have created a total of 18,819 men/days of work for the local community. With this land put back into productive use, approximately 6,352 new farmers now benefit from access to water and are now able to plant a variety of crops in addition to the FtF WINNER main supported crops (corn, beans, rice and plantain), such as: sorghum, leeks, tomato, onion, beets, plantain, yucca, potato, and peas.

Table 22. Summary of irrigation rehabilitation work in the Cul-de-Sac plain (FY 2013)

Perimeter	Nature of intervention	Length (Km)	Irrigated area (hectares)	# of beneficiaries	# of jobs created (person/day)	Total project value (USD)
Rivière Blanche	rehabilitation, cleaning and managing the intake	4	4,300	1,955	1,075	258,043
Rivière Grise	rehabilitation, cleaning and managing the intake	40	6,500	2,955	12,540	595,248
Source Zabeth	cleaning	21	2,000	910	4,620	76,140
9 pumps	rehabilitation	n/a	1,170	532	1,584	996,615
		65	13,970	6,352	18,819	1,926,046

Of the nearly 14,000 hectares of land in the Cul-de-Sac plain irrigated thanks to the interventions of the FtF/WINNER project, there were 5,624 hectares in which farmers did not receive project support for agricultural campaigns. However, these farmers benefitted from the availability of irrigation water, as well as from the revenues generated by crops grown in the Cul-de-Sac plain due to the irrigation rehabilitation performed by FtF WINNER. The revenues generated by crops¹ grown during the dry season as a result of irrigation rehabilitation represent \$9,547,715.

Table 23. Summary of the number of hectares outside of FtF West/WINNER agricultural campaigns benefitting from irrigation rehabilitation by FtF West/WINNER

Crop	Rivière Grise	Rivière Blanche	Despuzeau	Pumps	Total
Beans	170	400	100	80	750

¹ These include mainly beans, okra, spinach, sugar cane, sorghum, rice, among other crops.

Okra	385	150	150	120	805
Carrots	220				220
Spinach	256			180	436
Sugar cane	575	300	300		1,175
Sorghum		300	300		600
Rice		278	200		478
Beets				100	100
Other	480	300	250	30	1,060
Fallow	532	200	100	20	852
Total	2,618	1,928	1,400	530	6,476

Table 24. Summary of revenues generated by key crops grown during the winter dry season thanks to irrigation rehabilitation by FtF West/WINNER

Crop	Number of hectares	Yield (tons/ha)	Production (tons)	Average Price (HTG / ton)	Total revenue (HTG)	Total Revenue (\$)
Beans	750	0.7	525	118,800	62,370,000	\$1,485,000
Okra	805	.	2,415	44,000	106,260,000	\$2,530,000
Carrots	220	4.5	990	55,000	54,450,000	\$1,296,429
Spinash	436	0.6	262	40,260	10,352,016	\$ 250,762
Sugar cane	1175	35	41,125	937.2	38,542,350	\$ 917,675
Sorghum	600	0.7	420	27,600	11,592,000	\$ 276,000
Rice	478	2.3	1,099	53,900	59,257,660	\$1,410,897
Other	1,160	1	1,160	50,000	58,000,000	\$1,380,952
TOTAL	5,624				401,004,026	\$9,547,715

Rehabilitation of the Bas Boen thermal power plant and of nine irrigation pumps

The Bas Boen thermal power plant will provide alternative power to 19 pumping stations that irrigate 2000 hectares (each pump has the capacity to irrigate between 100 and 150 hectares). For the first year of operations, by the company that implemented the rehabilitation and it will then be handed over to the MARNDR. In the meantime, WINNER worked with EDH, the MARNDR and water-user associations to ensure the investment's profitability and sustainability. Additionally, FtF WINNER rehabilitated 9 pumping stations in the Cul-de-Sac plain in the localities of La Tremblay 3, La Tremblay 5, Drouillard Bel Bel, Drouillard Dumilseau, Ti Jardin, Bas Boen, Haut Boën, Bas Goman and Lamaredelle was started this quarter. These works include electrical and electromechanical engineering to repair the pumps, the manufacturing and installation of irrigation gates, the construction of fences around the pumping stations, and the rehabilitation and curing of irrigation canals.

Post-emergency interventions in the Cul-de-Sac plain

During the third quarter of the 2013 fiscal year, FtF West/WINNER had to intervene on an ad hoc basis to mitigate the effects of flooding due to natural events in the Cul-de-Sac plain, in order to allow the flow of water in the irrigated perimeters and limit damage to crops. The works consisted mainly of the use of mechanical equipment to perform the removal of debris, clean the canal and rebuild diversion structures affected by heavy rains due to the passage of the Sandy tropical storm. These emergency rehabilitation works enabled the irrigation of about 5,000 hectares of land in the Rivière Grise and Rivière Blanche perimeters at critical times for the beans and corn campaigns. It is estimated that 20,000 people benefitted from the emergency works conducted on the Rivière Blanche irrigated perimeter.

2.5.2 Matheux Corridor

During FY 2013, FtF West/ WINNER worked on the rehabilitation and protection of the Bretelle and Torcelle irrigation systems. In Torcelle, the work consisted of the construction of 5,944 m³ of gabions to protect the irrigation system and the agricultural lands, the construction of a water intake structure to feed the irrigation system, and the construction of 220 meters of canals in masonry at the intake. These enabled the irrigation of 1,100 hectares of agricultural land and generated local employment in the area at the level of 400 man/days of work.

FtF WINNER also conducted the rehabilitation of the Bretelle irrigation system. Works included the construction of 3,500 m³ of gabions to protect agricultural lands from flooding, the construction of a water intake, the construction of 600 meters of primary canal in masonry near the locality of Sabourin, the raising of the intake canal by 45 meters, the construction of 4 irrigation gates near the intake, as well as the construction of an overpass over the Sabourin canal. This project enabled the irrigation of 1,300 hectares of agricultural land also created local employment in the area at the level of 250 man/days of work.

The FtF WINNER package of interventions in the Matheux corridor has enabled the irrigation of 3,565 hectares of agricultural land and has reached 1,621 new farmers.

Table 25. Summary of irrigation rehabilitation work in Matheux (FY 2013)

Perimeter	Nature of intervention	Length (Km)	Irrigated area (hectares)	# of beneficiaries	# of jobs cre (person/day)	Total project value (USD)
Torcèlle	construction and cleaning	1,5	1,100	500	26,400	913,612
Bretèlle	rehabilitation, construction and cleaning	1,25	1,300	591	15,400	611,663
Courjolles	construction	0,14	120	55	396	56,090
6 Sisterns	Cleaning	48	1,045	475	21,780	203,501
TOTAL		48	3,565	1,621	63,976	1,784,866

SECTION III. WATERSHED STABILITY IMPROVED

This section presents the FtF West/WINNER activities in the Cul-de-Sac and Matheux corridors linked to Intermediate Result 2 (Improved watershed stability). FtF West/WINNER developed an approach to watershed sustainability that focuses on environmental governance at the community, local and national levels. This approach aims to build synergies between biodiversity, global climate change (GCC), Natural Resource Management (NRM), and the initiatives implemented by the project.

3.1. Soil conservation and ravine treatment

During the 2013 fiscal, FtF West/WINNER implemented a total of 13 soil conservation and ravine treatment projects in the area of Petionville. Overall, these projects resulted in the treatment of 33,6 kilometers of ravines through the installation of 19,558 cubic meters of dry walls gabions; and the stabilization of 116.6 hectares of hillsides through the plantation of 1,784,850 trees, out of which, 1,651,250 seedlings of Vetiver. Additionally, staff gages were installed in five critical ravines to measure water flow and ensure continued monitoring. The impact of these projects has been very positive on both the management of the sub-watersheds around the ravines and the protection of agricultural infrastructures in the productive plains downstream from the ravines. Taking into account length, width and height, it is estimated that the dry walls and gabions installed have allowed the trapping of 43,798 cubic meters of sediments. In the absence of these systems, a large portion of sediments would have threatened the productive plains and rivers downstream of the ravines. Furthermore, the trees and vetiver seedlings planted on hillsides and the gabions installed in the middle of ravines have contributed to increase the infiltration of water in the soil, resulting in new water springs. Table 26 summarizes the main achievements of the FtF West/WINNER project in soil conservation and ravine treatment activities for the 2013 fiscal year.

Table 26. Summary of Soil Conservation Activities (FY 2013)

#	Project Name	M3 of sediments trapped	# trees planted	# vetiver seedlings planted	# of people trained	m3 of gabions installed	length of treated ravine (m)
1	Millet I	2,320	5,000	6,000	32	2,100	2,900
2	Millet II	4,500	2,300	30,000	30	2,300	2,000
3	Duval I	4,800	15,000	120,000	34	1,950	4,000
4	Duval II	4,500	15,000	120,000	28	1,800	3,000
5	Duval III	2,000	25,000	125,000	35	1,600	2,500
6	Duvier I	1,560	20,000	1,000,000	33	1,260	2,600
7	Duvier II	3,360	15,000	100,000	32	1,700	2,800
8	Duvier III	3,500	15,000	80,000	30	2,000	2,500
9	Figaro I	4,320	4,000	35,250	29	1,708	2,700
10	Figaro II	4,800	500	1,000	37	780	4,000
11	Matha	5,130	7,000	12,000	32	840	1,900
12	Singarou	1,400	2,800	10,000	30	800	1,400
13	Mathieu	1,608	7,000	12,000	34	720	1,340
TOTAL		43,798	133,600	1,651,250	416	19,558	33,640

3.2. Sustainable hillside agriculture

3.2.1 Support for the establishment of greenhouses

This year, FtF West/ WINNER continued to provide support to farmer associations for the installation of greenhouses in hillside areas. During the 2013 fiscal year, the project built 263 greenhouses in the Kenscoff and Matheux (10 were still reaching completion by mid-October 2013), which have benefitted a total of 36 farmer associations in the target areas. FtF West/WINNER, in partnership with University of Florida, continued to set up low-cost, green houses with drip irrigation in Kenscoff. This technique of protected and vertical agriculture can generate more money per year on 70 m² than a farmer usually makes on one hectare with traditional practices. This innovative technology will free up spaces on hillsides for soil conservation and agro-forestry activities. The table below summarizes the results of FtF West/WINNER greenhouse construction program this year.

Table 27. Summary of greenhouse installation program (FY 2013)

Location	# of greenhouses under construction	# of greenhouses completed	# of greenhouses with vertical agriculture and drip irrigation	# of greenhouses producing crops	# of greenhouses with phyto-sanitary controls	# of benefitting farmer associations
Kenscoff	146	136	130	79	79	22
Matheux	127	127	121	27	27	14
Total	273	263	251	106	106	36

In addition to greenhouse installation, the project also provided training to farmers on the building of greenhouses and some associations (e.g. APFCK, SOHARDEK) are now capable of building their own structures and sell this expertise to others, thereby generating additional revenues and ensuring the local dissemination of this type of technology.

In December 2012, FtF West/WINNER organized a workshop on the financing of greenhouses and invited financial institutions to hear about business opportunities offered by this product. Following the workshop, several institutions have expressed interest in developing financial services that incentivize farmers to build greenhouses.

Lastly, experts from the University of Florida were engaged to provide technical assistance to identify new models of greenhouses that could be better suitable for Haitian small farmers at a lower cost. Pilot models were implemented to test the different prototypes, including: the toprail tunnel, a versatile, mobile and cheaper model, which is easier to build and more permanent than the “PVC” greenhouse promoted two years ago, it can serve as a dryer or be moved to serve two different crops at different time; the bamboo greenhouse, built with local materials, which is more time consuming at the construction phase and also requires that more bamboo is planted before disseminating this technology; and the prefab greenhouse, made of clear plastic and aluminum, which was erected to help partners in the private sector sell greenhouse kits with instructions for laypersons.

3.2.2 Hillside CRDDs

Cul de Sac

Under the strategic axis of promoting access to technological innovation, FtF West/WINNER continued to support the operations of sustainable rural development centers (CRDDs) in the target hillsides of Kenscoff, and Duvier (near Petionville). A range of experiments were conducted at these facilities to identify the most efficient methods for agricultural production on hillside areas. The table below summarizes the field trials conducted at the different CRDDs (Kenscoff and Duvier) throughout the year with different crops.

Table 28. Main field trials conducted at the hillside CRDDs* (FY 2013)

Crop	Nature of Field Trial
<i>- Kenscoff -</i>	
Cabbage	Comparison of three cabbage varieties in offseason (Golden Acre, KK, Cross and Resist Crown); comparison trial of traditional method of growing cabbage versus 5 types of technical itineraries using different types of soil fertilization techniques and with and without plastic covers; trials with cultivation vs without cultivation compost; trials of with the « KKCROSS » variety were conducted at the Bas Boen farm this quarter using drip irrigation.
Broccoli	Production trial offseason
Onion	Experimental plot, production trial of <i>allium fistulosum</i> onion variety on 25.4 m ² using a 10 cm plantation distance.
Green Peppers	Field production trial
Leeks	Comparison of two cultivation techniques
Potato	Experimental plot for the Condor variety; comparison trial between Condor and Idiap varieties
Tomatoes	Experimental plot for tomatoes with the use of Tipi bamboo; production trials with two varieties (Small Round and Florida 47 R) under greenhouse.
Beets	Experimental plot for beets
Lettuce	Comparison of two varieties (GRTLK 659 and GRTLK 618); comparison of lettuce grown with and without plastic cover
Green Beans	Comparison of three technical itineraries for green beans using three types of trellises
Carnations	Trials of open air vs. greenhouse growth; production trials in open field
Stalice	Production trials in open field
Gerberas	Production trials
Strawberries	Trials with strawberries grown in vertical agriculture
Swiss chard	Open field vs. under greenhouse
<i>- Duvier -</i>	
Pomegranate	Installation of tunnel to production trial
Onion	Productions trials with the cultivation of the <i>granex</i> variety
Onions	Test with <i>granex</i> variety; tests with greenhouse production
Peppers	Comparison between local variety and <i>California wonder</i> , tests with greenhouse production

* Extensive trials conducted with FtF West/WINNER primary crops (beans, corn, plantain and rice) are not included

In addition to field experiments, at Duvier, a tunnel was installed to experiment with the production of pomegranate and nurseries were set up for the production of the *Floredale* tomato variety, two varieties of leek (*Caredan* and *American Flag*) and coffee.

Matheux

During FY 2013, the FtF West/WINNER project planned the rehabilitation of the satellite CRDD of Goyavier in the Matheux hillside. This small CRDD will assist farmers of the area with the cultivation of beans, corn, potatoes and vegetables.

3.2.3 Water Reservoirs in Matheux and Cul de Sac

This year, FtF West/WINNER installed 3 cement hillside water catchments and communal water cisterns for rainwater collection and runoff reduction in Matheux and Cul de Sac, in order to provide water to irrigate terraces and greenhouses in support of sustainable hillside agriculture. The reservoirs benefit a total of 15,000 people in the target areas. Overall capacity is of 641 cubic meters of water. These systems allow for sufficient water sources for agricultural irrigation are linked to drip irrigation systems for the greenhouses, while also providing water for tree seedlings, which will be transplanted to increase tree cover on hillsides.

Table 29. Summary of water reservoir installation (FY 2013)

Reservoir name	Target area	Area (m2)	Capacity (m3)	# of beneficiaries	Association	# jobs created (persons/day)	Project duration	Total project value (USD)
Platon Mat	Kenscoff	100	240	3,000	MONAJEP	6,510	5 months	69,556.00
Jacquette	Kenscoff	98	201	5,000	AJJAC	5,600	5 months	68,185.00
Matheux Guyenne	Goyavier	100	200	7,000	KAPPG	5,985	6 months	70,451.00

3.2.4 Technical assistance in improved irrigation techniques in hillsides

During the dry season of 2013, finding a solution to water shortages became crucial for the APFCK flower producers from the Kenscoff area. Cooperative farmers are now following a demand driven calendar and therefore irrigation needs to be readily available. To address this pressing need, FtF West/WINNER worked with two experts from the University of Florida, Brian Boman and Stewart Swanson. Specialists initially suggested tapping into the spring water system of the national school at Furcy. Later in the year, improvements were made to system to provide water to 600 school children, the surrounding community in addition to the the APFCK producing grounds. A solar pump and three reservoirs (600 gallons of capacity each) were installed by FtF West/WINNER. This pilot water-tapping model can be replicated in the mountains of Haiti to increase environmentally sound agricultural production and reduce time children and women spend fetching water daily

Support from the University of Florida

The period started with preparation for the Kenscoff CRDD dedication. Activities included training new members of the WINNER team, helping in setting the stage for the

dedication, elaborating signs and labels for the different activities. The UF also worked with the CRDD teams to establish field trials for various products that can be grown in hillside areas and generate income for farmers.

3.3. Watershed governance

3.3.1 Cul-de-Sac watershed management and zoning plans

In mid November 2012, a two-day workshop was organized by FtF West/WINNER, jointly with the CIAT, to present the Cul-de-Sac watershed management and zoning plans to Ministry of Agriculture officials and key stakeholders involved in watershed management in the Cul-de-Sac corridor (mayors, representative of civil society, professionals and private sector representatives). During the event, participants had the opportunity to discuss the actions proposed in the plans and to make recommendations for their effective implementation. This region-level plan is a key input to the subsequent development of zoning policies for communal-level plans for the communes of (Petionville, Kenscoff, Croix-des-Bouquets, Tabarre, Ganthier, Thomazeau, and Cité Soleil).

Following this event, and on the base of this plan, several meetings were held between FtF West/WINNER and representatives of the ten communal sections of Croix des Bouquets (ASECs, CASECs, farmer associations, community leaders), to gather inputs for the development a zoning plan for the commune. Related zoning maps were prepared and the plan was finalized in May 2013, identifying areas reserved for agriculture, urbanization, reforestation, etc. This plan has been used to ground the enactment of a municipal zoning ordinance for the area.

In Petionville, meetings between FtF West/WINNER were held with representatives of five communal sections to gather inputs for the development the commune's zoning plan. Which will be finalized in late October 2013 and presented to key stakeholders for feedback in early November 2013.

Protection of biodiversity areas - Parc de La Visite

This year, FtF WEST/WINNER provided material and technical support to improve the capacity of auxiliary environmental protection agents and the supervision of proper land use within the Parc la Visite, with the aim of expanding the pastures within the park, enforcing current environmental regulations and preventing wood cutting. Uniforms, goggles, GPS devices, communication equipment, boots, among other items, were purchased by project for the surveillance corps of the Agence Nationale des Aires Protégées (ANAP) of the Ministry of Environment.

3.3.2 Matheux watershed management and zoning plans

This fiscal year, a number of steps were completed for the development of the Matheux watershed and zoning plans. GIS maps of the corridor were designed based on data on land use and land cover maps produced by subcontractor RPI. Additionally, consultant Glenn Smucker was engaged to compile relevant information about the region, through field visits and interviews with key stakeholders. In September 2013, a consultation workshop was organized with Matheux stakeholders to present the features of the watershed management plan and solicit input from stakeholders on the key challenges to the management of the Matheux watersheds and to discuss proposed solutions. Based on the results of the workshop, FtF West/WINNER will finalize the watershed management and zoning plans for the Matheux corridor in the next quarter.

3.3.3 Disaster risk-reduction and flood early warning system

This year, FtF West/WINNER continued to make progress on the installation of a flood early warning system (FEWS) in the Cul-de-Sac plain. Sirens and rain gauges were procured and the firm SUTRON was subcontracted to perform the installation of the equipment. Four alert stations including sirens were installed in the localities of Ti Maché, Dumay, Carrefour Marin and Goman; along with the bases for four hydro-meteorological stations located at the Ganthier bridge, the Bassin Général of the rivière Blanche, the Bassin Général of the rivière Grise, and the gate of the rivière Grise in Belle Fontaine. Fences to secure eight monitoring stations in the Cul-de-Sac plain were also installed by the subcontractor to protect the sites against vandalism. FtF West/WINNER also started dialogue with the telecommunications company, Digicel, for the hosting of the software system that will serve to trigger the alerts. This is the same system that is used by the Haitian Direction de la Protection Civile (DPC) for the national flood early warning system. FtF West/WINNER also distributed 60 manual sirens to civil protection committees in the Matheux and Cul de Sac and trained them on how to use the equipment.

In St. Marc, a workshop was held with local stakeholders including NGOs, community-based associations, international organizations, and ASECs and CASECs, as well as concerned government entities to disseminate information on the area's disaster contingency plan. The plan addresses several categories of risk and specifies action responses to be taken for each type of event, as well as roles and responsibilities of each institution involved, so as to ensure optimal use and coordination of existing resources.

3.4. Agro- forestry

3.4.1 FY 2013 agro-forestry campaign

This year, a total of 1,446,987 seedlings were produced and 1,285,730 fruit and forest trees were planted by the project in the target regions of Kenscoff, Mirebalais/Saut d'Eau, Matheux and Cul de Sac, which resulted in a total of 6,086 hectares of agro-forestry in

the target areas. The table below provides a summary of FtF WINNER agro-forestry campaign for the 2013 fiscal year.

Table 30. Summary of FtF WINNER Agro-forestry Campaign – FY 2013

Area	# of tree seedlings in nurseries by end of FY 13	# of trees planted			Transplanted surface area (Ha)		
		fruit trees	forest trees	Total	fruit trees	forest trees	Total
Kenscoff	400,330	155,512	244,818	400,330	995	881	1,876
Mirebalais / Saut d'Eau	53,500	48,374	0	48,374	310	0	310
Matheux	381,921	204,157	200,928	405,085	1,307	723	2,030
Cul de sac	611,236	207,322	403,914	611,236	1,327	1,454	2,781
Total	1,446,987	615,365	849,660	1,465,025	3,939	3,058	6,997

As part of the project's broader tree plantation efforts, this year, FtF West/WINNER established 84 nurseries to achieve its goal of producing of 2 million coffee plants in upper watershed areas of the Cul-de-Sac and Matheux corridors. At the end of the 2013 fiscal year, 1,614,952 coffee seedlings had been produced and 1,045,515 coffee seedlings had been transplanted, which corresponds to a planted surface area of 552.76 hectares.

Table 31. Summary of FtF WINNER coffee campaign – FY 2013

Area	# of tree seedlings in nurseries by end of FY 13	# of trees transplanted	Number of nurseries installed	# of tree seedlings produced	# of nurserymen	Surface (ha)
Matheux	158,000	158,000	4	160,000	12	79.00
Kenscoff	1,453,509	887,515	80	1,454,952	240	443.76
Total	1,611,509	1,045,515	84	1,614,952	252	552.76

3.4.2 FtF WINNER partnership with DINASA

A partnership with the private Haitian oil company DINASA was forged with the aim of increasing tree coverage with the planting of three million trees in the areas of Cul de Sac, Matheux, Kenscoff and Mirebalais/Saut d'Eau. DINASA supports these efforts by paying HTG 3.75 for each tree transplanted directly to the various associations working in the agro-forestry campaign. After six months, if the areas where the transplantation occurred show a survival rate of 80% or more, DINASA pays another HTG 3.75 to the farmer associations, rewarding them for ensuring effective management of trees. At the end of the 2013 fiscal year, 999,802 seedlings were transplanted by 104 farmer associations and HTG 3,736,443.50 were paid by DINASA to compensate them for the work. Sustainability rewards were paid to 43 associations that were able to ensure the maintenance of the seedlings and amounted to HTG 1,284,229.00, as shown in Tables 32 and 33 below. Associations from the Matheux area were particularly successful; all 12 associations involved in the transplantation of the seedlings were able to attain the 80% survival threshold set by the project. Among the regions targeted by the project, Cul de Sac associations reported proportionally lower survival rate.

Table 32. Summary of FtF WINNER/DINASA partnership - FY 2013

Region	# of forest trees transplanted	# of fruit trees transplanted	# of beneficiaries	Surface area reforested (Ha)	Survival rate of trees
Kenscoff	45,313	110,843	1 633	703	65%
Mirebalais / Saut d'Eau	87,223	62,627	1 500	200	71%
Matheux	385,136	187,281	2 776	362	57%
Cul de sac	67,940	53,637	1 164	546	60%
TOTAL	58,512	414,388	7 073	1,811.42	64%

Table 33. Amount paid by DINASA to farmers - FY 2013

Region	Transplantation		Guarenteeing survival	
	# of associations receiving payment	Amount paid (HTG)	# of associations receiving payment	Amount paid (HTG)
Kenscoff	25	2,133,007	9	409,215
Mirebalais / Saut d'Eau	28	585,585	17	368,225
Matheux	12	455,914	12	250,015
Cul de sac	39	561,937	5	2,56,774
TOTAL	104	3,736,443	43	1,284,230

3.4.3 Overall results of the agro-forestry campaigns

With the FY 2013 agro-forestry campaign, FtF West/WINNER is winding down its agro-forestry activities. Since the inception of the project, 334 nurseries have been established and nearly 5 million tree seedlings have been transplanted covering an area of close to 33,000 hectares. Table 34 below presents the overall results of the ago-forestry campaigns conducted by FtF West/WINNER since the beginning of the project.

Table 34. Overall results of the FtF West/WINNER agro-forestry campaigns

Region	Number of nurseries	Number of local organizations involved	Tree seedlings transplanted	Surface area planted (hectares)	Number of beneficiaries
2009- 2010 campaign					
Matheux	12	12	105,452	787	11,947
Gonaïves	27	27	578,578	4,316	3,119
Kenscoff/Petionville	63	19	545,547	4,070	26,486
Mirebalais/Saut d'Eau	27	72	353,757	2,639	1,709
Cul-de-Sac plain	4	1	247,563	1,847	843
Subtotal	133	131	1,830,897	13,658	44,104
2011-2012 campaign					
Matheux	15	15	110,452	824	12,235
Gonaïves	27	27	432,908	3,229	3,119
Kenscoff/Petionville	69	69	578,929	4,319	26,486
Mirebalais/Saut d'Eau	18	18	400,797	2,990	1,709
Cul-de-Sac plain	1	1	110,540	825	843
Subtotal	130	130	1,633,626	12,187	44,392
2012-2013 campaign					
Matheux	22	20	405,085	2,030	1,250
Kenscoff/Petionville	31	22	400,330	1,877	1,768
Mirebalais/Saut d'Eau	6	6	48,374	310	673
Cul-de-Sac plain	12	12	611,236	2,781	3,601

Subtotal	71	60	1,465,025	6,997	7,292
Grand Total	197(*)	184(*)	4,929,548	33,842	50,000(*)

(*) There is overlap in the totals for these data points across campaigns.

3.4.4 Support the development of the mango value chain

This year, FtF West/WINNER continued to support activities in the mango value chain. The project provided donkey pack frames and mobile collection centers to farmer associations in the Mirebalais/Saut d'Eau area, in the Matheux, and in the Cul-de-Sac.

This quarter also was the end of the growing season for mango francisque that are exported. The table below summarizes the export of mangoes from farmer associations supported by the project.

Table 35. Mango exports from farmer associations supported by FtF West/WINNER (FY 2013)

Region	Volume purchased by associations from producers (units)	Volume sold to exporters by associations (units)	Volume exported (units)	Volume exported (boxes of 4.5 kg)	Value of exports (\$)
Mirebalais	1,283,905	1,052,558	999,930	124,991	\$976,182
Matheux	219,520	199,316	189,350	53,669	\$184,853
Total	1,503,425	1,251,874	1,189,280	148,660	\$1,161,035

The total value of exports from farmer associations supported by FtF West/WINNER in the 2013 mango growing season is \$1,161,035. Without the project's intervention, we estimate that the value of exports from these same associations would have been \$656,866. Thus, the value of mango exports as a result of US Government assistance in 2013 is \$504,169. This is a 92% increase over the value reported last year (\$262,472).

SECTION IV. AGRICULTURAL MARKETS STRENGTHENED

4.1. Transportation

In January 2012, FtF West/WINNER convened a road rehabilitation planning meeting in its office with the participation of the ministry of Public Works (MTPTC) and USAID representatives to gather inputs for the project’s road rehabilitation program. During this meeting, it was decided that MTPTC would send a list of roads deemed priority so that a Memorandum of Understanding (MoU) could be established between FtF WEST/WINNER and MTPTC for the rehabilitation of agricultural farms to markets roads. Following this meeting, FtF West/WINNER sent a letter to MTPTC with a draft MoU and a list of roads considered important to support the project’s agricultural production program. As the MTPTC never responded to the letter and to further follow-up requests made by project staff, FtF West/WINNER decided to proceed first with the roads identified in its approved work plan and for which it had received USAID’s authorization for the execution of studies (Dumay and Merceron roads). In FtF West/WINNER work plan for FY 2013, three road rehabilitation projects were planned with the aim of increasing market-driven access to agricultural inputs and reduce transportation costs. These were the Dumay, Merceron, and Cottin roads in the Cul-de-Sac plain. After the passage of hurricane Sandy on October 2012, additional road projects were approved for consideration by USAID as presented in Table 36 below.

Table 36. Planned road rehabilitation projects (2012-2013)

Corridors	Roads	Km	Reasons For Selection
Cul de Sac-Plains	Dumay	9	Key road in main agricultural area (5,000 ha of irrigated lands). Potential agricultural revenues: \$18 million
Cul de Sac-Plains	Merceron	12	Road in a major rice and bean production area (2000 ha of irrigated lands). Potential agricultural revenues: \$7 million.
Cul de Sac-Plains	Cottin	6	Road in a major bean and corn production area (1,500 ha of irrigated lands). Potential agricultural revenues: \$5.4 million
Cul de Sac-Plains	Campeche	12	Key road in main agricultural area (5,000 ha of irrigated lands). Potential agricultural revenues: \$18 million
Cul de Sac-Plains	Carrefour-Ti Marché	8	Road in a major bean, vegetables and corn production area (2,500 ha of irrigated lands). Potential revenues: \$ 8.8million
Cul de Sac-Upper Areas	Marlic-Duvier	12	Main feeder road for high value crop commercialization.
Matheux-Plains	Bretelle-Cazale	15	Feeder road for key plantain and mango production and commercialization. Potential agricultural revenues: \$5 million

4.1.1 Dumay Road

The rehabilitation of the Dumay road is first identified and proposed by FtF West/WINNER to USAID on the 2010-11 Workplan. During the previous fiscal years a number of meetings were held and studies performed to assess the project’s economic impact, as its financial, environmental and technical requirements, in order to determine its viability.

Due to the need for an EA to be produced to support the implementation of the project, during the month of October 2012, scoping meetings were held between USAID and FtF West/WINNER staff and a subsequent draft EA Scoping Statement for the Dumay Road is submitted to USAID on the same month. After review, USAID environmental team requested the preparation of a single EA combining for the Rivière Grise infrastructure works, combining the Dumay road rehabilitation, the irrigation barrage construction and the irrigation canal rehabilitation. In December 2012, a final draft EA scoping statement combining all three activities is sent to USAID, stating clearly that the project would not involve any expropriation. Approval for this document is received from the USAID/LAC Bureau in March 2013, clearing the way for the development of the EA. In the same month, the CO approves the project's request to sub-contract the engineering firm MULENG S.A after a bidding process completed in September 2012 and draft sub-contract is submitted to USAID for approval, pending to completion of the EA.

In early April 2013, a first draft of the consolidated EA is submitted to the Mission, based on the approved scoping statement. By the end of April a second EA draft is sent to the Mission based on discussions with USAID environmental team, addressing USAID's preliminary comments, questions and recommendations. This draft is reviewed and commented by the Mission, returned to FtF West/WINNER for edits, and a final draft EA is submitted to the Mission in early May. By the end of the month the CO approves FtF West/WINNER's request to sub-contract the engineering firm MULENG S.A. and relevant files are submitted to the new CO, but remain pending approval of the EA.

In early June, FtF West/WINNER is informed by Mission representatives that the EA approval process will not move forward until differences in the final design and the EA are reconciled and appropriately assessed. The project responds showing that the EA fully reflects the road design. A meeting is then held between senior representatives of FtF West/WINNER and USAID on June 10th, in which the USAID infrastructure team acknowledges that they used an outdated version of the road design to compare with the EA. At the occasion, they reassured project staff that all pending issues had been clarified and therefore the EA approval process should be cleared and happening within the next week. Following this meeting, FtF West/WINNER communicated to USAID officials the next steps to move forward with the Rivière Grise infrastructure project, including the Dumay Road rehabilitation, highlighting the Mission's infrastructure team's acknowledgement during the June 10 meeting. Following this request, the COR asks that FtF West/WINNER to send the CD with the road information that was presented during the June meeting.

In September 2013, during FtF West/WINNER work plan development meeting, USAID engineer informed project staff that, due to some important issues with the dossier of the Dumay Road rehabilitation, this project cannot be approved at the moment.

4.1.2 Merceron road

In July, 2012 a detailed study commissioned for the partial rehabilitation of the road was performed and sent to the Mission. In November 2012, after the passage of Hurricane

Sandy, project engineers, using the study, proposed to the Mission the implementation of some repair works to re-open the road to traffic. In January 2013, the REA and the MEO requested a full Environmental Assessment for the work to be performed. In February 2013, a joint visit between USAID and FtF-West/WINNER personnel was conducted to assess the conditions of the road. Repairs are made contingent to the GOH consolidating and strengthening the banks of the Rivière Blanche in order to reduce the frequency and magnitude of future flooding of the road.

In February 2013, FtF West/WINNER submitted elements for the scoping statement to guide the EA for the road repair works to the Mission of (Existing conditions, purpose & needs, proposed actions). In March 18 2013 a visit of senior staff and USAID officers was paid to the project site and USAID representatives confirmed the need for the EA. During the same month, after being informed that the GoH would no longer implement the Rivière Blanche banks consolidation and strengthening works as originally expected, FtF West/WINNER engineers recommend that the Merceron road repair works is cancelled, as the repaired road would not withstand risks of flooding without the preliminary work from GOH. FtF West/WINNER informed the Mission of the decision.

4.1.3 Cotin Road

In June 2012, a preliminary study commissioned for the rehabilitation of the 6-km road from Cottin (source Zabeth) to Chapotin. Based on the preliminary study and economic analysis reports, the full rehabilitation was dropped because the repair costs were considered too high. Furthermore, the road faces high flood risks from the Rivière Blanche (similar to the Merceron road) whereby the sustainability of the rehabilitation works is contingent to the GOH reprofiling Rivière Blanche and strengthening its banks.

4.2. Market information

This year, a contract was signed with the firm Solutions for the implementation of a pilot project on mango traceability Matheux and the Mirebalais and Saut d'Eau regions, developed by FtF West/WINNER in partnership with experts from the University of Florida. The pilot includes the development of a database on mango producers and will use cell phone technology and mobile devices to identify farmers bringing their products to aggregation centers. The expansion of this system should ground-truth information about pest infestations and exceptional cultivars. It can also be used to maximize fair trade returns, and guide the HACCP and GAP certification process.

Additionally, value chain assessments for tomatoes, corn, peppers, shallots, mangoes, rice beans and flowers were completed, identifying the key actors in the value chain, the structure of the chains, and the prices at different stages of the process. These studies will help to guide programmatic decisions around future infrastructure projects and other types of interventions to be supported by the project in order to strengthen these value chains.

4.2.1 SMS Information Extension Service

An agreement was negotiated between FtF West/WINNER and Haiti's primary telecommunications carrier, Digicel, to provide information and extension services to farmers on agriculture issues. Beneficiaries of the service received daily messages during the preparation of the agricultural campaigns. SMSs encompassed topics such as proper plantation techniques, availability and price of inputs and soil preparation services, as well as other useful information. FtF West/WINNER anticipated that this service would be enlarged to further benefit 15,000 farmers during the 2013 fiscal year. Considering that some beneficiary names were entered multiple times, it is estimated that 8,000 farmers are actually registered on the project's database.

4.3. Market Norms and Standards

In order to improve the quality of products sold by farmer associations supported by FtF WINNER engaged international consultant to train the Chanpyon associations on the quality principles of Global Gap certification (see project level activities for more detail). The training sessions included the preparation of action plans by each cooperative to monitor progress towards quality production and quality control of products.

Additionally, equipment to improve commercialization was provided to 30 farmer associations and 3 cooperatives in the target corridors, including balances, bags, sealers, labeling equipment, and crates. This material will allow associations to provide higher quality and better presented products to their customers.

Throughout the year, FtF West/WINNER also worked with farmers and farmer associations to help them transition from traditional measuring systems (bokit, marmite) to internationally accepted units (kilogram and pound), ensuring closer alignment of these producers with global standards.

4.4. Public private partnerships (PPPs)

As part of FtF West/WINNER efforts to strengthen partnerships between the various agri-business stakeholders from Haiti and abroad, in 2012, a sugar multiplication plot was installed in cooperation by the project in Matheux in partnership with the Société du Rhum Barbancourt. The plot was visited by Florida Crystal's CEOs, a US-based sugar company that facilitates for high brix sugarcane. Company representatives are assessing the feasibility of implementing similar multiplication plots in Northern Haiti as part of a strategy to revive the sugar industry in the region. The 13 sugar cane varieties planted in 2013 in the multiplication plot have reached maturity in 2013 and measurements and analyses were performed to estimate yield, brix, fiber under two drip irrigation designs. A restitution meeting was held at Barbancourt premises, which was attended by 30 participants, including sugar cane and alcohol producers, FtF West/WINNER representatives and rice producers from the Thomazeau area, given that sugar cane can serve as an interesting rotation crop in rice production areas.

In June 2013, a project to implement a plantain chips processing unit in the Matheux with CETAI was approved by USAID. The equipment donated by FtF WINNER to CETAI was used as capital for the farmer cooperative of the Matheux “COPACMA”, who now hold 17% of the shares in the corporation CETAI Arcahaie S.A. Under this partnership, CETAI secured a loan from the Fonds de Développement Industriel (FDI) for USD 550,000.

This year, FtF West/WINNER formalized a partnership with the foundation ARN based in Digue – Matheux in the area of Arcahaie to build 1 industrial greenhouse. An MOU between ARN, Men Kontre and FtF WINNER was signed, allowing these organizations to together to ensure agriculture development in Digue – Matheux using greenhouse technology. Under this partnership, one greenhouse of 2000m² to was donated to the foundation. ARN will donate a fully equipped 540m² greenhouse to Men Kontre in Digue. Furthermore, Men Kontre will receive 20% of the commercialization of crops produced in the greenhouse.

The ADAIM dried fruits conditioning center in Mirebalais, inaugurated in November 2012, is now being fully managed by ADAIM, a local farmers association. The center is currently operating 6 days per week with 12 people on production days and dries 80 dozen mangoes per day for a total of 456 bags of 60g each. Following the opening of the center, FtF West/WINNER engaged two consultants to provide capacity building trainings in marketing, sales and hygiene.

The ODAI-L conditioning center for fresh fruits and vegetables was inaugurated in Kenscoff on June 26th 2013. Prior to the inauguration, experts from University of Florida supervised the installation of some key materials to ensure clean environment and food safety. A consultant was hired by FtF West/WINNER to provide training to workers of the ODAI-L on how to condition the products from the reception area until the sale. Less than a week after the inauguration, the center entered into an agreement with a supermarket to exhibit and sell its conditioned products in the supermarket’s yard.

Throughout the year, a number of important contracts were signed between FtF West/WINNER-supported associations and major companies. These included: Brana/Heinekken for the purchase of sorghum; CHPA for the purchase of beans; MFT S.A., Haiti Broilers and Moulins d’Haiti for the purchase of corn. The total value of these partnerships generated USD 43,965.11 in sales for local associations.

4.5. Mitigating post-harvest losses

For the past three years, FtF West/WINNER has been helping farmers access a variety of post-harvest materials and tools, in order to mitigate post-harvest losses. This year, distribution included silos, threshers, packframes, jute bags, among 14 other types of items. For beans storage, 122 silos were distributed to 30 associations from Kenscoff and the Matheux. Additionally, 2,753 mobile collection centers were distributed to mango producers. Table 37, 38 and 39 summarize the support provided by the project to different associations in the target areas.

Table 37. Donated post-harvest equipment, multiple crops (FY 2013)

Crop	Beneficiaries		Material					
	# of associations	# of beneficiaries	Crates	Tarps	Scales	Sealers	Packaging net	Packaging bag
<i>- Kenscoff -</i>								
Beans, Vegetables, Potatoes	7	21,900	120	21	21	0	7	21,000
<i>- Cul de Sac -</i>								
Beans, corn, rice, sorghum	13	3,987	420	42	42	12	14	42,000
<i>- Matheux -</i>								
Beans, corn, plantain, rice	9	3,151	120	27	27	9	9	27,000
Total	29	29,874	660	90	90	21	30	90,000

38. Donated post-harvest equipment, mango (FY 2013)

Region	Beneficiaries		Material						
	# of associations	# of beneficiaries	Mobile collection centers	Tents	Tarps	Scales	Crates	Packframes	Harvesters
Mirebalais	5	709	30	5	5	5	600	15	17
Saut d'Eau + Cabaret	5	1977	30	5	5	5	500	25	25
Cul de Sac	19	423	2693	0	38	0	475	38	38
Total	29	3,109	2,753	10	48	10	1575	78	80

39. Donated post-harvest equipment, beans (FY 2013)

Region	Beneficiaries		Material			
	# of associations	# of beneficiaries	Baches	Silos	"Jute" bags	Humidimeter
Kenscoff	26	385	3465	74	3,850	26
Metheaux	4	242	2178	48	2425	7
Total	30	627	5643	122	6,275	33

4.6. Commercialization

This year, FtF West/WINNER continued to be active in supporting the commercialization of agricultural products working with a total of 42 farmer associations from Cul de Sac, Matheux and Kenscoff to improve market access. The Table below lists the associations participating in FtF West/WINNER commercialization activities.

Table 40. List of Associations participating in commercialization activities

Association	Products
1. OPVH	Cassava, eggplant, shallots, grapefruit, lime, sour oranges, black beans
2. ADEBABO	Sorghum
3. New Life	Black beans, red beans, white beans, pigeon peas, malanga, breadfruit, fish, chickens,
4. ACIDEVTT	Pigeon peas, rice, thyme
5. ACPDD	Manioc, peppers, hot peppers, potatoes
6. OPDAC	Potatoes, eggplant, okra, plantain, papaya
7. OPDM/O	Okra, papaya

8. AAS	Rice, shallots, tomatoes, black beans, white beans, red beans.
9. OTPDBC	Coconut, shallots
10. MITH	Okra, spinach, black beans, pigeon peas, papaya, lime, chickens.
11. ORFEB	Corrossol, cachiman, sour oranges, cornmeal, plantain, avocado, mangoes, lime, onion, peppers, shallots, black beans, red beans, white beans, cherries.
12. OPADEC	Mangoes, spinach, cornmeal, coconut.
13. GRAPHIGRAP	Potatoes, hot peppers, grapefruit, shallots.
14. AJPD	Papaya, breadfruit, spinach, sour oranges, green beans.
15. OJEUDEC	Black beans, red beans, lime, cachiman.
16. OFAVDEBA	Sorghum, black beans, red beans.
17. OPTDC	Hot peppers.
18. OJUDO	Hot peppers, eggplant
19. AJDCGD	Yam, breadfruit, coconut
20. APDAPHCT	Hot peppers, eggplant
21. ADIM	Manioc, Yam, plantain, lime
22. PHASS	Breadfruit, peppers, lime, sour oranges, avocado, shallots, black beans, red beans, white beans, eggplant, malanga, chickens, plantain, fish, hot peppers.
23. ORP	Okra, plantain
24. ASV	Sorghum, cornmeal, spinach, beans
25. AAEB/G	Manioc, plantain, papaya
26. CODCT	Shallots, okra
27. GFVCT	Rice, corn, corrossol
28. PLTFTK	Palm oil, pumpkin, avocado, honey
29. MOPROF	Plantain, corn
30. MODEG	Pumpkin, papaya
33. ODEB	Lime, shallots
34. ELITE	Manioc, shallots, sour oranges
35. AJHAD	Corn
36. AJJAC	Carrot, peppers, letucce, beetroot, brocolli, cucumber, mirliton, peas, parsley celery, watercress, potatoes, leek, spinash, cabagge, beans radish, turnip
37. APERDEK	Carrot, peppers, letucce, beetroot, brocolli, cucumber, mirliton, peas, parsley celery, watercress, potatoes, leek, spinash, cabagge, beans radish, turnip
38. CODECOF	Carrot, peppers, letucce, beetroot, brocolli, cucumber, mirliton, peas, parsley celery, watercress, potatoes, leek, spinash, cabagge, beans radish, turnip
39. COODES	Carrot, peppers, letucce, beetroot, brocolli, cucumber, mirliton, peas, parsley celery, watercress, potatoes, leek, spinash, cabagge, beans radish, turnip
40. MOJAK	Carrot, peppers, letucce, beetroot, brocolli, cucumber, mirliton, peas, parsley celery, watercress, potatoes, leek, spinash, cabagge, beans radish, turnip
41. SOHARDEK	Carrot, peppers, letucce, beetroot, brocolli, cucumber, mirliton, peas, parsley celery, watercress, potatoes, leek, spinash, cabagge, beans radish, turnip
42. COAJEL	Carrot, peppers, letucce, beetroot, brocolli, cucumber, mirliton, peas, parsley celery, watercress, potatoes, leek, spinash, cabagge, beans radish, turnip

This year, FtF West/WINNER worked to establish a regional database of products available for sale by farmer associations, which includes information on quantities, specifications, price. Information is updated on a bi-weekly basis through a data collection form filled by farmer associations.

Additionally, regular meetings were held between FtF West/WINNER representatives and farmer associations to coordinate their participation in regional fairs. FtF West/WINNER also played an active role in channeling orders from clients, such as local supermarkets, hotels, and restaurants, which included establishments such as Big Star market, Giant market, Caribbean market, Kompam mini market, Provigo market, La Coquille restaurant, The View restaurant, Coin des Artistes restaurant, Kinam hotel, and Villa Creole hotel. Table 41 below outlines the revenue generated by FtF

West/WINNER-supported associations through sales made to local businesses. As shown, overall sales added up to \$463,572.

Table 41. Revenues generated through sales to local businesses (FY 2013)

Region	# of associations	Q1	Q2	Q3	Q4	TOTAL
Cul de Sac	15	1,392,958	2,658,706	2,219,569	1,973,685	8,244,918
Kescoff	12	892,135	1,771,854	1,008,000	1,628,847	3,700,836
Matheux	15	448,025	1,473,740	1,409,750	2,249,636	8,405,060
TOTAL HTG		1,930,198	4,637,319	4,304,300	4,637,319	20,350,814
TOTAL USD		\$43,968	\$105,634	\$98,048	\$105,634	\$463,572

In addition to sales to local businesses, associations also sold products at the “Mache Peyizan”, a fair organized every two weeks at the Parc de la Canne à Sucre, in Port au Prince. As shown in Table 42 the aggregated revenue generated by the associations at the end of the 2013 fiscal through sales at “Mache Peyizan” events reached USD 144,735.

Table 42. Summary of “Maché Peyzan” sales (FY 2013)

Region	# of associations	Q1	Q2	Q3	Q4	TOTAL
Cul de Sac	15	579,787	769,646	781,533	360,660	2,491,626
Kenscoff	12	175,716	570,000	530,169	635,289	1,911,173
Matheux	15	546,034	868,114	522,589	14,335	1,951,072
TOTAL HTG		1,301,537	1,834,291	2,207,761	1,834,291	6,353,872
TOTAL USD		\$29,648	\$41,783	\$50,291	\$41,783	\$144,735

V. PROJECT LEVEL ACTIVITIES

5.1 Capacity building of farmer associations

Establishment of cooperatives

In FY 2013, FtF West/WINNER completed the establishment of five cooperatives grouping members from various farmer associations in the project's areas of interventions. The cooperatives were created for the Cul-de-Sac plain, Kenscoff/Petionville, the Matheux, Mirebalais, and Saut d'Eau.

To support the cooperatives, FtF West/WINNER rehabilitated buildings to house their offices, assisted them with implementing financial management systems and business plans, provided training on management, and ordered trucks for them to facilitate the transport of agricultural products to markets. The cooperatives are expected to take a lead role in aggregating the production of small farmers and in interacting with vendors and distributors of agricultural products from the project's target corridors.

NUPAS assessment

In the spirit of USAID FORWARD, the FtF West/WINNER project undertook an assessment of 47 project beneficiary associations using the Non-US Organization Pre-Award Survey (NUPAS). The assessment was conducted according to the NUPAS criteria which include: legal structure, financial management and internal controls, procurement systems, human resources systems, project performance management, and organization sustainability. We attributed weights to each criterion in order to make the assessment more relevant to the types of organizations supported by FtF West/WINNER. Overall, the associations assessed have fairly good technical capacity; however, they were generally weak in terms of organizational structure and internal controls. In light of the results of the assessment, the project will provide capacity building to these associations in the areas of accounting systems, internal control procedures, and monitoring and evaluation.

Establishment of a Quality Management System

In the spring of 2013, consultant Criss Juliard was fielded to provide support to the project's newly created cooperatives to develop their own internal quality management system (QMS) based on the Global GAP food production standards. In a previous mission undertaken by Dr. Juliard in 2012, the cost of complying with Global GAP standards and of paying for the certification process was judged to be prohibitive for the Haitian small farmers supported by FtF West/WINNER. Furthermore, as the target crops supported by the project are for domestic consumption (except for mangoes), many of the Global GAP requirements are not directly applicable. However, it is clear that Haitian farmer associations can benefit greatly from implementing quality management systems that integrate many of the principles of Global GAP.

The project trained farmers belonging to the Cooperatives Chanpyon on the methodology for developing a QMS based on Global GAP standards. The methodology included and introduction to global gap, the principles of a Global GAP-based QMS, and the process for preparing a QMS manual specific to each cooperative. Following the training sessions, each cooperative developed a draft QMS.

In the remaining year of the project, we will continue to support the cooperatives with the implementation of their QMS in order to improve product quality and market access.

Roundtable with farmers on the effectiveness of FtF West/WINNER support

In August 2013, the project organized a workshop with farmers from all target areas in order to objectively evaluate the work done by the project during the last four years of implementation and to receive feedback on the effectiveness of FtF West/WINNER assistance.

Specifically, we requested feedback from the participants on: agricultural campaigns, the project's extension services with REAs and Master Farmers, technical innovations introduced, post-harvest operations and commercialization, and the rehabilitation of rural infrastructure.

The key recommendations made by the attendees include:

- Establish a partnership between the Haitian Government, the private sector and farmer associations to continue planning and implement upcoming agricultural campaigns;
- Strengthen the local seed companies, in coordination with the Ministry of Agriculture and BIAs to ensure the availability of high quality seeds;
- Continue to use modern methods for agricultural extension (text messages, demonstration plots, videos, etc...) and empower institutions (Universities, input suppliers, BIAs, farmer associations, and the Haitian Government) that can provide these service;
- Training on techniques to reduce post-harvest losses;
- Strengthen water users associations for the maintenance of irrigation systems;
- Training farmers on the use of small equipment for SRI and on the production of compost;
- Have the Ministry of Agriculture work with donors and the private sector in order to develop viable alternatives for farmers to access rural credit;

5.2 Other project level activities

Law on agricultural enterprises

FtF West/WINNER assisted the Ministry Delegated for the Peasantry (Ministère Délégué à la Paysannerie) to draft a law on the status of agricultural enterprises. This law would

allow cooperatives and farmer associations to have a legal status that can facilitate the grouped purchase of inputs, the application for rural loans, and entering into sales contracts with the private sector.

Support to local seed companies

In this reporting period, FtF West/WINNER conducted an assessment of the local seed distribution companies to determine the type of support needed to improve their ability to procure and distribute high quality seeds in a timely fashion for the local market and to enter into strategic alliances with agricultural input supply stores.

Compilation of agricultural research undertaken under FtF West/WINNER

In the fourth quarter of FY 2013, the project engaged one of the returning UF Master's students to compile the results of all the agricultural research conducted under the auspices of FtF West/WINNER. Between the applied research conducted at the various CRDDs and the research of students who received scholarships sponsored by the project, there is a treasure trove of information that needs to be preserved and shared as a key contribution of the project.

Transfer of equipment to ANAP

In September, FtF West/WINNER transferred equipment to the Agence Nationale des Aires Protégées (ANAP) in order to strengthen the capacity of the National Monitoring Corps (Corps de Surveillance) at the Parc la Visite. The equipment included a Polaris, gps devices, suits, goggles, and other materials for the Corps to monitor activities in the Parc, particularly wood cutting and other practices that degrade the environment.

SECTION VI. ENVIRONMENTAL COMPLIANCE

Throughout the 2013 fiscal year, the FtF West/WINNER team undertook several different activities related to ensure that the different components of the project comply with environmental principles and standards. Major activities for the period included:

- Preparation and submission of an environmental assessment encompassing the Rivière Grise diversion dam, the Dumay road, and the irrigation system of the Rivière Grise perimeter.
- The preparation of the scoping statement for the Merceron road.
- The preparation of EMPRs for rehabilitation of irrigation and canal systems, roads, as well as flood mitigation, ravine treatment and several infrastructure projects in the areas of Cabaret, Kenscoff, Montrouis and Matheux.
- Provision of continued support to agricultural input supply stores (BIAs) to improve their management and environmental stewardship, including the distribution posters in creole highlighting key PERSUAP concepts and of a French version of the PERSUAP.
- Training of project staff and beneficiaries on Reg 216 requirements and the importance of good environmental stewardship.
- Discussions with the Ministry of Environment and the Ministry of Agriculture to push for the development of legislation to regulate the safe disposal of pesticides and for the creation of safe disposition sites.
- Monitoring of the input supply stores for compliance with the safe use, handling, and storage of pesticides.
- Training on integrated pest management (IPM) and pesticide safety organized by Sun Mountain at the Bas Boen CRDD.

SECTION VII. COMMUNICATIONS

Communications continued to be very important to FtF West/WINNER during the 2013 fiscal year. The project's communication activities included the production of news flashes, success stories, communication tools, as well as the implementation of the project's technical education campaign. The project organized many high profile events, and organized a TV program, "Agriculture Métier d'Avenir", which was also transmitted by radio. Additionally, a total of 4 TV shows were produced, encompassing the following topics:

- "Ravine treatment and soil conservation"
- "Commercialization of agricultural products"
- "Post Sandy interventions"
- Irrigation of the Cul-de-Sac plain

The WINNER COP, Jean Robert Estimé, participated in the radio talk show broadcasted by radio Metropole on December 30th, 2012, discussing the topic "Vertical and Protected Agriculture"; and provided an interview in July 2013 to highlight the fact that the FtF West/WINNER project does not use GMOs.

Communication Tools

During the 2013 fiscal year, FtF WINNER Communications Department produced and installed 912 panels to identify field activities, consistent with USAID branding and marking guidelines. Major branded activities included: 2012-2013 winter bean campaign, irrigation, ravine treatment and soil conservation projects, post-Sandy interventions, the coffee campaign, initiatives linked to flood early warning systems, the Montouis CRDD, the rehabilitation of irrigation system of Bretelle, Courjolle, Torcelle, and the implementation of the Fonds-Blanc fountains and wash houses.

Major Events

During the year, the FtF WINNER Communications Department coordinated a number of important events. The highlights of the year include:

- Inauguration of the drying fruit facility in Mirebalais, with the presence of Haitian government authorities and USAID representatives
- Presentation of the watershed management and zoning plan for the Cul-de-Sac plain by FtF WINNER in collaboration with the Interministerial Committee for Land Management (CIAT)
- Launching events associated with the various crops agricultural campaigns throughout the year
- Workshop on vertical protected agriculture organized in partnership with the USAID HIFIVE project
- Inauguration of Kenscoff/Pétionville Champyon farmers' cooperative

- Inauguration of greenhouses, water catchments and reservoirs and planting of seedlings in Kenscoff
- Graduation ceremony of eight Haitian students who received their master's degrees in the University of Florida thanks to a grant awarded by FtF WINNER and a subsequent press event
- FtF West/ WINNER's participation in the Technology, Energy and Environment Exhibition (E2TECH)
- Launching of the Montrouis CRDD
- Farmer's certification ceremony
- Inauguration of the "Centre de Contonnement de Produits Frais de Kenscoff"
- Community meetings to support the elaboration of a zoning plan for Croix de Bouquets commune
- Community debate in Kenscoff
- Events to celebrate the International Women's Day and World Food Day
- Inauguration of the "Cooperative Champyon Farmers of Matheux"
- Sugarcane demonstration event with the participation of experts from University of Florida, farmers of the Cul-de-Sac and representatives of the Haitian rum company Barbancourt
- Two "Chanpyon" cooperatives open their offices: The Chanpyon Cooperatives of Mirebalais (COPACMI) and Saut d'Eau (COPACSE) officially opened their doors on July 9 and 10, 2013. Like the other three cooperatives that the project helped create, COPACMI and COPACSE received a donation in materials and equipment.
- Inauguration of seven irrigation pumps in the Cul-de-Sac plain: On Friday, July 19, 2013, the project inaugurated seven irrigation pumps in the Cul-de-Sac. The ultimate goal of this effort is to enable farmers in the Cul-de-Sac plain to gain access to irrigation water in order to increase the amount of land under cultivation. The pumps—which will receive electricity from the Bas Boën thermal power plant that was rehabilitated by the the project in November 2011, and from the state power company Électricité d'Haïti (EDH)—are able to operate at full capacity. The pumps will allow 1400 hectares of land to be cultivated in the Cul-de-Sac plain.
- Zoning Plan Completed for the Croix-des-Bouquets commune: On Wednesday, July 24, 2013, a workshop to present the zoning plan for the Croix-des-Bouquets commune was held at the Palm Events.
- Workshop on agricultural support/capacity building (encadrement agricole): In order to objectively evaluate the work done by the project during the last four years of implementation, a workshop was held on August 6 and 7, 2013. The main objective of this workshop was to share experiences and come up with recommendations on the most effective interventions that allow to reach the highest number of farmers, but also to reflect on the weaknesses of the project so that they can be addressed in this last year.
- Launch of the Coffee Transplantation Campaign in Kenscoff: On August 16, 2013, the project launched the coffee transplantation campaign in Kenscoff. FTF West/WINNER is implementing an agro forestry and coffee campaign in the

mountainous areas of the Cul-de-Sac and Matheux regions, which will ensure soil stabilization, protection of productive plains, and will allow farmers to plant fruit trees to generate revenues.

- Inauguration of rehabilitation of irrigation system of the Bretelle River: On August 20, 2013, the project inaugurated the work done on the irrigation system of the Bretelle River in Matheux. The project lasted about seven months and employed around 100-150 people in the region. Thanks to the work done, 1300 hectares of arable land will now be irrigated and the region's population will be protected from flooding.
- In-kind donation to the Environmental Surveillance Corps of Parc la Visite on August 27: One of Haiti's few national parks, the Parc La Visite, is a protected area with great ecological interest for Haiti. However, the park has experienced deforestation and unlawful land exploitation. The project signed an MOU to support the National Agency of Protected Areas (ANAP) and through this, strengthen the link between the Environmental Surveillance Corps of Parc la Visite, and the local population. The project is supporting efforts to strengthen the monitoring of land use within Parc La Visite by providing in-kind equipment and materials for the surveillance agents.
- Three projects inaugurated in the Matheux region: On September 18th, 2013, the project inaugurated the rehabilitation of the irrigation systems of the Torcelle and Courjolle rivers. The work will allow farmers to gain access to irrigation water, and will also protect farmers in the region from the threat of flooding. On the same day, the project inaugurated the water system in Fonds Blanc, the rehabilitation of the Cassandre water catchment, the construction of four fountains and the rehabilitation of two laundry washing stations

Other communication activities in the fourth quarter of FY 2013

The quarter brought multiple important events that required the communication's team coordination and involvement, and they will be detailed in the sections below.

FTF West/WINNER wrote two success stories this quarter:

- Haitian Master's graduate starts his own company, and a better future
- From hurricane to hope

Education Campaign

A consultant was hired to help design and implement a Creole agricultural education campaign that was launched in line with the project's Spring/Summer agricultural campaign in the areas of intervention of the Matheux, Cul-de-Sac and Kenscoff. The campaign's objective is to reach more farmers and farmer associations with the project's technical itineraries and be able to change old practices in favor of modern agricultural techniques that will translate into increased revenues. The campaign has a particular emphasis on women and farmers who do not work with the FTF West/WINNER project. The education campaign had the following components:

- Baseline survey plus two additional surveys to measure the impact throughout the campaign.

- Design of new SMS texts (Kozepeyizan) on nutrition, family planning, disaster preparedness, and technical itineraries
- Sound trucks that give information on the different technical itineraries
- Radio programs on technical topics (Matheux and Cul-de-Sac), with weekly shows
- Community gatherings to show project videos and have a discussion on multiple agricultural topics (question and answer sessions with REA and Master Farmers)
- Design of posters for five technical itineraries (potato, beans, corn, rice and banana plantain).

SECTION VIII. GENDER

In line with FtF West/ WINNER gender strategy, in 2013, several initiatives were implemented by the project to increase the role played by women in the agricultural sector and to empower them to take part in decision-making processes, enhancing thereby their capacity to benefit from opportunities offered by an expansion of the agricultural sector and better-integrated value chains.

Training of women

From February to March 2013, FtF West/WINNER conducted training sessions targeting 99 women farmers in the project's areas of intervention, the Cul-de-Sac and Matheux, on topics related to leadership and personal development. The aim of these training sessions is to strengthen the capacity of women beneficiaries to manage production and sales and to enhance their role in farmer associations. A summary of the gender-based training provided by FtF West/ WINNER during this reporting period is outlined in the table below.

Table 43. Training of women farmers conducted by FtF West/WINNER

Training Modules	Region	# of women participants per module
Gender equity, Commercialization and Access to Credit and Leadership, Conflict Resolution, and Personal Development	Cul-de-Sac	56
Community strengthening, Role of women in the use of new technologies	Cul-de-Sac	43
Personal Financial Management, Project Management, Time Management	Cul-de-Sac	55
Implementation of nurseries for vegetable production	Cul-de-Sac	30
Leadership, Conflict Resolution, Project Management, Time Management, Role of women in the use of new technologies	Cul-de-Sac	30
	Matheux	43

At training completion, women participants from both target corridors agreed to create an "Association of Chanpyon Women". This umbrella entity will regroup women-led farmer associations and support collaborative work on post-harvest and commercialization. FtF West/WINNER representatives committed to provide coaching to women in farmer organizations throughout the year, so that they can enhance their leadership capacity and maximize opportunities in the marketplace.

Celebration of International Women's Day

On March 8th, 2013, at the invitation of the Fanm Kenbe Fèm of St-Marc, the Feed the Future West/WINNER project participated in International Women's Day celebration in the Pierre Payen communal section in the Matheux Corridor. The event was organized by Fondasyon pou Defann Dwa Peyizan Ayisyen (FDDPA) regrouping 14 women associations. The event gave 300 participants, mostly women, the opportunity to demand greater participation of women in the country's reconstruction and development process.

SECTION IX. MONITORING AND EVALUATION

This section presents the results achieved and progress made towards FtF West/WINNER project indicators during FY 2013. Table 44 presents a summary of progress towards key indicators.

Table 44. Summary of Progress Towards Key Indicators in Fiscal Year 2013

Indicator #	Modified indicators	Indicators	Baseline	FY 10 Results	FY 11 Results	FY 12 Results	FY 13 Results				FY 13 target	FY 13 actual	FY14 Target	Remarks
							Q1	Q2	Q3	Q4				
4.5-16,17,18		Gross margin per hectare, animal or cage of selected products	Corn:127 Beans: 190 Rice: 350 Plantain: 1,337	Cul de Sac Corn: 127 Beans: 190 Rice: 350 Matheux Corn: 127 Beans 190 Plantain 1,337 Female: 4.01	Cul de Sac Corn: 551 Bean: 907 Rice: 960 Matheux Corn: 551 Beans 907 Plantain 2,340 Female: 2,596 Joint: 3.67	Corn:1,249 Beans:1,023 Rice: 1,371			Cul de Sac Beans : 1,163 Matheux Beans : 1,492 Plantain : 6,694		Cul de Sac: Corn: 1,260 Beans:1,200 Rice :1,450 Matheux : Corn: 1,260 Beans: 1,200 Plantain: 5,600	Cul de Sac: Corn:742 Beans:1,388 Rice :1,525 Matheux : Corn: 1,212 Beans: 1,402 Rice:2,325 Plantain: 7,600 Overall: Corn: 961 Beans: 1,392 Rice:1,691 Plantain: 7,600	Cul de Sac: Corn: 1,323 Beans: 1,260 Rice :1,522 Matheux : Corn: 1,323 Beans: 1,260 Plantain:5,880 Overall Corn: 1,323 Beans: 1,260 Rice: 1,522 Plantain: 5,880	Gross margins were calculated for target crops based on field data collected and compiled into a data base. The five data point collected to compute gross margin include: total production, total value of sales, total quantity of sales, total cash recurrent input costs, and total units of production. The gross margins for corn are lower than the target, although the yields increased because prices were higher last year (due to a shortage of imported corn and high international prices). For beans, rice, and plantains, the targets were exceeded for gross margin.
Outcome		Percentage increase in yield per hectare in the targeted corridors	N/A		Cul de Sac Corn: 215% Beans: 63% Rice: 62.7%			Cul de Sac Beans :-8% Rice : 4% Mathe	Cul de Sac Beans :-3% Matheux Beans : -0.8%		Cul deSac: Corn: 10% Beans: 10% Rice : 5% Matheux : Corn: 10% Beans: 10%	Cul de Sac: Corn: 475% Beans: 101% Rice : 138%	Cul de Sac Corn: 409% Beans: 131% Rice: 150%	Yields were calculated for corn, beans, rice and plantain based on a sample of farms in the Cul de

Indicator #	Modified indicators	Indicators	Baseline	FY 10 Results	FY 11 Results	FY 12 Results	FY 13 Results				FY 13 target	FY 13 actual	FY14 Target	Remarks
							Q1	Q2	Q3	Q4				
			Plantain: 13,000	Plantain: 13,000	Rice: 4,800 Plantain: (29,400 demonstrated plots) 13,000	1,200 Rice:5,030 Plantain: NA					20,310	Beans: 1386 Rice: 5,500 Plantain: 35,000	in irrigated area, the flow of water in the irrigation canals was insufficient during critical periods for plant growth. Yield increases are above target for beans and rice. For plantain, the baseline of 24,300 kgs/ha was erroneous. The actual baseline is 13,000 kgs per hectare.	
4.5.2.17 F /PL11/		Percent change in value of international exports of targeted agricultural commodities as a result of USG assistance	N/A	N/A	5%	75.3%			92%		25%	75.3%	5%	The percent increase in the value of export is calculated based of \$503,998 in 2013 vs. \$149,671 in the baseline.
4.5.2.36 FTF		Value of exports of targeted commodities as a result of USG assistance	\$149,671 (2011) ²	N/A	\$149,671	\$262,472			\$503,998		\$330,000	\$503,998	\$346,500	The value of exports is based on 2013 exports of mangoes sold by farmer associations supported by FtF West/WINNER
4.5.2.2 FT	F 4.5.2.5	Number of (l) hectares under improved technologies or management practices as a result of USG assistance	N/A = 0	Total w/one or more improved technology: 9,284	Total: 10,001	Total: 14,838 New: 4,838 Continuing: 10,000 Irrigation:		1,638 new Irrigation 1,638	3,100 new Irrigation 3,100	582 New Other – improv	14,500 4,500 new 10,000 continuing Irrigation: 4000, post harvest 500	Total: 17,230 New: 5,230 Continuing: 12,000 in the Matheux and Cul-de-Sac New:	Total: 13,000 New: 1,000 Continuing: 12,000	Hectares in the Torcelle and Bretelle irrigation systems that can be irrigated with the new water

² The baseline for mango exports was adjusted from \$2.58M to take into account only exports supported by FtF West/WINNER in its corridors.

Indicator #	Modified indicators	Indicators	Baseline	FY 10 Results	FY 11 Results	FY 12 Results	FY 13 Results				FY 13 target	FY 13 actual	FY14 Target	Remarks
							Q1	Q2	Q3	Q4				
						4300 Other: 538 Total w/one or more improved technology: 10,000				ed cult ural pra ctic es for pla ntai n	Other 10000 Total w/one or more improved technology: 14,500	Irrigation: 4,738 Other: 492 (improved management practice for plantain) Total w/one or more improved technology: 12,000		intakes and bank stabilization from the rivers. New hectares of rice under SRI. Hectares in the Matheux region with improved plantain production techniques.
4.5.2.4 F	F 4.5.2.10	Number of agriculture-related firms benefiting directly from USG-supported interventions	N/A = 0	7	2	2	3				4	3	0	Includes CETAI, ARN and ODAI
PLxx (formerly 4.5.2.39)	4.5.2.4	Number of technologies or management practices in one of the following phases of development: <ul style="list-style-type: none"> ...in Phase I: under research as a result of USG assistance ...in Phase II: under field testing as a result of USG assistance ...in Phase III: made available for transfer as a result of USG assistance 	N/A = 0	11	21	4	1	1 (Phase II)	4 (Phase II)		6	5		Introduction and field testing of 4 new rice varieties (X265, X360, X372 and FIFOFA160), and new model of greenhouses that are more cost-effective.
4.5.2.5 FTF	4	Number of farmers and others who have applied new technologies or management practices as a result of USG assistance	N/A = 0	10,644 Male and female: N/A New and continuing: N/A	20,826 M:12,496 F:8,330 New and continuing: N/A	Total: 11,648 M:6,898 F:4,659 New and continuing: N/A	130 new	5,624 New irrigation	2,470 New Greenhouses: 1,593 Plantain: 877		Total: 10,000 Male: 6,000 Female: 4,000 New: 2,000 Continuing: 8,000	Total: 16,274 New: 8,274 Continuing: 8,000 5,624: Irrigation 877: plantain management 1,723: greenhouses 8,000 continuing Irrigation:	Total: 16,168 Male: 8,310 Female: 7,858 New: 500 Continuing: 15,668	Farmers with access to irrigation, farmers using greenhouses, rice farmers using roller markers and conical weeders; farmers applying new management practices for plantain. The results are higher than the target due to a higher number of farmers than

Indicator #	Modified indicators	Indicators	Baseline	FY 10 Results	FY 11 Results	FY 12 Results	FY 13 Results				FY 13 target	FY 13 actual	FY14 Target	Remarks
							Q1	Q2	Q3	Q4				
											8,000 Improves management practices: 8,000		expected involved in managing greenhouses and the number of newly irrigated lands in the Matheux and Cul-de-Sac corridors.	
4.5.2.6 FTF		Number of individuals who have received USG supported long-term agricultural sector productivity or food security training	N/A=0	0		T : 33 M : 24 F : 9 Graduate students: 33					T:40 M:25 F:15 Graduate students: 40	T: 0 M: 0 F: 0	Students continuing training at UF (8) + students from Quisqueya, Notre Dame, FAMV, and Episcopale. (30). This quarter, students doing internships at the Bas Boen and Kenscoff CRDDs (10). Note, the UF students have graduated and are no longer reported as of Q3.	
4.5.2.7 FTF	F 4.5.2.12	Number of individuals who have received USG supported short-term agricultural sector productivity or food security training	N/A=0	T : 246 M : 177 F : 69	T: 1,136 (891) M: 643 F: 247 New: 890	T: 3,218 (2,081) M: 1,525 F: 557 New: 2,082	T: 254 M: 194 F: 60	T: 257 M: 185 F: 72	T: 865 M: 571 F: 294	T:603 M:410 F:193	T: 1,500 M: 1,050 F: 450	T:2,299 M:1,581 F:718 Producers: 2,244 Government: 45 Private sector: 10	T: 1,000 M: 700 F: 300 Producers: 900 Government: 50 Private sector: 50	Students receiving training in agriculture (master farmers), agro-forestry and soil conservation., BIA management, IPM, and post-harvest management (new)

Indicator #	Modified indicators	Indicators	Baseline	FY 10 Results	FY 11 Results	FY 12 Results	FY 13 Results				FY 13 target	FY 13 actual	FY14 Target	Remarks
							Q1	Q2	Q3	Q4				
														This year, we trained a greater number of people than anticipated due to high demand from farmer associations in target areas.
PLxx		Number of master farmers trained												
PL1	F 4.8.1.6	Number of hectares of hillsides protected thanks to USG interventions		N/A	9,327	4,446 (4,413)		1,310	2,472	3,215	3,500	6,997	0	Number of hectares planted in fruit and forest trees this year (6,997)
PL2		Volume of soil preserved in upper watershed areas	N/A=0	N/A	N/A	164,300				43,798	165,000	208,098	50,000	Estimation of volume of soil and sediments trapped by 13 ravines treated this year (43,798) in addition to sediments trapped by previously treated ravines (164,300).
PL3 BSC	11	Number of kilometers of mechanical structures built/rehabilitated	N/A=0	39	7	36.3			2.8	33	60	118.1	10	Bretelle and Torcelle rivers bank stabilization and primary irrigation canal; rehabilitation. There were 33 kilometers of ravines treated with 19,500m3 of gabions installed.
PLx...	11	Volume of mechanical structures built/rehabilitated												
PL4		Number of policies and land use regulations implemented	N/A=0	1	0	0				1	2	1	0	Zoning plan for Croix des Bouquets
PL5	12	Number of sub-watershed	N/A=0	0	0	1			1	1	5	2	2	The Croix-des-

Indicator #	Modified indicators	Indicators	Baseline	FY 10 Results	FY 11 Results	FY 12 Results	FY 13 Results				FY 13 target	FY 13 actual	FY14 Target	Remarks
							Q1	Q2	Q3	Q4				
		management bodies formed and strengthened												Bouquets zoning committee was formed in the the third quarter. The Matheux watershed working group was created in September.
PL6		Number of hectares covered with high value tree crops (fruit trees and noble forest wood) with project assistance	N/A=0	N/A	9,283	4,166 (4,133)	932 Fruit trees: 426 Forest trees: 506		1,978 Fruit trees: 1,114 Forest trees: 864	2,572 Fruit trees: 1,448 Forest trees: 1,124	4,000	5,598 Fruit trees: 3,152 Forest trees: 2,446	0	Number of hectares planted in fruit and forest trees this year (6,997). The average survival rate was 80% (adjusted # of 5,598). The target was underestimated based on previous year results for agro-forestry.
		Number of trees planted												
		Survival rates of trees planted												
4.8.1.1	PL 7	Number of hectares of biological significance and/or natural resources showing improved physical conditions as a result of USG assistance	N/A=0	0	Total : 44 Biological area: 0 Others: 44	0					1,000	0	500	Not measured because the trees planted by the project have not yet reached a level of maturity consistent with improved physical condition.
4.8.1.26	Replaces 4.8.1.4 and 4.8.1.2	Number of hectares of biological significance and/or natural resources under improved natural resource management as a result of USG assistance	N/A=0	Total: 11,884	Total: 8,033 Biological area: 0 Other area: 8,033	Total: 4,413 Other area: 4,413	932 Fruit trees: 426 Forest trees: 506		1,978 Fruit trees: 1,114 Forest trees: 864	2,000 (Parc La Visite)	2,500	T: 8,085 Fruit trees: 3,330 Forest trees: 2,755, Parc La Visite: 2,000	500	Hectares in Parc La Visite benefiting from the equipment donated to the Corps de Surveillance (2,000) + number of hectares planted with fruit and

Indicator #	Modified indicators	Indicators	Baseline	FY 10 Results	FY 11 Results	FY 12 Results	FY 13 Results				FY 13 target	FY 13 actual	FY14 Target	Remarks
							Q1	Q2	Q3	Q4				
										tree s: 1,4 48 For est tree s: 1,1 24				forest trees 95,598). The target was underestimated based on previous year results for agro-forestry.
4.8.2-26 F		Number of stakeholders with increased capacity to adapt to the impacts of climate variability and change as a result of USG assistance	N/A=0			301,950			240,000		100,000	240,000	0	Number of people in the St Marc commune that are covered by the disaster contingency plan prepared by FtF West/WINNER
Cust 4.8.1.5	F 4.8.1.5	Number of people receiving USG supported training in natural resources management and/or biodiversity conservation	N/A=0	T: 1,312 M: 787 F: 525	T: 1,234 M: 922 F: 312	T: 1,232 M: 875 F: 357	T: 281 M: 203 F: 78	T: 386 M: 269 F: 117	T: 225 M: 153 F: 72	T: 6 M: 3 FL2 93 63	T: 1,200 M: 840 F: 360	T: 1,548 M: 1,018 F: 530	T: 100 M: 70 F: 30	People receiving training in sustainable environmental management, soil conservation, pest management, and IPM training this year. The number reported is slightly higher than the target due to a higher number of trainees presented by farmer associations.
4.8.1.6 F		Number of people with increased economic benefits derived from sustainable natural resource	N/A=0	T: 52,763 M: 31,601 F: 21,162	T: 56,083 M: 34,243 F: 21,840	T: 60 M: 38 F: 22	T: 130 M:				T: 3,960 M: 2,772 F: 1,188	T: 1,723 M: 1,087 F: 636	T: 200 M: 140 F: 60	People benefiting from greenhouses and

Indicator #	Modified indicators	Indicators	Baseline	FY 10 Results	FY 11 Results	FY 12 Results	FY 13 Results				FY 13 target	FY 13 actual	FY14 Target	Remarks
							Q1	Q2	Q3	Q4				
		management and conservation as a result of USG assistance					82 F: 48							planting trees on slopes. The number reported is lower than the target because projected greenhouses in areas adjacent to Parc La Visite were not implemented due to delays by the Ministry of Environment because of internal staff changes.
4.5.2.23 FTF		Value of incremental sales attributed to FTF implementation or Value of farm sales	N/A=0	7,090,000	Total: 7,090,000 Corn: 3,069,000 Bean: 3,121,000 Rice: 900,000 Plantain : 0	Total: 7,585,594 Corn: 2,84 0,093 Beans: 4,041,006 Rice: 704,495				Cor n: 1,9 32, 802 Bea ns: 6,9 61, 012 Ric e: 2,3 16, 517 Pla ntai n: 1,6 66, 542	Total: 13,756,451 Corn : 4,721,273 Beans : 6,258,036 Rice : 1,652,100 Plantain : 1,125,042	Total: 12,876,873 Corn : 1,932,802 Beans: 6,961,012 Rice: 2,316,517 Plantain: 1,666,542	Total: 15,873,415 Corn : 5,721,273 Beans : 6,000,000 Rice : 2,027,100 Plantain : 2,125,042	The value of incremental sales is based on results from the sample of farms surveyed for beans, corn, rice and plantain. The data points used to calculate the value of incremental sales are based on the FTF guidelines. The total number reported is within 10% of the target.
4.5.2.38 FTF		Value of new private sector investments in the agricultural sector and food chain leveraged by FTF implementation.	N/A=0		767,500	1,086,114	\$1,150,000		\$263,394		2,000,000	\$4,028,394	0	Value of investment by CETAI (\$3.5 million), ARN (\$265,000), and UMCOR

Indicator #	Modified indicators	Indicators	Baseline	FY 10 Results	FY 11 Results	FY 12 Results	FY 13 Results				FY 13 target	FY 13 actual	FY14 Target	Remarks
							Q1	Q2	Q3	Q4				
														(\$263,394) UMCOR in post-harvest equipment for farmers in the Cul-de-Sac (silos, tarps, and humidity gauges).
4.5.2.29 F		Value of agricultural and Rural loans	N/A=0		0	550,000	\$100,000				500,000	\$100,000	500,000	Loans received from SOHARDEK and APFCK for greenhouse expansion The number reported is lower than the target due to the reluctance of financial institutions to lend to farmer groups at affordable rates.
4.5-10 FTF	4.5-5 FTF	Total increase in installed storage capacity (m3)	N/A=0		0	0		1,183 m3	766 m3		500 Dry storage: 500	T: 1,949 Dry storage: Cold storage:	500 Dry storage: 500	Total capacity of silos distributed to farmer this year. The number reported is higher than the target because the demand for silos was greater than expected and the partnership with UMCOR for the distribution of silos had not been anticipated..
PL8		Value of Ag Business Sales (post harvest operations – including storage – processing and packaging)	N/A=0		0	138,122	\$40,500	\$239,956	\$141,150		1,200,000	\$1,111,745	700,000	Value of sales from BIAS (\$503,438) and value of sales of

Indicator #	Modified indicators	Indicators	Baseline	FY 10 Results	FY 11 Results	FY 12 Results	FY 13 Results				FY 13 target	FY 13 actual	FY14 Target	Remarks
							Q1	Q2	Q3	Q4				
														agricultural products to markets, restaurants, hotels and sales at the "mache peyizan" (\$608,307).
PL9 BSC		Number of farmers using market information generated through project assistance	N/A=0	0	0	3,765	3,765				1,500	8,000	500	There were 8,000 farmers who received sms messages through the "Koze Payzan" program. The messages included market information. The number of farmers actually using market information was not measured. Thus, the number reported is higher than the target.
4.5.1.17 FTF	F 4.4.3.1 /4.4.3.3 F old	Kilometers of roads improved or constructed	N/A=0	5	17.7	0					100	0	T: 19 Improved : 19 New: 0	There were extensive discussions and meetings with the mission on the road program, the status of the various planned roads and reasons for the delays are detailed in the report.
4.4.3.7 F		Number of beneficiaries receiving improved transport services due to USG	N/A=0		T: 41,000 M: 24,600 F:16400	0					T = 68,081 M = 33,894 F = 34,187	T: 0 M: 0 F: 0	T = 67,800 M: 40,800 F = 27,000	There were extensive discussions and meetings with the mission on the road

Indicator #	Modified indicators	Indicators	Baseline	FY 10 Results	FY 11 Results	FY 12 Results	FY 13 Results				FY 13 target	FY 13 actual	FY14 Target	Remarks
							Q1	Q2	Q3	Q4				
														program, the status of the various planned roads and reasons for the delays are detailed in the report.
Custom C	C. 5.2.1.5 old	Number of kilometers of irrigation systems repaired	N/A=0	49.6	135	23.12	14.5		0.8	113	100	113	20	Rehabilitation of primary canals near the intakes of the Bretelle and Torcelle rivers irrigation systems in the Matheux. Cleaning of canals in Montrouis. Rehabilitation of the riviere Grise, riviere Blanche and source Zabette irrigation systems. The number reported is slightly higher than the target (13%) because of greater irrigation rehabilitation in the Matheux than expected.
4.5.1-24 FTF (formerly 4.5.1.9 FTF)		Numbers of Policies/Regulations/Administrative Procedures in each of the following stages of development as a result of USG assistance in each case: Stage 1: Analyzed Stage 2: Drafted and presented for public/stakeholder consultation	N/A=0	1	3	2			1 (Phase II)	2 (Phase I) 1 (Phase II)	4 (2 new + 2 continuing)	4 S1 Analyzed: 2 S2 Drafted: 2 (3 new + 1 continuing)	5 S1 Analyzed: 1 S2 Drafted: 3 S3 Presented for legislation: 1 1 new +	The zoning plan for Croix-des-Bouquets has been drafted this year and presented to stakeholders. In the fourth quarter, the watershed management plan for the

Indicator #	Modified indicators	Indicators	Baseline	FY 10 Results	FY 11 Results	FY 12 Results	FY 13 Results				FY 13 target	FY 13 actual	FY14 Target	Remarks
							Q1	Q2	Q3	Q4				
		Stage 3: Presented for legislation/decree Stage 4: Passed/approved Stage 5: Passed for which implementation has begun											4 continuing	Matheux was analyzed; and the zoning plan for rural sections of Petionville was prepared and presented to stakeholders. The draft law on the status of rural enterprises was drafted in the fourth quarter.
CLBD=5 (formerly 4.5.1 .27)		Average score, in percent of combined key areas of organization capacity amongst USG direct and indirect local implementing partners.	2012 = 34%			34%				42 %	40%	n/a	265	Associations were assessed this year based on the NUPAS methodology. The average score was 42%. However, the methodology needs to be reviewed because the definition has changed.
4.5.2.43 FTF		Number of firms (excluding farms) or Civil Society Organizations engaged in Agricultural and Food security-related manufacturing and services now operating more profitably (at or above cost) because of USG assistance	N/A=0		2	7					T: 10 Firms: 2	Total:16 Private sector: 2 Producer groups: 6 BIAs: 8	T: 2 Firms: 2	This includes the five cooperatives set up by the project, COPATRAL (mixed private sector and farmer associations), ODAIL, and BRANA (partnership with sorghum producers); as well as 8 input supply stores (BIAs) that are operating profitably.
4.5.2.11 FTF		Number of food security private enterprises, producers organizations, water users	N/A=0	276	360	273	273 continuing	273 continuing +	275 continuing + 1 new		T: 275 New: 2 Continuing	T: 289 New: 14 Continuing :	T: 287 New: 0 Continuing	

Indicator #	Modified indicators	Indicators	Baseline	FY 10 Results	FY 11 Results	FY 12 Results	FY 13 Results				FY 13 target	FY 13 actual	FY14 Target	Remarks
							Q1	Q2	Q3	Q4				
		associations, women's groups, trade and business associations, and community-based organizations (CBOs) receiving USG assistance.						2 new			: 273	275 Type of enterprises: 289 Producer organizations: 261 Water users: 2 Women's groups: 17 Trade & business associations: 5	: 287 Private enterprise: 0 Producer organizations: 272 Water users: 2 Women's groups: 9 Trade & business associations: 4	
4.5.2.42 FTF		Number of private enterprises, producers organizations, water users associations, women's groups, trade and business associations, and community-based organizations (CBOs) that applied new technologies or management practices as a result of USG assistance	N/A=0		184	38		2	1	5	6	8 (agricultural production) 2: women groups	0	This includes ODAL-L in Kenscoff, 2 women groups in the Matheux, and five cooperatives.
4.5.2-12 F		Number of public-private partnerships formed as a result of FTF assistance	N/A=0	3	8	4	2			1	3	3 Agricultural production: 1 Transformation: 2	0	CETAI, ARN and the newly formed company to process corn products in the Cul-de-Sac plain - COTRAPAL (4 th quarter).
4.5.2-13 F		Number of rural households benefiting directly from USG interventions	N/A=0		91,424	27,416	130 new 4,000 continuing				55,000: 15,000 new 40,000 continuing	69,521 New: 15,322 Continuing: 54,189	T: 60,000 New : 5,000 Continuing : 55,000	Households benefiting from greenhouses, training, silos, irrigation, increased agricultural productivity, ravine treatment, and agro-forestry.
PL10		Number of rural households who have increased farm income thanks to USG	N/A=0		20,826	14,451		5,624			30,000 (15,000 new	30,442	T: 45,000 New: 15,000	Households with increased farm income from

Indicator #	Modified indicators	Indicators	Baseline	FY 10 Results	FY 11 Results	FY 12 Results	FY 13 Results				FY 13 target	FY 13 actual	FY14 Target	Remarks
							Q1	Q2	Q3	Q4				
		government									15,000 (continuing)		Continuing : 30,000	irrigation, greenhouses, increased agricultural productivity, post-harvest improvements, and commercialization of agricultural products.
4.5.2 FTF		Number of jobs attributed to FTF implementation	N/A=0			T:216 M: 139 F:77					1,000	T : 601 M: 403 F: 198	300	Jobs created with the rehabilitation and bank stabilization of the Bretelle and Torcelle irrigation systems, irrigation rehabilitation in the Cul-de-Sac plain, ravine treatment, and returning UF students.

SECTION X. WATERSHED INVESTMENT FUND

FtF West/WINNER activities are financed through the WIF using a variety of instruments. These include grants, subcontracts, direct procurement, training, and short-term technical assistance (STTA).

Proprietary information redacted.

SECTION XI. ADMINISTRATION & FINANCE

This section presents the financial tables for the FtF West/WINNER project for FY 2013.

Proprietary information redacted.

