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WATERSHED INITIATIVE FOR NATIONAL  
NATURAL ENVIRONMENT RESOURCES

# QUARTERLY REPORT FIRST QUARTER FISCAL YEAR 2011



**October 2010 - December 2010**

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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.

# ACRONYMS

APFK	Association des Producteurs de Fleurs de Kenscoff
BIA	Boutique d’Intrants Agricoles
BME	Bureau des Mines et de l’Energie
CCCA	Conference on the Caribbean and Central America
CIAT	Comité Interministériel pour l’Aménagement du Territoire
CNE	Centre National des Equipements
CRDD	Centre Régional de Développement Durable
DEED	Développement Economique pour un Environnement Durable
GIS	Geographical Information System
KRA	Key result area
LPG	Light Propane Gas
MFT	Manufacture Fabrication Transformation
MOU	Memorandum of Understanding
ONADEV	Organisation Nationale de Développement
REA	Responsible d’Eancadrement Agricole
RFP	Request for Proposals
SBRI	Small Business Recovery Initiative
SHAISA	Société Haïtienne Agro-Industrielle, S.A.
SONAPA	Société Nationale de Production Agricole
STTA	Short-Term Technical Assistance
SRI	Système de Riziculture Intensive
USAID	United States Agency for International Development
WIF	Watershed Investment Fund
WINNER	Watershed Initiative for National Natural Environmental Resources

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## A. OVERVIEW

The WINNER team is pleased to report that the WINNER project had a strong performance during the first FY11 quarter, despite a challenging environment dominated by political uncertainties and urban unrest related to the November 28 elections. The country was also hit by tropical storm Thomas, but with limited damages in our zones of intervention, thanks to major bank widening and protection works completed by our team in La Quinte and Rivière Grise watersheds. Key achievements include:

### Livelihoods

- The launch of the winter bean campaign on 2046 ha, in the Cul de Sac, Mirebalais and Cabaret/Arcahaie regions. More than 2,500 small farmers participate in this campaign that will generate \$1,500/ha to 2,000/ha on a short period of time (less than 3 months). In the Plain of Cul de Sac, farmers particularly appreciate the winter campaign that brings an additional income during the dry season. This important improvement in their production system is due to rehabilitation works performed by the WINNER project in the Rivière Grise irrigation system to provide water to more than 4,000 ha.
- The transplantation of 1,300,000 seedlings of mostly fruit trees that benefitted to 11,500 small farmers, members of 131 associations. The total number of seedlings planted during 2010 amounts roughly to 2 million. The main challenge is to strengthen farmer's sense of ownership of our agro forestry program and closely monitor how young seedlings are treated after transplantation.
- The graduation in Kenscoff and Bas Boen of 34 master farmers, including 9 women, who received a diploma signed by the Ministries of Agriculture and Environment. Those new master farmers have a broad range of specializations, from soil conservation, to cereal agriculture and small animal husbandry.

### Infrastructure

- Bank widening of the La Quinte river to accommodate a peak flow of 500 m<sup>3</sup>/s. The river width was widened from 12 to 40 meters over 1.8 km, and all water intakes for small irrigation systems were protected. Banks were strengthened and stabilized with vetiver hedge rows densely planted.
- Cleaning of the Biennac drain over 7 km, to protect the town of Gonaives, and flood protection works on the Courjolle, Torcelle and Manègue rivers to protect the towns of Arcahaie and Cabaret. This last activity was implemented in close partnership with the Ministry of Environment.

- Construction of four water catchments in the Kenscoff region and two potable water systems, one near Kenscoff, the other in Duvier, near Petionville, that will provide water to 50,000 people.

### **Governance**

- Creation of the water-user association of the Rivière Grise which includes more than 1,000 members regrouped in 42 farm committees (“Comités d’Habitations”), 4 irrigation sector committees and one executive committee. The water fee is \$25/ha. Farmers are ready to pay this amount provided they are assured to receive irrigation water when they need it.
- Installation of the flood early warning system in Gonaives which was activated and played a critical role to mobilize and prepare vulnerable communities for tropical storm Thomas. The population was alerted on time and evacuation measures were implemented effectively, in accordance with the contingency plan we recently help design.
- Transfer of 5 seismometers to the “Bureau des Mines et de l’Energie (BME)” to install the first state-owned seismic monitoring stations. WINNER also co-sponsored the training in December 2010 of two high-level staff of the BME on the use of seismometers and associated software at a USGS facility in California.

### **PPP and SBRI**

- Development of the cut flower value chain in Kenscoff. Flower trials at the Kenscoff CRDD were successful and the quality of chrysanthemums impressed potential buyers. WINNER also helped create the “Association des Planteurs de Fleurs de Kenscoff” and conducted a study of the value chain that revealed a significant supply deficit and a lack of organization of this market.
- Participation to the CCAA conference in Miami from December 1<sup>st</sup> to December 3<sup>rd</sup>. WINNER financed the participation of 12 business leaders, including private sector entrepreneurs and representatives from the Chamber of Commerce. One of the main topics was the reconstruction of Haiti and economic opportunities that will derive from rebuilding the country.
- Assistance to 2 bakeries destroyed by the earthquake through SBRI grants, in partnership with SOGEFAC, a leading financial institution from the SOGEBANK group. Those in-kind grants (stoves) will not only help the bakeries resume their activities, but will also ensure that they shift from fuel wood to LPG, which is one of the main objectives of our project.

**Project Level Activities**

- Installation of the first solar panels for 25 farmer associations selected through a competitive process. The solar panels are managed on a profit-making basis by management committees including a majority of women and are used to charge cell phones, use computers, provide light in common areas, and conserve all kinds of products and inputs that require refrigeration.

## B. LIVELIHOODS

In this section, we present the activities related to the livelihoods component of WINNER undertaken in this reporting period in all zones of intervention.

The winter 2010 winter bean campaign was implemented during this quarter in the Cul-de-Sac plain, the Mirebalais/Saut d'Eau, and the Cabaret/Archaie regions. Overall, WINNER provided \$368,905 worth of seeds and pesticides to 104 farmer associations through 18 farmer input supply stores (Boutiques d'Intrants Agricoles); including \$278,405 for 115 metric tons of black bean seeds, \$53,125 for 221 Kg of Actara, and \$57,375 for 6.5 metric tons of Dithane. As of December 31<sup>st</sup> 2010, 3,059 hectares of beans belonging to 2,445 farmers were planted with beans. A total of 26 extension agents (Responsables d'Encadrement Agricole (REAs)) assisted the farmers with the bean campaign. Table 1 provides a summary of the 2010 winter bean campaign supported by WINNER.

**Table 1. Summary of the 2010 winter bean campaign**

Commune	Number of REAs	Total of hectares	Number of Hectares Plowed	Number of Hectares Irrigated	Number of farmers assisted	Number of associations assisted	Number of input supply stores assisted
<b>Region: Cul-de-Sac Plain</b>							
Croix-des-Bouquets	8	426	365	426	175	7	4
Ganthier	2	220	171	220	161	7	1
Thomazeau	2	180	64	180	95	4	2
Cité Soleil	1	100	100	79	58	1	1
<b>Total Cul-de-Sac</b>	<b>13</b>	<b>926</b>	<b>700</b>	<b>905</b>	<b>489</b>	<b>19</b>	<b>8</b>
<b>Region: Mirebalais / Saut d'Eau</b>							
Mirebalais	4	464	28	450	908	36	2
Saut d'Eau	4	165	0	178	364	30	5
<b>Total Mirebalais / Saut d'Eau</b>	<b>8</b>	<b>629</b>	<b>28</b>	<b>628</b>	<b>1272</b>	<b>66</b>	<b>7</b>
<b>Region: Cabaret / Archaie</b>							
Cabaret	2	191	33	191	272	10	1
Archaie	3	313	73	313	412	9	2
<b>Total Cabaret / Archaie</b>	<b>5</b>	<b>504</b>	<b>106</b>	<b>504</b>	<b>684</b>	<b>19</b>	<b>3</b>
<b>Grand Total</b>	<b>26</b>	<b>2059</b>	<b>834</b>	<b>2037</b>	<b>2445</b>	<b>104</b>	<b>18</b>

For the second agro-forestry campaign, 1,633,626 tree seedlings were produced (see Table 2). Of this amount, 1,300,700 trees were planted (79.6%). The total surface area planted was 7,814 hectares for the benefit of 11,551 farmers.

**Table 2. Number of tree seedlings produced and transplanted during the second agro-forestry campaign**

Région	# of farmer associations	# of tree seedlings planned	# of tree seedlings produced	Tree seedlings transplanted	# of nurseries	Surface area planted (hectares)	# of beneficiaries
Cabaret/Arcahaie	15	400,000	110,452	61,913	15	432	1,256
Gonaïves	27	540,000	432,908	337,686	27	2,243	2,601
Mirebalais/Saut d'eau	69	1,020,000	400,797	293,727	24	2,155	2,515
Kenscoff/P. V	19	1,638,000	578,929	496,841	63	2,884	4,323
Plaine cul de sac	1	120,000	110,540	110,540	4	100	856
<b>Total</b>	<b>131</b>	<b>3,718,000</b>	<b>1,633,626</b>	<b>1,300,707</b>	<b>133</b>	<b>7,814</b>	<b>11,551</b>

Table 3 presents the training sessions realized during this quarter. Training is being conducted for the certification of master farmers in all regions where WINNER intervenes. In this quarter, 34 master farmers, including 9 women were graduated in the Kenscoff-Petionville and Plaine du Cul de Sac regions.

**Table 3. Summary of WINNER Training from October to December 2010**

<b>Date</b>	<b>Training topic</b>	<b>Region</b>	<b>Men</b>	<b>Women</b>	<b>% Women</b>	<b>Total</b>
September 2010	Small farm management	Cabaret / Arcahaie	68	11	14%	79
October 2010	Small farm management	Cabaret	131	39	23%	170
December 2010	Techniques for bean cultivation	Cabaret	21	3	13%	24
October 2010	Basic agricultural concepts	Mirebalais	92	46	33%	138
November 2010	Small farm management	Mirebalais	170	116	41%	286
December 2010	Management of farmer input supply stores	Mirebalais	21	9	30%	30
October 2010	Techniques for the plantation of vetiver	Cul-de-Sac	30	19	39%	49
October 2010	Techniques for agro-forestry and nurseries	Cul-de-Sac	41	20	33%	61
November 2010	Technique de conservation de sol	Cul-de-Sac	38	20	34%	58
November 2010	Raising egg-laying hens	Cul-de-Sac	31	8	21%	39
December 2010	Prophylactics and animal health	Cul-de-Sac	29	7	19%	36
December 2010	Management of farmer input supply stores	Cul-de-Sac	15	15	50%	30
December 2010	Family planning	Cul-de-Sac	109	38	26%	147
December 2010	Sustainable environmental management	Gonaives	110	12	10%	122
December 2010	Family planning	Gonaïves	185	38	17%	223
December 2010	Techniques for the plantation of vetiver	Gonaïves	16	7	30%	23
October 2010	Sustainable environmental management	Kenscoff	62	35	36%	97
October 2010	Basic agricultural concepts	Kenscoff	25	14	36%	39
October 2010	Management of farmer input supply stores	Kenscoff	10	5	33%	15
December 2010	Family planning	Kenscoff	110	56	34%	166

## Agricultural extension services through SMS

The purpose of this program, which started in the month of August, is to provide timely and relevant agricultural and social information to farmers through sms technology. This means of telecommunication allows farmers to receive information in real time. The pilot phase of this program started with 600 farmers, In order to evaluate the impact of the program on farmers, extension agents (REAs) were included in the pool of message recipients.

The name of the text messages is « KozeWINNER ». A total of 70 messages were sent during this quarter. The content of the messages fall into five categories:

- Messages related to the cholera epidemic. In October, at a coordination meeting on the working group on the prevention of risks and disasters, chaired by the Department of Civil Protection and attended by WINNER, the Ministry of Public Health asked all partners that have a system for sending text messages to large groups to send standardized messages on how to prevent and cure cholera, and how to recognize symptoms of the disease.
- Messages concerning the passage of hurricane Tomas following a request from the National Office on the Prevention of Risks and Disasters of the Ministry of Interior.
- Messages related to the winter bean campaign in the regions of the Cul-de-Sac plain, Kenscoff, Cabaret, Arcahaie, Mirebalais and Saut d'Eau. These messages were related to all aspects of the campaign including: soil preparation, the availability and price of agricultural inputs, best planting practices, and how to best apply and dose pesticides.
- Messages announcing meetings of farmer associations on activities organized by WINNER.
- Messages requested by the Regional Directions of the Ministry of Agriculture to publicize activities they are undertaking such as trainings or product distribution.

In November and December, we conducted a study of the impact of the sms messages in Bas Boen and Kenscoff. A total of 33 farmers responded to a questionnaire in Bas Boen, and 134c farmers responded in Kenscoff. No negative comments were recorded. More than 80% of the people questioned acknowledge receiving the sms messages ; 60% said they read the messages through the help of someone else ; and 40% said they read the message themselves. The farmers questioned stated that the main value of the sms messaging system is that they receive relevant information right before they begin an activity.

WINNER will be conducting a detailed analysis of the impact of the sms program on farmers in the next quarter. The report will identify changes that were implemented as a result of the messages received, opportunities that farmers capitalized on, other types of information that farmers would have liked to receive but did not, and which messages need to be modified to have greater impact. After analyzing this report, the sms program will be scaled up, taking into account the lessons learned from the pilot phase.

## B1 CUL-DE-SAC WATERSHED (KENSCOFF / PÉTION-VILLE)

### B1.1 Installation of sustainable rural development centers (CRDDs)

The activities relative to the installation of sustainable rural development centers (CRDDs) in Duvier and Kenscoff have continued during this quarter. In the Kenscoff CRDD, a fish pond was constructed, as well as a 25 m<sup>2</sup> unit to house a nursery for agro-forestry activities. The greenhouse at the Kenscoff CRDD was enhanced with a lighting system and a lemongrass nursery.

Demonstration plots for cabbage, leeks, broccoli and carrots; and areas for compost production were set up in both the Kenscoff and Duvier CRDDs.

### B1.2 Agricultural campaign

In this quarter, we provided management support to five farmer input supply stores (Boutiques d’Intrants Agricoles (BIAs) through a management entity. In addition, 50 farmer associations received technical support on basic agricultural techniques (see Table 4). In the context of the fall agricultural campaign, 806 hectares were planted by 1,036 farmers. A total of 436 hectares were planted with vegetable crops (cabbage, carrots, leeks, peppers and tomatoes) and the rest (370 ha) were planted with beans. Seeds and pesticides were provided to the farmers through the BIAs. The technical assistance to farmers was provided by 13 extension agents or Responsables d’Encadrement Agricole (REAs). The crops for which extension services were provided include beans, leeks, cabbage, tomatoes, peppers, and carrots. Nine demonstration plots were implemented for these crops.

The revenues generated in Kenscoff during this agricultural campaign were 32,214,980 Gourdes (about \$800,000) (see Table 5). The most profitable crops were red beans, tomatoes, leeks, and carrots. Except for black beans, there was an increase in revenue ranging from 2% for tomatoes to over 200% for red beans.

**Table 4. Summary of the Fall 2010 agricultural campaign in the Kenscoff/Pétion-Ville region**

Item		Kenscoff	Pétion-Ville	Total
Number of extension agents		9	4	13
Number of hectares supported		574	232	806
Number of farmers supported		626	410	1,036
Number of farmer associations		23	27	50
<b>Area planted with local seeds (hectares)</b>				

Item		Kenscoff	Pétion-Ville	Total
Beans	Violet	36.94	5.9	42.84
	Red	53.1	5.53	58.63
	Local	189.36	79.67	269.02
	<b>Total</b>	<b>279.40</b>	<b>91.10</b>	<b>370.50</b>
<b>Area planted with imported seeds (hectares)</b>				
Cabbage		11.55	29.12	40.67
Leeks		249.68	8.32	258.00
Carrots		33.29	14.10	47.39
Tomatoes		0.56	64.20	64.75
Peppers		0.00	25.42	25.43
		<b>295.08</b>	<b>141.16</b>	<b>436.24</b>
<b>Total</b>		<b>574.48</b>	<b>232.26</b>	<b>806.74</b>

**Table 5. Revenues generated in the Fall 2010 agricultural campaign in the Kenscoff-Pétion-Ville region**

Crop	Area (ha)	Yield Traditional Crops (MT/ha)	Yield WINNER Supported crops (MT/ha)	Average Price (HTG/kg)	Total Cost (HTG/ha)	Gross Revenues Traditional Crops (HTG/ha)	Gross Revenues WINNER Supported Crops (HTG/ha)	% Increase in revenues
Red beans	92.92	0.45	1.39	100	16,524	45,000	139,000	209%
Black beans	94.58	0.45	0.43	60	16,524	27,000	25,800	-4%
Leeks	258	1.5	1.95	52	58,121	78,000	101,400	30%
Carrots	47.39	4.5	4.99	20	57,698	90,000	99,800	11%
Tomatoes	64.75	8	8.18	24	107,188	192,000	196,320	2%
Cabbage	40.67	10	16.06	7.6	96,591	76,000	122,056	61%

### B1.3 Agro-forestry

More than 496,800 trees were distributed and transplanted in the Kenscoff-Pétionville region during this quarter (see Table 6). The number of beneficiaries is estimated at more than 4,320.

**Table 6. Summary of the trees produced and transplanted in the Kenscoff-Pétion-Ville region**

	Pétion-Ville and Belle-Fontaine I, II et III		Kenscoff		
	Fruit tree species	Forestry species	Fruit tree species	Forestry species	Total

Trees produced in nurseries	289,875	270,343	10,149	8,562	578,929
Trees transplanted	237,881	248,949	5,430	4,581	496,841
Amount remaining in nurseries	51,994	21,394	4,719	3,981	82,088
Beneficiaries	3,895		428		4,323

## B1.4 Training

Two groups of master farmers in the area of Duvier received training on environmental management. The training sessions covered such topics as : (i) principles of environmental management for communities (associations or communes), (ii) key norms from the Rural Code (e.g., land use in mountain areas depending on slopes, rights and responsibilities of water users in irrigated perimeters), (iii) importance of the protection of endemic biodiversity, (iv) norms and environmental management tools introduced by the framework environmental decree of 2005 (e.g., definition of sanctions for environmental infractions, importance of watershed management plans and of environmental impact studies, prioritization of the valuation of surface and ground water in case of conflict)

In this quarter, 21 master farmers, including 6 women were graduated in the Kenscoff-Petionville region. In addition, 10 farmers received training on the use of motorized harvesters.

## B2 CUL-DE-SAC WATERSHED (CUL DE SAC PLAIN)

### B2.1 Installation of sustainable rural development centers (CRDDs)

At the Bas Boen CRDD, the activities undertaken this quarter include agricultural demonstration and agricultural experimentation.

#### ➤ *Agricultural demonstration*

1. Demonstration plot of 140 m<sup>2</sup> for vegetable crops (cabbage and tomatoes) using a drip irrigation system implemented with the support of the University of Florida ;
2. Implementation of three fish on 443 m<sup>2</sup> ponds seeded with 1200 tilapia.
3. Implementation of a demonstration plot for the cultivation of cabbage on 513 m<sup>2</sup> ;
4. Implementation of a demonstration plot for the cultivation of tomatoes on 1354 m<sup>2</sup> ;
5. Implementation of a demonstration plot for the cultivation of cantaloupe melon on 806 m<sup>2</sup> ;

6. Implementation of four (4) demonstration plots for the cultivation of beans on 2663 m<sup>2</sup> ;
7. Monitoring and maintenance of a mango orchard on one hectare ;
8. Monitoring and maintenance of vegetable nurseries (tomato, cabbage, onion) on 200 m<sup>2</sup>

➤ *Agricultural experimentation*

**1. Corn**

- Comparative trial of the yield performance of four (4) varieties of hybrid corn from Monsanto and Pioneer cultivated with a density of 53.33 plants/Ha ;
- The yields achieved were 6.69 T/Ha and 5.76 T/Ha for the 135CRM and 30F87 corn varieties from Pioneer ; 5.38 T/Ha and 5 T/Ha for the DK003 and DK1040 varieties from Monsanto; and 3.17 T/Ha for the local Hugo variety;
- Harvesting of hybrid corn from field trials ;
- Monitoring of the use of different fertilizer doses on corn with the support of the University of Florida;

**2. *Jatropha curcas***

- Maintenance and harvesting of the experimental trials on eight (8) varieties of *Jatropha curcas* on 3,276 m<sup>2</sup>.

**3. Agricultural demonstration on farmer plots**

- Implementation of 5 demonstration plots of bean on five farms on a total area of 9,000 m<sup>2</sup> in the Cul de Sac plain.

## B2.2 Agricultural campaign

The 2010 winter bean campaign started a little late due to the lack of availability of seeds and to delays in contracting for plowing services. However, despite these constraints, WINNER is providing technical support on best agricultural practices, soil preparation assistance, and inputs such as seeds, fertilizer and pesticides to farmers.

In the Cul-de-Sac plain, the local seed varieties « *Icta ligero* » and « *Pois noir local* » provided by WINNER to the farmers had a 95% germination rate. For the winter bean campaign in the Cul-de-Sac plain, WINNER provided 13 extension agents (REAs) in the four areas of intervention (Croix des Bouquets, Ganthier, Thomazeau and Cité Soleil) (see Table 7). Overall, 489 farmers belonging to 19 associations were supported for this campaign.

**Table 7. Summary of the 2010 winter bean campaign in the Cul de Sac plain**

<b>Communes</b>	<b># of REAs</b>	<b># of hectares assisted</b>	<b># of hectares plowed</b>	<b># of hectares irrigated</b>	<b># of farmers assisted</b>	<b># of associations assisted</b>
Croix des Bouquets	8	426	364.91	426 including 30% irrigated with pumps from groundwater	175	7
Ganthier	2	220	171.40	220 including 150 with pumps	161	7
Thomazeau	2	180	64.01	180 including 30% irrigated with pumps	95	4
Cité soleil	1	100	100.00	79 with pumps	58	1
<b>Total</b>	<b>13</b>	<b>926</b>	<b>700.40</b>	<b>905</b>	<b>489</b>	<b>19</b>

## **B3 GONAIVES WATERSHED**

### **B3.1 Installation of sustainable rural development centers (CRDDs)**



#### **Tarasse CRDD**

The implementation of the Tarasse CRDD continued in this reporting period. Measures were taken to rehabilitate hydroelectric pump #34 located in the 4th irrigated section (AIZ4) in order to provide water for the Tarasse farm. Despite poor soil quality due to an excess in salinity, with good quality irrigation water, crops such as eggplant, okra, tomatoes, corn, and sorghum can be successful. The sorghum demonstration plot implemented at the Tarasse CRDD was harvested this quarter. The yield was around 0.8 metric tons per hectare. In addition, ten hectares were plowed for the installation of demonstration plots at the CRDD.



### Labranle CRDD

With respect to the Labranle CRDD, we cleared fields and built a fence this quarter in preparation for the planting of tomatoes, melon, cabbage, and congo beans that will be planted in the next quarter.

The trial on the adaptation of several jatropha varieties are progressing well. Certain varieties have already started to bear fruit. The collected seeds will be multiplied in marginal areas of Labranle.

### Bassin Mangnan

For the Bassin Magnan CRDD, twelve planting rows were prepared for onion, eggplant, and tomato demonstration plots. The plots of corn and sorghum were harvested. The yields obtained were 0.6 tons / hectare for sorghum and 0.56 tons per hectare for corn.

## B3.2 Agricultural campaign



In this quarter, the main activities linked to the agricultural campaign in Gonaives included the monitoring of vegetable crops in the hot season (onion, okra, eggplant) ; the implementation of vegetable crops for the winter campaign (peppers, carrots, tomatoes, cabbage) and the monitoring of SRI rice trials in Granmont.



Twelve (12) demonstration plots were implemented for the production of vegetable crops in both the hot and cold seasons:

- 9 onion demonstration lots
- 2 eggplant demonstration plots
- 1 tomato demonstration plot in Granmont



For cereals, two (2) demonstration plots were planted with Monsanto corn and with Pioneer sorghum in Savane désolée.

It is worth noting that with the passage of hurricane Tomas many demonstration plots were devastated by rising waters. This situation engendered delays in the implementation of planted fields for the winter campaign (carrots, cabbage, peppers) due to the flooding of many plots.



For the SRI in Granmont, we are at the harvesting phase. Despite drought conditions due to the siltation of irrigation canals after the passage of hurricane Tomas, the rice farmers are very happy with the performance of the system. Because the SRI demonstration plots are close to the road, many farmers have had the opportunity to visit them and this has created a great deal of enthusiasm for replicating and disseminating the SRI technique throughout the region in the next rice planting season.

### B3.3 Agroforestry

For the second agro-forestry campaign in the Gonaives region, 432,908 tree seedlings were produced including 299,892 fruit trees and 133,316 forest trees (see Table 8). Of this total, 337,686 tree seedlings were transplanted including 228,377 fruit trees and 109,309 forest trees. The main forest tree species transplanted include oak, capable, frêne, acacia, and cedar. For the fruit trees, the main species include avocado, orange, lemon, mango and almond trees. There was a total of 2,601 beneficiaries and an average of 166 tree seedlings per farmer.

**Table 8. Number of tree seedlings transplanted in the Gonaïves region**

	Fruit trees			Forest trees			Beneficiaries
	Transplanted	Remaining	Total	Transplanted	Remaining	Total	
Labranle	185,079	40,670	225,749	104,162	17,920	122,082	1,678
Bassin	43,298	30,845	74,143	5,147	5,787	10,934	923
<b>Total</b>	<b>228,377</b>	<b>71,515</b>	<b>299,892</b>	<b>109,309</b>	<b>23,707</b>	<b>133,016</b>	<b>2,601</b>

### B3.4 Training



A training session on the theoretical and practical use of mechanical harvesters was organized for farmers of the Gonaives plain on December 22nd 2010 at the Tarasse CRDD. A total of ten farmers were trained, including six master farmers. The training session was conducted by technicians from Agro-technique.

In addition, two groups of master farmers were trained on environmental management.

## **B4 CABARET / ARCAHAIE**

### **B4.1 Installation of sustainable rural development centers (CRDDs)**

#### *Setting up of the CRDD management committee*

The management committee for the Cabaret CRDD was set up during this quarter. It is composed of: PRICIEN Joseph A, WINNER representative; GERMAIN Jean Eudes, representative of the land owners; CHARLES Ernst, representative of the local government; DEROSIERS Anderson, representative of ONADEV; and SAINT-SURIN Herby, representative of FEV.

#### *Maintenance of demonstration plots*

In this reporting period, we monitored the demonstration plots of bananas, corn, and okra that were implemented in the last quarter. The yields obtained were 4.8 tons/ha for the DK003 hybrid corn from Monsanto, 5.2 tons/ha for the Pioneer corn, 4.5 Tons/ha for the CESDA 88 variety and 2.9 Tons/Ha for the Tibourik local corn variety. For eggplant, we obtained a yield of 20 Tons/ha and for okra, we had a yield of 6 Tons/ha.

#### *Installation of demonstration plots at the CRDD farm*

In this quarter, we conducted trials of sorghum, tomato, eggplant, and beans at the CRDD. The sorghum planted in the last week of September 2010 almost reached maturity by the end of December. The tomatoes, eggplants and beans were planted in December.

#### *Production of tree seedlings and of vetiver in nurseries*

In this quarter, we maintained 3,105 tree seedlings in bags in the CRDD nursery including 239 mangoes seedlings, 965 corossol seedlings, 238 cherry seedlings, 1100 avocado seedlings and 136 grapefruit seedlings. We also maintained a vetiver plot with 5,000 plants.

### **B4.2 Agricultural campaign**

The winter bean campaign in the cabaret/Arcahaie region started with the mobilization of farmers and local authorities. We then recruited extension agents (REAs) to identify farmer plots that would be included in the campaign. In the region, 21 metric tons of beans were distributed to more than 680 farmers through 3 input supply stores representing 10 associations (see Table 9).

**Table 9. Summary of the winter bean campaign in the Cabaret-Arcahaie region**

<b>Item</b>	<b>Cabaret</b>	<b>Arcahaie</b>	<b>Total</b>
Number of farmers	272	412	684
Area (hectares)	191	313	504
Area plowed mechanically (ha)	33	73	106
Area plowed manually (ha)	158	240	398
Area irrigated (ha)	191	313	504
Number of farmer associations	10	9	19

For the winter bean campaign, six bean demonstration plots were implemented in the Cabaret/Arcahaie region. The objective of these plots is to compare the yields of the imported variety Icta lijero with the « Petit Gôave » local variety and with local varieties from Arcahaie.

### **B4.3 Training**

The WINNER project plans to train about 300 master farmers in the Cabaret/Arcahaie region that should graduate by May 2011. The master farmer candidates are linked to about fifty farmer associations in the region and have been selected based on their aptitude to follow the prescribed curriculum.

The first two basic courses for master farmer certification (management of small farms and basic agricultural concepts) were provided in this reporting period. The courses on environmental management and family planning will be provided in the next quarter. Two hundred twenty (220) master farmer candidates were trained on the management of small farms and started training on basic agricultural concepts. As far as specialization courses are concerned, about sixty candidates received training on the cultivation of pulses and cereals.

## **B5 MIREBALAIS / SAUT D'EAU**

### **B5.1 Installation of sustainable rural development centers (CRDDs)**

In this quarter, we signed a contract for the installation of a water system at the Wanny CRDD for the Mirebalais/Saut d'Eau region. We also held meetings with farmers in the Wanny area, particularly the APDW farmer association, members of the CRDD management committee and the owners of the land on which the CRDD resides.

It is important to note that the works that will be implemented are a continuation of work started by the Ministry of Agriculture under the PICVII program (Projet d'Intensification de cultures Vivrières-Phase II). This included the provision of a pump to the Wanny community and the construction of 600 meters of masonry irrigation canals. However,

this project did not allow the farmers to irrigate their plots because the system is incomplete. Thus, WINNER will complete the system and make it operational. This project will include:

- The construction of an water storage basin;
- The construction of a water collection canal;
- The construction of a support for the pump in reinforced concrete; and
- The construction of irrigation canals for the Wanny CRDD.

This project will allow for the irrigation of about 30 hectares for the benefit of more than 50 farmers.

We also completed the first draft of the CRDD management plan, and we put in place measures for the functioning of the management committee for the farm.

## B5.2 Agricultural campaign

### *Demonstration plots*

For the 2010 winter bean campaign in the Mirebalais/Saut d'Eau region, 9 demonstration plots were installed on two hectares in order to demonstrate the best planting techniques generating the highest yields to farmers.

Three rice demonstration plots were also implemented to show farmers the SRI system. The rice farmers of the region were very satisfied with SRI after comparing the yields obtained with this technique with the yields using traditional methods.

### *Winter bean campaign*

The winter bean campaign in the Mirebalais/Saut d'Eau region was launched at the end of October 2010. We recruited and trained extension agents. A total of eight extension agents were used for the winter campaign in the region.

For this campaign, WINNER assisted the farmers with soil preparation through two private service providers. A total of 28 hectares were plowed mechanically for the benefit of 58 farmers who paid half of the plowing cost. However, the demand for plowing services was greater than the local availability of plowing services. This further confirms that, in the long run, it would be useful for farmer input supply stores to provide mechanized plowing services for farmers if they can obtain credit to purchase a tractor.

Seven out of the ten farmer input stores (BIAs) in the region participated in the winter bean campaign and received seeds and pesticides from WINNER. The extension agents assisted farmers with soil preparation and planting. Table 10 shows that 629 hectares of beans were planted in the Mirebalais/Saut d'Eau region by 1,272 farmers.

**Table 10. Summary of the 2010 winter bean campaign in the Mirebalais/Saut d'Eau region**

Commune	Section	Input supply stores	# of de REAs	# of hectares	# of Hectares plowed	# of hectares irrigated	# of farmers assisted	Nbre associations encadrées
Mirebalais	Sarasin	ASPCM	2	298	11.68	250	572	20
	Gascogne	COPAM	2	165.7	15.9	200	336	16
	<b>Total</b>	<b>2</b>	<b>4</b>	<b>463.7</b>	<b>27.58</b>	<b>450</b>	<b>908</b>	<b>36</b>
Saut d'Eau	Haut La Selle	COTAH, KOPLA	1	1.32	0	15	13	1
	Bas Coupe Madigras	RPG	1	63.37	0	80	156	18
	Rivière Canot	MOPLADE S	1	0.53	0	15	2	2
	Haut Coupe Madigras	MFDKM	1	100.13	0	60	193	9
	<b>Total</b>	<b>5</b>	<b>4</b>	<b>165.35</b>	<b>0</b>	<b>170</b>	<b>364</b>	<b>30</b>
	<b>Grand Total</b>	<b>7</b>	<b>8</b>	<b>629.05</b>	<b>27.58</b>	<b>620</b>	<b>1272</b>	<b>66</b>

### B5.3 Agro-forestry

As of the end of December 2010, a total of 400,797 tree seedlings from 24 nurseries established by WINNER in the second agro-forestry campaign were transplanted in the Mirebalais/Saut d'Eau region on approximately 2,155 hectares for the benefit of 2,515 farmers. However, another 100,000 tree seedlings ready to be transplanted were still in nurseries at the end of the reporting period. We are working with farmer associations to send these trees to other regions.

### B5.4 Training

In the Mirebalais/Saut d'Eau region, a total of 330 farmers are following training courses to be certified as master farmers. Training courses started on November 22<sup>nd</sup> for two basic courses: General agriculture and management of small farms. A total of 294 farmers (89% of the total), including 123 women (41.8%) attended the course on basic agriculture. A total of 186 farmers, including 116 women (40.5%) attended the course on small farms management.

## C. INFRASTRUCTURE

In this section, we present the activities related to the infrastructure component of WINNER undertaken in this reporting period in all zones of intervention. The activities are presented by Key Result Area (KRA).

### Establish structures that strategically stabilize hillsides and control floods in plains

#### Implementation of the Vetiver System



The vetiver system was used extensively by the project in this reporting period.

#### Installation of vetiver nurseries

WINNER installed vetiver nurseries in all its areas of intervention in order to produce vetiver plants for all of the project's soil conservation and infrastructure maintenance activities. The following vetiver nurseries were implemented:



- In Croix des Bouquets/Bas-Boën, 15,000 plants of vetiver were produced at the CRDD this quarter. Overall 35,000 vetiver plants have been produced as of December 2010.
- In Kenscoff/Duvier, 45,000 vetiver plants were planted at the Wynn farm, producing a 50% increase this quarter. Overall, 67,500 vetiver plants are now available at the Kenscoff CRDD.
- In Cabaret/Archaie, 16,000 vetiver plants were produced at the CRDD.

- In Mirebalais/Saut-d'Eau, 15,000 vetiver plants were planted at the Wanny CRDD, producing 35,000 plants through the multiplication program.
- In Gonaïves, 40,000 vetiver plants were produced at the Tarasse CRDD.

#### Biological stabilization using vetiver



- **Gonaïves/La Quinte**

Vetiver was used to stabilize the banks of the La Quinte river that was widened by WINNER for flood protection. Overall, 1.85 kilometers of banks on both sides of the La Quinte river were

planted with vetiver. Overall 17,000 meters of vetiver were planted, representing 170,000 plants.

### **Training on the vetiver system**

In the context of the training provided to master farmers by WINNER, a training session on the theory and practice of the vetiver system was provided in the Chacha locality of 1st Belle Fontaine for farmers of the area. Overall, 75 people attended this training over two days.

## **C1 CUL-DE-SAC WATERSHED (KENS COFF / PÉTION-VILLE)**

### **C1.1 Water collection and distribution systems**



In this quarter, we completed the construction of four (4) rainwater collection tanks in Mahotiere, Despinasse, Comnette, and Bois Neuf ; and of two (2) spring water catchments at the Sambou and Bernard springs in Dumisseau, in the Bellevue la Montagne Communal Section of Kenscoff. This system will provide potable water to 25,000 people. These works began in August 2010 and are financed by WINNER through a grant to MONAJEP. As of the end of December 2010, the work 90 % completed.

### **C1.2 Construction of a fish pond at the Kenscoff CRDD**



This quarter, we constructed a fish pond at the Kenscoff CRDD. This pond has a surface area of 482 m<sup>2</sup>, a maximum depth of 2 meters and will receive water from the water catchment of the CRDD as well as from rainwater. The construction of the fish pond generated 3000 man days of work.

The pond is very important for WINNER as it will help promote the development of aquaculture in the Kenscoff region.

### **C1.3 Treatment of ravines**



In this reporting period, we continued with ravine treatment activities in the Kenscoff/Pétion-Ville region

In the areas of Première and Deuxième Belle Fontaine, three soil conservation and ravine treatment projects were implemented: the treatment of « Gran Ravin », « Gran Plas » and « ravin Zeb Ginen ». Through these projects, a total of 10.8 kilometers of ravines were treated and 60 hectares of watershed were stabilized through intercropping and the plantation of veiver hedge rows following contour lines.

These projects generated nearly 40,000 man days of work in this area.

## **C2 CUL-DE-SAC WATERSHED (CUL DE SAC PLAIN)**

### **C2.1 Flood Protection Work on the Rivière Grise**

The reprofiling of the Rivier Grise seeks to protect the people living on the banks of the river, as well as agricultural lands situated between the Tabarre bridge and the road 9 bridge from flooding. The works include the widening of the river in zones where it is narrow and the reinforcement of banks through the installation of gabions and by planting vegetation in critical points.



In order to protect the works that have been completed, WINNER held a working meeting with representatives from the Bureau des Mines et de l'Énergie (responsible for the regulation of silt and sand mining in the river bed), technicians from the Inter-ministerial commission on land use planning, regional directors from the Ministry of Environment and the Ministry of Agriculture, the mayors of Croix-des-Bouquets and of Tabarre, and representatives from the main engineering firms exploiting sand

and silt in the downstream area of the river. The objective of this meeting was to take measures for the rational use of the river's sediments from areas where the impacts on the river flow and the river channel will be beneficial rather than detrimental, with the view of protecting the river bed and the river banks. At the meeting, it was agreed that WINNER would finance a technical and financial feasibility study with the Bureau of Mines and Energy to determine the best way to extract sediments from the river, and that, in the meantime, the Ministries would issue a communiqué to stop certain detrimental practices, in particular those that disrupt the river banks and compromise the investments made in gabions and flood protection between the Edy-One area and the Croix-des-Missions bridge.

## C2.2 Maintenance of the Rivière Grise irrigation system



In this quarter, we rehabilitated a section of the main canal of the rivière Grise irrigation system as well as two small bridges over the canal that were damaged in the storm of September 24<sup>th</sup> 2010.

## C3 GONAIVES WATERSHED

### C3.1 Reprofiling of the la Quinte river



In order to reduce flooding risk and protect the population of Gonaïves, the WINNER project has implemented the reprofiling and drainage of the La Quinte river over 1.6 kilometers downstream from the Gaudin bridge. The flood protection works were studied and dimensions to accommodate a peak flow of 500 m<sup>3</sup>/s. The works also included the rehabilitation of water intake points on the banks of the river for the irrigation system. The work implemented by WINNER is in complement to flood protection work already completed by the

CNE upstream. The reprofiling of the La Quinte river was completed during this reporting period. The width of the river was widened from 12 meters to 40 meters and all the water intake points were rehabilitated. The Grammont intake was also widened from 20 meters to 40 meters.

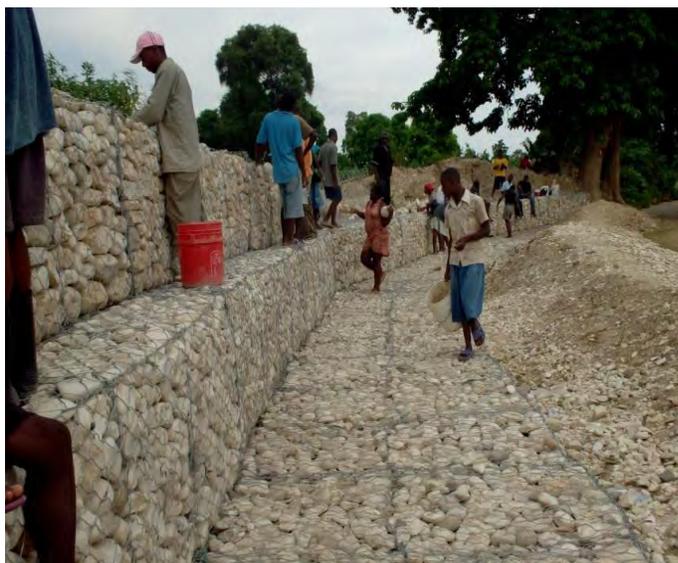
## C3.2 Drainage of Biennac



In order to enhance the flood protection of Gonaïves, WINNER also cured the Biennac drain over seven (7) kilometers from the Saint Cyr bridge to the Dolant bridge. This work was completed in the reporting period.

## C4 CABARET / ARCAHAIE

### C4.1 Ravine treatment with the Ministry of Environment



For the Cabaret/Arcahaie region, three projects to repair the banks of rivers were implemented in a joint effort with the Ministry of Environment. This includes flood protection works on the Courjolle river to protect the town of Arcahaie ; and bank strengthening of the Torcelle and Manègue rivers to protect the town of Cabaret. A total of 2.940 m<sup>3</sup> of gabions were installed on the banks of these rivers on a length of 447 meters. These works generated 5,880 man days of work in the region. These works began in June 2010. As of the end of

December 2010, the works on the Torcelle river and the Manègue ravine were completed; and the work on the Courjolle river was 90% completed. However, field inspections by USAID and WINNER engineers, determined that additional work will have to be undertaken to make the bank stabilization work fully protective of people and land. Thus, it is expected that complementary work will be done. It is also worth noting that the passage of hurricane Tomas caused delays in the completion of these projects.

## **D. GOVERNANCE**

### **D1 CUL-DE-SAC WATERSHED (KENS COFF / PÉTION-VILLE)**

#### **D1.1 Reactivation of the environmental surveillance corps of the Ministry of Environment**

In this reporting period, WINNER engaged with the Ministry of Environment for the reactivation of an environmental surveillance corps to ensure the preservation of the Parc La Visite, one of the major areas of biodiversity in Haiti. A proposal for the operational functioning of the surveillance corps was submitted to the Ministry in mid-September 2010. The proposal was finally validated on January 10th 2011.

#### **D1.2 Cul-de-Sac watershed management plan**

In this reporting period, we made progress in the preparation of the watershed management plan for the Cul-de-Sac watershed. This initiative, undertaken jointly with the CIAT seeks to prepare an operational plan for the proper land use management of the watershed. This work builds on the work begun earlier in the year with the assistance of international technical experts from Chemonics subcontractors CH2MHill and RPI. We now have detailed GIS maps of the current land use in the watershed based on recent satellite images. The watershed management plan will identify strategies to reduce watershed degradation, reduce vulnerability to natural disasters, restore the watershed environment, promote good governance, provide economic opportunities and spur sustainable development, and foster sustainable watershed management. Key sections of the plan were written in this quarter and the CIAT is actively contributing on issues such as urban planning, solid waste management and governance.

#### **D1.3 Preparation of application decrees to the framework law on environment**

In this reporting period, we engaged an expert in public law to start drafting application decrees emanating from the framework environmental law of 2005. The legal expert identify which legal instruments should be used to address different sections of the framework law and started to prioritize the application decrees to be drafted based on their importance for preserving natural resources in watersheds and on priorities expressed by the Haitian Ministry of Environment. We expect several key decrees to be drafted in the next quarter.

#### **D1.4 Setting-up of the Rivière Grise irrigation system water-user association**

In this reporting period, we completed setting-up the Rivière Grise irrigation system management committee. The overall committee includes 42 farm committees, 4 irrigation

sector committees, and an executive committee. We have also begun the process of providing capacity building for the various committees.

In general, the role of the committees is to mobilize water users to ensure the management and the sustainable maintenance of the irrigation system at the farm level. Specifically:

The farm committees will:

1. Maintain secondary canals.
2. Participate in the collection of fees.
3. Incite farmers to pay water use fees.
4. Ensure the role of a water police at the farm level.
5. Monitor the proper respect of water turns at the farm level.

The irrigation sector committees will:

1. Ensure the maintenance of primary canals.
2. Support the farm committees with the collection of fees.
3. Participate in the management of conflicts.

The executive committee will:

1. Represent the farmers.
2. Ensure the proper technical and financial management of the irrigation system.
3. Ensure the management of fees.
4. Maintain the head of the canal and the water intake dam.
5. Share the contents of all legal documents to water users.
6. Ensure the coordination of all activities of the water users association for its proper functioning.

An annual program of activities will be presented by the water users association to the WINNER project with a grant support request. This will allow the association to ensure the proper management of the system.

## **D2 GONAIVES WATERSHED**

### **D2.1 Flood early warning system**

In this reporting period, we completed the installation of a flood early warning system in Gonaïves by providing equipment to the Civil Protection Committee that was set up upon the preparation of the disaster contingency plan. The components of the system include rain gauges, sirens, and materials for flood monitors (boots, raincoats, telephones, pocket lamps, and helmets). We also provided training to the flood monitors on the use of the equipment and the cascade communication system in the event of heightened flood risk.

The early warning system in Gonaïves was activated in preparation for hurricane Tomas. The population was alerted on time and evacuation measures were implemented effectively.

The Civil Protection Committee also started collecting rainfall data using the rain gauges provided by WINNER. Data collected indicate that the La Quinte watershed received 161.75 mm of rainfall during hurricane Tomas including:

- 50 mm registered at Ennery ;
- 161 mm registered at Poteau ; and
- 130 mm registered at chemin neuf .

The contingency plan for Gonaïves that had been prepared with the support of WINNER was also activated during the passage of hurricane Tomas. Specific steps taken included:

- **Transmission of timely information to the public**
  - a. Dissemination of information through radio stations in Gonaïves,
  - b. Messages to prepare for evacuation after warning from sirens
- Evacuation of 2000 vulnerable people to pre-positioned temporary shelters.
- Assistance to people included:
  - a. Evacuation of populations in the flood plain to schools and churches
  - b. Technical support for the evacuation of people to the Gonaïves communal committee and to the local civil protection committees (Komite Local Proteksyon Sivil) in Labranle, Poteau, Bayonnais, Passe-Reine, and Bassin Magnan.
  - c. Distribution of food (sardines, oil) to people moved to temporary shelters in Gonaïves.
  - d.

## **D3 MIREBALAIS / SAUT D'EAU**

### **D3.1 Support to Communes**

In this quarter, WINNER installed internet connections in the mayoral offices of Mirebalais and Saut d'Eau following the signature of Memoranda of Understanding (MOUs) with the Communes, and the provision of office equipment (computers, printer, desks and chairs). In the next quarter, WINNER will provide training to the communes on management and data collection and reporting.

### **D3.2 Support to Community-Bases Associations**

In this quarter, we launched the « Winning Associations » (Associations Championnes) initiative to provide incentives to community-based groups to adopt principles of sound environmental management. We held five meetings with 104 associations to provide information and raise awareness on this initiative. The associations were enthusiastic about participating, but they insisted that their commitment to reduce pressure on natural

resources has to be paired with increased economic opportunities, since wood cutting remains one of the key sources of revenues.

## **E. PUBLIC-PRIVATE-PRODUCER PARTNERSHIPS (PPPP)**

Table 11 provides a summary of the status of PPP activities. Overall, we have disbursed to date \$578,373 for PPP activities and there is a pipeline of over \$3 million for grants and subcontracts that are already in place or that are expected to start shortly.

### **E1. Poultry Value Chain**

Part of the emergency food production program devised following the January 12th 2010 earthquake included the expansion of local egg production by small farmers using modern techniques.

WINNER opted for expanding the use of the CAD decentralized egg production system to 3,000 chicken coops in its five areas of intervention. In this reporting period, we identified farmer associations in Gonaïves, Mirebalais and the Cul-de-sac plain that will participate in the egg-production program. These associations represent 600 beneficiaries that will receive chicken coops containing 60 egg-laying hens each.

WINNER will subsidize 65% of the cost of the chicken coops and hens, with a 30% contribution from the manufacturer MFT and a 5% cost-share by the farmers themselves.

### **E2. Mango value chain**

#### **E2.1 AGRITEC**

Following the MOU signed late August with AGRITEC, a consultant was contracted at the end of November to develop a business plan for the implementation of a mango pulping unit in Mirebalais.

Based on the results of the study that will be finalized in January, we will determine whether to move forward with this project.

#### **E2.2 Technoserve**

In this quarter, Technoserve and WINNER finalized the agreement to fund part of the Hope program on the development of the mango value chain in the Mirebalais region through a WINNER grant. The grant proposal needs to be approved by USAID.

**Table 11 Summary of Progress to Date on WINNER Public-Private-Producer Partnerships**

Value chain	Private sector partner	Farmer associations	Status	Amount disbursed to date	Pipeline
<b>In process</b>					
Poultry value chain	MFT	Gonaïves (#250 individuals) Mirebalais (#150) Cul-de-Sac (#100) Cabaret (#50) Kenscoff (#50)	Two grants Subcontract	\$467,000.00	\$354,000.00
Sugar cane value chain	Barbancourt	Cul-de-Sac (#4 associations, 2 groups + 40 planters)	Subcontract	\$69,373.38	\$47,000.00
	Agritec	Mirebalais (#200 planteurs)	Subcontract		\$165,146.00
Jathropha value chain	Biocarburants Haïti	Cul-de-Sac (#1 association) Gonaïves	Technical studies	\$42,000.00	\$50,000.00
<b>TOTAL</b>				<b>\$578,373</b>	<b>\$566,146</b>
<b>Upcoming</b>					
Mango value chain	Agritec	Mirebalais (#TBD)	Grant application	\$0	\$250,000.00
	Technoserve	Mirebalais/ Saut d'Eau	Grant application	\$0	\$1million
	Carifresh	Cabaret/Arcahaie (#2 associations)	Grant application		\$155,000.00
	DFSA	L'association ADAIM			\$150,000.00
Tomato value chain	SONAPA	Cul-de-Sac (#TBD)	Technical studies	\$0	\$350,000.00
	SHAISA		RFP for drip irrigation		\$250,000.00
Fresh cut flowers	Private flower sellers	Kenscoff – l'association APFCK	Technical studies Market survey Trials at CRDD	\$0	\$43,813.00

<b>Value chain</b>	<b>Private sector partner</b>	<b>Farmer associations</b>	<b>Status</b>	<b>Amount disbursed to date</b>	<b>Pipeline</b>
Corn value chain	GIKEN	Cul-de-Sac (# 19 associations)	One in-kind grant	\$0	\$212,000.00
Coffee value chain	REBO Geo Wiener SA - (GWSA)	FGPB (Belle Fontaine)	Coffee plants donated REBO and GWSA Nurseries established Grants to farmer associations in process	\$0	\$107,391.00
<b>TOTAL</b>				\$0	\$2,518,204

### **E3. Tomato value chain**

In the month of August 2010, SHAISA introduced WINNER to the SONAPA firm with which it collaborates. SONAPA would like to provide tomatoes for SHAISA's processing plant that produces tomato paste. In order to produce the quantities and types of tomatoes needed by SHAISA, SONAPA needs to install a drip irrigation system that would rationalize the use of water on its lands in the Cul-de-Sac plain. In October, SONAPA presented a request to WINNER for the financing of the drip irrigation system. In this reporting period, WINNER prepared the technical specifications and RFP for the drip irrigation system with the assistance of University of Florida irrigation expert Brian Bowman. The RFP was issued in December 2010 and we expect to select the implementing firm in January 2011. The work to install a drip irrigation system for the production of tomatoes in the Cul-de-Sac plain is expected to start in the next quarter.

### **E4. Jatropha vaule chain**

This project includes the plantation of 50 hectares of jatropha in the Cul-de-Sac plain and in Cabaret for the production of biodiesel. WINNER staff conducted field visits in October and observed that the jatropha plants in the Cul-de-Sac are already bearing fruit and that a nursery was installed in Cabaret for the production of 40,000 jatropha plants that will be planted on 15 hectares beginning in January 2011.

In this quarter, Biocarburants Haiti produced 50% of the plants that had been planned and about 7,000 jatropha plants were planted on 5 hectares of land.



### **E5. Flower Production in Kenscoff**

In this quarter, WINNER made significant progress in the development of the fresh cut flowers value chain in Kenscoff. First, the flower trials at the Kenscoff CRDD were completed and the quality of the flowers impressed flower growers and sellers alike. Secondly, the flower sellers of the Port-au-Prince area established business relationships with the Association des



Planteurs de Fleurs de Kenscoff (APFK), which was recently created with the assistance of WINNER.

Following their visit of the CRDD, the flower sellers have expressed their strong interest in increasing their purchases of fresh cut flowers from the Kenscoff region as the flower production increases. WINNER conducted a detailed study of the fresh cut flowers value chain to understand the actors in the value chain, the importance of local production vs, imports, the various price points, and the potential local demand from fresh cut flowers from Kenscoff. The study reached the following conclusions: (1) there is a deficit of local supply of fresh cut flowers, (2) the sector is primarily informal and not well structured, (3) there are only a few major flower sellers concentrated in Pétion-Ville.

## **E7. CCAA Conference in Miami**

Haiti was one of the key participating countries at the 34th Conference on the Caribbean & Central America (CCCA) due to the January 12th earthquake, the recent cholera outbreak, and the organization of elections in November. The following objectives were identified for the conference:

- Collaboration with the Haitian private sector and opportunities for networking;
- Promote discussion between business leaders from North America, Central America, and the Caribbean ;
- Discuss economic opportunities for the reconstruction of Haiti following the earthquake and develop a unified approach for the reconstruction of Haitian infrastructure and for building the capacity to provide essential jobs.

WINNER financed the participation of 12 members of the Haitian business leaders including private sector entrepreneurs, representatives from the Chamber of Commerce, and business professors. The conference was held in Miami from December 1<sup>st</sup> to 3<sup>rd</sup>. The attendees appreciated the roundtable discussions, the choice of panelists, and the messages delivered.

Haitian businessmen made interesting contacts with entrepreneurs and companies from other countries and identified business opportunities. The Haitian participants also developed personal bonds and shared common issues concerning developing business in Haiti. A specific example of such an exchange was the identification of an opportunity for MFT and Biocarburants d'Haiti S.A. to work together on a plant to produce biodiesel from jatropha. Another contact was made between VIDRO TRADING and the representative from the SOL group for a project to distribute pressurized kerosene stoves in the SOL gas stations.

## F. RECOVERY PROGRAM

### F1. Small Business Recovery Initiative (SBRI)

The purpose of the small business recovery initiative (SBRI) is to assist small and medium enterprises damaged in the January 12<sup>th</sup> earthquake to restart their operations. Through this program, WINNER provides in-kind grants to selected businesses. Eligible businesses are those operating in the agriculture, agribusiness, or alternative energy sectors and located in WINNER areas of intervention. The grants provided by WINNER are leveraged by loans from financial institutions participating in the program, Table 12 presents the grants approved in the SBRI program.

**Table 11. Grants approved in the SBRI program**

Company name	Activity	Objectives of the grant	Value of the grant	Status	Financial partners
Magic Ice	Producer of potable water and ice	Purchase of a 350kW generator	\$60,000	Completed	Sofihdes
Boulangerie le Nil	Bakery	a. A propane gas stove GPL b. A 20 kW generator c. Installation of equipment	\$53,000	The stoves have arrived in Haiti and are awaiting customs clearance	Sogefac
Boulangerie Millenium	Bakery	a. A propane gas stove b. A 20 kW generator c. Installation of equipment	\$53,000	The stoves have arrived in Haiti and are awaiting customs clearance	Sogefac
Precision Injection Shop	Mechanical shop specialized in Diesel engines	Different equipment for calibration n tests	\$50,000	The equipment has been ordered	FDI

Three other businesses are being considered including a bakery, a distillery and a fertilizer factory. In addition, about twenty food distribution stores have applied for assistance under the SBRI program. The Grameen Bank, who is scheduled to start operating in Haiti in January 2011 has expressed an interest in co-financing projects in the SBRI program.

### F2. Work for Recovery

In this quarter, the Work for Recovery program included the curing of irrigation and drainage canals in the Cul-de-Sac plain. The summary of these activities is presented in Table 13.

The drainage of the agricultural canal of Boucan Bou was completed as part of the Work for Recovery program, This canal had not been maintained since work was done six years ago by TECINA S. A., and was full of weeds and sediments, resulting in a reduction in water flow and in the inundation of agricultural land. This situation also increased the salinity of the land, thus reducing its agricultural potential. The curing work was done manually with many teams of occasional labor managed by supervisors, which were in turn directed by a project engineer.

**Table 12. Summary of projects implemented through the Work for Recovery program between October and December 2010**

Region	Zone	Activity	Quantity	Period	Man days	Cost HTG
Cul-de-Sac	Noailles	Curing of irrigation canals	36,000 m/l	1-23 OCT	5,184	1,159,000
C-de-Sac	Kenscoff	Collection of solid waste	7,944 m <sup>3</sup>	1-15 OCT	60	478,500
C-de-Sac	Kenscoff	Drainage of urban canals Cleaning of the Villiers ravine	1,900 m/l + Cleaning of the Villiers ravine	8-31 OCT	5,160	1,272,600
C-de-Sac	Thomazeau	Clearing, curing and widening of drainage canals	4,500 m/l	27 OCT-1st DEC	5,172	1,449,400

## G. PROJECT LEVEL ACTIVITIES

### G1. Promote alternative Energies

#### G1.1 Conversion of Dry Cleaners and Bakeries from Wood Charcoal to Light Propane Gas (LPG)

In support of its agro-forestry campaign in its different zones of intervention, WINNER intervenes to reduce the consumption of wood charcoal, which is one of the leading causes of deforestation in Haiti. Among the biggest users of wood charcoal are dry cleaners and bakeries. Thus, WINNER has targeted these businesses for conversion from the use of wood charcoal to light propane gas (LPG). We launched a request for expressions of interest for bakeries and dry cleaners to apply for grants through WINNER for the purchase of LPG-run equipment. Through this initiative, WINNER will provide technical and financial assistance to bakeries and dry cleaners so that they can convert from using wood charcoal to using LPG as a fuel source for their machines.

In this reporting period, three expressions of interest were received by WINNER. One was transferred to the SBRI program because it involved a bakery that has been affected by the earthquake. The two other requests for funding came from dry cleaners and are currently being evaluated by WINNER staff. We plan to launch a second appeal for

expressions of interest in the next quarter in order to increase the pool of companies that could benefit from this program.

### **G1.2 Training for Manufacturers of LPG Stoves**

Following the success of the pilot program to provide LPG stoves to street food vendors, WINNER launched a program to teach metal artisans the techniques to manufacture LPG fueled cookstoves in Haiti. The study on the impact of the pilot project revealed that there is a great demand from street food vendors for LPG cookstoves, but that the main obstacle remains the cost of the cookstoves and of the LPG start-up kit. One of the primary reason for the elevated cost of the stoves is that they are mostly imported. Thus, there are opportunities for local manufacturers of LPG cookstoves to tap into a ready market. Locally produced LPG cookstoves for street food vendors are half the price of imported ones (\$525 vs, \$1,500). After the training, WINNER plans to implement a program to provide technical and financial assistance to entrepreneurs willing to launch businesses to manufacture LPG cookstoves for the local market.

### **G1.3 Participation in the LPG Promotion Group of the Haitian Government**

WINNER actively participated in the group for the promotion of the use of LPG set up by the Haitian government. At the end of December 2010, the group was finalizing its report to the government with recommendations on how to promote the conversion of the use of biomass to LPG as an energy source. The report analyses all aspects of the issue including the establishment of laws and regulations, the safety rules and measures for distributors and users, and financing of the conversion.

### **G1.4 Solar Panels**

This program is to strengthen the capacity of farmer associations in WINNER's areas of intervention by providing them with energy through the installation of solar panels. WINNER launched a request for quotes and expressions of interest for companies that could provide and install solar panels. After a bidding process, the company RAYMAG SA was selected. The program was implemented this quarter for the benefit of 25 farmer associations in WINNER's zones of intervention. The solar panel kits include:

- Electrical outlets for the recharge of cell phones;
- The capacity to operate equipment such as small refrigerators, computers, printers, televisions and DVD players;
- Interior and exterior lamps of a maximum of 15 watts.

We created management committees for the management of the solar panel systems comprised of 5 members in each beneficiary association. The uses of the solar panel systems which can be paying include:



the solar panel system.

- The charging of cell phones, laptops, and electronic equipment
- Lighting for students in the evening (6PM - 8PM)
- Projection of films
- Sale of connection minutes to the use of computer equipment
- Sale of veterinary and agricultural products that require refrigeration
- Other revenue generating activities that require the use of power and that do not exceed the capacity of

The cost of the solar panel system per association is approximately 370,000 gourdes. The system will require annual maintenance fees of 15,000 gourdes and recurring monthly maintenance fees of 200 gourdes. Each association will be able to raise the fees required for maintenance of the system by charging for the services mentioned above. The monthly revenues required are at least 7,500 gourdes or about 250 gourdes per day. It must be noted that the provision of solar panels as a source of energy for farmer associations has implications far beyond the financial revenues. Access to energy enables the professionalization of these associations through the use of information technology; it also provides opportunities for running small post-harvest and processing machinery; and for the refrigeration of certain products and inputs. These opportunities result in productivity and efficiency gains, as well as in the reduction of post-harvest losses that positively impact farmer incomes. While these gains cannot be accurately measured at this time, they should be added to strict financial returns in evaluating the profitability of investing in solar panel. Worldwide experience in rural electrification shows that these investments are largely justified in the long run.



## **G2. Installation of a seismic monitoring station**

In order to provide a seismic monitoring system for Haiti, WINNER purchased five seismic measuring devices for the Bureau of Mines and Energy (BME). The official transfer of the seismometers took place in November 2010. It is the first time that the BME has its own seismometers. In addition, WINNER co-sponsored the training in December 2010 of two high-level staff of the BME on the use of the seismometers and the associated software at a USGS facility in California.

## H. COMMUNICATIONS

This quarter, WINNER continued to have an active communications program including the production of success stories, videos, and radio programs. The success stories produced this quarter concerned:

- Activities at the Kenscoff CRDD;
- The flood early warning system installed in Gonaïves; and
- The seismic monitoring equipment donated by USAID to the Bureau of Mines and Energy.

Various WINNER activities were also the subject of good media coverage, where we received positive mentions with key messages being:

1. WINNER is an concrete instrument of US government support of GoH activities via USAID
2. WINNER delivers on promise, concrete and sustainable results.

In the category of high profile events we should mention:

### **Announcement of the spring campaign results in Kenscoff CRDD**

Journalists from various media were taken into a tour of our CRDD in Kenscoff .There, the visiting USAID Assistant Administrator for Latin America and the Caribbean Mark Feierstein announced the great increase in harvest by farmers supported by the project. Farmers themselves testified to journalists of the better profits relayed in 4 major radio stations and in the most prominent newspaper (le Nouvelliste, this activity was also the topic of a US government press release:

**Haitian Farmers Increase Agriculture Productivity through Support of U.S. Government.** <http://www.usaid.gov/press/releases/2010/pr101019.html>

### **Donation of Seismic monitoring material**

This donation also received good press, where we highlighted the USAID approach of empowering GoH. We also received good press and conveyed the teamwork effort and the collaboration of USGS in execution. This initiative and its coverage was also a success. The mission produced a press release about the event :

<http://haiti.usembassy.gov/press-releases-2012/u.s.-government-funds-haitis-first-seismic-surveillance-station>



Most aspects of our activities have also been explained and discussed with our beneficiaries and partners on a weekly basis thanks to our radio shows in Signal FM which is also relayed in the Mirebalais and Gonaïves area. We also received good mentions for several initiatives in various media and the

project is receiving increasing requests for interviews or site visits on various aspects of our works

We were also very pleased to learn that a picture from the WINNER project was the overall winner of USAID Frontlines worldwide photo contest. The picture (shown below) was taken by Kendra Helmer of USAID and shows John Atis, WINNER's Kenscoff CRDD Director among a field of cabbage at the Kenscoff CRDD. The photo was selected among forty entries from around the world.

## **I. MONITORING AND EVALUATION**

Table 14 below provides a summary of progress towards key indicators in this reporting period.

**Table 14 Summary of Progress on Key Indicators  
First Quarter of Fiscal Year 2011 (October – December 2010)**

Ind #	Description	Progress up to 4 <sup>th</sup> quarter FY 2010	Progress in 1 <sup>st</sup> quarter FY 2011	FY 11 Actual	FY 11 Target	LOP Target	Remarks
2	Number of vulnerable households benefiting directly from WINNER assistance	50,810	20,681	20,681	60,000	160,000	Households benefitting from flood protection work on the Torcelle and Courjolle rivers and the Manegue ravine in Cabaret-Arcahaie; households benefitting from potable water rehabilitation work in Duvier; sugar cane farmers in the Cul-de-Sac plain benefitting from WINNER technical and financial assistance; farmers receiving assistance from WINNER for the Fall agricultural campaign in Kenscoff and the winter bean campaign in WINNER areas.
F-4.5.2.8	Number of rural households benefiting directly from USG assistance	49,196	10,681	10,681	35,000	60,000	Households benefitting from the rehabilitation of the potable water system in Duvier; sugar cane farmers in the Cul-de-Sac plain benefitting from WINNER technical and financial assistance; farmers receiving assistance from WINNER for the Fall agricultural campaign in Kenscoff and the winter bean campaign in WINNER areas.
F-4.8.1.4	Number of people with increased economic benefits derived from sustainable natural resource management and conservation as a result of USG assistance	3,766	436	436	20,000	100,000	Number of workers on the flood protection works of the Torcelle and Courjolle rivers and the Manegue ravine in Cabaret-Arcahaie, and the rehabilitation of the potable water system in Duvier.
F-4.5.2.5	Number of additional hectares under improved technologies or management practices as a result of USG assistance	8,824	2,866	2,866	20,000	50,000	Number of hectares in which WINNER provided technical assistance and inputs during the winter bean campaign and the fall agricultural campaign.
F-4.5.2.12	Number of individuals who have received USG supported short term agricultural sector productivity training	60	24	24	2,500	7,000	Number of graduated master farmer candidates receiving training in agricultural techniques including basic courses (general agriculture, environment small farm management), and specialized courses (cereals, vegetables, soil conservation). However, over 2,000 farmers have received some training, but have not yet graduated.
4	Number of farmers adopting new improved practices as a result of WINNER assistance	12,076	3,481	3,481	10,000	27,000	Supervised farmers applying techniques for the cultivation of beans during the winter bean campaign (2,445) and the fall agricultural campaign in Kenscoff (1,036).
5	Number of farmer stores created or strengthened as a result of WINNER assistance	37	0	0	15	35	Number of farmer stores supported by WINNER involved in the agricultural campaign in Cul-de-Sac, Kenscoff, Mirebalais, Cabaret-Arcahaie, and Gonaives (11 for the winter bean campaign and 37 for the spring agricultural campaign)
6	Number of households involved in nonfarm activities attributable to WINNER	2,611	0	0	800	2,000	Number of households involved in the rehabilitation of the potable water system in basin Mangnan, treatment of ravines in Belle Fontaine, Kenscoff road (First Quarter FY 2010), dredging

Ind #	Description	Progress up to 4 <sup>th</sup> quarter FY 2010	Progress in 1 <sup>st</sup> quarter FY 2011	FY 11 Actual	FY 11 Target	LOP Target	Remarks
							of D7, treatment of ravines (second quarter FY 2010), treatment of ravines in Kenscoff and Gonaives (third quarter FY 2010), reprofiling of riviere Grise (fourth quarter FY 2010).
F-4.5.2.9	Number of producer organizations, water-user associations, trade and business associations, community-based organizations (CBOs) receiving USG assistance	275	2	0	40	120	This quarter: creation of Cul-de-Sac federation of water users and trade association attending the CCCA conference. Associations involved in the spring agricultural campaign (289), the first agro-forestry campaign (15), and the second agro-forestry campaign (114). These associations also include those involved in ravine treatment.
7	Annual yield increase for selected crops as a result of WINNER assistance	132% for beans; 30% for leeks; 11% for carrots; 3% for tomatoes; and 66% for cabbage			20%	100%	132% annual yield increase for red beans (1.39 t/ha vs. baseline 0.6 t/ha); 30% annual yield increase for leeks (1.95 t/ha vs. baseline 1.5 t/ha); 11% annual yield increase for carrots (4.99 t/ha vs. baseline 4.5 t/ha); 3% for tomatoes (8.18 t/ha vs. baseline 8.0 t/ha); and 66% for cabbage (16.06 t/ha vs. baseline 10 t/ha) (Fall agricultural campaign).
F-4.5.1.3	Number of institutions/organizations undergoing capacity/competency assessments as a result of USG assistance	15	1	1	12	120	The Federation of water users associations in the Cul-de-Sac plain has been created and its capacity was evaluated.
F-4.8.1.1	Number of hectares under improved natural resource management (NRM) as a result of USG assistance	10,000	7,814	7,814	22,000	75,000	Number of hectares planted in fruit and forest trees during the second agro-forestry campaign: (432 ha in Cabaret-Arcahaie; 2,243 ha in Gonaives; 2,155 ha in Mirebalais; 2,884 ha in Kenscoff; and 100 ha in the Cul-de-Sac plain.
F-4.8.1.5	Number of people receiving USG training on natural resource and/or biodiversity conservation	804	0	0	600	1,300	Number of people trained in the use of vetiver for soil conservation.
8	Number of people who benefit from WINNER infrastructure work	121,955	76,000	76,000	150,000	720,000	Number of people benefitting from the rehabilitation of the potable water system in Bassin Mangnan, the rehabilitation of the Dubedou intake in Gonaives, the treatment of ravines in Belle Fontaine and Gonaives, agro-forestry programs.
11	Number of kilometers of mechanical structures built as a result of WINNER assistance	39	1	1	70	150	Number of kilometers protected on the Courjolle and Torcelle rivers and the Manegue ravine.
C-3.1.8.2	Number of people in target areas with access to improved drinking water supply as a result of USG assistance	25,000	26,000	26,000	50,000	140,000	Rehabilitation of the potable water system in Duvier (this quarter). Rehabilitation of the potable water system in Bassin Mangnan (first quarter of FY 2010).

Ind #	Description	Progress up to 4 <sup>th</sup> quarter FY 2010	Progress in 1 <sup>st</sup> quarter FY 2011	FY 11 Actual	FY 11 Target	LOP Target	Remarks
C-5.1.2.2	Number of water systems/points returned to use as a link to 3.1.8.2	1	1	1	6	14	Rehabilitation of potable water system in Duvier.
13	Number of potable water community organizations with sustainable management as a result of WINNER assistance	1	1	1	6	14	Water users association in Duvier.
15	Number of early flood warning systems installed and maintained with community involvement as a result of WINNER assistance	0	1	1	2	4	Gonaives flood early warning system completed and launched this quarter.
16	Number of people protected by early flood warning system as a result of WINNER assistance	0	228,725	228,725	200,000	400,000	Population of Gonaives protected by the early flood warning system and the contingency plan implemented with WINNER assistance.
18	Number of water users or road users associations established with WINNER assistance	1	2	2	2	9	Federation of water users in the Cul-de-Sac created this quarter. Water users association for the Duvier potable water system established.
C-5.2.1.3	Number of communities with Early Warning Systems linked to a response system in place as a result of USG assistance	0	9	9	20	41	Communes in the Gonaives area benefitting from the flood early warning system implemented with WINNER assistance.

## J. WATERSHED INVESTMENT FUND (WIF)

The main vehicle for WINNER implementation is the Watershed Investment Fund (WIF). This \$100 million fund is being used to implement broad scale investments in selected watersheds. The WIF is designed to ensure maximum flexibility to utilize local resources and build local capacity, remaining agile to promote collaboration with other projects and donors, take advantage of windows of opportunity, and quickly shift to changing conditions as new information is available or new problems are encountered.

WIF implementation instruments include grants, subcontracts, short-term technical assistance (STTA), and direct procurement of goods. Depending on the nature of the activity and the partners involved, WINNER determines which mechanism is best suited for a specific activity. Grants and subcontracts are the primary implementation instruments.

In this quarter, funding for WINNER activities through the WIF consisted of grants to farmer associations, subcontracts for infrastructure work and the provision of solar panels, short-term technical assistance, and training. In the quarter, we spent a total of \$3.57 million through the WIF. The table below shows the funds expended this quarter through the different WIF mechanisms.

**Table 15. WIF expenditures by Instrument and Component (October-December 2010)**

<b>WIF Instrument</b>	<b>Livelihoods</b>	<b>Infrastructure</b>	<b>Governance</b>	<b>PPPP</b>	<b>Recovery</b>	<b>Total</b>
Grants	\$182,126	\$53,053	\$0	\$91,590	\$60,000	<b>\$386,769</b>
Subcontract	\$41,763	\$1,517,981	\$0	\$47,430	\$0	<b>\$1,607,173</b>
Direct Procurement	\$781,068	\$206,948	\$56,638	\$3,384	\$325,166	<b>\$1,373,205</b>
Training	\$103,203	\$0	\$1,437	\$7,506	\$0	<b>\$112,146</b>
STTA	\$54,082	\$8,791	\$27,943	\$-6,640	\$2,723	<b>\$86,899</b>
<b>Total</b>	<b>\$1,162,242</b>	<b>\$1,786,773</b>	<b>\$86,017</b>	<b>\$143,270</b>	<b>\$387,889</b>	<b>\$3,566,192</b>

In terms of WIF disbursements by project components, infrastructure accounts for 50% of expenditures, followed by livelihoods with 33%, recovery with 11%, PPPP with 4%, and governance with 2%. These expenditures reflect a total of 15 grants, 7 subcontracts, 49 direct procurement actions, 16 short-term technical assistance (STTA) contracts, and 40 training activities.

Table 16 presents WIF expenditures by component and by region. The Cul-de-Sac region accounted for 43 % of the WIF expenditures this quarter, followed by the Gonaïves region with 37%, the Cabaret/Arcahaie region with 11% and the Mirebalais region with 9%. This is largely because the large infrastructure works of river reprofiling took place in Gonaïves and in the Cul-de-Sac.

**Table 16. WIF expenditures by Component and by Region(Ocotober – December 2010)**

<b>Component</b>	<b>Cul-de-Sac</b>	<b>Gonaïves</b>	<b>Cabaret/ Arcahaie</b>	<b>Mirebalais/ Saut d’Eau</b>	<b>Total</b>
Livelihoods	\$405,777	\$262,278	\$246,614	\$247,573	<b>\$1,162,242</b>
Infrastructure	\$838,852	\$932,826	\$14,646	\$449	<b>\$1,786,773</b>
Governance	\$39,497	\$9,438	\$18,541	\$18,541	<b>\$86,018</b>
PPPP	\$37,690	\$40,043	\$51,679	\$13,858	<b>\$143,270</b>
Recovery	\$219,173	\$50,739	\$55,989	\$55,989	<b>\$387,889</b>
<b>Total</b>	<b>1,540,989</b>	<b>1,301,324</b>	<b>\$387,469</b>	<b>\$336,410</b>	<b>\$3,566,192</b>

Overall, we spent \$3.18 million on WIF activities financed through instruments other than the letter of credit (LOC) and \$387,000 through the LOC to finance grants.

## **K. ADMINISTRATION**

SENSITIVE INFORMATION REMOVED

## **L. FINANCIAL REPORT**

SENSITIVE INFORMATION REMOVED