



HAITI RELIEF AND REHABILITATION PROJECT – HURRICANE HANNA

FINAL PERFORMANCE REPORT

September 29, 2008 – July 28, 2009

For

**THE UNITED STATES AGENCY
FOR INTERNATIONAL DEVELOPMENT**

OFFICE OF FOREIGN DISASTER ASSISTANCE

GRANT NO. DFD-G-00-08-00356-00

Submitted by:

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October 28, 2009

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REPORTING PERIOD: September 29, 2008 – July 28, 2009

GENERAL REFERENCE:

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D. DATE OF THIS REPORT: October 28, 2009

E. PROGRAM TITLE: USAID/WCDO Haiti Relief and Rehabilitation Project – Hurricane Noel

Country/Region Haiti/South East Department
Types of Disaster/Hazard: Increase livelihood security

PROGRAM OVERVIEW AND PERFORMANCE

Program Goal: To save lives and alleviate suffering caused by Hurricane Hanna through restoring the livelihoods of subsistence farmers.

PROGRAM OVERVIEW AND PERFORMANCE

Objective #1: Re-establish household livelihood and food security for crop and livestock farmers most affected by Hurricane Hanna.

Number/Type of Beneficiaries targeted: A total of 12,825 beneficiaries were targeted, of which 9,885 were to receive agricultural inputs, 1,200 were to receive animals (goats/sheep) and 1,740 were to have access to water through the rehabilitated irrigation systems.

Dollar Amount Requested from OFDA for the Objective: \$1,185,400

Sub- Sector : Seed Systems and Agricultural Inputs

Indicator (A): Actual number of hectares planted with distributed seeds: 1,769 ha

Indicator (B): Number of seedlings provided: 22,500

Indicator (C): Number of hectares watered by rehabilitated irrigation systems 835 ha

Sub-Sector: Livestock

Indicator (A): Number of beneficiaries provided animals: 1,200

Indicator (B): Number and percentage of targeted animals vaccinated: 2,400 (100%)

Cross-Cutting Themes (CCT):

CCT (A) Capacity building/Training

Indicators

Number of people trained.

Percentage of beneficiaries using their skills training within their livelihood activities.

CCT (B) Livelihood/Income Generation

Number of people assisted with livelihoods interventions.

From August 16 to September 8, 2008, Haiti was deluged with flooding. Wracked by four major storms, Fay (August 16-17), Gustav (August 26-29), Hanna (September 2-3,) and Ike (September 7-8), the population in general, and particularly those involved in the agricultural sector, were severely affected. In the Southeast of Haiti, major irrigation systems were damaged and rendered non-operational. Hundreds of hectares of irrigated areas were left without irrigation water. This affected bean production during the growing season in early November. Banana production in the lowland area (from Marigot to Cote de Fer) was completely wiped out. Bananas are one of the dominant cash crops for farmers in these areas. Avocado and breadfruits, two of the major sources of food, were completely lost. This resulted in a drastic reduction of the food supply in the traditional food producing areas of the Southeast. In the hill areas of the Southeast, major losses of bean, vegetable and corn crops were reported.

Livestock production was also affected; thousands of animals were killed by the flood waters, decimating the capital stocks of the small farmers. Farmers in this area use the sale of small animals as an important source of revenue for the payment of school fees and other periodic expenses. Major secondary and tertiary roads were also destroyed by the flooding. In summary, small farmers in the major producing areas of the Southeast lost essential productive assets and needed immediate assistance to enable them to resume their agricultural operations. The result of these storms was less access to food for at least 4 million people living on less than one dollar a day.

World Concern Development Organization, conjointly with OFDA/USAID, addressed the needs of those families in order to save lives and alleviate the suffering of 12,825 families representing approximately 87,000 individuals. The Haiti Hurricane Hanna Relief and Rehabilitation Project implemented in Southeast Haiti has now completed ten months of activities (September 2008 – July 2009). The goal of the program was to save lives and alleviate suffering caused by Hurricane Hanna through restoring the livelihoods of subsistence farmers in the Southeast Department of Haiti. The following activities have been accomplished as follows:

Initial start-up activities:

Recruit project staff

Launching the project in October 2008, WCDO recruited and trained project staff in the different communities where activities were to be implemented. The project staff was made up of one project coordinator, two assistant project coordinators, six supervisors, two secretaries, 42 agricultural and veterinary agents, one warehouse manager and one driver. Two civil engineers were contracted for the rehabilitation of the irrigated water systems. One agent was appointed to each community where the project was implemented, except in the communities where both agricultural and livestock activities were conducted. Two agents were assigned to these communities to handle the increased workload. The field agents were assisted by the supervisors, the local committee and the Civil Protection Committee in the identification of the beneficiaries. This team was responsible for the major project activities.

Identify seed suppliers

Upon receiving the PAL from OFDA, WCDO identified different seed suppliers currently available in the local market. Among them, AGRITECH, Semences et Forêts and Semences et Plantules d'Haiti were selected to provide seeds, seedlings and tools to the project. With each supplier, a contract was signed for the specific seeds to be provided to the project. Once the contract was signed, the project coordinator submitted to each supplier a distribution calendar in order to receive the seeds on time in the communities.

Identify project beneficiaries

The WCDO staff worked closely with the local authorities and the Civil Protection Committee in different localities targeted by the project to identify the beneficiaries. Those selected were vulnerable people affected by the last hurricanes. A local committee made up of a representative of the State, a local authority and a representative of WCDO was formed in each community. According to the project proposal, the committees identified 9,885 farmers to receive agricultural inputs and 1,200 to receive animals.

In November 2008, after the initial communities and beneficiary lists had been made, WCDO observed a famine situation due to the storms at Belle-Anse, one of the communes of Southwest Haiti. Project staff went to the commune for a quick assessment. We then worked with the Civil Protection Committee to determine the localities to receive assistance from the project. Three communities were selected and an additional 1,000 families were identified and served at Belle-Anse, particularly the localities most affected by food shortages.

The farmers identified to receive agricultural inputs (7,008 men and 4,020 women for a total of 11,028) exceeded the targeted number by 11%. These farmers with specific agricultural needs were selected from 25 communities in five communes in the Southeast department. The targeted 1,200 beneficiaries to receive animals each received 2 goats through the project.

Total Beneficiaries that received agricultural inputs

Commune	Men	Women	Total Beneficiaries
Jacmel	2,219	1,237	3,456
Cayes Jacmel	997	412	1,409
Cotes de Fer	1,764	845	2,609
Marigot	1,225	962	2,187
Belle Anse	803	564	1,367
TOTAL	7,008	4,020	11,028

Sub- Sector: Seed Systems and Agricultural Inputs

- Seed distribution

**Indicator (A): Actual number of hectares planted with distributed seeds: (target 1,769)
Accomplished: 2,790 hectares planted (158% of target)**



Bountiful harvest from the seeds distributed through the project

During the lifetime of the project, 2,790 hectares were planted with the seed distributed through the project. The beneficiaries received seeds in two distributions. First, depending on location and choice, each farmer received a seed package containing various seed combinations. The second distribution of seeds was based on their personal choice. The first distribution took place from November 2008 to April 30, 2009. The seeds were distributed in various combinations to 11,028 farmers, exceeding the 9,885 beneficiaries targeted (111% of target). The seeds

were distributed in five communes of Southeast Haiti (Cotes de Fer, Marigot, Cayes Jacmel, Belle-Anse and Jacmel). According to the data collected by the field agents in the five communes, 1,920 hectares were planted with the seeds from the first distribution.

The second distribution took place from May to July 2009, with one type of seed per farmer distributed to the same 11,028 farmer beneficiaries. According to the data collected, these seeds planted 870 hectares.

Agricultural Inputs Distributed through the project - cumulative

Type of seeds	Quantity planned	Quantity distributed	Percentage
Crop seeds			
Black bean	30.0 MT	33.0 MT	110%
Corn	14.50 MT	14.5 MT	100%
Sorghum (millet)	6.2 MT	6.2 MT	100%
Pigeon pea and lima bean	11.5 MT	11.5 MT	100%
Peanuts	2.5 MT	2.5 MT	100%
Total	64.7 MT	67.7 MT	105%
Vegetable seeds			
Tomato	39.0 Lbs	39.0 Lbs	100%
Black Pepper	90.0 Lbs	90.0 Lbs	100%
Cabbage	8.0 Lbs	8.0 Lbs	100%
Carrot	8.0 Lbs	8.0 Lbs	100%
Leek	8.0 Lbs	8.0 Lbs	100%
Egg plant	50.0 Lbs	50.0 Lbs	100%
Spinach	73.0 Lbs	73.0 Lbs	100%
Total	276.0 Lbs	276 Lbs	100%
Tubers			
Sweet potato	2,003,800 Cuttings	2,003,800 Cuttings	100%
Cassava	2,085,750 Cuttings	2,085,750 Cuttings	100%
Total	4,089,550 Cuttings	4,089,550 Cuttings	100%
Other seeds			
Banana	405,500 Dragoons	405,500 Dragoons	100%
Sugar Cane	85,000 Cuttings	85,000 Cuttings	100%
Yams settings	42,550	42,550	100%
Taro (cocoyam)	9,600	9,600	100%
Total	542,650	542,650	100%
Agricultural tools			
Hoe	2,250	2,250	100%
Machete	2,250	2,250	100%
Total*	4,500	4,500	100%

MT = Metric Tons Lbs = pounds

*Each beneficiary that received a tool only received one tool, either a hoe or a machete.

- **Distribution of tree seedlings**

Indicator (B): Number of seedlings provided: (target 22,500)

Accomplished: 22,500 seedlings distributed (100%)

22,500 tree seedlings were distributed to 2,250 beneficiaries of the project. Each beneficiary received 10 tree seedlings. The main species distributed were Avocado, Mango, Citrus and Papaya. The beneficiaries were selected from among those who had already received animals and/or other agricultural inputs from the project. The beneficiaries that received the trees were trained on fruit production and reforestation.



A beneficiary receives a tree seedling

- **Rehabilitation of Irrigation Systems**

Indicator (C): Number of hectares watered by rehabilitated irrigation systems: (target 835 ha)

Accomplished: 898 hectares watered by rehabilitated irrigation systems (108%)

Five systems were rehabilitated by WCDO's intervention in the Southeast (Cyvadier, Orangers, Bois Anna, Passe Herlin and Rodaille).

Cyvadier: This system is located in the commune of Jacmel. It is divided into three parts (Eau Père, Canal Diamand and Cyvadier). This system is now completely rehabilitated. The project built a 150-linear meter canal in Diamand, a 50-linear meter canal in Eau Pere and 250 meters of canal at Cyvadier. Now all the farmers from this system have access to sufficient water for their gardens. This system serves 275 farmers and waters 190 hectares. All of the users of this system that were affected by the 2008 hurricanes received agricultural inputs from the project, and they had excellent yields from their harvests.

Orangers: This system is well rehabilitated. It is located in the commune of Jacmel. WCDO built protection walls and repaired the damage caused by the 2008 hurricanes. All the farmers living around the system now have access to water, so they can produce better crops. Most of them received seeds from the project. In order to avoid damage from future flooding, we added additional walls to protect the rehabilitated walls. A total of 180 m³ of gabions were installed; 40 m² of reinforcement was done, and 30 linear meters of repairs were done in this system.

Bois Anna: This system is divided in two parts: Bois Anna and La Garice. This system was completely destroyed by the 2008 hurricanes. WCDO has completely rehabilitated this system and now the farmers have access to water. The project repaired the walls and reinforced the base. To avoid damage from flooding, the project protected the rehabilitated system by installing 120 m³ meters of gabion. Now water is available and

the farmers in those communities have already planted their crops. Two kilometers of the canal remains to be cleaned up. This system serves 150 farmers and waters 120 hectares.

Passé Herlin: Located in the commune of Cote de Fers, this system is also divided into two sides. WCDO had to complete two different types of work in this system. First, we cleaned up 2.5 kms of the canal on the right side, and secondly, built up 1,000 meters of the canal on the left side (both sides were affected). This system serves 85 farmers and waters 103 hectares. Other interventions will be done by the state for a complete rehabilitation of this system

Rodaille: Located in the commune of Marigot, this system is the biggest in the Southeast. It serves 1,500 farmers and waters 325 hectares. Work on this system began the first week of February because another partner was already slated to rehabilitate part of the system. However, because of the bad performance of this group and the poor quality of the work, the Departmental Direction of Agricultural Ministry wrote a letter to WCDO/OFDA to reconsider the work accomplished by this group and start our rehabilitation work in order to allow the farmers to have access to water as soon as possible. WCDO rebuilt the head of this system that had been destroyed by the hurricane and reconnected it to the main canal. Also 500 meters of underground canals were cleaned up. To avoid damage from flooding, the project protected the rehabilitated system in two different areas by putting 150 m³ of gabions around the system. Also the project has repaired the doors and covers to all of the 20 holes called “Trous d’homme” to avoid sand, gravel, rocks and other materials from refilling the canals.

For each system rehabilitated, a set of tools made up of a wheelbarrow, picks, machetes, hoes, rake and hammer was given to the local committee to be able to make minor repairs when necessary. A contract was signed with each committee regarding the management of the tools.



Building a gabion



A finished system delivers water to the farmers

Irrigation System	Number of Farmers Served	Number of hectares watered by the system	Type of work done			
			Repair and construction of canals	Installation of Gabion	Reinforcement of canals	Clean up of canals
Cyvadier	275	190	200 meters		350 meters	
Orangers	300	160	30 meters	180 m ³	40 m ³	500 meters
Bois Anna	150	120	500 m ³	120 m ³	120 meters	1,500 meters
Passe Herlin	85	103	1,000 meters			2,500 meters
Rodaille	1,500	325		150 m ³	125 meters	500 meters
Total	2,310	898	1,730	450	635	5,000 meters

Sub-Sector: *Livestock*

- **Animals distribution**

Indicator (A): Number of beneficiaries provided animals: (target 1,200)

Accomplished: 1,200 families provided with animals (100%)

By the time this project ended, all 1,200 of the targeted families were provided with animals. A total of 2,400 goats were distributed, each family receiving two female goats. All of the animals were treated for external and internal parasites and all were vaccinated before they were distributed. 80% of the goats distributed were pregnant and some had already kidded. Each beneficiary signed a contract for the animal received from the project. The contract stipulated that they would keep the goat for themselves (i.e. not eat it or sell it) and that the first offspring of their goat would be given to a neighbor. Each beneficiary family also received a bundle of cuttings for quick-growing forage plants. The plants were distributed during the rainy season so they would have a greater chance of thriving.



A happy beneficiary receives a goat

Communities and families reached with the goat distribution:

Communes	Communities/ Localities	Number of families selected	Number of animals targeted	Number of families reached	Number of animals distributed	Percentage
Jacmel	Haut coq Chante	60	120	60	120	100%
	La Montagne	140	280	140	280	100%
	Cochon gras	40	80	40	80	100%
	Marbial	40	80	40	80	100%
	MontagnLavoute	150	300	150	300	100%
	Lavanneau	150	300	150	300	100%
Cayes-Jacmel	Haut Cap Rouge	50	100	50	100	100%
	Gaillard	50	100	50	100	100%
	Ravine Normande	50	100	50	100	100%
Marigot	Savanne du Bois	50	100	50	100	100%
	Grande Riviere felse	35	70	35	70	100%
	Corail Soult	60	120	60	120	100%
Cotes de Fer	Gri gri	40	80	40	80	100%
	Labiche	35	70	35	70	100%
	Bras de gauche	35	70	35	70	100%
	Amazone	35	70	35	70	100%
	Boucan Belier	35	70	35	70	100%
	Jamais Vu	40	80	40	80	100%
Belle Anse	Mabriol	35	70	35	70	100%
	Pichon	35	70	35	70	100%
	Baie d'Orange	35	70	35	70	100%
TOTAL		1,200	2,400	1,200	2,400	100%

Indicator (B): Number and percentage of targeted animals vaccinated: (target 2,400 - 100%)

Accomplished: 2,400 animals vaccinated (100%)

All of the 2,400 animals distributed were vaccinated and treated for internal and external parasites before they were distributed to the beneficiaries.

Cross-Cutting Themes (CCT)

Capacity building/Training

- **Training for the Beneficiaries**



Indicator: Number of people trained

Each beneficiary attended training sessions in their local area. During the project, 11,208 farmers were trained in agricultural production by the project. 11,028 of them have received agricultural inputs and 180 other farmers participated in the training sessions even though they did not receive agricultural inputs. The training sessions included topics such as improved soil fertility, erosion, integrated pest management and best crops production.

- **Coordination**

While implementing this project, a strong partnership was formed with the DPC (Direction Protection Civile), the DDASE (Direction Departementale Agricole du Sud Est.) and Fermmes en Democratie. Each month during the project, WCDO, along with these agencies and the local authorities, met together at the DDASE office. WCDO shared progress reports and accomplishments of the project with the other participants.

Beginning in March, the WCDO field staff held meetings with the farmers and local authorities in each locality to discuss what they could do to avoid damage and minimize the loss of important assets during future hurricane seasons.

To evaluate the project progress and monitor the activities, a team from USAID/OFDA made up of Julie Leonard and Rand Robinson visited three of the five communes targeted by the project (Marigot, Jacmel and Cayes-Jacmel). They met with the local authorities as well as hundreds of beneficiaries. In each locality they held a meeting to acquire basic information on how the project was implemented, the effectiveness of the services provided and how the beneficiaries were helped by the interventions of the project in their community. During their visit they provided some useful advice to the project staff and to the beneficiaries. WCDO also contracted a consultant to evaluate the project in the communities where the project was implemented.

- **Summary**

In summary, the project achieved the goal and objectives set out in the proposal by WCDO and USAID/OFDA as planned. Without the intervention of USAID/OFDA in Southeast Haiti after the four hurricanes of 2008, the agricultural sector of that region would have needed decades to recover their great losses, suffering much in the process. The number of people served through this intervention, the irrigation systems rehabilitated and the seeds distributed during the last months have helped to minimize those losses and to restore the livelihoods of these farmer families. During this rehabilitation period, the WCDO/OFDA intervention was the most important investment in the agricultural sector in the communes reached by this project.

Through the joint efforts of World Concern Haiti and OFDA, the major components of the project were implemented successfully, which included distributing 67.7 metric tons of crop seeds, 276 pounds of vegetable seeds, over 4 million cuttings of tubers, more than

500,000 banana suckers, sugarcane, yams and taro, 4,500 tools and 2,400 goats. Five irrigation systems were also successfully rehabilitated.

A total of **14,538** beneficiaries have been reached (of 12,825 targeted - **113%**), of which **11,028** have received agricultural inputs (of 9,885 targeted – **111%**), **1,200** have received animals (of 1,200 targeted – **100%**) and **2,310** have access to water through the rehabilitated irrigation systems (of 1,740 targeted – **133%**). About 45% of the farmers (1,039) who have access to water have received agricultural inputs from this project.

The success of this project was possible because of the coordination between the local authorities and other organizations involved in the project areas, as well as the ownership of the project by the communities themselves. A WCDO team is currently collecting information from the beneficiaries and local authorities to determine further actions to be taken to consolidate the positive results of the project and for the future, to determine how to reduce the vulnerability of the families in these areas as well as ways to improve future interventions.



Project Progress According to Indicators

	Indicator	No. of Beneficiaries Targeted	Number Reached Oct-Dec 08	Number Reached Jan-April 09	Number Reached May-July 09	Total Beneficiaries Reached	Percentage Achieved
Seeds & Agricultural Inputs	Farmers receiving seeds	9,885	6,944	4,084	11,028 (same as previous)	11,028	111%
	Farmers receiving tools	2,250	550	3,950	0	4,500	200%
	Farmers selected to receive tree seedlings	2,250	0	2,250	0	2,250	100%
	Tree seedlings selected	22,500	0	22,500	0	22,500	100%
	Hectares planted with seeds	1,769	N/A	1,920	870	2,790	158%
	Farmers receiving training	9,885	645	10,563	0	11,208	113%
Livestock	Animals distributed	2,400	290	846	1,264	2,400	100%
	Number of beneficiaries targeted	1,200	145	423	632	1,200	100%
	Animals to be treated and vaccinated	2,400	0	840	1,560	2,400	100%
Rehabilitation of Irrigation Systems	Number of farmers served by the irrigation systems	1,740	575	1,735	0	2,310	133%