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**REPORT ON UPPER WATERSHED LANDS PLANTED WITH
FRUIT AND FOREST TREES**



APRIL 2014

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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.

CONTEXT

The Feed the Future West/WINNER project contributes to pillar B of the USAID Haiti Mission's strategic objective: Food and Economic Security. The project seeks to improve livelihoods and food security in its areas of intervention in Haiti through three intermediate results:

1. Agricultural productivity increased
2. Watershed Stability Improved
3. Agricultural markets strengthened

One of the key activities to improve watershed stability is agro-forestry. Over the course of the project, FtF West/WINNER has undertaken several agro-forestry campaigns to increase tree cover in targeted areas and to provide farmers with income derived from fruit trees and selected forest tree species.

This report presents the number of fruit trees and forest trees planted through the project in the various areas of intervention, as well as maps identifying the tree plantation areas.

CONDUCT OF AGRO-FORESTRY CAMPAIGNS

Since 2010, FTF West/WINNER organized agro-forestry campaigns. Working with community-based organizations in the hillside areas of its zones of intervention, the project set up nurseries; distributed seeds and materials to associations so that they could produce tree seedlings; and organized the associations for the transplantation of trees. The agro-forestry campaigns were organized in order to make bulk purchases of inputs based on the needs expressed by farmers, with a prevalence of fruit trees and income-generating forest tree species.

Table 1 below presents a summary of the agro-forestry campaigns implemented by FtF West/WINNER from 2010 to 2013.

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

Table 1. Overall results of the FtF West/WINNER agro-forestry campaigns

Region	Number of nurseries	Number of local organizations involved	Tree seedlings transplanted	Surface area planted (hectares)	Number of beneficiaries
2009- 2010 campaign					
Matheux	12	12	105,452	787	11,947
Gonaïves	27	27	578,578	4,316	3.119
Kenscoff/Petionville	63	19	545,547	4,070	26,486

Region	Number of nurseries	Number of local organizations involved	Tree seedlings transplanted	Surface area planted (hectares)	Number of beneficiaries
Mirebalais/Saut d'Eau	27	72	353,757	2,639	1,709
Cul-de-Sac plain	4	1	247,563	1,847	843
Subtotal	133	131	1,830,897	13,658	44,104
2011-2012 campaign					
Matheux	15	15	110,452	824	12,235
Gonaïves	27	27	432,908	3,229	3,119
Kenscoff/Petionville	69	69	578,929	4,319	26,486
Mirebalais/Saut d'Eau	18	18	400,797	2,990	1,709
Cul-de-Sac plain	1	1	110,540	825	843
Subtotal	130	130	1,633,626	12,187	44,392
2012-2013 campaign					
Matheux	22	20	405,085	2,030	1,250
Kenscoff/Petionville	31	22	400,330	1,877	1,768
Mirebalais/Saut d'Eau	6	6	48,374	310	673
Cul-de-Sac plain	12	12	611,236	2,781	3,601
Subtotal	71	60	1,465,025	6,997	7,292
Grand Total	197(*)	184(*)	4,929,548	33,842	50,000(*)

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

In addition to the agro-forestry campaigns organized by FtF West/WINNER, one million trees were also planted on 1,811 hectares, as part of a partnership with DINASA called “Plante Lavni” in the project’s areas of intervention.

SURVIVAL RATE OF TREES

In 2013, DDG conducted an independent verification of the survival rate of trees. Based on a random survey of 36 associations that were involved in agro-forestry activities in the Cul-de-Sac, St Marc, and Mirebalais/Saut d'Eau areas. This represents 38% of all the associations that worked on agro-forestry.

A questionnaire was submitted to the associations to assess: the number of hectares planted with trees, the number of trees planted, and the survival rate of trees planted. In addition, the survey team conducted random spot checks to confirm the survival rate of trees. The team estimated the number of trees planted per hectare using an agro-forestry zoning. First, they conducted a field survey to overview the density of trees planted in selected sites. Second, they selected areas of 100 square meters based on initial density observations: high, medium and low. Third, they counted the actual number of trees in each selected area.

Overall, the survival rate of trees from Table 2 below presents the survival rate of trees planted during FtF West/WINNER’s agro-forestry campaigns.

Table 2. Estimated Survival Rate of Trees from FtF West/WINNER Agro-forestry Campaigns

Matheux	Cul-de-Sac hillsides	Mirebalais	Overall
75.5%	75.8%	46.4%	70.9%

AREAS REFORESTED

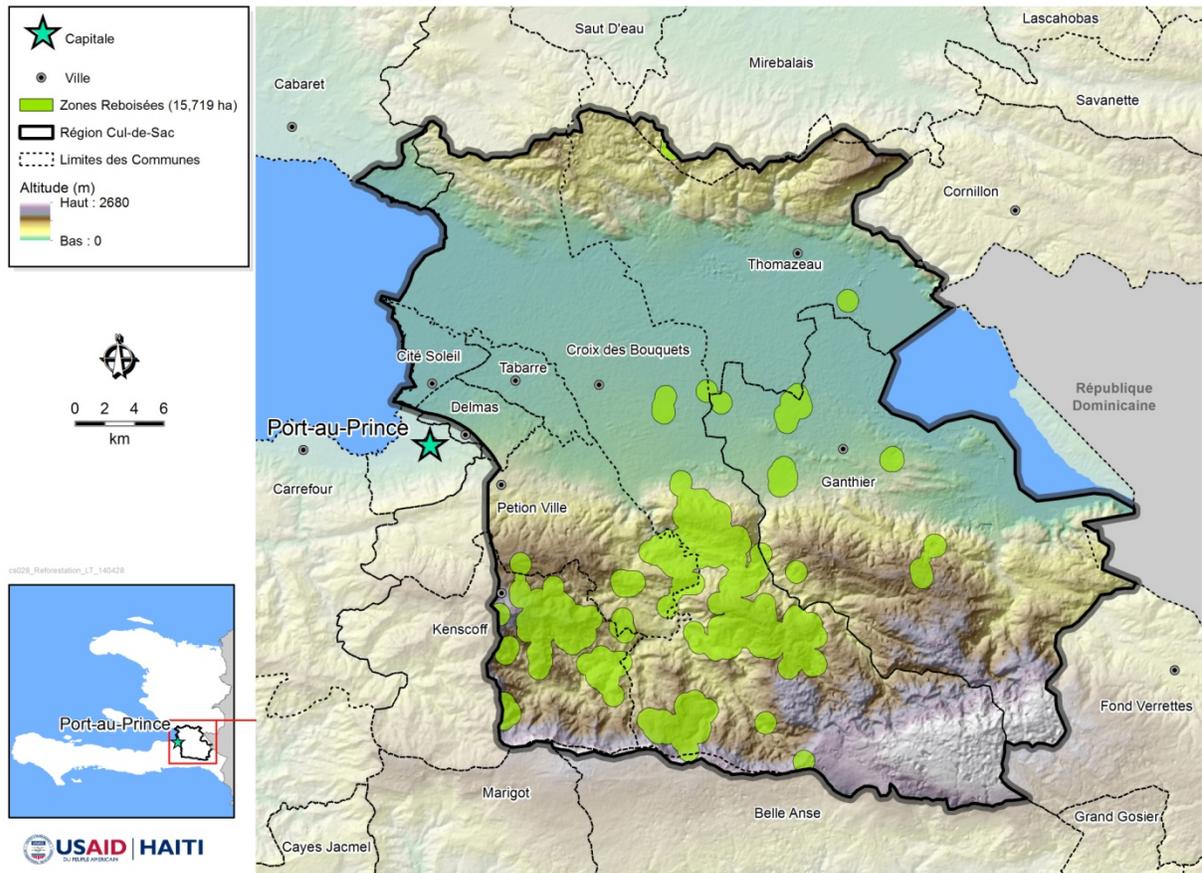
The total area planted with trees as a result of FtF West/WINNER interventions is summarized in Table 3 below. Overall, 34,656 hectares were planted with fruit and forest trees in upper watershed areas of the Cul-de-Sac, Matheux, Mirebalais/Saut d’Eau and Gonaïves.

Table 3. Surface area planted with trees as a result of FtF West/WINNER (hectares)

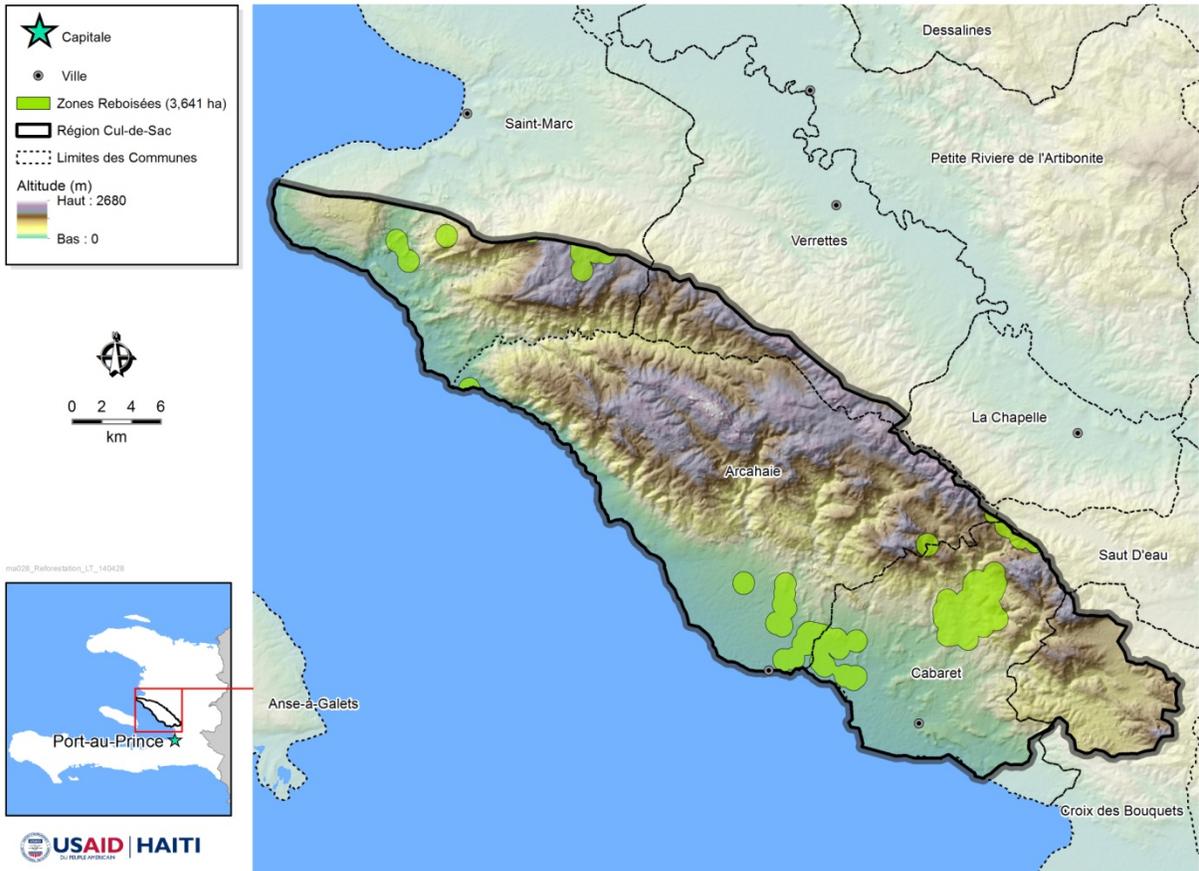
Zone	Area planted with trees (hectares)
Cul de Sac hillsides	16,988
Matheux	4,184
Mirebalais/Saut d’Eau	5,939
Gonaïves	7,545
Total	34,656

Figures 1, 2 and 3 below present maps of the areas planted with trees in the Cul-deSac, Matheux, and Mirebalais/Saut d’Eau regions.

FTF West / WINNER - Zones Reboisées dans la Région du Cul-de-Sac



FTF West / WINNER - Zones Reboisées dans le Corridor des Matheux



FTF West / WINNER - Zones Reboisées dans la Région de Mirebalais-Saut-d'Eau

