

# NATIONAL FOREST PLANTATION DEVELOPMENT PROGRAMME



**ANNUAL REPORT 2013**

FOREST SERVICES DIVISION - FORESTRY COMMISSION  
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**Cover photos:**

**Main Photo:** The Hon. Deputy Minister for Lands and Natural Resources with the Director of Operations, Plantations, and the Ashanti Regional Manager, FSD during an inspection of the 2007 mixed plantation within the South Formangsu Forest Reserve in the Juaso Forest District.

**Bottom Photos (L - R):** A member of the Deputy Minister's team expressing satisfaction after inspection of a plantation stand established by Mere Plantations Limited. A 2003 MTS teak plantation within the Opro River Forest Reserve in the Offinso Forest District. An inspection team taking sample dbh measurement in a 2002 MTS teak stand within the Mankrang River Forest Reserve - Offinso Forest District.

**Side Photos (T - B):** *Eucalyptus camaldulensis* seedlings delivered at a planting site in the Kamba F/R, Lawra Forest District. Tractors used by NICOL-MIRO for site preparation in the Boumfum Forest Reserve, Kumawu Forest District. A two months old teak stand established by NICOL-MIRO in the Boumfum Forest Reserve, Kumawu Forest District.

## **EXECUTIVE SUMMARY**

This is a progress report covering key activities undertaken under the National Forest Plantation Development Programme (NFPDP) during the 2013 plantation year (April, 2013 - March, 2014).

The National Forest Plantation Development Programme (NFPDP) chalked its 11<sup>th</sup> year in 2013 in pursuit of its goal of "developing a sustainable resource base that will satisfy the future demand for industrial timber and enhance environmental quality, thereby relieving the pressure on the natural forest and increasing the forest cover".

The main interventions in 2013 were the establishment of forest plantations by the Forest Services Division, the FC/Timber Industry Fund Committee, the FC/FORM Ghana PPP and private commercial forest plantation developers on-reserve.

The NFPDP was expected to deliver the following key outputs for 2013: establishment of 4,100ha of forest plantations on-reserve and maintenance of 18,987.55ha of 2010-2012 established plantations handed over to the FC by the Service Companies (Zoil and Ecotech Services Limited) in December 2013; creation of 3,100 jobs and production of 27,000 Metric Tonnes of food crops within 2011, 2012 and 2013 plantation coupes.

A total of 5,784.86ha was established in 2013 under 3 components of the NFPDP, generating 5,184 jobs. These components comprise the FC/ Timber Industry plantations, Private Commercial Developers on-reserve and the FSD 2013 plantations. African Plantations for Sustainable Development Ghana Limited (APSD), a large scale off-reserve plantation developer, also established 1,565ha and provided 525 jobs in 2013.

Under the FSD 2013 Plantations, 2,857.61ha were established out of a target of 3,000ha with 2,504 temporary jobs created and 3,174,802 seedlings supplied by forest fringe communities and private seedling nurseries. A total amount of GH¢2,524,029.92 was disbursed for the FSD plantation establishment activities.

An estimated 28,919.88 Metric Tonnes (MT) of food crops were produced within the 2011 - 2013 plantation coupes (15,431.66ha) compared to 46,502.78MT within the 2010 - 2012 plantation coupes (26,582.89ha). The major crops produced in 2013 were Plantain – 14,780.90MT, Cereals (maize, millet and rice) – 5,474.64MT, Tubers (Cocoyam, Cassava and Yam) – 7,580.44MT, Legumes (Beans, Cowpea, Groundnut and Sorghum) – 834.09MT and Vegetables (Tomato, Pepper, Garden Eggs) – 1,577.92MT.

A total of 2,746.51ha was planted by 56 commercial developers on-reserve in 2013. This brings the total area developed by private commercial plantation developers within forest reserves to 35,490.79ha. An estimated 2,350 jobs were generated by these private commercial developers in 2013. Sixteen (16) private developers signed Land Leases and Benefit Sharing Agreements (LL/BSAs) in 2013 resulting in One Hundred and Twenty-six (126) LL/BSAs being signed to date.

In the year under review, the FC signed a Public Private Partnership (PPP) agreement with FORM Ghana to jointly undertake a commercial plantation covering 14,596ha within Tain II forest reserve in the Sunyani Forest District. Within the partnership, FORM Ghana is eligible for 80% of the plantation proceeds and benefits with the Forestry Commission, Landowners and Forest fringe communities eligible for the remaining 20%. The planting target for 2013 was 600ha and 640ha was reported planted.

The PPP to date has employed 60 permanent employees and 267 temporary labourers under this project. Most of the recruited staff were from the forest fringe communities. The temporary workers were recruited for weeding, land preparation and planting up of the project area. 650 additional workers are envisaged to be recruited for the 2014 target of 2,000ha.

Wildfire reports at the end of March 2014 indicated that 3,362ha of plantations within the 2010 - 2013 coupes were affected by fire during the 2013/2014 fire season (November 2013 – March 2014).

The key challenge to the NFPDP is the absence of a reliable and adequate source of funding for plantation establishment and maintenance, and adequate vehicles/motorbikes for effective monitoring by FSD field staff.

Going forward, there is the need to undertake field verification of all reported past plantation establishment achievements especially the Modified Taungya System (MTS), Community Forestry Management Project (CFMP) and the Private Commercial Developers on-reserve. There is also the need to finalise and implement the Ghana Forest Plantation Strategy (2015 – 2040) which seeks to among others, create an enabling environment for public and private investments in forest plantations. Training and provision of key logistics to FSD field staff and maintenance of established plantations should be highly prioritised.

## 1.0 INTRODUCTION

The Forestry Commission has been implementing the National Forest Plantation Development Programme (NFPDP) since 2002 under various components, based on funding sources and implementation strategies.

The goal of the NFPDP is to develop a sustainable resource base that will satisfy the future demand for industrial timber and enhance environmental quality, thereby relieving the pressure on the natural forest and increasing the forest cover.

There are five (5) specific objectives of the NFPDP as listed below:

- i. To restore the forest cover of degraded forest lands
- ii. To reduce the wood supply deficit situation in the country
- iii. To generate employment as a means to reduce rural poverty
- iv. To improve environmental quality and provide an opportunity for the country to tap the emerging benefits from the climate change market for carbon sequestration
- v. To enhance production of food crops and contribute to food security in the country



*Fig. 1: Eucalyptus camaldulensis seedlings delivered at a planting site in the Kamba F/R, Lawra Forest District*



Fig. 2: Site within the Boumfum Forest Reserve, Kumawu Forest District, prepared for planting by NICOL-MIRO

At the end of 2013, a total area of 177,296.32ha had been established under the NFPDP as detailed in Table 1 below:

Table 1: NFPDP Components and achievements from 2002 to 2013

YEAR	MTS (ha)	CFMP (ha)	HIPC (ha)	PRIVATE DEVELOPERS (ha)	FSD PLANTATIONS (ha)	EXPANDED PROGRAM (ha)	FC/ Industry Plantations Fund (ha)	TOTAL PLANTED AREA (ha)
<b>2002</b>	17,341.00*			1,609.00**				18,950.00
<b>2003</b>	17,541.00*			1,609.00**				19,150.00
<b>2004</b>	16,090.00*		5,509.84	1,609.00**				23,208.84
<b>2005</b>	9,105.00*	1,136.00*	3,341.93	1,609.00**				15,191.93
<b>2006</b>	9,401.00*	2,298.00*	2,708.50	1,609.00**				16,016.50
<b>2007</b>	8,711.00*	2,731.00*	2,947.82	1,613.00**	78.5*			16,081.32
<b>2008</b>	111*	2,930.00*	1,806.67	6,107.16*	160*			11,114.83
<b>2009</b>	2,427.30*	4,293.00*	902.84	4,014.89*	140*			11,778.03
<b>2010</b>				4,733.38*		14,008.84 <sup>1</sup>	106.82	18,849.04
<b>2011</b>				4,560.42*		6719.711 <sup>1</sup>	270.77	11,550.90
<b>2012</b>				3670.43*		5,854.34 <sup>1</sup>	95.3	9,620.07
<b>2013</b>				2746.51*	2,857.61		180.74	5,784.86
<b>TOTAL</b>	<b>80,727.30</b>	<b>13,388.00</b>	<b>17,217.60</b>	<b>35,490.79</b>	<b>3,236.11</b>	<b>26,582.89</b>	<b>653.63</b>	<b>177,296.32</b>

\*Reported figures, yet to be verified by technical audit

\*\*Achievement of Private Developers for the period 2002-2007 has been estimated based on total establishment collated at the end of 2007, averaged over the period, due to lack of proper documentation on yearly achievements.

<sup>1</sup>Figures reviewed in 2013 following a joint verification of the effective area planted by the Service Companies and the Forest Services Division

The programme was expected to deliver the following on-reserve key outputs for the year 2013:

- i. 4,100ha of forest plantations [3,000ha by Forest Services Division of the Forestry Commission; 600ha of commercial plantations established under a Public Private Partnership (PPP) with FORM Ghana; and 500ha by the FC/Industry Plantations Development Fund].
- ii. Maintenance of 18,987.55ha of 2010, 2011 and 2012 plantation coupes established under the Expanded Plantation Program and handed over by the Service Companies.
- iii. 3,100 new jobs provided by the 4,100ha to be established by the FSD, FC - FORM Ghana PPP and FC/Industry plantations.
- iv. Production of 27,000 Metric Tonnes of food within 2011, 2012 and 2013 plantation coupes.

## 2.0 BRIEF DESCRIPTION OF NFPDP COMPONENTS AND ACHIEVEMENTS

Nine (9) components have been implemented to date and brief descriptions of the components and their achievements are provided below. An area of 5,784.86ha was established in 2013 under 3 components of the NFPDP. These components comprise the FC/Industry plantations, the Private Commercial Developers on-reserve and the FSD 2013 plantations.

### 2.1 The Modified Taungya System (MTS) 2002 - 2009

The MTS involved the establishment of forest plantations by the Forest Services Division (FSD) in partnership with farmers in forest fringe communities.

The FSD provided technical direction, surveyed and demarcated degraded forest reserve lands and supplied pegs and seedlings while the farmers provided all the labour inputs in the form of site preparation, pegging, planting, tending and fire protection.

The farmers were permitted to cultivate their food crops which were inter-planted with the tree crops on the same piece of land. The farmers, in addition to the food crops they harvested, have a 40% share in the Standing Tree Value (STV) of the planted trees. During the year, sixty (60) Benefit Sharing Agreements for the Modified Taungya System were prepared for signing in the Mampong Forest District. To date 296 forest fringe communities out of an estimated 2,000 have signed the MTS Benefit Sharing Agreements.



*Fig. 3: A Forest Guard taking sample diameter at breast height (DBH) measurements of a 2003 MTS Cedrela stand in the Afram Headwaters Forest Reserve - Offinso Forest District*



*Fig. 4: Head Office team on an inspection visit to an MTS stand, crossing the Tano River into the Mankrang River Forest Reserve - Offinso Forest District.*



The Government has a 40% share while the landowner and community will have a 15% and 5% share respectively. Figs. 5 and 6 below show some MTS stands in the Offinso Forest District in the Ashanti Region that require thinning and pruning.

The MTS was implemented in degraded forest reserves in the High Forest Zone of Ghana. 80,727.30ha were reported planted but this has not been verified through a technical audit. The major constraint to this model has been the inability of the participating farmers to undertake the expected maintenance of the established plantations after the harvesting of their food crops.

A number of MTS plantations, especially 2002 – 2005 coupes, are due for thinning and this will be a key activity in 2014.



*Fig. 5: 2003 MTS teak stand in the Opro River Forest Reserve in the Offinso Forest District*



*Fig. 6: 2002 MTS teak stand in the Mankrang River Forest Reserve in the Offinso Forest District*



*Fig. 7: Inspection team taking sample dbh measurements in a 2002 MTS teak stand within the Mankrang River Forest Reserve - Offinso Forest District*

## **2.2 Government Plantation Development Programme (GPDP) 2004 - 2009**

The GPDP utilized hired labour and contract supervisors to establish industrial plantations. Plantation workers were hired and paid a monthly allowance to establish and maintain plantations while plantation supervisors were engaged on contract basis to supervise and offer technical direction at the site level.

The FSD exercised general oversight and monitored field activities to ensure compliance with quality standards for plantation establishment. This strategy was funded through the Highly Indebted Poor Countries (HIPC) benefits. Under the scheme plantations developed are owned by government and the respective landowners who are entitled to royalty payments.

The GPDP was also implemented in degraded forest reserves within the High Forest Zone of Ghana. 17,217.60ha were established, however, maintenance has not been carried out within the stands as expected due to the lack of funds from government.

## **2.3 Community Forestry Management Project (CFMP) 2005 - 2009**

The CFMP was funded with a loan from the African Development Bank (AfDB) and adopted the MTS model for the establishment of forest plantations.

13,388ha was reported established within degraded forest reserves in the Brong Ahafo (Sunyani Forest District), Ashanti (Offinso Forest District) and Eastern Region (Begoro and Akim Oda Forest Districts) of Ghana. The reported established area is yet to be verified through a technical audit.

## 2.4 Model Plantation component 2007 - 2009

In 2007 the Model Plantation component, a purely research based scheme was introduced to offer the FC plantation managers the opportunity to undertake mixed species trials and experiment with various planting designs and tree spacing. Tree spacing so far tried include 3m x 3m, 3m x 2m and 2.5m x 2.5m. Mixed exotic-indigenous species planting designs implemented include MS 3-12, MS 4-8, and MS 3-6-12.

378.5ha of model plantations was reported established within the High Forest and Transitional Zones of Ghana in degraded forest reserves.

## 2.5 Expanded Plantation Program (EPP) 2010 - 2012

The plantation program was expanded to include private lands located outside forest reserves. The Expanded Plantation Program (EPP) ensured that most of the Metropolitan/Municipal/District Assemblies without degraded forest reserves also benefited from the job opportunities being created through the National Forest Plantation Development Programme (NFPDP).

Under the Expanded Plantation Program, private companies were contracted to undertake the establishment and maintenance of plantations and the supply of seedlings. Messrs Zoil Services Ltd and Ecotech Services Ltd undertook the establishment and maintenance whilst Messrs African Foresters Brigade supplied the seedlings. The Forestry Commission played a monitoring and reporting role under this program. Maintenance of these stands have not been the best as shown in Fig. 8 below:



*Fig. 8: 2010 EPP stand of Cedrela and Ofram trees in Bosomkese Forest Reserve, Bechem Forest District, engulfed by weeds.*

A total of 26,582.89ha (12,318.51ha (46.3%) on-reserve and 14,264.38ha (53.6%) off-reserve) was verified as planted over the three years of implementation.

The effective area planted was jointly verified by the Forestry Commission and the Service Companies. 18,987.55ha (71.5%) had survival percentage of 31% and above and were handed over to the Forestry Commission. 49% of the area handed over were within forest reserves while the remaining area (50.21%) handed over were in off-reserve areas.

7,595.34ha (37.65% on-reserve and 62.35% off-reserve) of the areas planted by the Service Companies had survival percentage of 30% and below, and therefore classified as failed, and these would be rehabilitated at the cost of the Service Companies in 2014. Financial Bonds covering the cost of the rehabilitation have been deposited with the Forestry Commission by the two Service Companies – Ecotech Services Ltd and Zoil Services Ltd.

The replanted areas would be handed over to the Forestry Commission when joint survival surveys indicate satisfactory survival percentages (75% for the savannah zones and 80% for the High Forest and Transition Zones).

## 2.6 FC/Timber Industry Plantation Development Fund Plantations 2010 - 2013

The Forestry Commission – Timber Industry Plantation Development Fund Committee (FC/Timber Industry Fund Committee) tasked the Forestry Research Institute of Ghana (FORIG) to establish Best Practice forest plantations of fast growing indigenous and exotic commercial timber species with funding from the FC/Timber Industry Fund.

FORIG has accordingly been establishing forest plantations on behalf of the FC/Timber Industry Fund Committee since 2010. These plantations have been established in the Eastern and Ashanti Regions, within degraded forest reserves as depicted in Table 2 below.

*Table 2: Details of achievements of FC/Timber Industry plantations program.*

Region	Forest District	Forest Reserve	Compartment /Site	Verified Area Planted (ha)	Species Planted
Eastern	Oda	Esen Epam	17	109.74	Cedrela, Ofram,
			3	71	Ceiba, Kusia, Wawa
		Pra Anum	Nkansaso Plot 1	3.35	Paulownia
			Nkansaso Plot 2	10.7	Ofram, Mansonia, Kusia, Ceiba, Otie
			Charlewote	5.07	Paulownia
			Awanweneso	44.95	Cedrela
Ashanti	Nkawie	Asenanyo	Research Working Circle (RWC)	22.8	Paulownia, Cedrela
	Offinso	Opro River	2	46.1	Cedrela, Ofram, Otie, Ceiba
		Mankrang River	38, 40, 41, 42, 43, 45 and 46	339.92	Cedrela, Teak, Ceiba, Ofram,
<b>Total</b>				<b>653.63</b>	

Field verification conducted at the end of 2013 by FSD confirmed the total effective area planted to date to be 653.63ha.

In 2013, an area of 180.74ha was confirmed planted in the Esen Epam Forest reserve, Oda Forest District. Additionally an estimated 339.92ha of previously failed sites in earlier coupes within the Mankrang River Forest Reserve was rehabilitated/replanted within the year (Fig. 9 & 10).



*Fig. 9: 2010 Terminalia spp. plantation established by FORIG on behalf of the FC-Industry Fund Committee within the Pra Anum Forest Reserve, Oda Forest District*



*Fig. 10: 2011 Teak plantation established on behalf of the FC-Industry Fund Committee within the Mankrang River Forest Reserve, Offinso Forest District.*

## 2.7 Private Commercial Plantation Developers On-Reserve 2002 - 2013

The Private Commercial Plantation Development component involves the release of degraded forest reserve lands by the FC to private entities after vetting and endorsing their reforestation/ business plans. The operations of these private developers are then monitored through periodic field visits by the FSD to ensure compliance with the terms and conditions of the approved reforestation plans. The private investor earns 90% of the total proceeds from the plantation while the FC, Landowner and Community earn 2%, 6% and 2% respectively. The investor additionally pays ground rent of the Ghana Cedi equivalent of \$2/ha/year throughout the life of the investment.



*Fig. 11: A 6 month old Eucalyptus plantation established by NICOL-MIRO in Boumfum Forest Reserve, Kumawu Forest District, Ashanti Region*

5,610.22ha of degraded forest reserve lands (41 compartments) was allocated to 20 private commercial developers in 2013.

This brings the total number of private developers that have been granted permits to undertake commercial plantation development within degraded forest reserves to Three Hundred and Ten (310) with a total allocated area of 124,369.28ha in 50 forest reserves.



*Fig. 12: NICOL-MIRO Eucalyptus spp nursery, near Ananekrom in the Kumawu Forest District - Ashanti Region*



*Fig. 13: A 2 month old teak stand established by NICOL - MIRO*



*Fig. 14: A 6 month old teak stand established by NICOL - MIRO*



*Fig. 15: A 3 year teak stand within NICOL-MIRO plantations in the Boumfum Forest Reserve, Kumawu Forest District*

2,746.51ha was planted by 56 commercial developers on-reserve in 2013. This brings the total area reported developed by commercial plantation developers within forest reserves to 36,200.52ha. This figure is yet to be verified through a technical audit. Details of commercial forest plantation developers within degraded forest reserves can be found in Appendix 1.

Nine (9) compartments were retrieved from six (6) non-performing plantation developers in 2013. The exercise to retrieve compartments from non-performing plantation developers will be pursued in earnest in 2014. Invoices for outstanding ground rent will also be issued to all plantation developers for payment.

Sixteen (16) private developers signed the Land Lease and commercial Benefit Sharing Agreements (LL/BSAs) in 2013 resulting in One Hundred and Twenty-six (126) LL/BSAs signed to date.

An estimated US\$40 million has so far been invested in Ghana by the four largest commercial plantation developers on-reserve namely, FORM Ghana Limited, NICOL-MIRO Forestry Company Limited, Mere Plantations Limited and Ayum Company Limited.

## **2.8 Large-Scale Private Forest Plantations Off-Reserve**

Currently there is one large-scale private forest plantation project off-reserve being undertaken by African Plantations for Sustainable Development (APSD) Ghana Limited in the Brong Ahafo Region.



APSD Ghana Limited is a privately owned company engaged in the establishment of fast growing plantations for bio-energy production in the Atebubu and Sene Districts of the Brong Ahafo Region. The company operates a mechanised state of the art forest tree nursery with an installed capacity of 25 million seedlings annually (Fig. 16L). The company has so far invested about US\$35 million in infrastructure, equipment and plantation development in Ghana.

APSD Ghana Limited has acquired an off-reserve concession with an estimated area of 86,000ha. The company has so far established 3,076ha plantations of Eucalyptus and Acacia and employs a labour force of 1,106 predominantly sourced from the local communities within the company's catchment area.



Fig. 16: Nursery workers at the APSD Nursery (L), Four year Eucalyptus spp. stand (R).

In 2013, the company established 1,565ha of plantations and employed 525 persons. The company aims to establish efficient electrical power production based on fast growing Eucalyptus and Acacia plantations. APSD plans to plant approximately 20,000ha of these tree species to feed two 30 MWe power plants based on three to five year tree rotations. The company intends to establish 3,000ha of plantations in year 2014.

## 2.9 Public Private Partnership (PPP) with FORM Ghana

In May, 2013 the FC signed a Public Private Partnership (PPP) agreement with FORM Ghana to jointly undertake a commercial plantation covering 14,596ha within Tain II forest reserve in the Sunyani Forest District. The project is estimated to cost US\$50.3 million to implement. The planting target for 2013 was 600ha and 640ha was reported planted. From 2014 an annual planting target of 2,000ha is to be executed.

Within the partnership, FORM Ghana is entitled to 80% of the plantation proceeds and benefits with the Forestry Commission, Landowners and Forest fringe communities entitled to the

remaining 20%. FORM Ghana will pay ground rent of the Ghana Cedis equivalent of \$2/ha/yr to the landowner and facilitation fee of \$2/ha/yr for customary and conflict resolution roles expected of the traditional authorities. The FC will undertake survey and demarcation and fire education within fringe communities at its own cost as part of its contribution to the project.

The PPP to date has employed 60 permanent employees and 267 temporary labourers under this project. Most of the recruited staff were from the forest fringe communities. The temporary workers were recruited for weeding, land preparation and planting of the project area. Over 650 additional workers are envisaged to be recruited for the 2014 target of 2,000ha.



*Fig.17: The Deputy Minister of Lands and Natural Resources Hon. Barbara Asamoah planting a teak stump at the FC-FORM Ghana PPP Site in the Tain II Forest Reserve, Sunyani Forest District.*



*Fig.18: (A) Six month teak stand in FC-FORM Ghana PPP holdings in Tain II Forest Reserve, Sunyani Forest District – Brong Ahafo Region (B) The Dep. Minister and her team in a 10 meter high fire observatory tower within the FC - FORM Ghana PPP plantation holdings in the Tain II Forest Reserve.*

## **2.10 FSD Plantations 2013**

Following the expiry of the management service contracts between the Forestry Commission and the EPP service providers, the Forest Services Division was tasked to establish 3,000ha of forest plantations in 2013, using hired labour from forest fringe communities. At the end of 2013 a total area of 2,857.61ha was verified as planted.

The FSD was also tasked to undertake the maintenance of the 18,987.55ha of established plantations (2010 to 2012 coupes) handed over by the Service Companies, however due to the late handing over (December, 2013) and lack of funds the target was not achieved.

### **2.10.1 Implementation Arrangements**

To ensure the effective and efficient implementation of the 2013 plantation establishment, an implementation plan was developed to guide the participating Regional and District FSD offices who were to implement the program. The implementation arrangements are attached as Appendix 3. Meetings were held in three sectors (Northern, Middle and Southern) of the country to make clear the implementation plan (Fig. 15A). Field/community meetings were also held at the beginning of the programme (Fig. 15B).

### **2.10.2 2013 Achievements**

An area of 2,853.33ha was reported as established in 113 sites within 65 Forest Reserves and 36 Forest Districts across all the 10 regions of Ghana. Three teams from the Forest Services Division Headquarters were despatched in November 2013 to undertake field verification of the reported achievements.



*Fig. 19: Mr. Raphael Yeboah, Executive Director of the FSD, taking notes during question time at the Northern Sector meeting in Tamale with Regional and District Managers*



*Fig. 20: Community meeting involving the Director of Operations, Plantations (Mr. Hugh C. A. Brown) and the Tumu Forest District Management at Tanvielle in the Upper West Region*

All 113 sites were tracked with GPS handsets and mapped. Out of the total of 2,853.33ha reported planted, the total verified effective area planted was 2,857.61ha. The details of the areas planted and verified are presented in Appendix 2.

2,504 temporary jobs were created in the establishment of the 2,857.61ha of plantations. These were hired forest fringe community members organised as work gangs for specific establishment activities and paid on contract basis for specific activities.

### **2.10.3 Budget and Expenditure**

The budget for the 3,000ha was GH¢5,301,600. Based on the achievement of 2857.61ha the expected expenditure was GH¢5,049,949.75.

At the end of the planting year, the total expenditure stood at GH¢2,524,029.92 out of the budgeted GH¢5,049,949.75 which resulted in the unit cost of establishment for the 2013 FSD plantation being GH¢883.26 per ha.

The reduction in expenditure was due to strict budget controls and prudent management; for example, contract fire patrols by fringe communities was rather undertaken by FSD Forest Guards at no additional cost.

The expenditure details for the 2013 programme is depicted in Table 3 below:

Table 3: Summary of Expenditure on 2013 Plantation Activities

<b>Activity</b>	<b>Revised Budget (2,857.61ha)(GH¢)</b>	<b>Actual Expenditure (GH¢)</b>	<b>Variance Analysis (Analyses of significant variances)</b>
Site Demarcation	47,150.00	49,500.00	
Procurement of planting material	1,114,467.90	683,995.47	Budget included 20% seedlings for beating up which was not undertaken. Additionally, more stumps were utilized than budgeted.
Plantation Establishment: (Site Preparation, Pegging and Planting)	1,100,179.85	987,269.07	Some illegal farms were planted up which reduced the cost of land preparation.
Tending (2x)	800,004.80	234,798.20	Due to late planting in many sites only one round of tending was undertaken instead of the two rounds budgeted for
Fire Ride Construction	121,000.00	19,033.00	Due to delayed payment of earlier contract activities, most work gangs refused to undertake the construction of fire rides resulting in very few fire rides being constructed.
Fire Patrols	1,200,007.20	-	Decision to use Forest Guards instead of community contracts
Monitoring and Supervision* (Regional/District Offices)	524,282.00	466,388.80	
Monitoring (FC/FSD HQ)*	142,858.00	83,045.38	
<b>TOTAL</b>	<b>5,049,949.75</b>	<b>2,524,029.92</b>	

\*Monitoring and Supervision costs covered all the existing plantation coupes within the Regions/Districts

### 3.0 FIRE INCIDENCE IN THE 2013/2014 FIRE SEASON

The key fire protection interventions undertaken to mitigate fire incidences in the 2013/2014 fire season were sensitization and awareness creation by RMSC and FSD field officers, fire ride construction and maintenance, and regular fire patrolling during the dry season by Forest Guards (especially 2013 coupes).

At the end of March 2014, reports indicated that 3,272ha of plantations established from 2010 to 2013 had been affected by fire compared to 4,578.22ha affected by fire in 2012/2013 fire season. The affected districts and coupes are detailed in Appendix 4. The regional summary is as detailed below in Table 4.

*Table 4: Area of Plantation coupes affected by fire in the 2013/2014 fire season by Region*

<b>Region</b>	<b>2010 Coupe (ha)</b>	<b>2011 Coupe (ha)</b>	<b>2012 Coupe (ha)</b>	<b>2013 Coupe (ha)</b>	<b>Total (ha)</b>
Upper East	-	-	47	65	112
Upper West	377	79	116	6	578
Northern	421	534	779	109	1,843
Brong Ahafo	131	60	105	3	299
Ashanti	162	96	81	3	342
Eastern	-	0	-	0	0
Western	2	0	-	0	2
Central	-	0	-	0	0
Greater Accra	-	0	-	0	-
Volta	69	10	12	2	96
<b>Total</b>	<b>1,191</b>	<b>779</b>	<b>1,140</b>	<b>188</b>	<b>3,272</b>

#### 4.0 FOOD PRODUCTION WITHIN 2011 TO 2013 PLANTATION COUPES

In 2013, an estimated 28,919.88 Metric Tonnes (Mt) of food crops were produced from the 15,431.66ha of forest plantations planted by the FC from 2011 to 2013.

The major crops produced were as follows: Plantain – 16,863.23MT, Cereals (maize, millet and rice) – 5,474.64MT, Tubers (Cocoyam, Cassava and Yam) – 7,702.65MT, Legumes (Beans, Cowpea, Groundnut and Sorghum) – 834.09MT and Vegetables (Tomato, Pepper, Garden Eggs) – 1,577.92MT. A summary of the food production per region is shown in Table 5 below with the details with respect to the various coupes shown in Appendix 5.

Table 5: Summary of food production in 2013 (2011 - 2013 coupes)\*

REGION	PLANTAIN (Mt)	CEREALS (Maize, Millet, Rice) (Mt)	TUBERS (Cocoyam, Cassava, Yam) (Mt)	LEGUMES (Beans, Cowpea, Groundnut, Sorghum) (Mt)	VEGETABLES (Tomato, Pepper, Garden Eggs) (Mt)	TOTAL FOOD PRODUCTION (Mt)
Western	3,269.05	5.10	275.35	-	-	3,549.50
Central	600.05	72.92	69.19	0.78	20.31	763.26
Northern	-	1,609.93	3,196.30	287.50	37.96	5,131.69
Eastern	1,482.59	99.93	312.99	6.99	32.83	1,935.33
Ashanti	9,222.77	1,445.73	1,933.53	55.89	1,065.22	13,723.14
Brong Ahafo	763.40	1,103.59	399.70	73.11	262.40	2,602.20
Upper East	-	450.08	-	83.40	-	533.48
Upper West	-	189.17	-	240.80	143.00	572.98
Greater Accra	-	-	-	-	-	-
Volta	3.85	99.96	-	-	4.50	108.31
<b>TOTAL</b>	<b>15,341.71</b>	<b>5,076.41</b>	<b>6,187.06</b>	<b>748.48</b>	<b>1,566.22</b>	<b>28,919.88</b>

\*Food production estimated as follows: Plantation Area reported intercropped with food crops x <sup>2</sup>MOFA 2010 Av. Yield (Mt/ha) x specific crop production factor [plantain:70%, Yam:70%, Cocoyam:30%, Maize:100%]

<sup>1</sup>Agriculture in Ghana, Facts and Figures (2010). Ministry of Food and Agriculture, 2011

#### 5.0 JOB CREATION

An estimated 5,184 jobs were created in 2013 to establish forest plantations under three components of the NFPDP. The jobs created comprised the underlisted:

- i. 2,504 jobs created under the FSD plantations, being recruited persons organised as work gangs to undertake plantation establishment and maintenance activities on contract basis.
- ii. 330 persons recruited under the FC/Timber Industry Plantation Development Fund on casual basis.
- iii. 60 permanent and 267 temporary staff recruited under the FC/FORM Ghana PPP in the Tain II Forest reserve and
- iv. An estimated 2,023 persons recruited by Private Commercial Developers on-reserve on temporary basis.

An additional 525 jobs were created by APSD (off-reserve private commercial developer) in 2013 through the establishment of 1,565ha.

## 6.0 PROGRAMME MONITORING

The 2013 National Forest Plantation Development Programme was monitored on various levels.

### Ministry of Lands and Natural Resources

The Ministry of Lands and Natural Resources during the year undertook monitoring visits to selected sites within the Ashanti and Brong Ahafo Regions (Figs. 21-24).

### Parliamentary Select Committee on Lands and Forestry

The Parliamentary Select Committee on Lands and Forestry also undertook visits to plantation sites in the Northern and Upper East Regions (Figs. 25 and 26).

### Forestry Commission

The Forestry Commission continued its routine monitoring nationwide through the Regional and District offices, in addition to monitoring visits by Corporate FC and FSD HQ. Field visits were also undertaken by the FC Internal Audit Unit to certify the evidence of plantation expenditures.

### External Auditors

Field visits were also undertaken by a team of External Auditors to verify the existence of the plantations established under the Expanded Plantation Program (EPP) (Figs. 27 and 28)

### Ghana Audit Service

The Performance Audit Department of the Ghana Audit Service also carried out a Performance Audit on the EPP to ascertain whether the Forestry Commission had adhered to its performance standards in the implementation of the program (Fig. 29).



*Fig. 21: Dep. Minister of Lands and Natural Resources' entourage including Mr. Abu Juam (Technical Director, MLNR), Mr. Obiaw (Director, RMSC) and others at a fire observatory within the FORM Ghana plantations in the Asubima Forest Reserve, Ashanti Region.*





*Fig. 22: The Deputy Minister's entourage being conducted around the FC/FORM Ghana PPP 2013 planting site by Mr. Thomas Okyere, Brong Ahafo Rrgional Manager, FSD in the Tain II Forest Reserve.*



*Fig. 23: The Deputy Minister of Land and Natural Resources (Hon. Barbara Asamoah) addressing the press during a field inspection of the 2007 Cedrela - indigenous species stand within the South Formangsu Forest Reserve in the Juaso Forest District.*



*Fig. 24: Hon. Barbara Asamoah addressing the press at the ceremonial tree planting site in Abofour, Offinso Forest District of the Ashanti Region, where the Late President J.E.A Mills launched the Expanded Plantation Programme of the NFPDP in January, 2010.*



*Fig. 25: A group photograph after a courtesy call on the Tamale Chief by the monitoring team from the Parliamentary Select Committee on Lands and Forestry during a tour of the Upper East and Northern Regions*



*Fig. 26: Monitoring by the Parliamentary Select Committee on Lands and Forestry in the Sinsangblegbinni Forest Reserve, Tamale Forest District - Northern Region.*



*Fig. 27 : Performance audit team of the Ghana Audit Service (GAS) undertaking a performance audit of the 2013 FSD plantation within the Tankwidi East Forest Reserves in the Bolgatanga Forest District.*



*Fig. 28 : Performance audit team of the Ghana Audit Service (GAS) undertaking a performance audit of the 2013 FSD plantation within the Yaya Forest Reserve in the Sunyani Forest District.*



*Fig. 29: Field verification of EPP sites by external auditors.*



*Fig. 30: Joint Head Office and Tumu Forest District monitoring team crossing a dilapidated bridge near Tanvielle*



*Fig. 31: A member of the Deputy Minister's entourage, Mr. Joseph Osiakwan (Principal Planning Officer - MLNR) expressing satisfaction after inspecting a plantation site in the Afram Headwaters F/R established by Mere Plantations Ltd.*

## **7.0 CHALLENGES**

The key challenge to the NFPDP is the absence of a reliable and adequate source of funding for plantation establishment and maintenance by Government.

Other challenges comprise the following:

- i. Inadequate Motorbikes and vehicles for field monitoring by FSD.
- ii. Annual destruction of planted areas by wildfire
- iii. Destruction of planted seedlings by cattle (Fulani Herdsmen)
- iv. Disagreements over off-reserve Benefit Sharing Arrangement under the EPP between Government and Land owners

## **8.0 WAY FORWARD**

- i. Complete field verification of all reported past plantation establishment achievements especially the Modified Taungya System (MTS), Community Forestry Management Project (CFMP) and the Private Commercial Developers on-reserve.
- ii. Carry out maintenance and requisite silvicultural interventions in the existing stands.
- iii. Provide refresher training for field staff.
- iv. Procure additional motorbikes and 4X4 vehicles for the various forest districts to facilitate field operations and monitoring of the NFPDP.
- v. Finalise and implement the Ghana Forest Plantation Strategy which seeks to among others, create an enabling environment for public and private investments in forest plantations

**APPENDIX 1**

**PERFORMANCE UPDATE OF PRIVATE PLANTATION DEVELOPERS ON-RESERVE**

NO.	COMPANY NAME	REGION	DISTRICT	FOREST RESERVE	COMPARTMENT/SERIES	AREA ALLOCATED (Ha)	AREA PLANTED-2013 (Ha)	AREA PLANTED TO DATE (Ha)	DATE OF ALLOCATION	SPECIES PLANTED
1	Addai Brother & Co.	Ashanti	Juaso	Bandai Hills	16, 17, 19, 25	512.0	0.0	45.0	-	Teak
2	Agogo Church of Pentecost	Ashanti	Juaso	Bandai Hills	6, 8	205.64	0.0	23.0	-	Teak
3	St. Augustine's Catholic Church (Agogo Roman Catholic Church)	Ashanti	Juaso	Bandai Hills	14,18	276.43	0.0	60.0	-	Teak
4	Agogo Saviour Church	Ashanti	Juaso	Bandai Hills	55	135.22	0.0	45.0	-	Teak
5	Apostle Nicholas Appiah Missah & Children	Ashanti	Juaso	Bandai Hills	1	131.3	0.0	4.0	13th June, 2013	N/A
6	The Apostolic Church - Ghana	Ashanti	Juaso	Bandai Hills	68,69	256.0	0.0	50.0	30th August, 2007	Teak
7	CEPACOD (Center for Poverty Alleviation and Community Development)	Ashanti	Juaso	Bandai Hills	38, 47	128.0	0.0	30.0	10th August, 2006	Teak
8	Concerned Citizen Group - Agogo	Ashanti	Juaso	Bandai Hills	54	128.0	0.0	0.0	-	N/A
9	Elder Sampson Yeboah & Frank Aboagye	Ashanti	Juaso	Bandai Hills	7	106.13	0.0	3.0	13th June, 2013	Teak
10	Gyima & Co. Farms Ltd	Ashanti	Juaso	Bandai Hills	15, 26	269.35	12.0	82.0	-	Teak
11	Isaac Owusu Farms	Ashanti	Juaso	Bandai Hills	28	147.96	0.0	10.0	12th December, 2011	Teak
12	K&P Farms (Nana Kwadwo Poku Bonsu)	Ashanti	Juaso	Bandai Hills	56	161.97	0.0	0.0	19th December, 2011	N/A
13	Kate Koroma	Ashanti	Juaso	Bandai Hills	41	133.22	0.0	10.0	12th December, 2011	Teak
14	Kwame Kyei Farms	Ashanti	Juaso	Bandai Hills	62	117.15	11.0	11.0	19th December, 2011	Teak
15	M'akaddesh Printing Press and Farms	Ashanti	Juaso	Bandai Hills	72	204.74	20.5	60.5	21st August, 2006	Teak
16	Mapad Enterprise	Ashanti	Juaso	Bandai Hills	27	163.39	6.0	106.0	17th October, 2006	Teak
17	Mr. Otuo Serebour	Ashanti	Juaso	Bandai Hills	63	120.61	0.0	0.0	4th May, 2012	N/A

NO.	COMPANY NAME	REGION	DISTRICT	FOREST RESERVE	COMPARTMENT/SE RIES	AREA ALLOCATED (Ha)	AREA PLANTED- 2013 (Ha)	AREA PLANTED TO DATE (Ha)	DATE OF ALLOCATION	SPECIES PLANTED
18	Nana Akuoku Sarpong Farms	Ashanti	Juaso	Bandai Hills	20, 21,22,23,24	689.78	0.0	82.47	-	Teak
19	Obbew Ventures	Ashanti	Juaso	Bandai Hills	46	128.0	0.0	15.0	10th March, 2005	Teak
20	Oppong-Mensah Enterprise	Ashanti	Juaso	Bandai Hills	70	128.0	0.0	10.0	5th July, 2006	Teak
21	Pascal Gaye	Ashanti	Juaso	Bandai Hills	29	145.0	0.0	42.0	24th February, 2009	Teak
22	Patrick Gyekye-Mensah	Ashanti	Juaso	Bandai Hills	59	125	0.0	0.0	17th Jan. 2007	N/A
23	Prof A.B Akosa	Ashanti	Juaso	Bandai Hills	66	119.95	0.0	10.0	29th March, 2007	Teak
24	Samrose Company Limited	Ashanti	Juaso	Bandai Hills	12	128.0	0.0	20.0	13th March, 2007	Teak
25	Tropical Farms	Ashanti	Juaso	Bandai Hills	48, 49, 50, 51	519.21	0.0	15.0	31st January, 2001	Teak
26	Antwi Boasiako Farms	Ashanti	Juaso	Dome River	5	147.42	0.0	7.0	27th Oct. 2009	Teak
27	Benakuf Timber and Trading	Ashanti	Juaso	Dome River	30,38	99.2	0.0	28.0	9th December, 2002	Teak
28	Double Ben Construction Ltd	Ashanti	Juaso	Dome River	21	98.91	0.0	0.0	22nd September, 2009	N/A
29	D.T.K Timbers	Ashanti	Juaso	Dome River	20,26,35	384.0	0.0	90.0	21st July, 2004	Teak, Cedrela
30	Juaso Traditional Authority	Ashanti	Juaso	Dome River	25,27	250.0	0.0	60.0	28th April, 2003	Wawa, Manzonla, Mahogany, Ofram, Emire
31	KAMVIS	Ashanti	Juaso	Dome River	19	281.54	0.0	12.0	5th November, 2004	Teak
32	K. Green Global	Ashanti	Juaso	Dome River	36	128.0	0.0	0	16th April, 2003	N/A
33	Kwame Bi Kufour	Ashanti	Juaso	Dome River	39	128.00	0.0	30.0	10th December, 2013	N/A
34	LI-Chan Enterprise Gh. Ltd	Ashanti	Juaso	Dome River	10	134.59	0.0	13.0	11th August, 2003	Teak
35	Margaret Campbell	Ashanti	Juaso	Dome River	46	114.64	0.0	7.0	9th Dec. 2002	Teak
36	Obogu Traditional Council	Ashanti	Juaso	Dome River	35, 36, 37, 47		0.0	0.0	16th March, 2011	Teak
37	PIDECK Co. Ltd	Ashanti	Juaso	Dome River	40,45	250.0	0.0	11	-	N/A
38	Talento Wood Processing Enterprise	Ashanti	Juaso	Dome River	29	135.51	0.0	40.0	9th April, 2003 25th June, 2003	N/A
39	Wukupomaa Export and Import Company Limited	Ashanti	Juaso	Dome River	44	139.35	0.0	10.0	12th May, 2005	Teak
									10th August, 2005	Teak



NO.	COMPANY NAME	REGION	DISTRICT	FOREST RESERVE	COMPARTMENT/SERIES	AREA ALLOCATED (Ha)	AREA PLANTED-2013 (Ha)	AREA PLANTED TO DATE (Ha)	DATE OF ALLOCATION	SPECIES PLANTED
40	Y & M Regeneration Ltd	Ashanti	Juaso	Dome River	22	118.71	0.0	18.0	17th September, 2009	N/A
41	Apostiga Company Limited	Ashanti	Juaso	Mirasa Hills	12,13,19	378.2	0.0	270.0	20th March, 2003	Teak
42	Beige Leaf Limited	Ashanti	Juaso	Mirasa Hills	18	128.0	0.0	0.0	8th December, 2011	N/A
43	Coxwain Investment	Ashanti	Juaso	Mirasa Hills	21B	87.89	0.0	0.0	6th January, 2011	N/A
44	ETIBECK Limited	Ashanti	Juaso	Mirasa Hills	40A,40B	256.0	0.0	15.0	23rd April, 2003	Teak
45	Logwood Industries Limited	Ashanti	Juaso	Mirasa Hills	3,7	256.0	0.0	10.0	23rd and 24th February, 2003	Teak
46	Lou-Ralph Lodge Investment	Ashanti	Juaso	Mirasa Hills	22	128.57	0.0	100.0	22nd February, 2010	Teak
47	Mr. Samuel Benson-Adjee	Ashanti	Juaso	Mirasa Hills	49	117.51	17.0	31.0	22nd September, 2009	Teak
48	New Leaf Investment Limited	Ashanti	Juaso	Mirasa Hills	48	113.32	0.0	113.315	16th April, 2008	Teak, Mahogany, Wawa, Kusia, Odum, Ofram, Mansonia, Kokrodua
49	Omega Wood Processing	Ashanti	Juaso	Mirasa Hills	47	128.0	0.0	30.0	11th April, 2003	Teak
50	Pen Pal Wood Processing	Ashanti	Juaso	Mirasa Hills	20,25,26,27	500.0	0.0	36.9	8th July, 2003	Teak
51	SKOD	Ashanti	Juaso	Mirasa Hills	50	128.0	0.0	10.0	5th October, 2004	Teak
52	Talento Wood Processing Enterprise	Ashanti	Juaso	Mirasa Hills	38	127.82	0.0	0.0	13th December, 2011	N/A
		Ashanti	Juaso	Mirasa Hills	39	175.55	10.0	80.0	2010	Teak
53	Upstream Investment	Ashanti	Juaso	Mirasa Hills	21A	54.67	0.0	0.0	6th January, 2011	N/A
54	Aboagye Danso Samuel	Ashanti	Juaso	North Bandai Hills	41	128.6	0.0	0.0	30th January, 2013	N/A
55	Asante Akyem Wood Processing Co. Ltd	Ashanti	Juaso	North Bandai Hills	60,62	213.18	10.0	30.0	23rd December, 2002	Teak
56	Charity Asiedu	Ashanti	Juaso	North Bandai Hills	39	124.50	0.0	0.0	14th October, 2013	N/A

NO.	COMPANY NAME	REGION	DISTRICT	FOREST RESERVE	COMPARTMENT/SERIES	AREA ALLOCATED (Ha)	AREA PLANTED-2013 (Ha)	AREA PLANTED TO DATE (Ha)	DATE OF ALLOCATION	SPECIES PLANTED
57	Noble 'G'	Ashanti	Juaso	North Bandai Hills	43	128.43	0.0	0.0	30th January, 2013	N/A
58	Yaw Asamoah	Ashanti	Juaso	North Bandai Hills	55	133.89	0.0	0.0	8th November, 2013	N/A
59	Yonka Farms	Ashanti	Juaso	North Bandai Hills	58	103.30	0.0	0.0	-	N/A
60	Boakyewaa Enterprise Limited (BEL)	Ashanti	Juaso	Onyimso	3,4,5,6	508.66	120.0	470	20th Nov. 2002	Alanbrakia, Kusia, Ceiba, Odum, Makore, Wawa, Ofram, Mahogany, Emire
61	Prashanti Export Limited	Ashanti	Kumawu	Anumso	22	200.0	0.0	91.0	-	
62	Abrofo Farms & Trading Enterprise	Ashanti	Kumawu	Boumfum	132, 136, 141	384.0	0.0	45.0	18th March, 2005	
63	Aid to Artisan Ghana	Ashanti	Kumawu	Boumfum	153, 158, 159	128.0	0.0	75.0	10th April, 2003	Teak
64	Asadu Royal Waste Ashanti Youth Agro Forestry Organization (AYAO)	Ashanti	Kumawu	Boumfum	121	128.0	0.0	0.0	21st November, 2012	N/A
65	Bibiani Logging and Lumber Company Limited (BLLC)	Ashanti	Kumawu	Boumfum	18	149.4	0.0	40.0	25th January, 2001	
66		Ashanti	Kumawu	Boumfum	23, 25-27, 34	637.0	0.0	100	-	Cedrela, Teak
67	Dale Brook Company Ltd	Ashanti	Kumawu	Boumfum	56,65,75,76,77, 83, 84, 85,91,92,93,98 and portions of 57,66,67	1627.26	0.0	128.25	-	Teak
68	Duadem Inventories	Ashanti	Kumawu	Boumfum	185, 186, 192, 193	500.0	0.0	90	25th January, 2001	
69	Ejisu Forest Products	Ashanti	Kumawu	Boumfum	220, 221, 222, 217	128.0	0.0	0		
70	Forjane	Ashanti	Kumawu	Boumfum	143	119.34	0.0	2	23rd January, 2006	
71	Ghana Sawm Timber Sellers Association	Ashanti	Kumawu	Boumfum	126, 122	255.9	0.0	54	15th December, 2006	

NO.	COMPANY NAME	REGION	DISTRICT	FOREST RESERVE	COMPARTMENT/SERIES	AREA ALLOCATED (Ha)	AREA PLANTED-2013 (Ha)	AREA PLANTED TO DATE (Ha)	DATE OF ALLOCATION	SPECIES PLANTED
72	Ghana Timber Association (G.T.A)	Ashanti	Kumawu	Boumfum	144, 145, 147, 148, 150, 151	860.0	0.0	44.7	25th January, 2001	Teak, Wawa, Cedreia, Mahogany, Ceiba, Kokrodua, Apro, Ofram
73	Greenfields Plantations Limited (A.G Timbers Ltd)	Ashanti	Kumawu	Boumfum	4, 5, 6, 8, 10, 11, 12, 13, 14, 17, 20, 21	1830.56	0.0	775.46	-	N/A
74	Hollypart	Ashanti	Kumawu	Boumfum	142	128.0	0.0	0.0	26th February, 2013	N/A
75	Johnson Agyeman Farms	Ashanti	Kumawu	Boumfum	79, 80	190.78	10.0	160	23rd March, 2006	Teak
76	KWAMOKA Farms & Processing Limited	Ashanti	Kumawu	Boumfum	223	90.97	0.0	0	5th November, 2012	N/A
77	Miro National Interest Company Limited (MIRO-NICOL)	Ashanti	Kumawu	Boumfum	(Agogo Portion) 120,123,124,127, 131, 134, 135, 138, 139, 140, 156, 155, (Kumawu Portion) 29,30,48,52,53, 54,55,61,62,63, 64,70, 72, 75, 78, 89, 90, 96, 97, 101, 102, 103, 106, 108, 109, 111	5002.28	405.0	1254.84	18th May, 2009	Teak, Cedreia, Eucalyptus, few indigenous species
78	Miro National Interest Company Limited (MIRO-NICOL)	Ashanti	Kumawu	Boumfum	87, 88, 94, 105, 107, 110, 112, 119, 130, 146, 160, 115	1536.00	0.0	0	21st November, 2012	
79	Nana Yaw Omane Frimpong	Ashanti	Kumawu	Boumfum	99, 100, 133	400.0	0.0	65.5	6th January, 2004	

NO.	COMPANY NAME	REGION	DISTRICT	FOREST RESERVE	COMPARTMENT/SE RIES	AREA ALLOCATED (Ha)	AREA PLANTED- 2013 (Ha)	AREA PLANTED TO DATE (Ha)	DATE OF ALLOCATION	SPECIES PLANTED
80	Omega Wood Processing	Ashanti	Kumawu	Boumfum	213, 216, 218, 219	500.0	0.0	120	11th April, 2003	
81	Premier Solutions	Ashanti	Kumawu	Boumfum	120	128.0	0.0	0	4th December, 2012	
82	Zebra Imex Ltd	Ashanti	Kumawu	Boumfum	81, 82	239.15	20.0	20	20th April, 2007	
83	Logwood Industries Limited	Ashanti	Mampong	Abrimasu	7, 8	200.0	0.0	100.0	2002	Teak
84	Sarprim Farms & Trading Company Ltd	Ashanti	Mampong	Abrimasu	6	126.0	0.0	90.0	9th April, 2003	Teak
85	Dufie Amponsah Farms	Ashanti	Mampong	Awura	16	109.85	0.0	20.0	11th January, 2005	
86	Ernest Best Company Ltd	Ashanti	Mampong	Awura	38	121.5	0.0	35.0	-	Teak
87	Forest Business Consult	Ashanti	Mampong	Awura	19	128.0			8th July, 2013	
88	Greenfields Plantations Limited (Naja David Veneer and PlyWood)	Ashanti	Mampong	Awura	65, 66, 69, 70, 71	2,039.3	0.0	477.0	-	Teak, Cedrela, Ceiba, Mahogany
89	Gyamfi & Asare	Ashanti	Mampong	Awura	41	137.31	0.0	5.0	15th January, 2010	Teak
90	Help Crush Aids Ghana	Ashanti	Mampong	Awura	42	120.0	0.0	42.0	28th February, 2005	Teak
91	Karamanga Industries Limited	Ashanti	Mampong	Awura	39, 40, 45	391.12	3.0	146.4	25th Nov. 1999	Teak
92	KuulTrade Enterprise	Ashanti	Mampong	Awura	12	128.49	6.5	86.5	19th April, 2005	Teak
93	Kwasi Agyekum Farms	Ashanti	Mampong	Awura	31	165.31	8.0	48.0	-	Teak
94	Litworth Impex Ltd	Ashanti	Mampong	Awura	9	155.58	9.0	89.0	19th April, 2005	Teak
95	NABE Wood Processing Co. Ltd	Ashanti	Mampong	Awura	23	100.0	0.0	60.0	20th Nov. 2002	Teak
96	R.K.A.T Limited	Ashanti	Mampong	Awura	20	103.18	0.0	25.0	-	Teak
97	reNew Company Limited	Ashanti	Mampong	Awura	47, 48, 49, 50, 51, 53, 54, 55, 56, 57	1,347.3	0.0	5.0	2008	Teak, Mahogany
98	Abeam Danso Poku Sarfo	Ashanti	Mampong	Chirimfa	86	363.74	0.0	20.0	2nd February, 2010	Teak
99	Elder Jewellery	Ashanti	Mampong	Chirimfa	71	110.60	5.0	50.0	-	
100	Goose Green Company Limited	Ashanti	Mampong	Chirimfa	12	120.0	0.0	1.0	30th January, 2003	
101	Greenfields Plantations Limited (Paul Sagoe)	Ashanti	Mampong	Chirimfa	1,2	129.52	0.0	4.0	2002	Teak

NO.	COMPANY NAME	REGION	DISTRICT	FOREST RESERVE	COMPARTMENT/SERIES	AREA ALLOCATED (Ha)	AREA PLANTED-2013 (Ha)	AREA PLANTED TO DATE (Ha)	DATE OF ALLOCATION	SPECIES PLANTED
102	JOSBOA Consulting Limited	Ashanti	Mampong	Chirimfa	20, 21	273.88	10.0	10.0	9th April, 2013	Teak
103	Joseph Antwi (Kwame Amoah)	Ashanti	Mampong	Chirimfa	82	118.19	0.0	10.0	-	Teak
104	Kwarteng Plantations	Ashanti	Mampong	Chirimfa	3	94.1	1.0	9.0	12th December, 2008	Teak
105	Kumasi Farms Complex	Ashanti	Mampong	Chirimfa	26	151.62	0.0	41.85	20th February, 2006	Teak
106	K-Wuss Enterprise	Ashanti	Mampong	Chirimfa	27	140.14	5.0	65.0	20th April, 2007	Teak
107	Kyeremateng Tieku & Sons Ltd	Ashanti	Mampong	Chirimfa	19	100.9	0.0	65.0	7th April, 2004	Teak
108	Mag K Enterprise	Ashanti	Mampong	Chirimfa	22	142.17	10.0	75.0	20th April, 2007	Teak
109	Onyame Tumiso Sawmills	Ashanti	Mampong	Chirimfa	13	91.65	0.0	43.648	31st December, 2002	Teak
110	Richard William Quaynor	Ashanti	Mampong	Chirimfa	88	157.54	0.0	90	-	Teak
111	Vanexx Enterprise	Ashanti	Mampong	Chirimfa	77	60.31	10.0	10.0	15th February, 2012	Teak
112	Evans Timbers Ltd	Ashanti	Mampong	Pru Shelter belt	6	148.32	0.0	58	2002	Teak
113	Jeed-San Farms	Ashanti	Mampong	Pru Shelter belt	36	120.0	20.0	69	2009	Teak
114	Nsiah Gyamerah	Ashanti	Mampong	Pru Shelter belt	5	127.40	11.0	20.5	2009	Teak
115	Opmanpok Ent	Ashanti	Mampong	Pru Shelter belt	4	120.0	0.0	4.0	23rd January, 2006	Teak
16	Unity Afforestation and Tree Nursery Project	Ashanti	Mampong	Pru Shelter belt	39, 44	221.42	30.0	125	20th May, 2005	Teak
117	Abaascom Ent Ltd	Ashanti	Nkawie	Desiri	114	152.5	0.0	64	24th December, 2002	Cedrele, Teak
118	Duncan Williams	Ashanti	Nkawie	Desiri	39	92.7	0.0	0	-	
119	GAC (Nana Adu Kwabena Gabriel Co. Ltd)	Ashanti	Nkawie	Desiri	88, 108, 113	385.0	0.0	385	24th February, 2003	Cedrele, Teak
120	Greenfields Plantations Limited/ Scanstyle	Ashanti	Nkawie	Desiri	63, 72, 73, 81, 82, 91, 92, 103, 117	359.9	0.0	29.4	-	Cedrele, Teak

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	Opanin Twene Kwame Company Ltd.	Ashanti	Nkawie	Desiri	9,10	292.02	0.0	88.0	1984 ?	Wawa, Manzonnia, Odum, Edinam, Utile, Mahogany, Ofram, Onyina, Akata, Asanfina, Hyeduakyenkye n, Teak, Sapele, Otie, Cedrela, Teak, Emire
<b>121</b>										
<b>122</b>	TSL (Tepa & Techiman Sawmills Ltd)	Ashanti	Nkawie	Desiri	89, 90	256.0	0.0	76.0	-	Cedrela, Teak
<b>123</b>	ADK Timbers Co. Ltd	Ashanti	Nkawie	Jimira	18	128.0	0.0	44.0	-	Cedrela, Teak
<b>124</b>	Akwasi Agyei & Opuku Timbers (KAGO)	Ashanti	Nkawie	Jimira	8	128.0	0.0	60.0	6th January, 2004	Cedrela, Teak
<b>125</b>	Benakuf Timber and Trading	Ashanti	Nkawie	Jimira	15	99.92	0.0	25	2004	Cedrela, Teak
<b>126</b>	Maybrob Co. Ltd/ Central Market Folksline Women's Association	Ashanti	Nkawie	Jimira	5, 7&42, 40&44	683.11	0.0	22.1.0	23rd March, 2004 6th January, 2004? 15th June, 2004	Cedrela, Teak
<b>127</b>	OAEK (Oduro Anane Ent.)	Ashanti	Nkawie	Jimira	14	128.0	0.0	40.0	23rd March, 2004 22nd December, 2004?	Cedrela, Teak
<b>128</b>	OAEK (Oduro Anane Ent.) Osei Tutu (O.T) Brothers Ltd	Ashanti	Nkawie	Jimira	38	128.0	0.0	45.0	2004	Cedrela, Teak
<b>129</b>	SKOD Timbers	Ashanti	Nkawie	Jimira	22, 26, 30	384.0	0.0	5.0	23rd January, 2004	Cedrela, Teak
<b>130</b>	TSL (Tepa & Techiman Sawmills Ltd)	Ashanti	Nkawie	Jimira	32	129.7	0.0	30.0	23rd January, 2003	Cedrela, Teak
<b>131</b>	Wood Pillar	Ashanti	Nkawie	Jimira	9	128.0	0.0	5.0	3rd June, 2004 16th December, 2004	Cedrela, Teak
<b>132</b>	Logwood Industries Limited	Ashanti	Nkawie	Jimira	33	128.0	0.0	4.0	2004	Cedrela, Teak

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133	Bibiani Logging and Lumber Company Limited	Ashanti	Nkawie	Jimira Extension	19,20,23,24	406.73	0.0	128.0	-	Cedrele, Teak
134	City View Company Ltd (CVC)	Ashanti	Nkawie	Jimira Extension	21	128.0	0.0	128.0	10th December, 2004	Cedrele, Teak, Ceiba (sparsely)
135	N&B Link Timber Company Limited	Ashanti	Nkawie	Jimira Extension	17, 20	256.0	0.0	49.0	8th June, 2004	Cedrele, Teak
136	Nana Osei Akoto	Ashanti	Nkawie	Tinte Bepo	86, 90	143.5	0.0	0.0	2008	N/A
137	Ahwiaa Wood Products Association for Conservation and Development	Ashanti	Offinso	Afram Headwaters	33, 35, 101	380.0	0.0	209.0	1996	Cedrele, Teak
138	Development	Ashanti	Offinso	Afram Headwaters	69	100.0	0.0	25.0	-	Teak
139	Ben 'O Investments Ltd	Ashanti	Offinso	Afram Headwaters	5, 124	179.0	0.0	75.0	18th March, 2005	Cedrele, Teak
140	Evans Timbers Ltd	Ashanti	Offinso	Afram Headwaters	107,108	205.99	0.0	170.0	1999	Teak
141	Grow Teak	Ashanti	Offinso	Afram Headwaters	74	128.0	0.0	42.0	2003	Teak
142	Hon. Baffour Kese-Amankwaa	Ashanti	Offinso	Afram Headwaters	106	128.00	0.0	0.0	8th March, 2013	N/A
143	JOJAYKO Enterprise	Ashanti	Offinso	Afram Headwaters	95, 120	205.61	15.0	15.0	4th November, 2012	Teak
144	K.B.K Timbers	Ashanti	Offinso	Afram Headwaters	92	40.38	0.0	40.38	-	Teak
145	Kwadukoff Co. Ltd	Ashanti	Offinso	Afram Headwaters	102	111.91	10.0	70.0	2003	Teak
146	Logwood Industries Limited	Ashanti	Offinso	Afram Headwaters	34	100.0	0.0	50.0	2003	Teak, Cedrele
147	Mere Plantations Limited	Ashanti	Offinso	Afram Headwaters	12-14,17-23,29-31,112-114,116-118; 41,43,45,47,80-86,96-100,104,105	4,078.50	347.0	1519.5	5th January, 2007	Teak
148	Ben Dwomo	Ashanti	Offinso	Afrensu Brohuma	23,24,25,26	518.48	0.0	89.0	-	
149	Diaby Leasing Company Limited	Ashanti	Offinso	Afrensu Brohuma	9,10	279.720	45.0	135.0	7th Jan. 2004 21st March, 2010	Teak
150	FORM Ghana Ltd	Ashanti	Offinso	Afrensu Brohuma	8,12,19,20,21,22, 27,28,29,32,33,34,35	1778.13	0.0	1778.129	1st September, 2012?	Teak, Ceiba, Mahogany, Albizia, Ofram, Emire, Kola, Kokrodua, Potradom
151	HABITAT TIMBERS	Ashanti	Offinso	Afrensu Brohuma	46	125.0	0.0	100.0		

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152	Michael Larbi	Ashanti	Offinso	Afrensu Brohuma	47	124.43	0.0	90.0	16th March, 2010	Teak
153	Next Door Farms	Ashanti	Offinso	Afrensu Brohuma	49	126.14	0.0	50.0	24th February, 2012	Teak
154	SUNSTEX	Ashanti	Offinso	Afrensu Brohuma	11, 12, 14, 15, 17, 41, 42A, 42B, 43, 44, 45A, 45B, 50A, 51A, 52A, 53, 55, 56	2,200.0	0.0	96.3	-	Teak
155	Unity Afforestation and Tree Nursery Project	Ashanti	Offinso	Afrensu Brohuma	30, 31	248.70	10.0	228.40	5th March, 2005	Teak
156	Ahmed Suleman Farms & Company Limited	Ashanti	Offinso	Asubima	15, 16, 17, 18, 19, 24, 25, 26	1,128.27	0.0	1000	-	Teak, Cassia
157	Colonel R.K Opoku Adusei	Ashanti	Offinso	Asubima	56	128.0	0.0	50.0	20th February, 2006	Teak
158	Form Ghana Ltd	Ashanti	Offinso	Asubima	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 2	1776.50	0.0	1776.498	30th Oct. 2007	Teak, Ceiba, Mahogany, Albizia, Ofram, Emire, Kola, Kokrodua, Potradom
159	Suleman Twi Farms	Ashanti	Offinso	Asubima	61, 62	270.16	0.0		-	
160	International Seed Centre	Ashanti	Offinso	Asufu East	7, 8	256.0	0.0	28.0	-	Cedrela, Teak
161	Kwaku Poku Timbers Ltd	Ashanti	Offinso	Asufu East	4, 5	255.27	0.0	195.0	7th January, 2004	Cedrela, Teak
162	Nkunim Ventures	Ashanti	Offinso	Asufu East	6	135.0	0.0	135.0	-	Predominantly teak, Ofram, Wawa
163	Offin Timbers & Construction Co. Ltd (O.T.C.C)	Ashanti	Offinso	Asufu West Shelterbelt	18 & 19	256	10.0	30.0	4th September, 2004	Cedrela, Teak
164	Sarheng Limited	Ashanti	Offinso	Asufu West	16, 17	256.0	10.0	175.0	13th January, 2004; 10th September, 2004	Cedrela, Teak
165	Adu- Gyamfi Farms	Ashanti	Offinso	Kwamisa	55	141.45	0.0	141.45	24 December, 2001	Teak



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166	Aidoo Ntim Farms	Ashanti	Offinso	Kwamisa	54	154.04	0.0	90.0	24 December, 2001	Teak
167	ASA BEA Enterprise	Ashanti	Offinso	Kwamisa	24	125.45	22.0	115.0		Teak
168	Asante Wiredu & Associates	Ashanti	Offinso	Kwamisa	2	150.17	0.0	150.172	8th January, 2004	Teak
169	Asantewaa Enterprise Limited	Ashanti	Offinso	Kwamisa	52, 34	257.76	63.764	257.764	31st December, 2002 8th January, 2004	Teak
170	Asotia Boakye Company Limited	Ashanti	Offinso	Kwamisa	39	129.4	0.0	100.0	10th January, 2005	Teak
171	Assakyiri Timbers and Wood Products	Ashanti	Offinso	Kwamisa	56	128.0	0.0	30.0	26th March, 2003	Teak
172	William K. Asumadu & Margaret A. Kwabia	Ashanti	Offinso	Kwamisa	30	112.2	9.0	72.4	-	Teak
173	B. Y Ofori Frimpong	Ashanti	Offinso	Kwamisa	20	161.95	12.6	29.60	24th February, 2009	Teak
174	Boadu Ayebofoa (Osei Kojo Timbers)	Ashanti	Offinso	Kwamisa	46	136.21	18.0	110.0	20th December, 2002	Teak
175	Bonfrim Business Services	Ashanti	Offinso	Kwamisa	51	133.16	0.0	130.0	20th December, 2002	Cedrela, Teak
176	Charles Amankwah	Ashanti	Offinso	Kwamisa	44	129.14	42.6	124.0	-	Teak
177	Classic Farms Co. Ltd	Ashanti	Offinso	Kwamisa	48	120.20	32.0	118.0	16th May, 2005	Teak
178	CWC Ventures Limited	Ashanti	Offinso	Kwamisa	49	114.93	0.0	114.931	1st September, 2005	Teak
179	D&G Consults	Ashanti	Offinso	Kwamisa	40	135.0	85.0	135.0	25th October, 2007	Teak
180	Zypher Consult	Ashanti	Offinso	Kwamisa	43	130.2	40.0	120.0		Teak
181	Eghan & Eghan Investments Limited	Ashanti	Offinso	Kwamisa	57	149.53	0.0	149.53	21st December, 2011 10th January, 2005	Teak
182	EL-SARP Unique Company Limited	Ashanti	Offinso	Kwamisa	47	100.0	0.0	100.0	20th December, 2002	Teak
183	Europe Auto and Europe Farms Ltd	Ashanti	Offinso	Kwamisa	36, 37	260.44	0.0	260.435	8th January, 2004	Teak, Emire, Ofram, Tweapia
184	Faustina Kusi Timber Co. Ltd	Ashanti	Offinso	Kwamisa	42	128.0	0.0	80.0	20th January 2004	Teak
185	Florart Ventures Limited	Ashanti	Offinso	Kwamisa	18	178.23	0.0	169.32	10th January, 2005 10th? or 12th?	Teak

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186	Gorbros Ventures	Ashanti	Offinso	Kwamisa	50	162.17	0.0	128.0	24th December, 2002	Teak, Cedrela
187	Hon. Andrews Adjei Yeboah	Ashanti	Offinso	Kwamisa	32	86.52	10.0	30.0	Aug-08	Teak, Cedrela
188	Isaac Opoku Boateng	Ashanti	Offinso	Kwamisa	3	120.0	0.0	85.0	6th January, 2004	
189	JOB CONSTRUCT Ghana Ltd	Ashanti	Offinso	Kwamisa	22	96.99	0.0	96.992	20th February, 2006	Teak
190	KAP Farms Enterprise Limited	Ashanti	Offinso	Kwamisa	33,61	208.79	0.0	208.794	8th January, 2004, 31st December, 2002	Teak
191	Ken Boat	Ashanti	Offinso	Kwamisa	59	128.0	0.0	100.0		Teak
192	Kingsley Agyei Agyekum	Ashanti	Offinso	Kwamisa	23	128.0	0.0	41.0	25th October, 2007	Teak
193	Kwadukoff Co. Ltd	Ashanti	Offinso	Kwamisa	19	119.25	10.0	75.0	-	Teak
194	Orans Life Ltd	Ashanti	Offinso	Kwamisa	35,41	175.61	0.0	160.0	6th January, 2004	Teak
195	Osei Agyemang Badu	Ashanti	Offinso	Kwamisa	58	163.37	0.0	163.37	-	Teak, Ofram
196	OTK Farms	Ashanti	Offinso	Kwamisa	26	89.11	0.0	62.4	01/02/2007	
197	Paul Kwasi (P.K) Forson	Ashanti	Offinso	Kwamisa	38	129.55	1.548	129.548	7th January, 2004	Teak, Cedrela plus one indigenous
198	SENS PROGRAM	Ashanti	Offinso	Kwamisa	25	128.0	0.0	128.0	23rd January, 2006	Teak
199	Soak Farms & Trading Ent	Ashanti	Offinso	Kwamisa	53,60	253.21	0.0	253.206	31st December, 2002	
200	Vicalex Crafts Ltd	Ashanti	Offinso	Kwamisa	45	128.0	0.0	10.0	10th April, 2003	Teak
201	ANTICO Wood	Ashanti	Offinso	Mankrang	29,30	256.0	0.0	70.0	11th December, 2002	
202	BODUKWAN Farms	Ashanti	Offinso	Mankrang	18-23;26- 28;31,52-55;	2,548.0		0.0	17th January, 2013	
203	Camba Timbers	Ashanti	Offinso	Mankrang	61-63; 65-67 15	130.0	0.0	30.0	-	Cedrela, Teak
204	Esaase Wood Products Limited	Ashanti	Offinso	Mankrang	46,47	256.0	0.0	120.0	28th January, 2004 20th January, 2003	
205	Global Bamboo Products Ltd	Ashanti	Offinso	Mankrang	39	126.79	0.0	30.0	8th Jan. 2003	Bamboo, Teak
206	K.A.G Timbers	Ashanti	Offinso	Mankrang	4,16	241.61	0.0	123.0	20th January, 2003	
207	Nation Builders' Limited	Ashanti	Offinso	Mankrang	24	100.0	0.0	100.0	8th January, 2003	Teak

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208	Roy C Company Ltd	Ashanti	Offinso	Mankrang	3,6	384.0	0.0	75	31st December, 2002	Teak
209	Unity Afforestation and Tree Nursery Project	Ashanti	Offinso	Mankrang	Portions of 1, 15, 57, 58	214.62	0.0	214.619	27th August, 2005? 8th January, 2004 ?	Watapuo, Kyenkyen, Gmelina, Albizia, Mahogany, Wawa, Ofram, Cedrela
210	Ebenezer Amarkwei Laryea	Ashanti	Offinso	Opro River	95	141.43	0.0	0.0	8th July, 2013	N/A
211	Evans Timbers Ltd	Ashanti	Offinso	Opro River	19, 22, 73, 74	488.0	0.0	178.0	2002	N/A
212	Grow Forest Ltd	Ashanti	Offinso	Opro River	97	116.72	0.0	0.0	20th February, 2013	N/A
213	Iron Masters Company Ltd	Ashanti	Offinso	Opro River	92	129.82	0.0	0.0	20th February, 2013	N/A
214	JOB CONSTRUCT Ghana Ltd	Ashanti	Offinso	Opro River	91	117.56	50.0	50.0	2013	Teak, Ofram, Mahogany, Cedrela
215	Joe Sala Sawmill Ltd	Ashanti	Offinso	Opro River	93,94	244.77	10.0	220.0	31st December, 2002	N/A
216	J.Y.V Co. Ltd	Ashanti	Offinso	Opro River	96	121.96	0.0	0.0	8th February, 2013	N/A
217	Kwame-Bi Kuffour Timber Co. Ltd	Ashanti	Offinso	Opro River	98	128.0	5.0	65.0	11th August, 2003	Cedrela
218	Greenfields Plantations Limited/Ayum	Brong Ahafo	Bechem	Bosomkese	16-20, 49A & 49B	806.0	28.0	422	-	Cedrela, Celiba, Mansonina, Ofram, Utile, Mahogany, Wawa, Otie, Odum, Kusia, Kokrodua

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	Greenfields Plantations Limited/Ayum	Brong Ahafo	Dormaa	Mpameso	3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 25, 26, 27, 180, 181, 182, 183, 184, 214, 215, 223, 224, 225, 226, 227, 228, 229, 229A, 240, 241, 242, 243, 244, 245, 246, 247, 248	4,992.0	157.0	1010.45	-	Cedrela, Ofram, Mahogany, Edinam, Wawa, Emire, Kyenkyen, Utile, Mansonia, Otie, Kokrodua, Onyina, Senna siamea
219	Adams Farms	Brong Ahafo	Dormaa	Pamu Bereikum	69	140.0	0.0	80	7th March, 2006	Teak
220	Agyakwa Anyane & Charity Timbers	Brong Ahafo	Dormaa	Pamu Bereikum	96	50.0	0.0	10.0	10th May, 2005	Teak
221	AKABELS	Brong Ahafo	Dormaa	Pamu Bereikum	121,134	100.0	0.0	50.0	24th December, 2002	Teak
222	Akua Afriyie	Brong Ahafo	Dormaa	Pamu Bereikum	64,65,66,67	500.0	0.0	40.0	2002	Teak
223	Alexander Takyi Timbers (ATTS)	Brong Ahafo	Dormaa	Pamu Bereikum	48, 49, 50, (54), 55, 56, 62,63	1000.0	10.0	185.0	2003	Teak
224	Arthur Farms	Brong Ahafo	Dormaa	Pamu Bereikum	124	120.0	0.0	5.0	23rd January, 2007	Teak
225	Asoma & Family Plantation	Brong Ahafo	Dormaa	Pamu Bereikum	71	120.0	0.0	5.0	2001	Teak
226	Asuwam Complex	Brong Ahafo	Dormaa	Pamu Bereikum	86,87,88,100	480.0	0.0	100.0	2003	Teak
227	ATBED Company Limited	Brong Ahafo	Dormaa	Pamu Bereikum	92	125.0	0.0	80.0	7th May, 2004	Teak
228	Baah (Abena Kwabena)	Brong Ahafo	Dormaa	Pamu Bereikum	40,41,46,47,53	740.0	0.0	60.0	2004	Teak
229	Baffour Asamoah & Sons	Brong Ahafo	Dormaa	Pamu Bereikum	130	130.0	0.0	30.0	8th January, 2004	Teak
230	Concerned Citizen	Brong Ahafo	Dormaa	Pamu Bereikum	21	57.87	0.0	27.0	2002	Teak
231	Delta-K Ltd & Remorge	Brong Ahafo	Dormaa	Pamu Bereikum	131, 132	500.0	0.0	150.0	9th April, 2001	Teak
232	Dormaa Forestry International (Global Green)	Brong Ahafo	Dormaa	Pamu Bereikum	5, 6, 7, 8, 19, 20 Portions (9, 12, 13, 18, 80)	1,628.55	0.0	240.0	28th February, 2001	Teak
233	ZOIL Services Limited	Brong Ahafo	Dormaa	Pamu Bereikum	97,98,99, 124	1,000.0	0.0	0.0	2014	Teak
234	Hon. Yaw Afful	Brong Ahafo	Dormaa	Pamu Bereikum	123	128.0	10.0	12.0	2005	Teak
235										

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236	JOWAK Enterprise Limited	Brong Ahafo	Dormaa	Pamu Berekum	113, 128	1,000.0	0.0	165.0	29th January, 2001	Teak
237	Kyma Plantations	Brong Ahafo	Dormaa	Pamu Berekum	136	200.0	5.0	60.0	22nd March, 2007	Teak
238	Mireku Complex Limited	Brong Ahafo	Dormaa	Pamu Berekum	111	105.0	0.0	0.0	2012	-
239	Morricom Company Limited	Brong Ahafo	Dormaa	Pamu Berekum	135	259.70	15.0	79.70	7th January, 2004	Teak
240	Nana Kordie Yeboah II (Dormaa Aduanahene)	Brong Ahafo	Dormaa	Pamu Berekum	37	100.0	0.0	0.0	2012	-
241	Oboade Farms	Brong Ahafo	Dormaa	Pamu Berekum	38	128.0	0.0	0.0	14th October, 2013	-
242	Ohenba K.D. Foundation	Brong Ahafo	Dormaa	Pamu Berekum	43	50.0	0.0	20.0	8th January, 2004	Teak
243	Omanba Solutions Ltd	Brong Ahafo	Dormaa	Pamu Berekum	125	128.0	3.0	3.0	16th April, 2013	Teak
244	Original Asase Aban Complex Limited	Brong Ahafo	Dormaa	Pamu Berekum	82, 83	100	0.0	8.0	9th January, 2003	Teak
245	Osagyefo Oseadeyo Agyeman Badu II (Dormaaahene)	Brong Ahafo	Dormaa	Pamu Berekum	33, 34	186.95	40.0	40.0	2012	Teak
246	Partners Sustainability Limited	Brong Ahafo	Dormaa	Pamu Berekum	118,119,120	500	0.0	10.0	7th January, 2007	Teak
247	Peggy Addai	Brong Ahafo	Dormaa	Pamu Berekum	44, 45	500	5.0	110.0	29th January, 2002	Teak
248	Peter Ansu Kumih Farms	Brong Ahafo	Dormaa	Pamu Berekum	75	120	0.0	11.0	10th March, 2005	Teak
249	Prashanti	Brong Ahafo	Dormaa	Pamu Berekum	94-98	640	0.0	0.0	7th June, 2013	N/A
250	Rosa Company Limited	Brong Ahafo	Dormaa	Pamu Berekum	70.0	128.0	0.0	70.0	23rd January, 2003	Teak
251	Rural Forest Enterprise	Brong Ahafo	Dormaa	Pamu Berekum	23, 24	250.0	0.0	10.0	29th January, 2002	Teak
252	Sacred Heart Farms	Brong Ahafo	Dormaa	Pamu Berekum	76	120.0	0.0	9.0	10th March, 2005	Teak
253	Tuah Sawmills & Farms	Brong Ahafo	Dormaa	Pamu Berekum	25,26,27	309.94	0.0	100.0	2003	Teak

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254	Greenfields Plantations Limited/Ayum	Brong Ahafo	Sunyani	Amama	6B, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	3255.00	0.0	3062.0	-	Cedrela, Ofram, Ceiba, Mahogany, Edinam, Wawa, Emire, Kyenkyen, Koto, Utile, Mansonia, Otie, Makore, Asanfina, Akasa, Odum, Kokrodua, Eucalyptus, Pine, Cassia, Mangium, Kusia
255	Greenfields Plantations Limited/ Scanstyle	Brong Ahafo	Sunyani	Asukese	33, 34, 43	450.00	0.0	-	-	
256	Greenfields Plantations Limited/Ayum	Brong Ahafo	Goaso	Bia Shelterbelt	9, 14	260.0	5.0	217.0	24th October, 2008	Wawa, Mahogany, Ofram, Pronoo, Kokrodua, Odum, Otie, Asanfena, Onyina etc
257	James Owusu Ansah	Brong Ahafo	Sunyani	Sawsaw	3	119.24	0.0	0	-	
258	Atta Kruffie Enterprise	Brong Ahafo	Sunyani	Tain I	18,24,25	300.0	0.0	200.0	April, 2001	Teak
259	Franco Timbers	Brong Ahafo	Sunyani	Tain I	11, 12, 13, 14	561.0	0.0	561.0	25th January, 2001	Teak
260	Oti Yeboah Complex Limited (OYCL)	Brong Ahafo	Sunyani	Tain I	20, 21, 22, 26, 27	533.0	0.0	329	14th June, 2001.	Teak
261	Abronye Investment Company Limited	Brong Ahafo	Sunyani	Tain II	305, 306, 316, 327, 328, 329, 330, 331, 332	1,152.0	0.0	1082.5	2002	Teak

NO.	COMPANY NAME	REGION	DISTRICT	FOREST RESERVE	COMPARTMENT/SERIES	AREA ALLOCATED (Ha)	AREA PLANTED-2013 (Ha)	AREA PLANTED TO DATE (Ha)	DATE OF ALLOCATION	SPECIES PLANTED
262	Asuo Bomosadu Timbers & Sawmills Limited (ABTS)	Brong Ahafo	Sunyani	Tain II	12,14,15,16,17, 18,25,26,27, & Portion of 13 (Pruso) &163, 164, 165, 175, 176,177, 194, 195 & 196 (Namasua)	1,991.56	0.0	293.86	21st September, 2001	Teak, Mahogany, Cedrela, Ofram, Ceiba, Emire
263	Form Ghana Ltd (PPP)	Brong Ahafo	Sunyani	Tain II		14,596.0	640.0	640.0	-	Teak (dominant) Indigenous (sparse)
264	Logs and Lumber Limited (LLL)	Brong Ahafo	Sunyani	Tain II	207, 208, 209, 210, 211, 215, 216, 217	1211.61	0.0	232	2006	Teak
265	Pacewood Company Limited	Brong Ahafo	Sunyani	Tain II	290, 291, 292, 308, 311	616.23	0.0	216.57	28th March, 2003	Teak
266	Sidakon Woods Limited	Brong Ahafo	Sunyani	Tain II	201,202,203	356.0	160.0	240.0	2011	Teak
267	Frim-Owusu Limited	Brong Ahafo	Sunyani	Tain Tributaries II	239	150.0	0.0	22.0	2011	Teak
268	Messrs Tropical Agricultural Marketing and Consultancy Services	Central	Winneba	Yenku F/R, Block 'B'	5-26	432.8	0.0	0.0	9th February, 2010	
269	Atlantic Distribution	Eastern	Akim-Oda	Esen Epam	4,11	271.82	26.0	191.1	15th August, 2005	Cedrela, Ofram
270	CEPACOD (Center for Poverty Alleviation and Community Development)	Eastern	Begoro	Dede			0.0	0.0	20th December, 2002	
271	Miro National Interest Company Limited (MIRO-NICOL)	Eastern	Begoro	Dede		5,360.0	0.0	0.0	4th May, 2009	
272	Mike Asaam (ACMA Group)	Eastern	Begoro	Southern Scarp	87-90, 93-95 (Athinkwa)	179.51	0.0	100.0	-	
273	All Youth Farmers (NGO)	Eastern	Begoro	Southern Scarp	-	50	0.0	5.0	6th January, 2004	Cedrela

NO.	COMPANY NAME	REGION	DISTRICT	FOREST RESERVE	COMPARTMENT/SERIES	AREA ALLOCATED (Ha)	AREA PLANTED-2013 (Ha)	AREA PLANTED TO DATE (Ha)	DATE OF ALLOCATION	SPECIES PLANTED
					51, 53, 54, 56	323.42	0.0	144.0	9th January, 2004	Teak, Cedrele, Odum, Ceiba, Wawa, Ketreamfo, Ofram, Emire, Mahogany, Abeko, Osese, Odanhoma
274	Apstar Enterprise	Eastern	Begoro	Southern Scarp						
275	Evergreen Club of Ghana	Eastern	Begoro	Southern Scarp	1	50.0	0.0	50.0	-	Teak, Cedrele, Ofram, Emire, Cassia
276	Forest Research Institute of Ghana (FORIG)	Eastern	Begoro	Southern Scarp	Ahinkwa Series (Close to Farm 14)	50.0	8.0	50.0	2000	Ofram, Emire
277	Forest Research Institute of Ghana (FORIG)	Eastern	Begoro	Southern Scarp	Apa Series (205-206)	50.0	6.0	42.0	2000	Ofram, Emire
278	Health and Environmental Monitor	Eastern	Begoro	Southern Scarp	Pimpimso					
279	Kajoa Farms	Eastern	Begoro	Southern Scarp	Taungya Series 16	50.0	0.0	40.0	1st March, 2003	Teak, Cedrele
280	Kasapreko Co. Ltd	Eastern	Begoro	Southern Scarp	FRBP 234-248	1000.0	0.0	300.0	26th February, 2003	Mahogany
281	Oda Sawmills/Plywood Veneer Co. Ltd	Eastern	Begoro	Worobong South	64,65	124.0	0.0	92.0	1st January, 2001	
282		Eastern	Begoro	Worobong South	47, 48, 52 (Portion)	13.07	0.0	13.07	-	
283	Participatory Tropical Forest Development by Women in Indigenous Communities (PTFDWIC; 31st December Women's Movement)	Eastern	Begoro	Worobong South	FRBP 78-79	800	0.0	650	2001	Emire, Ofram, Mansonia, Ceiba, Teak, Cedrele, Kyenkyen, Edinam
284	Trust Link	Eastern	Mpraeso	Nkawanda		100	0.0	20	2006	



NO.	COMPANY NAME	REGION	DISTRICT	FOREST RESERVE	COMPARTMENT/SERIES	AREA ALLOCATED (Ha)	AREA PLANTED-2013 (Ha)	AREA PLANTED TO DATE (Ha)	DATE OF ALLOCATION	SPECIES PLANTED
285	BCS Limited			Northern Scarp	FRBP 422-44 of 0					
286	Ahanns Ghana Limited	Eastern	Mpraeso	Southern Scarp	Pillars 267 and 150. Kayera Village	20.0	0.0	10.0	6th July, 2005	Teak, Cedreila
287	Ebenezer B.C Enterprise	Eastern	Mpraeso	Southern Scarp	Pillars 267 and 150. Ntomeo	20.0	0.0	10.0	6th July, 2005	Teak, Cedreila
288	CFSL Farms	Eastern	Mpraeso	Southern Scarp		100.0		10.0	2006	
289	Collinsara & Sons	Eastern	Mpraeso	Southern Scarp	Dwerebease Series	30	0.0	10.0	2004	
290	Feneboat Enterprise	Eastern	Mpraeso	Southern Scarp		50		35.0	2003	
291	Jet Sawmills Limited	Eastern	Mpraeso	Southern Scarp	Dwerebease Series	66.3	0.0	40.0		
292	Mosho Enterprise Limited	Eastern	Mpraeso	Southern Scarp	Pillars 267 and 150. Ntomeo	50.0	0.0	10.0	11th July, 2005	Teak, Cedreila
293	Mr. Yaw Baafi	Eastern	Mpraeso	Southern Scarp	FRBP 245 and 247				2006	
294	Sir Hokoe Ghana Ltd	Eastern	Mpraeso	Southern Scarp	Kayera/Obuom Village	50.0	0.0	25.0	6th January, 2003	Teak, Cedreila
295	Groman Company Limited	Eastern	Somanya	Volta River Block II	Ashitey	120.5	0.0	2.0	16th July, 2009	Teak
296	Lordamn Ventures	Eastern	Somanya	Volta River Block I	N/A	100.0	0.0	40.0	14th March, 2007	
297	Thrive Enterprise	Greater Accra	Tema/Ada	Fiankonya	1-6, 8-11	300.0	0.0	80.0	29th September, 2005	Mahogany, Eucalyptus, Silk Cotton
298	Alhaji Issaka Farms Ltd	Northern	Bole	Yerada		50.0	0.0		12th January, 2004	N/A
299	F A Advances	Northern	Bole	Yerada			0.0		14th May, 2012	N/A
300	Jaksally Co. Ltd	Northern	Bole	Kenikeni		50.0	0.0		26th January, 2004	N/A
301	Jen Kurige Seidu Adamu	Northern	Bole	Kenikeni	N/A	50.0	0.0		26th January, 2004	N/A
302	Khanzan Wura (GH) Ltd	Northern	Bole	Kenikeni	N/A	50.0	0.0		9th January, 2004	N/A
303	Savannah Investment Limited	Northern	Bole	Kenikeni	N/A	100.0	0.0	0.0	-	N/A
304	Jamal '55' Ventures	Northern	Buipe/Damongo	Damongo Scarp		49.63	0.0		-	N/A
305	Africoop	Volta	Nkwanta	Chai River	N/A	100.0	0.0	0.0	-	N/A
306	JOWAK Enterprise Limited		Nkwanta	Chai River	N/A	5,000.0	0.0	0.0	16th March, 2012	N/A

NO.	COMPANY NAME	REGION	DISTRICT	FOREST RESERVE	COMPARTMENT/SE RIES	AREA ALLOCATED (Ha)	AREA PLANTED- 2013 (Ha)	AREA PLANTED TO DATE (Ha)	DATE OF ALLOCATION	SPECIES PLANTED
307	Messrs Noon Establishment (Nana Osei Broni)	Western	Bibiani	Anhwiaso East	30,34	30.85	0.0	10.0	2004	
308	Samartex Timber and PlyWood Company Limited	Western	Aowin (Enchi)	Tano Nimore	50,51,52,53,54, 74,75,76,77	1405.6	0.0	280.0	3rd March, 2003	Cedrela, Mahogany, Ceiba, Emire, Ofram, Nyiangon, Asanfena
309	JCM	Western	Juaboso-bia	Bia-Tawya			0.0	618.0	18th August, 1999	N/A
310	JCM	Western	Juaboso-bia	Manzan			0.0	257.3	18th August, 1999	N/A
<b>TOTAL</b>						<b>125,700.79</b>	<b>2,746.51</b>	<b>35,490.79</b>		

## ACHIEVEMENT UNDER THE 2013 NATIONAL FOREST PLANTATION DEVELOPMENT PROGRAM

Region	Forest District	Fringe Community	Forest Reserve	Target	Compartment Number	Reported Area Planted ( Ha )	Verified Area Planted (Ha)	Percentage Survival %	Species	Spacing
Brong Ahafo	Kintampo	Dagomba Line	Bosomoa	140.00	94 (plot A)	30.00	30.78	78	Teak	3X3
					95 (plot B)	14.45	14.45	95	Teak	3X3
					49 (plot A1)	17.55	17.55	75	Teak	3X3
					49 (plot A2)	20.00	4.44	70	Teak	3X3
					49 (plot A3)	3.66	3.66	70	Teak	3X3
		Paninamisa		40.00	39.57	87	Teak	3X3		
				40.00	38.65	85	Teak	3X3		
	<b>Subtotal</b>			<b>140.00</b>	<b>144.45</b>	<b>149.10</b>				
	Dormaa	Botokrom	Pamu Bereikum	120.00	103	30.00	27.43	80	Teak	3X3
		Mkyenkyennamamu			103/104	30.00	31.10	88	Teak	3X3
		Abrikasu			57	30.00	30.09	72	Teak	3X3
		Twumkrom			89	30.00	26.84	82	Teak	3X3
							<b>120.00</b>	<b>115.46</b>		
	Sunyani	Mallamkrom	Yaya Tain II	160.00	34 & 39	40.00	40.00	86	Teak	3X3
		Odumase		<b>160.00</b>	286 & 287	61.05	92.20	82	Teak	3X3
				52	13.00	13.00	83		3X3	
	Abuom		60.00	67	44.00	36.71	87	mahogany, cedrela, emire, ofram, mansonia	3X3	
		Bosam Bepo		68	34.00	37.92	80	wawa, mahogany, cedrela, emire, ofram, mansonia	3X3	
	Esiamakrom		<b>60.00</b>	87	16.00	19.47	78	mahogany, cedrela, emire, ofram, mansonia, wawa, ceiba	3X3	
<b>Subtotal</b>			<b>60.00</b>		<b>107.00</b>	<b>107.10</b>				
	Bechem	Ntotoroso	Bosomkese	60.00	7	30.00	21.46	92	teak	3X3
				<b>60.00</b>	24	30.00	15.20	77	cedrela, ofram	3X3
<b>Subtotal</b>				<b>540.00</b>	<b>60.00</b>	<b>36.66</b>				
						<b>532.50</b>	<b>540.51</b>			
Central	Assin Fosu	Asebeim	Supong	100.00	43	41.20	51.39	75	Cedrela	3X3
		Breman Anwiam Camp			34	22.00	26.76	70	cedrela, Ofram	3X3
		Baako			59	36.00	39.64	76	cedrela	3X3
		Boso			67	5.00	9.20	82	Cedrela	3X3
							<b>100.00</b>	<b>104.20</b>	<b>126.98</b>	
					Plot 1		12.32	68	cassia	3X3
					Plot 2	<b>23.90</b>	7.20	62	cassia	3X3
					Plot 3		6.38	70	cassia	3X3
					Plot 4		4.68	75	cassia	3X3
	<b>Subtotal</b>			<b>60.00</b>	<b>23.90</b>	<b>30.59</b>				
						<b>128.10</b>	<b>157.57</b>			

Region	Forest District	Fringe Community	Forest Reserve	Target	Compartment Number	Reported Area Planted ( Ha )	Verified Area Planted ( Ha )	Percentage Survival %	Species	Spacing		
Ashanti	Offinso	Kokomba Line	Asubima	200.00	21	32.47	29.81	78.34	Teak	3X3		
		Ankonom	Mankrang		60	32.26	33.66	77.62	Teak	3X3		
		Subriso	Mankrang		61	32.43	32.27	87.31	Teak	3X3		
		Kyebi	Asufu West		9 & 10	14.63	34.76	93.07	Teak	3X3		
		Adaa Nkwanta	Afram		126	38.33	37.21	90.59	Teak	3X3		
		Kokomba	Headwaters		51	31.93	32.05	68.77	Teak	3X3		
		Derma	Opro		38	32.88	34.89	76.25	Teak	3X3		
		<b>Subtotal</b>				<b>200.00</b>	<b>214.93</b>	<b>234.64</b>				
		Mampong	Amoaman		Chrimfa	33/34	30.00	31.53	73.06	Teak	3X3	
			Kofiase		Aborna	13	30.00	29.59	76.21	Teak	3X3	
	Beposo		Ongwam III	FRBP 3-6	15.00	10.09		Teak	3X3			
	Atosuagya		Abrimasu	11	15.00	13.41		Teak	3X3			
	<b>Subtotal</b>			<b>120.00</b>	<b>30.00</b>	<b>30.76</b>	<b>76.6</b>	<b>Teak</b>	<b>3X3</b>			
	Ashanti	Bekwai	Abuakwa	Apaprana	60.00	13	10.00	10.30	72.69	Cedrela, Ofram	3X3	
Manukrom			Denyaw	1		10.00	6.85	70.59	Cedrela	3X3		
Adakabunso			Bosomtwi	13		20.00	19.94	83.82	Cedrela, Ofram	3X3		
Tabeso			Fum	38		10.00	25.96	60.1	Cedrela, Ofram	3X3		
Pipiso			Fum	45		10.00	21.39	75.76	Cedrela, Ofram	3X3		
<b>Subtotal</b>						<b>60.00</b>	<b>60.00</b>	<b>84.43</b>				
Juaso		Adansi	Dome River	18	69.28	69.28	64	Teak	3X3			
		Tanokrom	North Formangsu	14/25	67.32	67.32	61	Teak	3X3			
		Pra River	South Formangsu	12	36.47	36.47	63	Teak	3X3			
Total		<b>Subtotal</b>			<b>180.00</b>	<b>173.07</b>	<b>173.07</b>					
	Kumawu	Bounfum	219	80.00	60.00	51.67	60	Teak	3X3			
	<b>Subtotal</b>			<b>80.00</b>	<b>60.00</b>	<b>51.67</b>						
	Nkawie	Tinte Bepo	27	70.00	70.00	69.69	76.8		3X3			
	<b>Subtotal</b>			<b>70.00</b>	<b>70.00</b>	<b>69.69</b>						
	<b>Total</b>			<b>710.00</b>	<b>698.00</b>	<b>728.89</b>						
Volta	Jasikan	Odumase	Kabo River	60.00	6	19.00	12.00	76.26	Teak	3X3		
		Worawora	Kabo River		10.00	8.61	75	Teak	3X3			
		Asukawkaw	Kabo River		29.50	28.10	75	Ofram, Teak	3X3			
	<b>Subtotal</b>			<b>60.00</b>	<b>58.50</b>	<b>48.71</b>						
	Nkwanta	Asukawkaw	24.00	21.35		Teak	3X3					
	<b>Subtotal</b>			<b>60.00</b>	<b>30.00</b>	<b>23.11</b>						
<b>Total</b>			<b>150.00</b>	<b>142.50</b>	<b>118.98</b>							
Volta	Ho	Kabakaba East	30.00	70.83	25.81	Teak	3X3					
		<b>Subtotal</b>			<b>30.00</b>	<b>25.81</b>						
	<b>Total</b>			<b>150.00</b>	<b>142.50</b>	<b>118.98</b>						

Region	Forest District	Fringe Community	Forest Reserve	Target	Compartment Number	Reported Area Planted ( Ha )	Verified Area Planted ( Ha )	Percentage Survival %	Species	Spacing					
Western	Juaboso	Asiamakrom	Krokosua	100.00	204	40.00	34.18	73.2	Ofram, Cedreila, Mahogany	3X3					
		Nkatieso	Krokosua Hills		145	30.00	40.55	60.02	Cedrella, Ofram	3X3					
		Adabokrom	Bia North		106	30.00	33.75	70.72	Cedrella, Ofram	3X3					
	<b>Subtotal</b>			100.00		100.00	108.48								
	Sefwi Wiawso	Kwaku boa	Suhuma	30.00	128	20.00	8.35	78.38	Ofram, Asefena, Mahogany, Ceiba	3X3					
		<b>Subtotal</b>		30.00		20.00	8.35			3X3					
	Bibiani	Ankwaaso	Upper Wassaw	100.00	Close to Pillar 71	38.00	35.00	78.05	Ofram, Cedreila, Mahogany	3X3					
		Subiri Nkwanta	Anhwiaso North								22.00	20.35	79.85	Ofram, Cedreila, Edinam	3X3
		Ananso	Tano Suraw Ext.								30.00	25.61	77.62	Ofram, Cedreila, Asanfena, Otie	3X3
	<b>Subtotal</b>			100.00		90.00	80.97								
<b>Total</b>				230.00		210.00	197.79								
Northern	Yendi	Nakungbagu	Daka	160.00		30.00	36.27	75	Teak	3X3					
		Bimbila	Kumbo								40.00	35.70	Teak	3X3	
		Chamba	Lambo								30.00	30.61	Teak	3X3	
		Yaborgu	Bulugu								30.00	29.65	Teak	3X3	
		Karaga	Karaga								30.00	33.70	Teak	3X3	
	<b>Subtotal</b>			160.00		160.00	165.94								
	Buipe/Damongo	Lito	Yakumbo		120.00	Lito I	30.00	29.27	75	Teak	3X3				
		Old Buipe I				30.00	30.05	65	Teak	3X3					
		Old Buipe 2				10.00	6.10	55	Teak	3X4					
		Plot 1				3.54	3.54	70	Teak	3X3					
		Plot 2				2.15	2.15	75	Teak	3X3					
		Plot 3				1.94	1.94	73	Teak	3X3					
		Plot 4				0.84	0.84	70	Teak	3X3					
		Plot 5				0.57	0.57	78	Teak	3X3					
		Plot 6				0.71	0.71	76	Teak	3X3					
Plot 7		0.86				0.86	75	Teak	3X3						
Plot 8	2.46	2.46	71	Teak	3X3										
Plot 9	2.69	2.69	73	Teak	3X3										
Plot 10	1.34	1.34	79	Teak	3X3										
Plot 11	1.52	1.52	75	Teak	3X3										
<b>Subtotal</b>			120.00		103.00	84.03									
Bole	Banda Nkwanta (A)	Yerada	120.00		60.00	34.59	81	Teak	3 x 3						
	Banda Nkwanta (B)	Kenikeni			17.73	17.73	86	Teak	3 x 3						
	Grupe				60.00	59.22	79	Teak	3 x 3						
<b>Subtotal</b>			120.00		120.00	111.54									

Region	Forest District	Fringe Community	Forest Reserve	Target	Compartment Number	Reported Area Planted ( Ha)	Verified Area Planted (Ha)	Percentage Survival %	Species	Spacing
Northern	Tamale	Zorborqu	Sinsanglegbinni	100.00		60.00	61.00	76	Teak	3 x 3
		Labariga				20.00	20.02	78	Teak	3 x 3
		Chebsigu				20.00	20.25	78	Teak	3 x 3
	<b>Subtotal</b>			<b>100.00</b>		<b>100.00</b>	<b>101.27</b>			
TOTAL	Walewale	Bukperi	Gambarga Scarp East	100.00		30.00	31.70	83	Teak	3 x 3
		Namori				30.00	40.03	86	Teak	3 x 3
		Nyigare				30.00	32.02	92	Teak	3 x 3
	<b>Subtotal</b>			<b>100.00</b>		<b>90.00</b>	<b>103.75</b>			
				<b>600.00</b>		<b>573.00</b>	<b>566.53</b>			
Upper West	Tumu	Kassana	Tumu	60.00		30.00	29.60	82	Cassia, Mahogany	3 x 3
		Tanvielli	Chira Headwaters	60.00		30.00	23.00	63	Cassia	3 x 3
	<b>Subtotal</b>			<b>60.00</b>		<b>60.00</b>	<b>52.60</b>			
	Lawra	Suke	Kamba	60.00		30.00	30.96	86	Teak	3 x 3
	<b>Subtotal</b>			<b>60.00</b>		<b>60.00</b>	<b>63.71</b>			
				<b>120.00</b>		<b>120.00</b>	<b>116.31</b>			
Upper East	Bolgatanga	Sherigu (Plot A)	Tankwidi	60.00		30.00	30.48	95	Teak, Cassia, Eucalyptus, Albezia,	3 x 3
		Kembisi (Plot B)				30.00	31.00	90	Eucalyptus, Albezia, Mahogany, Gmelina	3 x 3
	<b>Subtotal</b>			<b>60.00</b>		<b>60.00</b>	<b>61.48</b>			
	Navrongo	Bachonsa	Sissili Central	30.00		30.00	29.89	65	Teak, Mahogany	3 x 3
	<b>Subtotal</b>			<b>30.00</b>		<b>30.00</b>	<b>29.89</b>			
TOTAL	Bawku	Basyonde	Upper Tame	60.00		30.00	34.63	52	Teak	3 x 3
		Kusanaba	Red Volta East	60.00		30.00	31.44	67	Teak	3 x 3
	<b>Subtotal</b>			<b>60.00</b>		<b>60.00</b>	<b>66.07</b>			
					<b>150.00</b>		<b>150.00</b>	<b>157.44</b>		
Eastern	Kade	8	Kajease	40.00		35.00	41.12	67	Teak	3 x 3
		<b>Subtotal</b>			<b>40.00</b>		<b>35.00</b>	<b>41.12</b>		
	Oda	27/ Sunsumawu	Essen Apam	60.00		13.00	13.43	88	Wawa, Cedrela	3 x 3
		5/ Mofram		60.00		26.00	25.72	87	Cedrela, Mahogany	3 x 3
	<b>Subtotal</b>			<b>60.00</b>		<b>39.00</b>	<b>39.15</b>			
	Somanya	Ashtey IV	Volta Block II	30.00		24.00	19.10	67	Teak, Mahogany	3 x 3
	<b>Subtotal</b>			<b>30.00</b>		<b>24.00</b>	<b>19.10</b>			
TOTAL	Donkorkrom	Abomosofo	Bubu	60.00		25.00	17.90	85	Teak	3 x 3
		Faaso/Ayefere	Fah	60.00		22.00	18.00	97	Teak	3 x 3
	<b>Subtotal</b>			<b>60.00</b>		<b>47.00</b>	<b>35.90</b>			
	Begoro	Pillar 10	Worobong South	60.00		36.00	27.80	77	Teak, Mahogany	3 x 3
	Fayease	Southern Scarp	60.00		20.00	15.00	67	Teak	3 x 3	
	<b>Subtotal</b>			<b>60.00</b>		<b>6.09</b>	<b>6.60</b>			
	Mpraeso	Pepease	Northern Scarp West	60.00		30.00	34.13	87	Teak	3 x 3
		Denteh	Abisu	60.00		30.00	40.00	65	Teak, Mahogany	3 x 3
	<b>Subtotal</b>			<b>60.00</b>		<b>60.00</b>	<b>74.13</b>			
				<b>310.00</b>		<b>267.09</b>	<b>258.80</b>			

Region	Forest District	Fringe Community	Forest Reserve	Target	Compartment Number	Reported Area Planted ( Ha)	Verified Area Planted (Ha)	Percentage Survival %	Species	Spacing
GT Accra	Tema	Sege	Sege	30.00		14.00	3.40 7.20 4.20	85 15 12	Eucalyptus, Neem, Cassia	3 x 3 3 x 3 3 x 3
<b>TOTAL</b>	<b>Subtotal</b>			<b>30.00</b> <b>30.00</b>		<b>14.00</b> <b>14.00</b>	<b>14.80</b> <b>14.80</b>			
<b>GRAND TOTAL</b>				<b>3,000.00</b>		<b>2,835.20</b>	<b>2,857.61</b>			

## **APPENDIX 3: IMPLEMENTATION ARRANGEMENTS**

### **2013 PLANTATION PROGRAM UNDER THE NATIONAL FOREST PLANTATION DEVELOPMENT PROGRAMME**

#### **1.0 PLANTATION ESTABLISHMENT TARGET**

This year an estimated 3,000 ha of commercial plantations will be established by the Forest Services Division (FSD) within forest reserves using best practice principles (best site, best planting materials, best silviculture).

#### **1.1 ALLOCATION OF PLANTING TARGETS, SITE SELECTION AND LAYOUT**

A total of 36 forest districts with suitable on-reserve sites have been selected across the country with respective district and regional targets allocated (details attached as Appendix 1).

Forest Districts will be expected to select suitable degraded forest reserve compartments. The selected compartments shall be adequately degraded (FR condition score 4 – 6; poor natural regeneration; basal area less than 5m<sup>2</sup>/ha); have good soils; relatively flat to undulating terrain with good drainage; and fairly easily accessible.

Selected sites shall be verified and approved by Regional/RMSC teams. Compartments will be blocked into four approximately 30 ha sub-plots separated by 10-m wide fire rides.

#### **2.0 IMPLEMENTATION ARRANGEMENTS**

##### **2.1 RECRUITMENT OF WORKERS AND SUPERVISION**

Labour will be recruited from forest fringe communities by the respective District Manager (DM). Forest-fringe community members who are willing and able will be hired to perform plantation development tasks. DMs will collaborate with District Assemblies to disseminate information about the program and clearly explain the terms and conditions of engagement. District Assemblies will play a key role in assisting DMs resolve conflicts at the community level especially issues relating to unpaid/outstanding wages from previous year's work by African Foresters Brigade Ltd., Zoil and Ecotech Services Ltd.

Hired Workers will be encouraged to organize themselves into Work Gangs with a leader to undertake short-term specific plantation development activities. Plantation development activities to be undertaken using hired labour will include; Site Preparation (initial land clearing, lopping and debris collection), Peg-cutting and Pegging, Planting of Seedlings, Weeding/Tending of established coupes, Beating Up, Re-planting of failed areas, etc.

The members of the Work Gangs would be required to provide the following details to the District Manager for registration:

- i. Name of Gang Leader as indicated on any nationally accepted identification card [Drivers' licence, National Identification Card, Voters Identification Card, NHIS Card]
- ii. Names of Gang Members as indicated on any nationally accepted identification card as above.
- iii. Identification numbers on the respective nationally accepted ID cards.
- iv. Date of Birth
- v. Sex
- vi. Community/residential location

The Work Gangs will be directly supervised by FSD Range Supervisors (RS) and Forest Guards (FGs) with an Assistant District Manager (ADM) having operational responsibility over the project at the Forest District level.

Each plantation block of 30 ha will be supervised by 1 RS assisted by 3 FGs. However, during the peak pegging and planting period, additional staff within the district may be deployed to assist with supervision.

Work Gangs will be assigned specific areas which will be surveyed by RS. The execution of the field work will be duly supervised by RS and FGs to ensure conformance to set standards.

On completion of assigned tasks, RS will carry out final inspection and fill out an Activity Completion Form (ACF) which shall be duly endorsed by the leader of the Work Gang.



The ACF will be submitted to the DM. ADM will be tasked to verify and confirm quality and quantity of work completed. Upon satisfaction with work done, ADM will recommend to the DM for payment by endorsing the ACF. Payment of Work Gangs must be made within 7 working days upon submission of ACF by RS. All payments shall be made by cheque.

## **2.2 PAYMENT SYSTEM**

Upon receipt of the endorsed ACF by the ADM, DM will seek written authorization from RM prior to payment of certified work done. Copies of the ACFs and accompanying cheques will be submitted to RM at the end of every week. RM shall submit collated copies of ACFs and cheques monthly to FSD-HQ together with the Monthly Plantation Operations Report.

Amount for each activity will be calculated by multiplying the quantum of work (i.e. number of hectares) by the standard work rate (i.e. mandays, details attached as Appendix II) and then multiplying the result by the Unit Manday Price of GHC 7.00.

To ensure smooth execution of this payment system, based on expected target, amount required per month shall be transferred a month in advance to each District and Region to cover cost of plantation activities, District Office supervision and Regional Office monitoring.

## **2.3 FOOD CROPPING**

Hired Workers engaged under the project will be allowed to farm on the land to boost household income. In all cases food crops can only be planted after pegging and should be planted only within planting rows at least 50 cm from planted tree seedlings. The type of food crops and spacing shall be rigorously controlled by the supervisors and ADM to ensure the tree crops are not adversely affected by the food crops.

## **2.4 SUPPLY OF SEEDLINGS**

As much as possible, seedlings for the program will be sourced/purchased from community tree nurseries and established private tree nurseries close to planting/established sites (this could be augmented with supplies from District/Regional tree nurseries where applicable). Seedling suppliers will have to deliver seedlings in good condition to designated planting sites.

DMs will be expected to identify nurseries within 20 km radius from planting sites. Such nurseries that are willing to supply seedlings to the project will be registered by the DM indicating ownership, location and quantities of various species among others. This information will be verified by RM and submitted to FSD HQ. Joint FSD/MLNR monitoring teams will visit every forest district to confirm reports prior to approval by ED-FSD granting authorization to purchase specified quantities and types of seedlings.

The current seedling request and delivery forms shall be used to cover all seedling transactions. The DM will confirm and certify supplies, which shall be commensurate with certified area planted, and submit details of suppliers to the FSD-HQ through respective RM for payment directly to suppliers. ***No payment shall be made for the supply of inferior planting material (small or overgrown seedlings, over-sized stumps, small tender stumps, etc.) or wildlings, and respective DMs will be held personally liable if such materials are planted within the plantations.***

Apart from the seedlings required for the 2013 plantation establishment, **seedlings shall also be procured for beating up and replanting of the 2010 to 2012 coupes, based on survival surveys conducted, both on and off reserve, in all 46 forest districts.**

## **3.0 MONITORING AND REPORTING**

Monthly reports will be submitted by DMs through the respective RMs to the FSD-HQ, and these must be accompanied by copies of ACFs and cheques to enable a good comparison of cost versus achievement.

There will be continuous and effective field and desk monitoring of all aspects of the program (technical, financial, social, etc.) by teams from the regional, FSD-HQ, Corporate FC and MLNR to ensure that the objectives of the National Forest Plantation Development Programme are achieved in a cost effective manner.

## APPENDIX 4

### SUMMARY OF AREA (Ha) OF EPP SITES BURNT BY WILDFIRES (2010 - 2013)

REGION	FOREST DISTRICT	COUPE				TOTAL
		2010	2011	2012	2013	
Ashanti	Bekwai	7.00	-	-	-	7.00
	Juaso	105.10	68.00	40.00	-	213.10
	Kumawu	5.00	-	4.00	3.00	12.00
	Mampong	45.00	28.00	37.50	-	110.50
<b>Total</b>		<b>162.10</b>	<b>96.00</b>	<b>81.50</b>	<b>3.00</b>	<b>342.60</b>
Brong Ahafo	Sunyani	71.67	16.50	42.50	-	130.67
	Kintampo	27.50	44.20	62.84	3.50	138.04
	Bechem	32.30	-	-	-	32.30
<b>Total</b>		<b>131.47</b>	<b>60.70</b>	<b>105.34</b>	<b>3.50</b>	<b>301.01</b>
Northern	Yendi	223.07	251.51	428.50	69.61	972.69
	Buipe	102.00	124.30	96.45	-	322.75
	Walewale	34.50	30.00	19.65	-	84.15
	Bole	20.07	51.75	146.90	12.00	230.71
	Tamale	41.60	77.00	88.00	27.50	234.10
<b>TOTAL</b>		<b>421.24</b>	<b>534.56</b>	<b>779.50</b>	<b>109.11</b>	<b>1,844.40</b>
Upper East	Bolga	-	-	-	10.00	10.00
	Bawku	-	-	47.00	30.00	77.00
	Navrongo	-	-	-	25.50	25.50
<b>Total</b>		<b>-</b>	<b>-</b>	<b>47.00</b>	<b>65.50</b>	<b>112.50</b>
Upper West	Lawra	337.36	74.40	84.50	-	496.26
	Tumu	40.00	5.00	32.00	6.00	83.00
<b>Total</b>		<b>377.36</b>	<b>79.40</b>	<b>116.50</b>	<b>6.00</b>	<b>579.26</b>
Volta	Ho	20.00	-	-	2.70	22.70
	Denu	49.90	10.70	12.97	-	73.57
<b>Total</b>		<b>69.90</b>	<b>10.70</b>	<b>12.97</b>	<b>2.70</b>	<b>96.27</b>
Western	Juaboso	2.00	-	-	-	2.00
<b>Total</b>		<b>2.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.00</b>
<b>GRAND TOTAL</b>		<b>1,164.07</b>	<b>781.36</b>	<b>1,142.81</b>	<b>189.81</b>	<b>3,278.04</b>

A P P E N D I X 5  
FOOD PRODUCTION DETAILS PER REGION AND DISTRICT (2011-2013) (MT)

REGION	FOREST DISTRICT	COUPE	FOOD CROPS (ON RESERVE-OFF RESERVE)																				
			PLANTAIN	COCONUT	YAM	MAIZE	MILLET	SORGHUM	RICE	BEANS	PEPPER	TOMATO	CABBAGE	OKRO	CASSAVA	ONION	GARDEN EGGS	WATER MELON	PAWPAW				
			REPORTED AREA (Ha)	ESTIMATED PRODUCTION (Mt)	REPORTED AREA (Ha)	ESTIMATED PRODUCTION (Mt)	REPORTED AREA (Ha)	ESTIMATED PRODUCTION (Mt)	REPORTED AREA (Ha)	ESTIMATED PRODUCTION (Mt)	REPORTED AREA (Ha)	ESTIMATED PRODUCTION (Mt)	REPORTED AREA (Ha)	ESTIMATED PRODUCTION (Mt)	REPORTED AREA (Ha)	ESTIMATED PRODUCTION (Mt)	REPORTED AREA (Ha)	ESTIMATED PRODUCTION (Mt)	REPORTED AREA (Ha)	ESTIMATED PRODUCTION (Mt)			
Western	Bibiani	Jubboso	2010	139	1070.3	26	52.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			2012	161.2	1241.24	34.8	69.948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2013	35	269.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2012	169.922	1308.399	56.1	112.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2013	55.09	424.193	46.1	92.641	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2013	3.34	25.718	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						<b>563.552</b>	<b>4339.35</b>	<b>163</b>	<b>327.61</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Central	Winneba	Cape coast	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2013	8.1695	62.90515	1.55	3.1175	0	0	14.694	24.98	0	0	0	0	0	0	0	0	0	0	0	0
			2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						<b>77.9285</b>	<b>600.0495</b>	<b>30.6</b>	<b>61.467</b>	<b>0</b>	<b>14.694</b>	<b>24.98</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Northern	Tamale	Buile/Damongo	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Northern	Wailevale	Bole	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			



REGION	FOREST DISTRICT	CROP	FOOD CROPS (ON-RESERVE-OFF-RESERVE)																			
			PLANTAIN	COCONUT	YAM	MAIZE	MILLET	SORGHUM	RICE	BEANS	PEPPER	TOMATO	CABBAGE	ONIO	CASSAVA	ONION	GARDEN EGGS	WATER MELON	PAMPAN			
			REPORTED AREA (HA)	ESTIMATED PRODUCTION (MT)	REPORTED AREA (HA)	ESTIMATED PRODUCTION (MT)	REPORTED AREA (HA)	ESTIMATED PRODUCTION (MT)	REPORTED AREA (HA)	ESTIMATED PRODUCTION (MT)	REPORTED AREA (HA)	ESTIMATED PRODUCTION (MT)	REPORTED AREA (HA)	ESTIMATED PRODUCTION (MT)	REPORTED AREA (HA)	ESTIMATED PRODUCTION (MT)	REPORTED AREA (HA)	ESTIMATED PRODUCTION (MT)	REPORTED AREA (HA)	ESTIMATED PRODUCTION (MT)		
Brong Ahafo	Kintampo	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2012	1,565	12,050	0	0	2,645	28,248	4,598	7,816	0	0	0	0	0	0	0	0	0	0	0	0
		2013	0,7914	6,09378	0	0	2,98	31,92	61,257	104,14	0,193	0,251	0	0	0	0	0	0	0	0	0	0
		2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2012	6,27	48,279	2,46	4,946	8,83	94,569	186,7	317,39	0	0	0	0	0	0	0	0	0	0	0	0
		2013	8	61,6	3,6	7,236	2,4	25,704	95,6	162,52	0,4	0,52	0	0	0	0	0	0	0	0	0	0
		2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2013	25,662	197,5974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2012	3,304	25,4408	1	2,01	0	0	123,43	209,83	0	0	0	0	0	0	0	0	0	0	0	0		
2013	0	0	0	0	10,21	109,31	99,79	159,44	0	0	0	0	0	0	0	0	0	0	0	0		
2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2013	53,55	412,395	32,1	64,581	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>99,1424</b>	<b>763,3965</b>	<b>41,3</b>	<b>83,099</b>	<b>29,56</b>	<b>316,61</b>	<b>648,72</b>	<b>110,8</b>	<b>0,593</b>	<b>0,711</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
Upper East	Bolgatanga	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
Upper West	Lawra	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2013	0,5	3,85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>0,5</b>	<b>3,85</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
Greater Accra	Anasaman	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
Volta	Ho	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<b>TOTAL</b>	<b>0</b>																					

## NOTES



