



LOCAL SOLUTIONS WITH GLOBAL POTENTIAL

2018 - 2019 Annual Report
CommuniTree Carbon Program



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1. Report Summary

Table 1: Program summary

Project overview	
Reporting period	1 October 2018 – 30 September 2019
Technical specifications in use	Mixed Species Forest Plantation Silvopastoral Planting Shade Coffee Agroforestry
Geographical areas	Limay, Somoto, San Juan de Rio Coco (SJRC), Nicaragua
Areas under management	
Total areas put under management from 2019 vintage	807.9 ha eq
Total area lost from 2019 vintage	7.3 ha eq
New area allocated to 2019 Certificate issuance	800.6 ha eq
Total areas under management as reported in previous years	2,171.2 ha eq
Areas under management (program total)	2,971.8 ha eq
Smallholders with <i>plan vivos</i> and PES agreements	
Smallholders reported in last annual report	713
Smallholders with existing <i>plan vivos</i> adding new land since last report	34
New smallholders with PES agreements since last report	144
Total smallholders with PES agreements (2019 vintage)	178
Smallholders dropouts in 2019 from previous vintages	2
Total Smallholders with <i>plan vivos</i> and PES agreements (program total)	855
PES and community fund payments	
Total direct payments made to farmers across all years through Sep. 30th	USD \$1,638,610
Other payments to community across all years through Sep. 30 th	USD \$491,782
Community Fund held in trust for future payments	
Payments to community fund (program total)	
Plan Vivo Certificates and saleable tCO₂	
Total certificates generated from this year's planting activities (gross)	279,342
Risk buffer deduction (15%)	-41,901
Certificates from 2019 vintage allocated to losses from previous years (1.31 ha eq)	-388
Submission for Certificate Issuance for new areas (2019 vintage saleable)	237,053
Historical allocation to Plan Vivo buffer	116,582
Total Allocation to Plan Vivo buffer (program total)	158,483
Historical Plan Vivo Certificate issuance	657,117
Plan Vivo Certificates issued to date (program total)	894,170

2. Project Updates

Local Solutions with Global Potential

2019 will go down in history as the year the world woke up to climate crisis. It has been sparked by near unanimous calls for action from the scientific community, the meteoric rise of Greta Thunberg and millions of people, including the Taking Root staff, taking to the streets around the world demanding for change. There has been a collective realisation that we must act immediately if we are going to avoid the devastating effects that climate change promises to bring to communities around the world. The question we are facing has changed from, *'should we act?'* to *'how should we act?'*.

There is no one answer to this question beyond the fact that we must act now. Over the last 12 months, there has been widespread understanding and appreciation for the role of natural climate solutions such as reforestation in tackling the climate crisis. In fact, according to research in 2019 by Swiss University, ETH Zurich, growing 1 trillion trees is not only possible but is one of the largest potential solutions on offer to removing greenhouse gases from the atmosphere.

This has galvanized large and ambitious commitments from organizations around the world to plant billions of trees. And despite unified international climate action continuing to stall at a frustrating COP25, Central American countries are showing a path forward. The 8 member countries of the Central American Commission for Environment and Development (CCAD), including Nicaragua, are putting together a bold plan to protect 10 million hectares of land and restore 500,000 hectares of forest.

This represents a significant shift in perception and support of the reforestation efforts of Taking Root and others around the world. Furthermore, we are extremely excited about the promise of beginning to realise the full benefits offered by widespread reforestation. However, so far they are just promises. The real challenge is ensuring these commitments and funding are connected to meaningful, well-considered actions on the ground which lead to impacts which last. Now that the politicians and CEO's have made the headlines, it is the local communities on the ground who must become centre stage. If those solutions are to stand the test of time, it is local communities who must come first and be the ones who benefit the most from the implementation of natural climate solutions.

This year Taking Root celebrates its 10 year anniversary. From 22 farmers in 2010, Taking Root is now working 855 this year and has become the largest single reforestation effort in Nicaragua, covering the equivalent of over 5,000 football fields. This success has only been possible by putting communities' and farmers' needs first and building long-lasting, trusting relationships to create hyperlocal forest solutions which can be unified to create widespread changes. Farmers' success means that while Taking Root's model continues to spread rapidly in Nicaragua, it is also now being used by others to implement community led reforestation across Latin America.

But there is a long way to go. This year also brought home some of the very real challenges and risks facing smallholder farmers due to the climate crisis. Delays in the rains this year meant crop losses for many of the farmers in the regions which Taking Root operates. These are some of the most vulnerable communities to climate change, with seemingly small differences in rainfall or temperature having far-reaching consequences for their livelihoods and wellbeing. These smallholder farmers and local communities want to grow trees, but they will only succeed if the care, attention and trust is built to create solutions which are designed around their needs and improve their livelihoods for the long term.

As we enter 2020, our goal is to bridge the gaps between commitments and action, international funding and local inclusion. This is necessary to create local community solutions at scale that tackle the climate crisis while strengthening the resilience and well-being of the thousands of smallholder farmers we aim to serve.

2019 Highlights

Partnerships for growth

This year, the CommuniTree Program became the largest reforestation initiative in Nicaragua. The only way it has been possible to deliver such an impact has been through the building of long-lasting relationships based on integrity. This is true from the farmers, the local communities and the institutions we collaborate with, to our funding partners. The growth Taking Root has seen in 2019 comes down to our existing partners, not only continuing, but increasing their support of the project and bringing on a number of new high profile funding partners.

Many existing partners, including C-Level, COTAP, Myclimate, PrimaKlima and Zero Mission, have supported the project since near its inception, investing in and committing to long term change. At the same time, we are delighted to have forged new partnerships including with the Arbor Day Foundation, become a 1% for the Planet member and receiving celebrity backing from the Canadian Rockstar Bryan Adams in collaboration with DHL. We look forward to continuing to build these partnerships to create impact long into the future.



Figure 1: The Taking Root Team perform a tribute to Bryan Adams to celebrate his support. Watch the video [here](#)

Making organic work for smallholder famers



Figure 2: The completed Johnson-Su Bioreactor, beginning the composting process

Throughout the CommuniTree program, we strive to help farmers adopt and be fairly rewarded for sustainable farming practices. One of the highlights of 2019 was starting an initiative to help coffee farmers in the program move towards organic practices, so they can receive an organic premium for the coffee they produce. Organic premiums represent a significant potential income boost of up to 20% of the market price for coffee. However, using organic fertilizer without losing yield will require a super human effort. Organic fertilizer has lower nutrient rates compared to synthetic fertilizer, which would mean having to apply it in vast quantities to meet the coffee's nutrient requirements. Furthermore, because smallholder farmers do not have mechanized operations, carrying several tons of fertilizer can take weeks and huge amounts of hard physical labour.

This is a dilemma faced by many smallholder farmers. Organic practices offer great rewards but they can be too tricky or time consuming. Enter the Johnson-Su bio reactor. Designed by US professors David Johnson and Patrick DeSimio, their bio reactor design creates nutrient rich compost which reportedly only needs to be applied at concentrations as low as 1kg/hectare. In contrast to regular composting methods, the compost can be made on the farm with minimal work and does not need to be transported from an off-site location.

The bio-reactor creates a microbial compost which builds nutrient rich soil over time, much like a baker introducing yeast to a bread dough. It does this by creating an aerobic composting process, ensuring air flow through the compost with the help of 6 tubes with air holes positioned evenly through the composting mixture. The resulting compost's high nutrient density means it can be mixed with water to create a compost tea and easily distributed amongst farmers' crops. When combined with growing nitrogen-fixing legumes around the coffee, this represents a sustainable and regenerative solution for farmers to increase their yields and profit from using organic practices.

In June 2019, the Taking Root team built and installed its first bioreactor to run a pilot across a number of coffee farms. If the outcomes are successful in creating healthy coffee plants, then further bioreactors will be built and installed, making 'mission organic' possible for the smallholders working with the Taking Root program.



Figure 3: The Taking Root team celebrating having built the first Johnson Su Bio-Reactor in San Juan de Rio Coco

Becoming a global model for smallholder reforestation

The success of the Communitree Carbon Program has meant its model of financing, community-led capacity building and technology has begun to be adopted within the development and commodity sectors to help thousands of farmers regenerate forests across Latin America and Africa. 2019 has seen the beginning of new collaborations with International NGOs, such as ICCO, who are working with Taking Root to implement a community reforestation model with farmers in El Salvador.

It is also exciting to see the approaches that the CommuniTree program takes being adopted with private commodity partners. Projects are currently being delivered with leading coffee organizations who are learning from Taking Root's expertise and using FARM-TRACE to map, monitor and support the farms that they work with to improve their sustainability. Many of these projects will be a focus for 2020, setting up a way to provide organizations with the tools to not only support reforestation through the CommuniTree program but to drive reforestation initiatives through their own programs and supply chains for widespread impact.

Key challenges in 2019

Overcoming climate change disruption



Figure 4: Benicia del Carmen Méndez, located in totogalpa, planting her plantation

Tackling climate change is not a static challenge. When it comes to farmers, they rely on weather cycles for their crops to succeed. This year, a delay in the rains and a prolonged drought was felt across the Dry Corridor of Central America, but particularly in Northwestern Nicaragua. This meant that farmers not only lost essential crops but tree planting was significantly delayed from May all the way to October in some locations. This demonstrates the urgent need to act to support farmers and create natural solutions to help them adapt to climate change. There were numerous stories of farmers who told of the benefit that their forests were providing in terms of a source of alternative income to sustain them while they waited to plant or replant their crops.

However, the delay in tree in planting also posed a huge logistical challenge. The team was already handling a doubling in size of the program, in which mobilization across communities had been unprecedented with the recruitment of 144 new farmers, over 5 million native tree seeds gathered by locals and hundreds of nurseries built in and around the farms. With a record number of trees and farms to plant them on, the delay in rain meant that a typically 5-month exercise soon got compressed into the 3 months in September, October and November once the rains came.

The successful delivery of planting and monitoring across those farms after the drought period was made possible due to two factors. The first is simply the dedication of the local team in Nicaragua. The commitment and urgency they showed in distributing and planting the trees, alongside timely and effective knowledge sharing with farmers to ensure the successful growth, is unparalleled. Secondly, it was only made possible with the developments of FARM-TRACE, Taking Root's proprietary technology, which allowed for the smart and timely organization of farm visits and monitoring. As the program grows across geographies and becomes more complex, the use of technology is essential in ensuring a way to scale through efficiencies and effective delivery. Using FARM-TRACE's smart dashboards, the team were able to identify and co-ordinate farms which needed planting support, material deliveries and monitoring. The ability to work with such effectiveness holds the project in good-standing for the years to come as it expands across farms and farmers in the region.

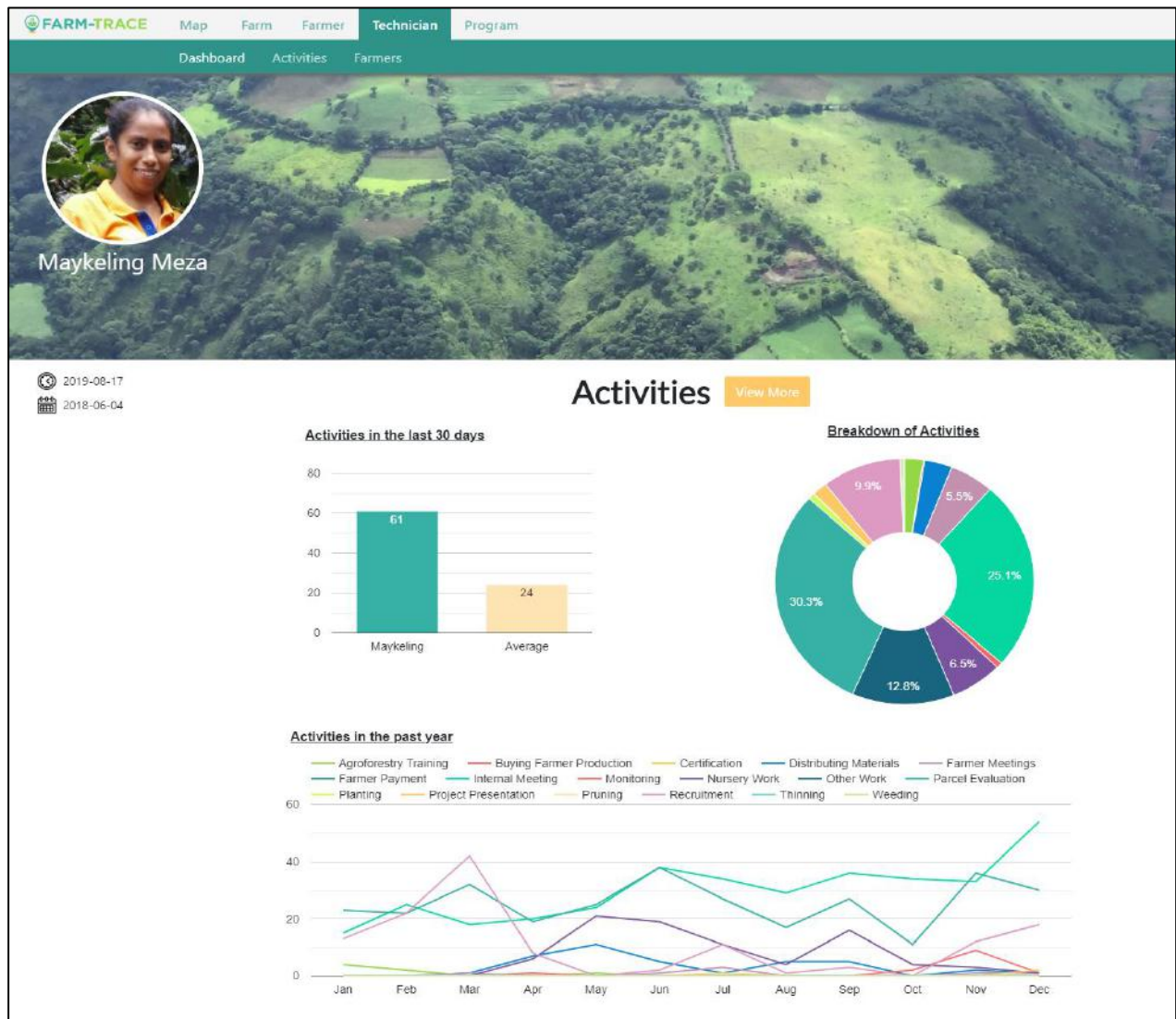


Figure 5: An example FARM-TRACE dashboard used by technicians for smart interventions with farmers

Navigating political instability

In 2018, Taking Root's work operated in the context of political instability in Nicaragua, in many cases providing stability and resilience for thousands of Nicaraguans through employment and income opportunities. While there has been little civil public unrest in 2019 and minimal disruption to on-the-ground activities, the instability has had a knock on affect with regards to the flows of financial transactions into the country. As a result of financial institutions pulling out of Nicaragua, Taking Root had to move its banking in order to transfer money to Nicaragua to fund project activities and pay farmers. These changes have now been implemented, however, a delay in transactions meant that, in conversation with farmers, some of their first year payments were delayed to 2020. While in the short term this created a challenge for 2019, Taking Root's ability to direct financing to Nicaragua is now secured and, as the international funding landscape in Nicaragua has become more limited, has established Taking Root as one of the most important entities bringing development funding into Nicaragua to support rural communities.

Future developments: Closing the impact loop

As Taking Root and the CommuniTree Project grows, our focus for 2020 will not only be a significant expansion to reach hundreds more farmers and reforest thousands more hectares, but to refine the Taking Root model to meet this scale. Operationally, this will involve three main developments:

1. Expanding Taking Root's reforestation product business

The forests that farmers grow with Taking Root will only be successful if they become a sustainable and stable source of income. With 2020 set to deliver Taking Root farmers with their first full harvest of [coffee](#), and more mature forests beginning to provide larger natural thinnings for our [woodcrafts](#), we will be focusing on building our sales capacity in Nicaragua to connect these products to market.

2. Creating small-scale biochar solutions

For many years we have sought to develop a model for smallholder farmers to be able to take waste biomass from their forests and turn it into biochar through a sustainable process. This would provide value to farmers and local communities as a sustainable fuel source or soil amendment to use and sell for additional income. It would also provide a highly effective fertilizer for the trees while helping to store further carbon in the soil. However, currently there has been no environmentally-friendly solution at a small enough scale to be worthwhile to these communities. Three years ago, [Taking Root created a R&D partnership with an industrial engineering firm in Montreal](#), Thermotech Combustion, to solve this problem. In 2020, the project will go into piloting phase, testing the solution on the ground in Nicaragua. This could demonstrate a scalable solution to provide farmers with an alternative environmentally-friendly fertilizer, a new source of valuable income, all while upcycling waste from their forests.

3. Further development of technical specifications

Using the experiences of the farmers and local team from the last decade, we have identified a number of ways to hone and improve the technical specifications which Taking Root uses to implement best-practice community forestry with smallholders. These new technical specifications will account for new monitoring practices and improved forest designs to help farmers connect to valuable reforestation products while taking into account new geographies as Taking Root expands.

2020 is set to be another year of exciting growth for Taking Root. The CommuniTree program aims to at least double in size for the second year in a row. At the same time, Taking Root will continue to implement and share its approach with organizations in both the development and commodities sector. They will be using FARM-TRACE in 2020 across 5 different countries, in Latin America and Africa, as a tool to help monitor and take control of their impact with smallholder farmers. By continuing to rapidly build our own program, create new on-the-ground capacity and provide new technology solutions, the focus of 2020 will be to provide organizations with a suite of solutions to catalyze widespread change with thousands of farmers around the world.

Changes to project documentation since last annual report

No technical specifications have been added or modified since the previous Annual Report. Taking Root continues to focus on its existing afforestation types: silvopastoral planting, boundary planting, mixed species forest plantation, and coffee agroforestry.

3. Activities, Total Program Size, and Participation

Current land-use activities

In 2019, Taking Root implemented its Mixed Species, Silvopastoral Planting and Coffee Agroforestry technical specifications, while maintaining boundary planting used as a technical specification in previous years. All technical specifications can be downloaded via the Plan Vivo website: <http://www.planvivo.org/project-network/communitree-nicaragua/>

Mixed Species Forest Plantation

This technical specification involves planting and intensively managing multi-purpose mixed species forest plantations on participating smallholders' land. All of the species selected are native to the region and are chosen in consultation with local smallholder groups and professional foresters. This technical specification was added in 2014.

Silvopastoral Planting

The Silvopastoral Planting technical specification acknowledges the need for cattle pastures by integrating trees and improved pasture with livestock. The trees improve pasture productivity, provide shade, and produce timber and forage for the farmers and their cattle. The short-rotation nitrogen-fixing species are harvested at a young age, providing building posts while fertilizing the soil. Silvopastoral Planting sequesters carbon dioxide, provides ecosystem services in the short term, and sustainably produced, highly prized timber in the long term. Additionally, the system helps improve the pasture below the trees and adds biomass to the soil. This technical specification was added in 2012.

Coffee Agroforestry

The Coffee Agroforestry technical specification is the newest of Taking Root's reforestation technologies. It is designed to help smallholders adapt to climate change by establishing new high-yielding rust-resistant coffee agroforestry systems at higher elevations in order to improve smallholders' income while mitigating climate change. Financial incentives, in the form of payments for ecosystem services, incentivize the establishment of new coffee agroforestry systems at incrementally higher elevations where temperatures are cooler and therefore less susceptible to rust attacks. Furthermore, we are introducing new high-quality, rust-resistant coffee varieties and providing technical training in the region. This technical specification was added in 2016.

Total participation and program size

Table 2: Summary of new participation and program size to date (2019 vintages). See Appendix 1 for equivalent hectares calculations.

Participants		
Total smallholders with registered PES agreements		178 smallholders
Total area reforested (ha)		985.1
Technical specifications used	Area covered in hectares	Equivalent hectares
Silvopastoral Planting	343.6	222.5
Mixed Species Forest Plantation	426.2	431.1
Coffee Agroforestry	215.3	147.0
Total	985.1	800.6

4. Submission for Plan Vivo Certificate Issuance

Recruitment of new smallholders

Community technicians successfully recruited new participants from 55 new communities to meet current demand for Plan Vivo Certificates, bringing the project to a total of 236 participating communities as follows

#	Community	#	Community	#	Community	#	Community	#	Community
1	Aguas Calientes	19	Casco Urbano (Limay)	37	El Cacao - Quilali	55	El Limon (Limay)	73	El Rodeo
2	Arado Quemado	20	Casco Urbano (Somoto)	38	El Calero	56	El Limon (Somoto)	74	El Rodeo - Zomotillo
3	Areanales 2	21	Cayantu	39	El Capulin	57	El Limon (Yalaguina)	75	El Socorro
4	Bado Hondo	22	Cedrales	40	El Carmen	58	El Melonar	76	El Tamarindo
5	Balsamo Abajo	23	Cerro Blanco	41	El Cascabel	59	El Naranjo	77	El Terrero
6	Balsamo Arriba	24	Cerro Blanco Abajo	42	El Castillo	60	El Naranjo - Achuapa	78	El Tunal
7	Balsamo Centro	25	Cerro Blanco Arriba	43	El Cerro De Jesus	61	El Ojochal	79	El Varillal
8	Balsamo la Francia	26	Chusli	44	El Chiquirin	62	El Ojoche	80	El Volcan
9	Balsamo Vista	27	Comayagua	45	El Citrico	63	El Ojochito	81	El Yaraje
10	Beunos Aires de Santa Rita	28	Cuatro Esquinas	46	El Erbedero	64	El Palmar	82	El Zapote
11	Buena Vista	29	Cusmaji	47	El Garcero	65	El Pegador	83	El Zapote - Somoto
12	Buena Vista - SJRC	30	Cuyali	48	El Guanacaston	66	El Pegon	84	El Zapotillal
13	Buena Vista Del Penon	31	Delcias de Canton	49	El Guayabo	67	El Pernal	85	El Zungana - Quilali
14	Cacahuatal	32	Doradito	50	El Guaylo	68	El Plan	86	Escambray
15	Cacauli	33	Ducuali	51	El Gurrion	69	El Portal	87	Guanacastillo
16	Cantil de las Canas	34	El Achote	52	El Iguaje	70	El Rapador	88	Guasuyuca
17	Carrizos	35	El Aguila	53	El Jacote	71	El Regadio	89	Hermanos Martinez
18	Casco Urbano (Las Sabanas)	36	El Balcon	54	El Lechon	72	El Regen	90	Icalupe

#	Community	#	Community	#	Community	#	Community	#	Community
91	Jocomico	112	Las Brisas	133	Los Atillos	154	Motuse	175	Quebrada Onda
92	La Bolsa	113	Las Canarias	134	Los Cedros	155	Musuli	176	Quibuto
93	La Bugona	114	Las Canas	135	Los Cerritos	156	Naranjo	177	Quisuli Abajo
94	La Carbonera	115	Las Canas - SJRC	136	Los Chapetones	157	Nueva Esperanza	178	Rio Arriba
95	La Ceibita	116	Las Chacaras	137	Los Colorados	158	Ocotillo	179	Rio Arriba El Limon
96	La Flor	117	Las Cruces	138	Los Copales	159	Oruce	180	Rio Arriba Yali
97	La Garcia	118	Las Delcias	139	Los Encuentros	160	Palacaguina	181	Rito Abajo
98	La Garita	119	Las Delicias de las Canas	140	Los Jardines	161	Palo Blanco	182	Robert
99	La Grecia	120	Las Filas	141	Los Mangos	162	Paraisito 1	183	Rodeito
100	La Ilusion	121	Las Garcias Susukayan	142	Los Ranchos	163	Paraisito 2	184	Sabana
101	La Loma	122	Las Minitas	143	Los Rincones	164	Paraisito Arriba	185	Sabana Grande
102	La Luz	123	Las Nubes	144	Los Tablones	165	Parsila	186	Sabana Grande - Condega
103	La Luz - Quilali	124	Las Papayas	145	Mala Ladera	166	Paso Real	187	Salto del Tigre Susucayan
104	La Majada	125	Las Pintadas	146	Maquingales	167	Peteres	188	Samarkanda
105	La Naranja	126	Las Positas	147	Matadero	168	Platanares	189	San Antonio
106	La Palanca	127	Las Tablas	148	Matapalo	169	Plazuela	190	San Antonio Abajo
107	La Palma	128	Las Vegas	149	Matapalo - SJRC	170	Pueblo Nuevo	191	San Antonio Arriba
108	La Playa	129	Las Ventanas	150	Mateares	171	Quebrada de Agua	192	San Antonio Chachagua
109	La Presa	130	Las Veredas	151	Mojon	172	Quebrada Grande	193	San Antonio de las Nubes
110	La Sandinom	131	Lomochata	152	Monte Redondo Condega	173	Quebrada Honda	194	San Bartolo Yalaguina
111	La Tunosa	132	Los Arados	153	Morcillo	174	Quebrada Negra Arriba	195	San Diego

#	Community	#	Community	#	Community	#	Community	#	Community
196	San Francisco	204	San Pablito 1	213	Santa Lucia - Condega	222	Totogalpa	231	Vijagual
197	San Jose	205	San Pablo 2	214	Santa Rita	223	Tranquera	232	Yalaguina
198	San Jose de Palmira	206	San Pablo Abajo	215	Santa Rosa	224	Trozas	233	Yali
198	San Jose del Ojoche	207	San Pedro	216	Santa Rosa - Achuapa	225	Varillal Ariba	234	Zapotillo
199	San Juan de Somoto	208	San Pedro - San Lucas	217	Santa Teresa	226	Varillal San Pablo	235	Zona 1
200	San Lorenzo	209	San Pedro las cañas	218	Sonis	227	Ventina Balsamo Abajo	236	Zona 6
201	San Lucas	210	San Ramon	219	Tanque	228	Vera Cruz		
202	San Luis	211	Santa Ana	220	Tierras Coloradas	229	Verapaz		
203	San Marcanda	212	Santa Domingo	221	Tiosintal	230	Victorina		

Land changes

In 2019, 1.3 net ha eq. from previous years were lost from previous vintages. 7.3 ha eq were lost from the area of land put under management in 2019.

Program sales and allocations

The following table summarizes the sale of CO₂ for the 2019 Vintage.

Table 3: Program CO₂ sales and allocations for the 2019 vintage

Total volume of CO₂ forward sold	229,884 tCO ₂
Total sales for 2019 vintage	
Average certificate price	
% of sale price to community fund	60%
Price to community fund per offset	
Increase to community fund from this year's vintage	
Number of smallholders allocated to buyers	178
Total area represented by certificates requested	800.6 ha eq.
Technical specifications applied	Mixed Species Forest Plantation Silvopastoral Planting Coffee Agroforestry

Carbon sales

The following table summarizes the distribution of Plan Vivo Certificates sold in this vintage on December 31st 2019. For a detailed list of carbon sales to date, see Appendix 3.

Table 4: Summary of carbon sales for vintage 2019

Vintage	Name of purchaser	Certificates	Price/certificate (USD)	Total received
2019	C-Level	6,500		
2019	COTAP	425		
2019	ECODES	6,000		
2019	MyClimate	50,000		
2019	Prima Klima	25,993		
2019	Tree-Nation	1,830		
2019	Zero Mission	135,000		
2019	Taking Root retail	4,136		
2019	Unsold at time of report	7,169		
2019	Total	237,053		

5. Monitoring Results

Summary of 2019 results for new 2019 *plan vivos*

Table 5 below is a summary of monitoring results for new plan vivos added in 2019. Complete details of the monitoring can be found in Appendix 4, which can be requested as a separate PDF document.

Table 5: Summary of 2019 monitoring results for 2019 *plan vivos*

Vintage	2019
Area of land meeting monitoring targets (ha eq.)	679.30
Area monitored (ha eq.)	700.51
Percentage of monitored land meeting monitoring targets	97%

Summary of 2019 results for previous *plan vivos*

Table 6 below provides a summary of the 2019 monitoring results for farms planted between 2010-2017. Complete details of the monitoring can be found in Appendix 4, which can be requested as a separate PDF document.

Table 6: Summary of 2019 monitoring results for continuing 2010-2017 *plan vivos*

Vintage	2010-2017
Area of land meeting all monitoring targets (ha)	254.26
Area monitored (ha)	255.65
Percentage of land meeting monitoring targets	99%

Interpretation of results

The very high percentage of land meeting monitoring targets is a reflection of years of improving operational procedures and the amazing dedication of the team. Furthermore, the area of land monitored from previous year's vintages represents a significant improvement from last year. Nonetheless, there is still room for improving the total area of land monitored each year, which continues to be a challenge while the program is expanding at such a rapid rate. In 2020, we plan on fully automating monitoring for previous Plan Vivos using FARM-TRACE in order to deliver efficiencies and increase the amount of land monitored.

Socio-economic and environmental impacts

The following table displays some of the key socio-economic and environmental impacts of the CommuniTree project during this year. The data is collected from Taking Root's Farm-Trace software.

Table 7: Socio-economic and environmental impacts in 2019

Social impact: Program Participants	
Participating new communities	55
Participating new smallholder families	158
Total participating smallholder families	869
Social impact: Employment Created	
Number landless farmers employed	1,528
Number of landowners employed	302
Total seasonal employment	1,829
Permanent positions	38
Total employment created	1,867
Social impact: Capacity development	
Community project development workshops	12,725
Total session attendance	12,795
Environmental impact: Trees planted	
Mixed species forest plantations	710,412
Silvopastoral plantations	137,439
Coffee Agroforestry	861,501*
Total trees planted	1,709,352
Number of unique tree species recorded	124

*includes coffee trees

6. PES Update

Total payments for ecosystem services made

Table 8 below provides a summary of the payments for ecosystem services (PES) made to date for all current participating producers. These figures have been updated since the previous report to reflect the fourth quarter of 2018.

Table 8: PES summary – total payments made

Payment year	PES paid (USD)
2010	\$5,019.37
2011	\$28,202.49
2012	\$97,289.83
2013	\$121,694.42
2014	\$123,505.33
2015	\$178,911.53
2016	\$309,174.00
2017	\$372,811.19
2018	\$323,913.97
2019 (1 Jan. – 30 Sept)	\$78,087.96*
TOTAL	\$1,638,610.09

*The low number is due to delayed 2019 payments to farmers to be made up in following years. See challenges section.

Additional payments to the community

Other costs covered by the community fund to date include nursery expenses and occasionally grafted fruit trees and fuel-efficient cookstoves.

Table 9: Other payments to the community to date

Vintage (calendar year)	Additional payments (USD)
2010	n/a
2011	\$14,220.82
2012	\$33,288.19
2013	\$44,290.74
2014	\$52,616.07
2015	\$50,870.15
2016	\$113,955.09
2017	\$41,607.88
2018	\$91,109.51
2019 (1 Jan. – 30 Sept)	\$49,824.01
TOTAL	\$491,782.47

7. Ongoing Community Participation

Taking Root continues to build community participation through existing methods and continuous experiments in the development of new methods. The existing methods used throughout the year include planting manuals, community consultations, community-led training and radio announcements.

Furthermore, Taking Root uses the following methods to promote community participation:

Technician training: the aim is to help technicians better inform the community. Training covers key points such as program financing and the link between the program and climate change. Smallholders are later asked to answer to test the effectiveness of the training and evaluate the success of each technician's communications.

Producer exchange workshops: smallholders joining the program in 2019 were invited to visit farmers who had joined in previous years to learn from their peers.

Community education workshops: Taking Root staff regularly host information sessions to explain the various activities taking place throughout the year. Workshop themes included pruning and clearing around trees, information on the local environmental laws, and more. The information sessions usually involve a component of learning by doing.

Presenting the local forest law: the CommuniTree Program has continued holding community workshops, specifically on the local forest laws. This approach makes these often complex laws much more tangible for farmers.

Program outreach: this year, we introduced radio advertisements to increase the exposure of the project to new communities and farmers.

8. Breakdown of Organizational Costs

Organizational expenses and revenue

The following table provides an overview of all organizational and operational expenses and revenue in Canadian Dollars from 1 October 2018 – 30 September 2019. These figures include both Canadian and Nicaraguan finances. It should be noted that this 12-month period overstates the net revenue because it does not include end-of-year adjustments for 2019.

Table 10: Organizational expenses and revenue in CAD for reporting period

Reporting Period	1 Oct. 2018– 30 Sept. 2019
Revenue	
Carbon offset sales	
Consulting and other services	
Operations revenue (e.g. wood shop, farm-inputs and coffee)	
Grants and donations	
Total revenue	
Expenses	
Cost of sales	
Inputs, Coffee and Woodshop costs	
Human resources	
Transport and travel	
Administration costs	
Operational Costs	
Financial fees and exchange rate loss and gains	
Total expenses	
Net income (loss)	

Appendix 1: Equivalent Hectare Calculation

“Equivalent hectares” involves using the tonnes CO₂ sequestered per hectare of the original Mixed Species Forest Plantation technical specification as the base unit to compare the other specifications. The following table explains the equivalents per specification compared to the base unit.

Table 11: Equivalent hectares per technical specifications

Technical specification	Saleable sequestered per unit	tCO ₂	Equivalent per tonnage	hectares
Mixed Species Forest Plantation (original)	296.3 tCO ₂ /ha		1 ha = 1 ha eq.	
Boundary Planting (original)	243.0 tCO ₂ /km		1 km = 0.8201 ha eq.	
Mixed Species Forest Plantation	299.7 tCO ₂ /ha		1 ha = 1.0115 ha eq.	
Boundary Planting	214.8 tCO ₂ /km		1 km = 0.7249 ha eq.	
Silvopastoral	191.9 tCO ₂ /ha		1 ha = 0.6477 ha eq.	
Coffee Agroforestry	203.23 tCO ₂ /ha		1 km = 0.6825 ha eq.	

Appendix 2: Land changes in 2019

Table 12: Land added in 2019 listed by parcel (including the 388 credits allocated to losses from previous vintages).

Farm ID	Planting Year	Area (Ha)	Tech Spec	Gross tCO ₂	Sellable tCO ₂
19.3.0e5.19.6.01	2019	1.95	Shade Coffee	465.61	395.77
18.2.0c0.18.4.02	2019	2.15	Mixed Species	759.23	645.34
20.4.001.19.4.02	2019	2.42	Mixed Species	854.60	726.41
16.2.1a1.19.3.01	2019	2.40	Silvopastoral	541.45	460.24
19.2.0cf.19.4.01	2019	1.37	Mixed Species	483.50	410.98
18.2.03d.18.4.02	2019	17.62	Mixed Species	6213.35	5281.34
17.2.017.18.4.01	2019	2.21	Mixed Species	779.57	662.64
15.2.005.18.4.01	2019	1.91	Mixed Species	673.13	572.16
18.2.0bf.18.4.01	2019	2.59	Mixed Species	913.77	776.70
19.3.02a.19.6.01	2019	0.68	Shade Coffee	163.01	138.56
18.2.03d.19.4.01	2019	2.49	Mixed Species	878.47	746.70
19.2.0ee.19.4.01	2019	1.34	Mixed Species	472.75	401.84
15.2.001.18.4.03	2019	1.70	Mixed Species	598.55	508.77
18.2.0c0.18.4.01	2019	1.01	Mixed Species	356.01	302.61
17.4.007.19.4.01	2019	0.55	Mixed Species	193.78	164.72
19.2.0ee.19.4.02	2019	1.37	Mixed Species	481.46	409.24
15.2.001.18.4.02	2019	1.13	Mixed Species	399.45	339.53
20.727.001.19.4.01	2019	1.77	Mixed Species	623.34	529.84
20.5.001.20.4.01	2019	3.30	Mixed Species	1164.81	990.09
14.1.006.19.4.02	2019	0.32	Mixed Species	114.49	97.31
19.4.003.19.4.01	2019	3.24	Mixed Species	1143.30	971.81
.19..49	2019	4.97	Mixed Species	1753.91	1490.83
.19..8e	2019	2.41	Mixed Species	849.14	721.77
19.2.046.19.4.01	2019	2.15	Mixed Species	756.83	643.31
19.3.084.19.6.02	2019	0.84	Shade Coffee	201.25	171.06



Farm ID	Planting Year	Area (Ha)	Tech Spec	Gross tCO ₂	Sellable tCO ₂
19.2.04b.19.4.01	2019	2.77	Mixed Species	977.09	830.53
19.2.007.19.4.02	2019	2.15	Mixed Species	757.25	643.67
15.2.016.19.4.01	2019	4.20	Mixed Species	1481.54	1259.31
16.2.302.19.4.01	2019	8.93	Mixed Species	3148.61	2676.32
19.2.0cd.19.4.01	2019	1.77	Mixed Species	625.70	531.85
19.2.0cc.19.4.01	2019	5.91	Mixed Species	2082.88	1770.45
19.2.0ce.19.4.01	2019	4.01	Mixed Species	1414.97	1202.73
.19..38	2019	4.62	Mixed Species	1630.19	1385.66
19.2.044.19.4.01	2019	1.47	Mixed Species	516.79	439.27
.19..0d	2019	3.98	Mixed Species	1404.46	1193.80
19.2.024.19.4.01	2019	2.37	Mixed Species	837.11	711.55
19.2.020.19.4.01	2019	2.65	Mixed Species	934.22	794.09
17.4.006.18.4.01	2019	2.65	Mixed Species	934.32	794.18
19.2.02e.19.4.01	2019	1.65	Mixed Species	581.70	494.45
15.2.004.19.4.01	2019	5.73	Mixed Species	2020.05	1717.04
16.4.001.19.4.02	2019	1.88	Mixed Species	664.59	564.90
.19.4.07	2019	1.42	Mixed Species	499.62	424.67
17.2.01e.19.4.01	2019	2.17	Mixed Species	763.49	648.97
.19.3.01	2019	4.24	Silvopastoral	956.81	813.29
19.2.030.19.3.01	2019	7.01	Silvopastoral	1583.22	1345.74
.19.3.02	2019	3.35	Silvopastoral	756.38	642.93
15.2.003.15.4.01	2019	20.18	Mixed Species	7116.43	6048.96
.19.3.12	2019	14.01	Silvopastoral	3163.01	2688.56
16.2.a53.19.4.01	2019	0.93	Mixed Species	329.39	279.98
.19..2e	2019	2.64	Mixed Species	931.08	791.42
19.2.057.19.4.01	2019	2.73	Mixed Species	964.01	819.41
19.3.00e.19.6.02	2019	1.29	Shade Coffee	307.52	261.39
19.3.091.19.6.02	2019	1.18	Shade Coffee	281.29	239.10
19.3.091.19.6.01	2019	2.00	Shade Coffee	477.11	405.55

Farm ID	Planting Year	Area (Ha)	Tech Spec	Gross tCO ₂	Sellable tCO ₂
.19.6.02	2019	0.63	Shade Coffee	149.65	127.20
19.2.015.19.4.03	2019	3.06	Mixed Species	1080.08	918.07
19.3.00e.19.6.03	2019	2.40	Shade Coffee	574.04	487.93
19.3.079.19.6.01	2019	0.70	Shade Coffee	168.39	143.13
19.3.040.19.6.01	2019	0.59	Shade Coffee	140.37	119.32
.19..87	2019	1.97	Mixed Species	693.19	589.21
.19.3.11	2019	6.80	Silvopastoral	1536.14	1305.72
19.2.051.19.6.06	2019	1.68	Shade Coffee	400.89	340.76
19.2.0c7.19.4.01	2019	27.31	Mixed Species	9630.07	8185.56
.19..15	2019	9.35	Silvopastoral	2111.98	1795.19
.17..2a	2019	10.41	Silvopastoral	2349.94	1997.45
19.3.09a.19.6.01	2019	1.69	Shade Coffee	403.54	343.01
18.2.03d.19.4.03	2019	4.82	Mixed Species	1698.66	1443.86
19.2.085.19.6.01	2019	1.69	Shade Coffee	404.95	344.21
.19.6.25	2019	2.61	Shade Coffee	623.63	530.08
19.3.01c.19.6.01	2019	1.56	Shade Coffee	372.53	316.65
19.3.07a.19.6.01	2019	1.92	Shade Coffee	458.99	390.14
15.2.008.19.4.01	2019	6.44	Mixed Species	2272.25	1931.42
16.2.62a.19.4.01	2019	8.00	Mixed Species	2819.40	2396.49
19.3.0df.19.6.01	2019	1.29	Shade Coffee	307.91	261.72
.19..93	2019	1.39	Shade Coffee	331.93	282.14
19.3.0d6.19.6.01	2019	1.84	Shade Coffee	439.60	373.66
19.3.02c.19.6.01	2019	1.52	Shade Coffee	364.59	309.91
19.2.035.19.6.01	2019	1.16	Shade Coffee	276.70	235.20
19.3.006.19.6.01	2019	1.17	Shade Coffee	280.00	238.00
19.3.020.19.6.01	2019	1.28	Shade Coffee	305.37	259.57
.19.4.05	2019	4.18	Mixed Species	1472.41	1251.55
19.3.025.19.6.02	2019	1.43	Shade Coffee	342.55	291.17
.19.6.22	2019	6.18	Shade Coffee	1477.53	1255.90

Farm ID	Planting Year	Area (Ha)	Tech Spec	Gross tCO ₂	Sellable tCO ₂
.19.6.24	2019	0.22	Shade Coffee	53.77	45.71
19.2.051.19.6.08	2019	0.59	Shade Coffee	141.42	120.21
19.3.08e.19.6.01	2019	1.24	Shade Coffee	296.86	252.33
19.1.00e.19.4.02	2019	0.37	Mixed Species	131.27	111.58
.19.6.17	2019	0.32	Shade Coffee	75.96	64.57
19.3.0e0.19.6.01	2019	0.68	Shade Coffee	161.72	137.46
19.3.014.19.6.02	2019	0.68	Shade Coffee	162.15	137.83
19.2.01c.19.6.01	2019	1.30	Shade Coffee	311.25	264.56
19.3.035.19.6.01	2019	1.40	Shade Coffee	335.62	285.27
19.3.083.19.6.01	2019	1.04	Shade Coffee	249.64	212.19
19.3.064.19.6.01	2019	2.32	Shade Coffee	554.51	471.33
.19.6.23	2019	0.98	Shade Coffee	235.15	199.88
19.2.05d.19.6.02	2019	0.61	Shade Coffee	146.52	124.54
.19.6.13	2019	1.11	Shade Coffee	264.63	224.93
19.3.02a.19.6.03	2019	2.08	Shade Coffee	496.91	422.37
19.3.0c2.19.6.02	2019	1.19	Shade Coffee	284.83	242.11
19.2.05d.19.6.01	2019	0.43	Shade Coffee	103.00	87.55
19.3.087.19.6.02	2019	0.76	Shade Coffee	182.07	154.76
19.3.03b.19.6.01	2019	1.62	Shade Coffee	387.19	329.11
19.3.0a0.19.6.01	2019	3.02	Shade Coffee	722.47	614.10
19.3.02d.19.6.02	2019	0.73	Shade Coffee	175.66	149.31
19.3.037.19.6.03	2019	0.29	Shade Coffee	70.08	59.57
19.3.001.19.6.03	2019	1.03	Shade Coffee	247.03	209.98
16.3.d10.19.6.01	2019	1.17	Shade Coffee	280.74	238.63
19.3.001.19.6.02	2019	0.89	Shade Coffee	213.94	181.85
19.3.001.19.6.04	2019	0.39	Shade Coffee	92.89	78.95
.19..b5	2019	2.69	Shade Coffee	643.47	546.95
19.3.0a9.19.6.01	2019	1.63	Shade Coffee	389.70	331.24
.19.6.16	2019	0.76	Shade Coffee	182.43	155.06

Farm ID	Planting Year	Area (Ha)	Tech Spec	Gross tCO ₂	Sellable tCO ₂
19.3.0d5.19.6.01	2019	1.58	Shade Coffee	378.56	321.77
19.3.001.19.6.05	2019	0.93	Shade Coffee	223.43	189.92
.19.6.20	2019	5.73	Shade Coffee	1369.12	1163.76
19.3.07b.19.6.01	2019	3.84	Shade Coffee	918.50	780.73
19.3.0a0.19.6.04	2019	0.60	Shade Coffee	144.29	122.65
19.3.0bd.19.6.02	2019	1.19	Shade Coffee	285.60	242.76
19.3.085.19.6.02	2019	1.64	Shade Coffee	391.28	332.59
19.3.0bd.19.6.01	2019	2.91	Shade Coffee	696.67	592.17
19.3.0a4.19.6.01	2019	0.71	Shade Coffee	170.78	145.17
19.2.051.16..be	2019	1.33	Shade Coffee	317.18	269.60
19.3.0a0.19.6.03	2019	1.80	Shade Coffee	431.21	366.53
19.3.097.19.6.01	2019	1.45	Shade Coffee	347.83	295.66
19.3.07c.19.6.01	2019	2.34	Shade Coffee	558.40	474.64
19.3.0ba.19.6.01	2019	3.06	Shade Coffee	731.34	621.64
19.3.052.19.6.01	2019	1.59	Shade Coffee	380.66	323.56
14.2.009.19.4.01	2019	1.40	Mixed Species	495.25	420.96
19.2.040.19.4.01	2019	1.53	Mixed Species	538.54	457.76
.19.6.21	2019	4.61	Shade Coffee	1101.24	936.06
19.3.037.19.6.01	2019	1.37	Shade Coffee	326.46	277.49
19.3.058.19.6.01	2019	2.80	Shade Coffee	668.53	568.25
19.3.0aa.19.6.01	2019	1.44	Shade Coffee	344.70	293.00
19.3.0c8.19.6.01	2019	2.74	Shade Coffee	654.04	555.94
.19..77	2019	3.29	Mixed Species	1160.23	986.19
19.2.004.19.4.01	2019	1.46	Mixed Species	515.91	438.52
19.2.091.19.6.01	2019	2.16	Shade Coffee	516.99	439.44
19.2.041.19.4.01	2019	3.64	Mixed Species	1282.33	1089.98
.19.4.08	2019	2.99	Mixed Species	1055.16	896.88
19.2.014.19..24	2019	1.81	Shade Coffee	432.93	367.99
19.3.08f.19.6.01	2019	2.23	Shade Coffee	532.63	452.74

Farm ID	Planting Year	Area (Ha)	Tech Spec	Gross tCO ₂	Sellable tCO ₂
.19..81	2019	9.18	Shade Coffee	2195.03	1865.77
19.2.014.19.6.01	2019	0.59	Shade Coffee	140.30	119.26
.19..a8	2019	3.40	Mixed Species	1198.66	1018.86
.19.3.06	2019	11.81	Silvopastoral	2667.42	2267.30
.18..f3	2019	10.15	Mixed Species	3577.29	3040.70
19.2.0c1.20.3.02	2019	6.63	Silvopastoral	1496.08	1271.67
19.2.045.19.4.01	2019	3.47	Mixed Species	1224.86	1041.13
19.2.068.19.3.01	2019	16.27	Silvopastoral	3673.50	3122.48
19.2.053.19.4.01	2019	1.99	Mixed Species	701.44	596.22
19.5.008.19.3.02	2019	7.39	Silvopastoral	1668.49	1418.21
.19.3.05	2019	25.78	Silvopastoral	5821.80	4948.53
.18..69	2019	5.42	Mixed Species	1909.51	1623.09
.19..78	2019	1.61	Mixed Species	567.91	482.73
19.2.0bf.19.3.04	2019	56.35	Silvopastoral	12725.12	10816.36
19.2.01f.19.4.04	2019	9.44	Mixed Species	3329.60	2830.16
19.3.0b0.19.6.01	2019	2.38	Shade Coffee	569.93	484.44
16.3.012.18.6.02	2019	1.34	Shade Coffee	319.21	271.33
16.2.001.18.4.01	2019	0.89	Mixed Species	313.06	266.10
16.2.440.19.4.01	2019	2.30	Mixed Species	812.33	690.48
14.2.018.19.4.01	2019	1.67	Mixed Species	588.68	500.38
19.5.006.19.4.02	2019	1.44	Mixed Species	509.28	432.89
14.2.012.19.4.01	2019	2.23	Mixed Species	786.48	668.51
14.2.f2e.19.4.01	2019	1.65	Mixed Species	582.16	494.83
19.2.084.19.6.01	2019	1.38	Shade Coffee	330.02	280.52
.19..82	2019	19.86	Mixed Species	7003.71	5953.15
19.2.050.19.4.02	2019	1.81	Mixed Species	639.63	543.69
19.2.029.19.4.01	2019	1.11	Mixed Species	390.03	331.53
19.3.00c.19.6.02	2019	0.73	Shade Coffee	175.71	149.35
19.3.00c.19.6.01	2019	1.77	Shade Coffee	423.39	359.88

Farm ID	Planting Year	Area (Ha)	Tech Spec	Gross tCO ₂	Sellable tCO ₂
19.2.029.19.4.02	2019	0.49	Mixed Species	174.35	148.20
20.2.005.20.6.02	2019	1.41	Shade Coffee	336.19	285.76
18.3.050.19.6.02	2019	0.82	Shade Coffee	195.17	165.90
18.3.050.19.6.01	2019	0.42	Shade Coffee	100.75	85.64
19.2.067.19.3.01	2019	12.80	Silvopastoral	2891.38	2457.67
19.2.092.19.6.01	2019	2.31	Shade Coffee	552.81	469.89
18.2.022.19.4.02	2019	1.32	Mixed Species	466.44	396.47
19.2.083.19.6.01	2019	2.16	Shade Coffee	515.32	438.02
.19.4.12	2019	3.53	Mixed Species	1245.45	1058.63
.19.4.06	2019	4.02	Mixed Species	1417.19	1204.61
.19.3.10	2019	34.85	Silvopastoral	7869.20	6688.82
19.2.08e.19.6.02	2019	4.51	Shade Coffee	1077.43	915.82
.19..ce	2019	2.37	Shade Coffee	565.91	481.03
.19.3.08	2019	21.37	Silvopastoral	4826.59	4102.60
16.3.001.19.6.01	2019	0.51	Shade Coffee	122.42	104.05
.16..24	2019	2.74	Mixed Species	966.27	821.33
19.3.065.19.6.01	2019	2.77	Shade Coffee	663.06	563.60
.19.3.04	2019	3.04	Silvopastoral	686.88	583.85
.19..29	2019	0.65	Shade Coffee	155.63	132.28
19.5.005.19.3.01	2019	5.04	Mixed Species	1776.09	1509.68
.19..fc	2019	2.09	Shade Coffee	500.71	425.60
19.2.088.19.6.01	2019	1.39	Shade Coffee	332.72	282.81
19.2.006.19.4.01	2019	2.06	Mixed Species	726.01	617.11
19.2.074.19.6.02	2019	0.76	Shade Coffee	182.67	155.27
19.3.038.19.6.03	2019	2.11	Shade Coffee	503.91	428.33
19.3.07e.19.6.01	2019	2.20	Shade Coffee	525.62	446.78
.18..14	2019	1.49	Shade Coffee	357.35	303.75
.19..16	2019	1.08	Shade Coffee	259.13	220.26
.19..fa	2019	5.41	Shade Coffee	1292.49	1098.62

Farm ID	Planting Year	Area (Ha)	Tech Spec	Gross tCO ₂	Sellable tCO ₂
19.3.09f.19.6.02	2019	0.60	Shade Coffee	144.05	122.45
19.2.088.19.6.02	2019	4.71	Shade Coffee	1126.75	957.74
19.2.093.19.6.02	2019	0.59	Shade Coffee	140.13	119.11
19.3.08c.19.6.01	2019	1.35	Shade Coffee	321.58	273.34
19.2.07f.19.4.01	2019	0.63	Mixed Species	222.62	189.23
20.2.005.20.6.01	2019	1.24	Shade Coffee	297.39	252.78
19.3.060.19.6.03	2019	1.50	Shade Coffee	357.66	304.01
19.3.060.19.6.01	2019	1.91	Shade Coffee	455.88	387.50
.18..d0	2019	10.35	Silvopastoral	2337.46	1986.84
19.3.04e.19.6.01	2019	1.37	Shade Coffee	326.46	277.49
19.3.0a1.19.6.01	2019	3.19	Shade Coffee	763.21	648.73
19.3.060.19.6.04	2019	1.12	Shade Coffee	268.91	228.57
19.3.08e.19.6.03	2019	2.15	Shade Coffee	513.50	436.48
19.2.01b.19.4.01	2019	1.41	Mixed Species	496.55	422.07
19.2.08e.19.6.01	2019	2.76	Shade Coffee	659.04	560.18
19.2.074.19.6.01	2019	0.94	Shade Coffee	223.82	190.24
19.2.08e.19.6.03	2019	2.22	Shade Coffee	530.69	451.09
19.2.06d.19.4.02	2019	1.37	Mixed Species	484.35	411.70
17.2.015.18.4.01	2019	1.09	Mixed Species	385.73	327.87
19.3.08b.19.6.01	2019	2.02	Shade Coffee	482.11	409.79
18.2.008.19.6.01	2019	1.27	Shade Coffee	302.86	257.43
.19.6.27	2019	2.18	Shade Coffee	521.51	443.29
18.2.024.19.4.01	2019	3.04	Mixed Species	1072.01	911.21
.19..6e	2019	1.54	Shade Coffee	367.51	312.38
18.2.0bd.18.4.01	2019	3.44	Mixed Species	1213.22	1031.24
19.1.014.19.4.01	2019	0.64	Mixed Species	227.24	193.16
.18..19	2019	2.47	Mixed Species	872.34	741.49
19.2.058.19.4.01	2019	2.44	Mixed Species	860.46	731.39
19.3.08e.19.6.02	2019	4.87	Shade Coffee	1164.63	989.93

Farm ID	Planting Year	Area (Ha)	Tech Spec	Gross tCO ₂	Sellable tCO ₂
.19.4.02	2019	5.54	Mixed Species	1954.57	1661.39
.19..32	2019	3.66	Mixed Species	1291.57	1097.83
16.2.1a7.19.4.01	2019	1.24	Mixed Species	438.76	372.95
.19..4a	2019	2.42	Mixed Species	852.35	724.49
.19.4.11	2019	0.41	Mixed Species	145.16	123.39
19.1.007.19.4.02	2019	1.25	Mixed Species	439.64	373.70
14.1.006.19.4.03	2019	1.45	Mixed Species	512.03	435.22
19.1.016.19.4.01	2019	1.28	Mixed Species	451.38	383.68
19.1.008.19.4.01	2019	1.47	Mixed Species	517.99	440.29
19.1.009.19.4.01	2019	1.39	Mixed Species	491.79	418.02
19.1.003.19.4.01	2019	1.49	Mixed Species	524.02	445.41
.19..c3	2019	2.02	Mixed Species	711.81	605.03
19.1.011.19.4.01	2019	1.68	Mixed Species	591.57	502.84
19.1.001.19.4.01	2019	1.49	Mixed Species	525.25	446.46
.19..80	2019	1.02	Mixed Species	359.39	305.48
19.1.013.19.4.01	2019	1.42	Mixed Species	500.60	425.51
19.1.00a.19.4.01	2019	2.54	Mixed Species	893.99	759.89
.18..00	2019	1.03	Mixed Species	363.98	309.38
.18..98	2019	1.34	Mixed Species	470.85	400.22
19.1.015.19.4.01	2019	1.55	Mixed Species	545.03	463.28
18.2.0bc.18.4.01	2019	1.06	Mixed Species	375.01	318.76
16.2.1a9.19.4.01	2019	2.39	Mixed Species	843.78	717.21
19.2.06e.19.4.01	2019	1.55	Mixed Species	545.81	463.94
19.1.012.19.4.03	2019	1.48	Mixed Species	521.51	443.29
19.2.005.19.4.01	2019	0.82	Mixed Species	288.52	245.24
.18..80	2019	2.42	Mixed Species	853.33	725.33
19.5.004.19.4.01	2019	1.48	Mixed Species	520.81	442.69
.19..a5	2019	9.84	Mixed Species	3470.67	2950.07
19.1.00f.19.4.01	2019	2.70	Mixed Species	951.04	808.38

Farm ID	Planting Year	Area (Ha)	Tech Spec	Gross tCO ₂	Sellable tCO ₂
19.2.047.19.4.01	2019	1.99	Mixed Species	702.67	597.27
19.2.039.19.4.01	2019	2.25	Mixed Species	794.13	675.01
14.1.009.19.4.01	2019	1.36	Mixed Species	478.50	406.72
20.2.058.20.4.01	2019	3.29	Mixed Species	1161.53	987.30
20.2.01d.20.3.01	2019	12.25	Silvopastoral	2765.12	2350.36
20.727.001.19.4.03	2019	0.44	Mixed Species	154.96	131.72
18.4.010.19.3.01	2019	9.70	Silvopastoral	2189.41	1861.00
19.4.003.19.4.02	2019	2.32	Mixed Species	818.75	695.93
19.2.06d.19.4.03	2019	0.38	Mixed Species	134.58	114.40
18.2.03d.19.3.02	2019	34.75	Silvopastoral	7847.79	6670.62
19.2.051.16..7f	2019	1.99	Shade Coffee	475.61	404.27
18.3.040.19.6.01	2019	0.73	Shade Coffee	173.87	147.79
17.2.02d.19.4.05	2019	1.71	Mixed Species	604.23	513.60
19.2.0c1.20.3.01	2019	9.61	Silvopastoral	2170.63	1845.03
19.3.09e.19.6.02	2019	1.60	Shade Coffee	381.88	324.60
19.2.073.19.4.01	2019	7.38	Mixed Species	2602.49	2212.12
20.2.041.20.4.01	2019	3.53	Mixed Species	1244.67	1057.97
.20.4.02	2019	19.50	Mixed Species	6875.01	5843.76
19.1.018.19.4.01	2019	1.24	Mixed Species	435.80	370.43
19.2.0c5.19.3.01	2019	13.08	Silvopastoral	2953.09	2510.13
19.1.00e.19.4.01	2019	0.83	Mixed Species	291.45	247.73
13.1.091.19.4.01	2019	0.98	Mixed Species	344.09	292.48

Appendix 3: Detailed carbon sales to date

The following table provides a detailed list of Plan Vivo Certificates sold to date by vintage.

Table 13: Carbon sales to date

Vintage	Name of purchaser	Certificates purchased	Price/certificate (USD)	Total received (USD)
2010	C-Level	650		
2010	Carbon Advice Group	95		
2010	Carbon Finance Intel	50		
2010	Prima Klima	11,009		
2010	Taking Root	538		
2010	TOTAL	12,342		
2011	C-Level	850		
2011	C-Level	1,350		
2011	MyClimate	3,000		
2011	Prima Klima	20,950		
2011	Prima Klima	5,300		
2011	Taking Root	1,234		
2011	ZeroMission	1,000		
2011	TOTAL	33,684		
2012	C-Level	1,400		
2012	COTAP	359		
2012	MyClimate	10,000		
2012	Prima Klima	30,000		
2012	Taking Root	549		
2012	ZeroMission	20,000		
2012	ZeroMission	3,899		
2012	TOTAL	66,207		
2013	C-Level	1,500		
2013	CeroCO2	414		
2013	COTAP	457		
2013	COTAP	158		
2013	MyClimate	13,000		
2013	Prima Klima	21,181		
2013	Taking Root	1,324		
2013	Tree-Nation	609		
2013	Tree-Nation	170		
2013	Tree-Nation	111		
2013	Tree-Nation	229		

2013	Tree-Nation	91
2013	ZeroMission	32,000
2013	ZeroMission	4,979
2013	ZeroMission	2,207
2013	TOTAL	78,430
2014	C-Level	1,000
2014	COTAP	460
2014	Inter-American Development Bank	24,000
2014	MyClimate	10,000
2014	Prima Klima	5,000
2014	Taking Root (Retail)	481
2014	ZeroMission	25,000
2014	TOTAL	65,941
2015	C-Level	1,100
2015	CeroCO2	1,700
2015	COTAP	246
2015	COTAP	415
2015	MyClimate	10,999
2015	Prima Klima	17,000
2015	Inter-American Development Bank	32,000
2015	Tree-Nation	111
2015	ZeroMission	25,000
2015	Taking Root 2015 retail sales	889
2015	Taking Root sold in 2016	702
2015	Total	90,162
2016	Prima Klima	20,000
2016	ZeroMission	31,578
2016	CRS	31,815
2016	Myclimate	10,000
2016	ECODES/CeroCO2	3,600
2016	CLEVEL	1,500
2016	COTAP	851
2016	Taking Root retail 2016	474
2016	Taking Root retail 2017	1,222
2016	Total	101,040
2017	Myclimate	28,000
2017	Myclimate	16,500
2017	ECODES	3,000
2017	ZeroMission	15,000
2017	Prima Klima	9,000
2017	ZeroMission	7,637

2017	COTAP	1,491	
2017	Zero Mission	15,400	
2017	MyClimate	1,400	
2017	C-Level	1,500	
2017	Tree-Nation	374	
2017	TR Retail 2017	2,010	
2017	TR Retail 2018	1,403	
2017	Allocated to adjust for past years	44	
2017	Total	102,759	
2018	Arbor Day	2,800	
2018	COTAP	3,976	
2018	ECODES/CeroCO2	3,000	
2018	Myclimate	10,000	
2018	Myclimate	30,000	
2018	Prima Klima	18,000	
2018	Tree-Nation	112	
2018	Zero Mission	3,025	
2018	Zero Mission	19,807	
2018	Zero Mission	12,168	
2018	Taking Root retail	3,478	
2018	Unsold	118	
2018	Adjusting for past years	68	
2018	Total	106,552	
2019	C-Level	6,500	
2019	COTAP	425	
2019	ECODES	6,000	
2019	MyClimate	50,000	
2019	Prima Klima	25,993	
2019	Tree-Nation	1,830	
2019	Zero Mission	135,000	
2019	Taking Root retail	4,136	
2019	Unsold	7,169	
2019	Total	237,053	
All years	GRAND TOTAL	894,170	

Appendix 4: Monitoring Results

The following worksheet contains Taking Root's monitoring results or forest inventory from 2019 for plan vivos planted from 2010 -2017 and in 2019. 2018 land was reported in the previous annual report. Note that the data provided is for area monitored, which in some cases is not the full area planted for the given year since some land was not monitored.

The Table below provides a description of indicators used:

Target	This target is based on the different monitoring years. Full details are available in the Technical Specifications.
Target basal area (m²/Ha)	The target basal area in m ² per hectare required to meet target as prescribed in each technical specification
Trees per hectare (TPH)	The target tree density required to meet the target as prescribed in each technical specification
Target met	Was the target met TRUE or FALSE

Notes

1. If all required targets are met, producer receives full payment. If some targets only meet the threshold, producer receives partial payment. If some targets do not meet threshold, payment is not received.

2019 Monitoring Results for 2019 Plan Vivos

Farm ID	Area (Ha)	Tech Spec	Target	Basal Area (m ² /ha)	TPH	Target Met
19.3.0e5.19.6.01	1.95	Shade Coffee	TPH > 200	52.58	8223.01	TRUE
18.2.0c0.18.4.02	2.15	Mixed Species	TPH > 375	0.28	619.63	TRUE
20.4.001.19.4.02	2.42	Mixed Species	TPH > 375	0.00	893.22	TRUE
16.2.1a1.19.3.01	2.40	Silvopastoral	TPH > 180	13.05	979.06	TRUE
19.2.0cf.19.4.01	1.37	Mixed Species	TPH > 375	8.53	1085.78	TRUE
18.2.03d.18.4.02	17.62	Mixed Species	TPH > 375	1.36	449.20	TRUE
17.2.017.18.4.01	2.21	Mixed Species	TPH > 375	0.02	829.50	TRUE
15.2.005.18.4.01	1.91	Mixed Species	TPH > 375	6.20	596.46	TRUE
18.2.0bf.18.4.01	2.59	Mixed Species	TPH > 375	3.05	284.83	FALSE
19.3.02a.19.6.01	0.68	Shade Coffee	TPH > 200	95.75	9151.41	TRUE
18.2.03d.19.4.01	2.49	Mixed Species	TPH > 375	0.00	751.11	TRUE
19.2.0ee.19.4.01	1.34	Mixed Species	TPH > 375	3.69	495.33	TRUE



Farm ID	Area (Ha)	Tech Spec	Target	Basal Area (m ² /ha)	TPH	Target Met
15.2.001.18.4.03	1.70	Mixed Species	TPH > 375	0.00	1024.94	TRUE
18.2.0c0.18.4.01	1.01	Mixed Species	TPH > 375	0.00	896.46	TRUE
17.4.007.19.4.01	0.55	Mixed Species	TPH > 375	2.80	682.09	TRUE
19.2.0ee.19.4.02	1.37	Mixed Species	TPH > 375	13.08	872.34	TRUE
15.2.001.18.4.02	1.13	Mixed Species	TPH > 375	0.00	935.44	TRUE
20.727.001.19.4.01	1.77	Mixed Species	TPH > 375	4.11	832.32	TRUE
20.5.001.20.4.01	3.30	Mixed Species	TPH > 375	6.77	1001.77	TRUE
14.1.006.19.4.02	0.32	Mixed Species	TPH > 375	3.19	324.81	FALSE
19.4.003.19.4.01	3.24	Mixed Species	TPH > 375	3.13	584.65	TRUE
.19..49	4.97	Mixed Species	TPH > 375	7.45	940.03	TRUE
.19..8e	2.41	Mixed Species	TPH > 375	3.55	718.90	TRUE
19.2.046.19.4.01	2.15	Mixed Species	TPH > 375	42.39	1667.34	TRUE
19.3.084.19.6.02	0.84	Shade Coffee	TPH > 200	64.67	8156.69	TRUE
19.2.04b.19.4.01	2.77	Mixed Species	TPH > 375	10.21	948.43	TRUE
19.2.007.19.4.02	2.15	Mixed Species	TPH > 375	1.64	446.61	TRUE
15.2.016.19.4.01	4.20	Mixed Species	TPH > 375	5.69	652.21	TRUE
16.2.302.19.4.01	8.93	Mixed Species	TPH > 375	3.00	689.69	TRUE
19.2.0cd.19.4.01	1.77	Mixed Species	TPH > 375	4.49	701.58	TRUE
19.2.0cc.19.4.01	5.91	Mixed Species	TPH > 375	2.04	547.53	TRUE
19.2.0ce.19.4.01	4.01	Mixed Species	TPH > 375	7.86	706.45	TRUE
.19..38	4.62	Mixed Species	TPH > 375	7.42	1013.86	TRUE
19.2.044.19.4.01	1.47	Mixed Species	TPH > 375	2.61	707.36	TRUE
.19..0d	3.98	Mixed Species	TPH > 375	3.42	744.10	TRUE
19.2.024.19.4.01	2.37	Mixed Species	TPH > 375	0.00	822.84	TRUE
19.2.020.19.4.01	2.65	Mixed Species	TPH > 375	4.29	592.77	TRUE
17.4.006.18.4.01	2.65	Mixed Species	TPH > 375	4.81	974.42	TRUE
19.2.02e.19.4.01	1.65	Mixed Species	TPH > 375	0.45	1371.40	TRUE
15.2.004.19.4.01	5.73	Mixed Species	TPH > 375	7.66	460.82	TRUE
16.4.001.19.4.02	1.88	Mixed Species	TPH > 375	4.37	526.19	TRUE
.19.4.07	1.42	Mixed Species	TPH > 375	19.78	1339.82	TRUE

Farm ID	Area (Ha)	Tech Spec	Target	Basal Area (m ² /ha)	TPH	Target Met
17.2.01e.19.4.01	2.17	Mixed Species	TPH > 375	3.52	989.41	TRUE
.19.3.01	4.24	Silvopastoral	TPH > 180	11.21	519.69	TRUE
19.2.030.19.3.01	7.01	Silvopastoral	TPH > 180	6.02	394.76	TRUE
.19.3.02	3.35	Silvopastoral	TPH > 180	2.90	461.22	TRUE
15.2.003.15.4.01	20.18	Mixed Species	TPH > 375	10.46	686.01	TRUE
.19.3.12	14.01	Silvopastoral	TPH > 180	4.45	519.69	TRUE
16.2.a53.19.4.01	0.93	Mixed Species	TPH > 375	5.49	324.81	FALSE
.19..2e	2.64	Mixed Species	TPH > 375	13.56	389.77	TRUE
19.2.057.19.4.01	2.73	Mixed Species	TPH > 375	2.04	64.96	FALSE
19.3.00e.19.6.02	1.29	Shade Coffee	TPH > 200	8.23	7275.65	TRUE
19.3.091.19.6.02	1.18	Shade Coffee	TPH > 200	13.09	10117.71	TRUE
19.3.091.19.6.01	2.00	Shade Coffee	TPH > 200	13.02	10544.01	TRUE
.19.6.02	0.63	Shade Coffee	TPH > 200	165.90	9284.04	TRUE
19.2.015.19.4.03	3.06	Mixed Species	TPH > 375	5.17	974.42	TRUE
19.3.00e.19.6.03	2.40	Shade Coffee	TPH > 200	4.89	11254.53	TRUE
19.3.079.19.6.01	0.70	Shade Coffee	TPH > 200	221.73	9350.35	TRUE
19.3.040.19.6.01	0.59	Shade Coffee	TPH > 200	139.10	9018.78	TRUE
.19..87	1.97	Mixed Species	TPH > 375	6.25	519.69	TRUE
.19.3.11	6.80	Silvopastoral	TPH > 180	1.12	395.95	TRUE
19.2.051.19.6.06	1.68	Shade Coffee	TPH > 200	176.36	8116.90	TRUE
19.2.0c7.19.4.01	27.31	Mixed Species	TPH > 375	4.79	584.65	TRUE
.19..15	9.35	Silvopastoral	TPH > 180	0.00	194.88	TRUE
.17..2a	10.41	Silvopastoral	TPH > 180	4.41	393.83	TRUE
19.3.09a.19.6.01	1.69	Shade Coffee	TPH > 200	6.13	7957.75	TRUE
18.2.03d.19.4.03	4.82	Mixed Species	TPH > 375	74.73	913.79	TRUE
19.2.085.19.6.01	1.69	Shade Coffee	TPH > 200	240.11	4854.23	TRUE
.19.6.25	2.61	Shade Coffee	TPH > 200	52.71	10451.17	TRUE
19.3.01c.19.6.01	1.56	Shade Coffee	TPH > 200	51.00	9549.30	TRUE
19.3.07a.19.6.01	1.92	Shade Coffee	TPH > 200	90.16	10055.70	TRUE
15.2.008.19.4.01	6.44	Mixed Species	TPH > 375	4.66	259.84	FALSE
16.2.62a.19.4.01	8.00	Mixed Species	TPH > 375	5.26	955.86	TRUE

Farm ID	Area (Ha)	Tech Spec	Target	Basal Area (m ² /ha)	TPH	Target Met
19.3.0df.19.6.01	1.29	Shade Coffee	TPH > 200	51.22	10799.80	TRUE
.19..93	1.39	Shade Coffee	TPH > 200	53.20	8753.52	TRUE
19.3.0df.19.6.01	1.84	Shade Coffee	TPH > 200	210.74	7234.32	TRUE
19.3.02c.19.6.01	1.52	Shade Coffee	TPH > 200	479.34	8841.94	TRUE
19.2.035.19.6.01	1.16	Shade Coffee	TPH > 200	73.62	8753.52	TRUE
19.3.006.19.6.01	1.17	Shade Coffee	TPH > 200	55.38	11027.16	TRUE
19.3.020.19.6.01	1.28	Shade Coffee	TPH > 200	52.11	11368.21	TRUE
.19.4.05	4.18	Mixed Species	TPH > 375	4.90	288.43	FALSE
19.3.025.19.6.02	1.43	Shade Coffee	TPH > 200	31.03	9350.35	TRUE
.19.6.22	6.18	Shade Coffee	TPH > 200	249.98	7876.13	TRUE
.19.6.24	0.22	Shade Coffee	TPH > 200	186.02	17507.04	TRUE
19.2.051.19.6.08	0.59	Shade Coffee	TPH > 200	357.63	12732.40	TRUE
19.3.08e.19.6.01	1.24	Shade Coffee	TPH > 200	851.72	12391.35	TRUE
19.1.00e.19.4.02	0.37	Mixed Species	TPH > 375	0.01	194.88	FALSE
.19.6.17	0.32	Shade Coffee	TPH > 200	153.53	28647.89	TRUE
19.3.0e0.19.6.01	0.68	Shade Coffee	TPH > 200	46.62	9284.04	TRUE
19.3.014.19.6.02	0.68	Shade Coffee	TPH > 200	249.65	13793.43	TRUE
19.2.01c.19.6.01	1.30	Shade Coffee	TPH > 200	25.77	11481.89	TRUE
19.3.035.19.6.01	1.40	Shade Coffee	TPH > 200	210.67	11638.21	TRUE
19.3.083.19.6.01	1.04	Shade Coffee	TPH > 200	56.19	6631.46	TRUE
19.3.064.19.6.01	2.32	Shade Coffee	TPH > 200	15.76	10856.64	TRUE
.19.6.23	0.98	Shade Coffee	TPH > 200	141.65	17666.20	TRUE
19.2.05d.19.6.02	0.61	Shade Coffee	TPH > 200	223.44	8156.69	TRUE
.19.6.13	1.11	Shade Coffee	TPH > 200	12.31	11671.36	TRUE
19.3.02a.19.6.03	2.08	Shade Coffee	TPH > 200	97.74	10544.01	TRUE
19.3.0c2.19.6.02	1.19	Shade Coffee	TPH > 200	107.14	11822.94	TRUE
19.2.05d.19.6.01	0.43	Shade Coffee	TPH > 200	24.62	8753.52	TRUE
19.3.087.19.6.02	0.76	Shade Coffee	TPH > 200	287.87	12334.51	TRUE
19.3.03b.19.6.01	1.62	Shade Coffee	TPH > 200	75.42	10345.07	TRUE
19.3.0a0.19.6.01	3.02	Shade Coffee	TPH > 200	298.14	11361.89	TRUE
19.3.02d.19.6.02	0.73	Shade Coffee	TPH > 200	34.81	11737.68	TRUE

Farm ID	Area (Ha)	Tech Spec	Target	Basal Area (m ² /ha)	TPH	Target Met
19.3.037.19.6.03	0.29	Shade Coffee	TPH > 200	127.06	9549.30	TRUE
19.3.001.19.6.03	1.03	Shade Coffee	TPH > 200	292.88	11803.99	TRUE
16.3.d10.19.6.01	1.17	Shade Coffee	TPH > 200	139.39	16048.12	TRUE
19.3.001.19.6.02	0.89	Shade Coffee	TPH > 200	393.50	10026.76	TRUE
19.3.001.19.6.04	0.39	Shade Coffee	TPH > 200	205.75	11936.62	TRUE
.19..b5	2.69	Shade Coffee	TPH > 200	346.85	9250.88	TRUE
19.3.0a9.19.6.01	1.63	Shade Coffee	TPH > 200	349.06	10433.49	TRUE
.19.6.16	0.76	Shade Coffee	TPH > 200	212.39	7758.80	TRUE
19.3.0d5.19.6.01	1.58	Shade Coffee	TPH > 200	108.36	11494.52	TRUE
19.3.001.19.6.05	0.93	Shade Coffee	TPH > 200	189.66	11618.31	TRUE
.19.6.20	5.73	Shade Coffee	TPH > 200	173.63	8267.22	TRUE
19.3.07b.19.6.01	3.84	Shade Coffee	TPH > 200	43.88	11140.85	TRUE
19.3.0a0.19.6.04	0.60	Shade Coffee	TPH > 200	304.29	10875.59	TRUE
19.3.0bd.19.6.02	1.19	Shade Coffee	TPH > 200	241.04	10686.12	TRUE
19.3.085.19.6.02	1.64	Shade Coffee	TPH > 200	4.35	10026.76	TRUE
19.3.0bd.19.6.01	2.91	Shade Coffee	TPH > 200	159.35	10477.70	TRUE
19.3.0a4.19.6.01	0.71	Shade Coffee	TPH > 200	131.28	10345.07	TRUE
19.2.051.16..be	1.33	Shade Coffee	TPH > 200	308.88	6863.56	TRUE
19.3.0a0.19.6.03	1.80	Shade Coffee	TPH > 200	651.44	7813.06	TRUE
19.3.097.19.6.01	1.45	Shade Coffee	TPH > 200	262.35	10146.13	TRUE
19.3.07c.19.6.01	2.34	Shade Coffee	TPH > 200	103.94	7275.65	TRUE
19.3.0ba.19.6.01	3.06	Shade Coffee	TPH > 200	167.48	12104.15	TRUE
19.3.052.19.6.01	1.59	Shade Coffee	TPH > 200	251.33	8665.10	TRUE
14.2.009.19.4.01	1.40	Mixed Species	TPH > 375	3.13	902.24	TRUE
19.2.040.19.4.01	1.53	Mixed Species	TPH > 375	0.00	938.33	TRUE
.19.6.21	4.61	Shade Coffee	TPH > 200	68.89	8945.61	TRUE
19.3.037.19.6.01	1.37	Shade Coffee	TPH > 200	121.88	8852.99	TRUE
19.3.058.19.6.01	2.80	Shade Coffee	TPH > 200	580.18	8238.61	TRUE
19.3.0aa.19.6.01	1.44	Shade Coffee	TPH > 200	134.32	12732.40	TRUE
19.3.0c8.19.6.01	2.74	Shade Coffee	TPH > 200	301.35	10579.12	TRUE
.19..77	3.29	Mixed Species	TPH > 375	1.09	1270.80	TRUE

Farm ID	Area (Ha)	Tech Spec	Target	Basal Area (m ² /ha)	TPH	Target Met
19.2.004.19.4.01	1.46	Mixed Species	TPH > 375	0.22	1039.38	TRUE
19.2.091.19.6.01	2.16	Shade Coffee	TPH > 200	143.02	8090.38	TRUE
19.2.041.19.4.01	3.64	Mixed Species	TPH > 375	3.15	507.88	TRUE
.19.4.08	2.99	Mixed Species	TPH > 375	1.58	1024.94	TRUE
19.2.014.19..24	1.81	Shade Coffee	TPH > 200	146.83	15987.84	TRUE
19.3.08f.19.6.01	2.23	Shade Coffee	TPH > 200	56.34	10895.99	TRUE
.19..81	9.18	Shade Coffee	TPH > 200	257.47	8321.92	TRUE
19.2.014.19.6.01	0.59	Shade Coffee	TPH > 200	56.46	15650.24	TRUE
.19..a8	3.40	Mixed Species	TPH > 375	2.44	259.84	FALSE
.19.3.06	11.81	Silvopastoral	TPH > 180	1.49	437.41	TRUE
.18..f3	10.15	Mixed Species	TPH > 375	4.78	381.47	TRUE
19.2.0c1.20.3.02	6.63	Silvopastoral	TPH > 180	6.40	310.19	TRUE
19.2.045.19.4.01	3.47	Mixed Species	TPH > 375	3.87	1447.71	TRUE
19.2.068.19.3.01	16.27	Silvopastoral	TPH > 180	5.97	630.56	TRUE
19.2.053.19.4.01	1.99	Mixed Species	TPH > 375	6.60	383.86	TRUE
19.5.008.19.3.02	7.39	Silvopastoral	TPH > 180	3.31	731.23	TRUE
.19.3.05	25.78	Silvopastoral	TPH > 180	3.72	535.58	TRUE
.18..69	5.42	Mixed Species	TPH > 375	2.18	781.45	TRUE
.19..78	1.61	Mixed Species	TPH > 375	7.91	1559.07	TRUE
19.2.0bf.19.3.04	56.35	Silvopastoral	TPH > 180	1.58	224.37	TRUE
19.2.01f.19.4.04	9.44	Mixed Species	TPH > 375	4.09	1065.80	TRUE
19.3.0b0.19.6.01	2.38	Shade Coffee	TPH > 200	138.58	10174.55	TRUE
16.3.012.18.6.02	1.34	Shade Coffee	TPH > 200	73.40	10345.07	TRUE
16.2.001.18.4.01	0.89	Mixed Species	TPH > 375	0.00	688.59	TRUE
16.2.440.19.4.01	2.30	Mixed Species	TPH > 375	1.06	825.94	TRUE
14.2.018.19.4.01	1.67	Mixed Species	TPH > 375	2.95	454.73	TRUE
19.5.006.19.4.02	1.44	Mixed Species	TPH > 375	2.14	1607.79	TRUE
14.2.012.19.4.01	2.23	Mixed Species	TPH > 375	1.81	1194.29	TRUE
14.2.f2e.19.4.01	1.65	Mixed Species	TPH > 375	0.02	734.06	TRUE
19.2.084.19.6.01	1.38	Shade Coffee	TPH > 200	0.00	7261.44	TRUE
.19..82	19.86	Mixed Species	TPH > 375	2.91	608.51	TRUE

Farm ID	Area (Ha)	Tech Spec	Target	Basal Area (m ² /ha)	TPH	Target Met
19.2.050.19.4.02	1.81	Mixed Species	TPH > 375	2.44	744.10	TRUE
19.2.029.19.4.01	1.11	Mixed Species	TPH > 375	3.57	1559.07	TRUE
19.3.00c.19.6.02	0.73	Shade Coffee	TPH > 200	162.16	12334.51	TRUE
19.3.00c.19.6.01	1.77	Shade Coffee	TPH > 200	211.85	8833.10	TRUE
19.2.029.19.4.02	0.49	Mixed Species	TPH > 375	4.03	519.69	TRUE
20.2.005.20.6.02	1.41	Shade Coffee	TPH > 200	165.21	7758.80	TRUE
18.3.050.19.6.02	0.82	Shade Coffee	TPH > 200	275.17	11737.68	TRUE
18.3.050.19.6.01	0.42	Shade Coffee	TPH > 200	109.38	7957.75	TRUE
19.2.067.19.3.01	12.80	Silvopastoral	TPH > 180	3.19	450.67	TRUE
19.2.092.19.6.01	2.31	Shade Coffee	TPH > 200	33.02	7218.81	TRUE
18.2.022.19.4.02	1.32	Mixed Species	TPH > 375	1.09	941.94	TRUE
19.2.083.19.6.01	2.16	Shade Coffee	TPH > 200	175.06	7529.25	TRUE
.19.4.12	3.53	Mixed Species	TPH > 375	0.28	887.80	TRUE
.19.4.06	4.02	Mixed Species	TPH > 375	3.22	925.05	TRUE
.19.3.10	34.85	Silvopastoral	TPH > 180	3.46	350.79	TRUE
19.2.08e.19.6.02	4.51	Shade Coffee	TPH > 200	95.25	10316.65	TRUE
.19..ce	2.37	Shade Coffee	TPH > 200	204.80	11425.05	TRUE
.19.3.08	21.37	Silvopastoral	TPH > 180	7.94	823.98	TRUE
16.3.001.19.6.01	0.51	Shade Coffee	TPH > 200	5.56	10742.96	TRUE
.16..24	2.74	Mixed Species	TPH > 375	2.70	1047.02	TRUE
19.3.065.19.6.01	2.77	Shade Coffee	TPH > 200	227.15	8519.47	TRUE
.19.3.04	3.04	Silvopastoral	TPH > 180	2.61	230.97	TRUE
.19..29	0.65	Shade Coffee	TPH > 200	267.60	13793.43	TRUE
19.5.005.19.3.01	5.04	Mixed Species	TPH > 375	5.14	1644.99	TRUE
.19..fc	2.09	Shade Coffee	TPH > 200	399.93	8753.52	TRUE
19.2.088.19.6.01	1.39	Shade Coffee	TPH > 200	148.37	7758.80	TRUE
19.2.006.19.4.01	2.06	Mixed Species	TPH > 375	5.14	627.96	TRUE
19.2.074.19.6.02	0.76	Shade Coffee	TPH > 200	292.00	9748.24	TRUE
19.3.038.19.6.03	2.11	Shade Coffee	TPH > 200	113.51	9916.58	TRUE
19.3.07e.19.6.01	2.20	Shade Coffee	TPH > 200	81.26	12854.82	TRUE
.18..14	1.49	Shade Coffee	TPH > 200	287.52	9991.39	TRUE

Farm ID	Area (Ha)	Tech Spec	Target	Basal Area (m ² /ha)	TPH	Target Met
.19..16	1.08	Shade Coffee	TPH > 200	209.27	8753.52	TRUE
.19..fa	5.41	Shade Coffee	TPH > 200	3.79	9104.60	TRUE
19.3.09f.19.6.02	0.60	Shade Coffee	TPH > 200	350.17	10875.59	TRUE
19.2.088.19.6.02	4.71	Shade Coffee	TPH > 200	190.47	8204.71	TRUE
19.2.093.19.6.02	0.59	Shade Coffee	TPH > 200	264.44	8223.01	TRUE
19.3.08c.19.6.01	1.35	Shade Coffee	TPH > 200	21.98	8256.16	TRUE
19.2.07f.19.4.01	0.63	Mixed Species	TPH > 375	2.54	1688.99	TRUE
20.2.005.20.6.01	1.24	Shade Coffee	TPH > 200	163.04	5684.11	TRUE
19.3.060.19.6.03	1.50	Shade Coffee	TPH > 200	133.04	12467.14	TRUE
19.3.060.19.6.01	1.91	Shade Coffee	TPH > 200	29.38	12370.68	TRUE
.18..d0	10.35	Silvopastoral	TPH > 180	7.51	974.42	TRUE
19.3.04e.19.6.01	1.37	Shade Coffee	TPH > 200	28.70	9151.41	TRUE
19.3.0a1.19.6.01	3.19	Shade Coffee	TPH > 200	191.10	6445.78	TRUE
19.3.060.19.6.04	1.12	Shade Coffee	TPH > 200	238.58	18833.33	TRUE
19.3.08e.19.6.03	2.15	Shade Coffee	TPH > 200	378.78	8508.67	TRUE
19.2.01b.19.4.01	1.41	Mixed Species	TPH > 375	1.93	909.46	TRUE
19.2.08e.19.6.01	2.76	Shade Coffee	TPH > 200	257.69	7068.35	TRUE
19.2.074.19.6.01	0.94	Shade Coffee	TPH > 200	66.46	10504.23	TRUE
19.2.08e.19.6.03	2.22	Shade Coffee	TPH > 200	245.13	7651.68	TRUE
19.2.06d.19.4.02	1.37	Mixed Species	TPH > 375	11.73	1015.02	TRUE
17.2.015.18.4.01	1.09	Mixed Species	TPH > 375	3.95	1169.30	TRUE
19.3.08b.19.6.01	2.02	Shade Coffee	TPH > 200	82.81	12865.02	TRUE
18.2.008.19.6.01	1.27	Shade Coffee	TPH > 200	49.17	10079.81	TRUE
.19.6.27	2.18	Shade Coffee	TPH > 200	60.21	10477.70	TRUE
18.2.024.19.4.01	3.04	Mixed Species	TPH > 375	6.03	567.56	TRUE
.19..6e	1.54	Shade Coffee	TPH > 200	55.26	12113.46	TRUE
18.2.0bd.18.4.01	3.44	Mixed Species	TPH > 375	4.97	773.04	TRUE
19.1.014.19.4.01	0.64	Mixed Species	TPH > 375	2.33	2122.07	TRUE
.18..19	2.47	Mixed Species	TPH > 375	2.84	844.50	TRUE
19.2.058.19.4.01	2.44	Mixed Species	TPH > 375	0.00	1039.38	TRUE
19.3.08e.19.6.02	4.87	Shade Coffee	TPH > 200	140.51	9522.77	TRUE

Farm ID	Area (Ha)	Tech Spec	Target	Basal Area (m ² /ha)	TPH	Target Met
.19.4.02	5.54	Mixed Species	TPH > 375	1.50	1293.81	TRUE
.19..32	3.66	Mixed Species	TPH > 375	4.94	2403.56	TRUE
16.2.1a7.19.4.01	1.24	Mixed Species	TPH > 375	0.06	1234.26	TRUE
.19..4a	2.42	Mixed Species	TPH > 375	6.87	2468.53	TRUE
.19.4.11	0.41	Mixed Species	TPH > 375	0.00	909.46	TRUE
19.1.007.19.4.02	1.25	Mixed Species	TPH > 375	1.56	593.93	TRUE
14.1.006.19.4.03	1.45	Mixed Species	TPH > 375	0.13	738.93	TRUE
19.1.016.19.4.01	1.28	Mixed Species	TPH > 375	0.46	788.81	TRUE
19.1.008.19.4.01	1.47	Mixed Species	TPH > 375	0.93	1104.34	TRUE
19.1.009.19.4.01	1.39	Mixed Species	TPH > 375	0.00	931.11	TRUE
19.1.003.19.4.01	1.49	Mixed Species	TPH > 375	3.84	1104.34	TRUE
.19..c3	2.02	Mixed Species	TPH > 375	2.16	1564.48	TRUE
19.1.011.19.4.01	1.68	Mixed Species	TPH > 375	0.15	1075.47	TRUE
19.1.001.19.4.01	1.49	Mixed Species	TPH > 375	0.06	1198.17	TRUE
.19..80	1.02	Mixed Species	TPH > 375	0.87	1180.13	TRUE
19.1.013.19.4.01	1.42	Mixed Species	TPH > 375	0.00	1201.78	TRUE
19.1.00a.19.4.01	2.54	Mixed Species	TPH > 375	2.36	1219.83	TRUE
.18..00	1.03	Mixed Species	TPH > 375	2.22	801.19	TRUE
.18..98	1.34	Mixed Species	TPH > 375	2.67	430.37	TRUE
19.1.015.19.4.01	1.55	Mixed Species	TPH > 375	1.01	1407.49	TRUE
18.2.0bc.18.4.01	1.06	Mixed Species	TPH > 375	1.16	1753.95	TRUE
16.2.1a9.19.4.01	2.39	Mixed Species	TPH > 375	3.07	1389.17	TRUE
19.2.06e.19.4.01	1.55	Mixed Species	TPH > 375	1.07	1342.53	TRUE
19.1.012.19.4.03	1.48	Mixed Species	TPH > 375	0.88	1190.96	TRUE
19.2.005.19.4.01	0.82	Mixed Species	TPH > 375	6.93	2159.96	TRUE
.18..80	2.42	Mixed Species	TPH > 375	3.31	1195.29	TRUE
19.5.004.19.4.01	1.48	Mixed Species	TPH > 375	4.78	1313.66	TRUE
.19..a5	9.84	Mixed Species	TPH > 375	6.60	708.33	TRUE
19.1.00f.19.4.01	2.70	Mixed Species	TPH > 375	5.12	1559.07	TRUE
19.2.047.19.4.01	1.99	Mixed Species	TPH > 375	1.42	1195.29	TRUE
19.2.039.19.4.01	2.25	Mixed Species		0.00	0.00	

Farm ID	Area (Ha)	Tech Spec	Target	Basal Area (m ² /ha)	TPH	Target Met
14.1.009.19.4.01	1.36	Mixed Species		0.00	0.00	
20.2.058.20.4.01	3.29	Mixed Species		0.00	0.00	
20.2.01d.20.3.01	12.25	Silvopastoral		0.00	0.00	
20.727.001.19.4.03	0.44	Mixed Species		0.00	0.00	
18.4.010.19.3.01	9.70	Silvopastoral		0.00	0.00	
19.4.003.19.4.02	2.32	Mixed Species		0.00	0.00	
19.2.06d.19.4.03	0.38	Mixed Species		0.00	0.00	
18.2.03d.19.3.02	34.75	Silvopastoral		0.00	0.00	
19.2.051.16..7f	1.99	Shade Coffee		0.00	0.00	
18.3.040.19.6.01	0.73	Shade Coffee		0.00	0.00	
17.2.02d.19.4.05	1.71	Mixed Species		0.00	0.00	
19.2.0c1.20.3.01	9.61	Silvopastoral		0.00	0.00	
19.3.09e.19.6.02	1.60	Shade Coffee		0.00	0.00	
19.2.073.19.4.01	7.38	Mixed Species		0.00	0.00	
20.2.041.20.4.01	3.53	Mixed Species		0.00	0.00	
.20.4.02	19.50	Mixed Species		0.00	0.00	
19.1.018.19.4.01	1.24	Mixed Species		0.00	0.00	
19.2.0c5.19.3.01	13.08	Silvopastoral		0.00	0.00	
19.1.00e.19.4.01	0.83	Mixed Species		0.00	0.00	
13.1.091.19.4.01	0.98	Mixed Species		0.00	0.00	

2019 Monitoring Results for 2010-2017 Plan Vivos

Farm ID	Area (Ha)	Tech Spec	Target	Basal Area (m ² /ha)	TPH	Target met
10.1.020.11.2.02	0.2	Living Fence (old)	TPH > 200	0.74	324.81	TRUE
10.1.020.11.2.01	0.8	Living Fence (old)	TPH > 200	1.06	426.89	TRUE
10.1.020.11.2.04	0.6	Living Fence (old)	TPH > 200	0.03	233.86	TRUE
10.1.020.11.2.03	0.1	Living Fence (old)	TPH > 200	1.42	389.77	TRUE
10.1.020.10.1.02	0.9	Mixed Species (old)	TPH > 375	0.78	498.04	TRUE
10.1.020.10.1.01	0.4	Mixed Species (old)	TPH > 375	2.33	692.92	TRUE
11.1.019.11.1.01	2.4	Mixed Species (old)	TPH > 375	2.12	683.64	TRUE
12.1.025.12.4.01	1.2	Mixed Species	TPH > 375	6.94	1250.50	TRUE
12.1.015.12.4.01	1.2	Mixed Species	TPH > 375	7.79	1739.52	TRUE
13.1.084.13.4.01	2.9	Mixed Species	TPH > 375	2.92	1066.73	TRUE
11.1.020.11.1.04	0.9	Mixed Species (old)	TPH > 375	7.04	831.50	TRUE
11.1.020.11.1.03	0.6	Mixed Species (old)	TPH > 375	5.02	736.23	TRUE
13.1.102.13.4.01	1.2	Mixed Species	TPH > 375	2.81	900.18	TRUE
12.1.005.12.4.01	3.7	Mixed Species	TPH > 375	3.58	968.85	TRUE
11.1.031.11.1.01	1.4	Mixed Species (old)	TPH > 375	1.59	431.11	TRUE
15.2.1bd.16.4.01	19.2	Mixed Species	TPH > 375	2.97	990.10	TRUE
11.1.052.11.1.02	2.7	Mixed Species (old)	TPH > 375	3.18	701.04	TRUE
11.1.052.11.1.03	0.9	Mixed Species (old)	TPH > 375	2.52	722.69	TRUE
12.1.044.13.5.03	0.3	Living Fence	TPH > 200	0.29	238.19	TRUE
12.1.044.13.5.01	0.9	Living Fence	TPH > 200	0.87	270.67	TRUE
12.1.044.13.4.01	0.4	Mixed Species	TPH > 375	5.36	1136.82	TRUE
12.1.044.13.5.02	0.1	Living Fence	TPH > 200	0.15	389.77	TRUE
12.1.044.12.4.01	1.2	Mixed Species	TPH > 375	4.28	1104.34	TRUE
13.1.072.13.4.01	1.0	Mixed Species	TPH > 375	2.23	920.28	TRUE
13.1.072.13.5.01	0.2	Living Fence	TPH > 200	0.76	129.92	FALSE
12.1.003.13.4.01	3.2	Mixed Species	TPH > 375	2.76	823.83	TRUE
12.1.003.12.4.01	4.4	Mixed Species	TPH > 375	4.93	569.18	TRUE

Farm ID	Area (Ha)	Tech Spec	Target	Basal Area (m ² /ha)	TPH	Target met
12.1.049.12.4.01	2.6	Mixed Species	TPH > 375	4.23	736.23	TRUE
12.1.049.13.5.02	0.3	Living Fence	TPH > 200	0.13	162.40	FALSE
12.1.049.13.5.01	0.3	Living Fence	TPH > 200	0.39	238.19	TRUE
12.1.049.13.5.03	0.4	Living Fence	TPH > 200	0.27	238.19	TRUE
12.1.028.13.5.03	0.3	Living Fence	TPH > 200	1.69	324.81	TRUE
12.1.028.13.5.05	0.2	Living Fence	TPH > 200	1.20	779.53	TRUE
12.1.028.13.4.01	0.4	Mixed Species	TPH > 375	5.41	812.02	TRUE
12.1.028.13.5.02	0.1	Living Fence	TPH > 200	0.59	389.77	TRUE
12.1.028.12.4.01	0.8	Mixed Species	TPH > 375	4.96	935.44	TRUE
12.1.028.13.5.01	0.1	Living Fence	TPH > 200	0.35	259.84	TRUE
12.1.028.13.5.04	0.2	Living Fence	TPH > 200	0.56	292.33	TRUE
11.1.002.11.1.01	1.1	Mixed Species (old)	TPH > 375	2.79	801.19	TRUE
11.1.044.11.1.02	0.9	Mixed Species (old)	TPH > 375	2.50	621.77	TRUE
11.1.044.11.1.03	0.9	Mixed Species (old)	TPH > 375	1.27	547.53	TRUE
11.1.044.11.1.01	0.5	Mixed Species (old)	TPH > 375	2.18	441.74	TRUE
11.1.003.11.1.01	0.5	Mixed Species (old)	TPH > 375	1.50	519.69	TRUE
11.1.003.11.2.02	0.3	Living Fence (old)	TPH > 200	13.27	216.54	TRUE
11.1.003.11.2.03	0.2	Living Fence (old)	TPH > 200	1.03	389.77	TRUE
11.1.003.11.2.01	1.1	Living Fence (old)	TPH > 200	1.10	375.33	TRUE
12.1.039.5.01	0.4	Living Fence	TPH > 200	0.04	238.19	TRUE
12.1.039.5.02	0.5	Living Fence	TPH > 200	0.07	246.85	TRUE
12.1.039.4.03	1.4	Mixed Species	TPH > 375	2.00	384.35	TRUE
13.1.121.13.4.01	3.9	Mixed Species	TPH > 375	3.85	1101.74	TRUE
12.1.033.13.4.01	3.5	Mixed Species	TPH > 375	4.24	735.24	TRUE
12.1.001.12.4.01	2.5	Mixed Species	TPH > 375	1.43	618.68	TRUE
11.1.023.11.1.02	0.5	Mixed Species (old)	TPH > 375	2.46	584.65	TRUE
11.1.023.11.1.01	0.5	Mixed Species (old)	TPH > 375	1.41	470.97	TRUE
11.1.051.11.1.01	0.8	Mixed Species (old)	TPH > 375	0.88	454.73	TRUE

Farm ID	Area (Ha)	Tech Spec	Target	Basal Area (m ² /ha)	TPH	Target met
12.1.028.12.4.02	7.6	Mixed Species	TPH > 375	2.80	492.84	TRUE
14.1.021.14.5.03	0.2	Living Fence	TPH > 200	0.13	259.84	TRUE
14.1.021.14.5.02	0.2	Living Fence	TPH > 200	0.26	292.33	TRUE
14.1.021.14.5.05	0.2	Living Fence	TPH > 200	0.04	194.88	FALSE
14.1.021.14.5.04	1.0	Living Fence	TPH > 200	0.33	332.93	TRUE
11.1.052.11.1.01	0.7	Mixed Species (old)	TPH > 375	4.15	1104.34	TRUE
11.1.052.12.4.01	1.3	Mixed Species	TPH > 375	4.00	1292.73	TRUE
11.1.054.11.1.01	1.1	Mixed Species (old)	TPH > 375	4.50	1195.29	TRUE
13.1.055.13.5.01	0.6	Living Fence	TPH > 200	1.82	470.97	TRUE
13.1.055.13.5.08	0.1	Living Fence	TPH > 200	0.77	389.77	TRUE
13.1.055.13.5.07	0.0	Living Fence	TPH > 200	0.03	389.77	TRUE
13.1.055.13.5.02	0.1	Living Fence	TPH > 200	0.41	324.81	TRUE
13.1.055.13.5.05	0.5	Living Fence	TPH > 200	1.95	438.49	TRUE
13.1.055.13.5.06	0.1	Living Fence	TPH > 200	1.81	552.17	TRUE
13.1.055.13.5.04	0.3	Living Fence	TPH > 200	0.37	227.36	TRUE
10.1.007.10.1.01	1.8	Mixed Species (old)	TPH > 375	10.20	484.26	TRUE
13.1.055.13.5.03	0.3	Living Fence	TPH > 200	0.24	162.40	FALSE
11.1.016.11.2.03	0.2	Living Fence (old)	TPH > 200	0.94	194.88	FALSE
11.1.016.11.1.01	0.8	Mixed Species (old)	TPH > 375	3.20	909.46	TRUE
11.1.016.11.2.01	1.0	Living Fence (old)	TPH > 200	0.63	251.72	TRUE
11.1.016.11.2.02	0.2	Living Fence (old)	TPH > 200	1.37	194.88	FALSE
11.1.039.11.1.01	1.9	Mixed Species (old)	TPH > 375	2.34	584.65	TRUE
11.1.038.11.2.01	1.6	Living Fence (old)	TPH > 200	0.75	304.82	TRUE
11.1.038.13.4.01	2.0	Mixed Species	TPH > 375	4.70	1190.96	TRUE
11.1.038.11.2.02	0.2	Living Fence (old)	TPH > 200	0.24	243.60	TRUE
17.2.0d2.18.4.01	3.5	Mixed Species	TPH > 375	1.44	938.98	TRUE
14.1.004.14.5.02	0.3	Living Fence	TPH > 200	0.00	238.19	TRUE
14.1.004.14.5.03	1.1	Living Fence	TPH > 200	0.36	252.63	TRUE

Farm ID	Area (Ha)	Tech Spec	Target	Basal Area (m ² /ha)	TPH	Target met
14.1.004.14.5.01	0.3	Living Fence	TPH > 200	0.00	259.84	TRUE
13.1.026.13.4.01	1.5	Mixed Species	TPH > 375	2.29	945.55	TRUE
16.2.cf3.16.4.14	14.7	Mixed Species	TPH > 375	4.91	1148.04	TRUE
14.2.001.14.4.03	5.5	Mixed Species	TPH > 375	2.53	1102.48	TRUE
16.2.b25.16.4.a7	9.0	Mixed Species	TPH > 375	2.89	976.70	TRUE
16.2.5b1.16.4.02	10.8	Mixed Species	TPH > 375	3.22	1105.28	TRUE
16.2.1eb.16.4.44	4.2	Mixed Species	TPH > 375	4.58	1476.62	TRUE
14.2.006.15.4.01	4.1	Mixed Species	TPH > 375	3.92	866.98	TRUE
16.2.4ec.16.4.19	6.4	Mixed Species	TPH > 375	3.35	730.42	TRUE
16.2.4ec.15.4.37	13.1	Mixed Species	TPH > 375	5.26	581.32	TRUE
16.2.4ec.16.4.9d	12.5	Mixed Species	TPH > 375	2.31	665.85	TRUE
14.2.014.14.3.01	7.8	Silvopastoral	TPH > 180	5.39	397.41	TRUE
10.1.010.17.4.01	0.6	Mixed Species	TPH > 375	0.55	952.76	TRUE
14.2.008.14.4.01	2.0	Mixed Species	TPH > 375	2.90	512.47	TRUE
11.1.052.17.4.01	5.1	Mixed Species	TPH > 375	0.89	1059.68	TRUE
14.2.015.14.4.01	5.0	Mixed Species	TPH > 375	1.39	948.03	TRUE
17.1.017.17.4.01	1.6	Mixed Species	TPH > 375	14.00	1284.79	TRUE
11.1.001.17.4.01	1.2	Mixed Species	TPH > 375	0.33	844.50	TRUE
14.2.010.14.4.03	1.0	Mixed Species	TPH > 375	1.97	920.28	TRUE
14.2.007.14.4.01	14.5	Mixed Species	TPH > 375	3.14	1128.27	TRUE
14.2.010.14.4.02	0.9	Mixed Species	TPH > 375	6.74	1548.24	TRUE
14.2.001.14.4.02	3.2	Mixed Species	TPH > 375	2.65	1224.52	TRUE
14.2.023.14.3.03	23.1	Silvopastoral	TPH > 180	3.52	384.43	TRUE



About Taking Root:

Taking Root is an award winning reforestation not for profit on a mission to tackle climate change and poverty. They work with farming families in Latin America to grow forests on previously under used land. Taking Root's unique impact comes from its belief that for reforestation to be a successful solution to tackle climate change, trees have to benefit and be valuable to local communities. Taking Root's Communitree programme is built around putting the needs of the farmers it works with first, helping them grow native tree species to create sustainable livelihoods from forest-based enterprises. Taking Root's forests are creating financial resilience for over 1,000 farming families traditionally earning only \$2 a day, regenerating biodiverse habitats an area the size equivalent to over 5,000 football fields and storing over 890,000 tonnes of CO2.

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