



Plan Vivo Annual Report 2014



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1. Summary

Reporting period		January 2014 – December 2014
Technical specifications in use		Forest plantations
Area under management (ha)	New areas put under management since last report (ha)	195.75 hectares
Smallholders with <i>plan vivos</i> and PES agreements (total for project)	New smallholders with PES agreements since last report	152 families
Community groups with <i>plan vivos</i> and PES agreements (total)	New groups with PES agreements since last report	152 families belonging to 50 different communities
PES made to communities to date (\$)		88,719 USD (payments) 37,195 USD + (materials) 125,914 USD
Plan Vivo Certificates issued to date		13,415 tCO ₂ e 21,351 tCO ₂ e + 34,766 tCO ₂ e*
Submission for Certificate Issuance for new areas under management (tCO₂)		No new Plan Vivo certificate issuance is requested for these new areas at this time.

* A further 20% of ex-ante credits is held by the project until biomass measurements in the permanent sample plots demonstrate the carbon benefit estimated at the start of the project is being delivered.



2. Key Events, Developments and Challenges

2.1. Maintenance of Plan Vivo Plantations

As stated in the PDD, the ArBolivia project started in 2007 as a portfolio of small-scale reforestation activities within the Clean Development Mechanism of the UNFCCC. However due to a change of policy as well as low carbon prices on the CDM-market, ArBolivia changed its focus regarding environmental services from a market-based approach to an approach based on the principle of reciprocity.

Farmer families are not subject to market and price changes, neither are they merely recipients of external aid. They are instead vital partners of the project. This particular role requires farmers and communities to embrace fully the co-operative concept of the project communities in order to establish and maintain an active relationship. This relationship is formalised under a signed agreement between each farmer family and the project.

The interventions summarised in this report were implemented between 2008 and 2011 in the municipalities of San Buenaventura, Rurrenabaque and San Borja, which is part of the so called “Rurrenabaque Area” (see map), as well as the municipality of Puerto Villarroel in the Cochabamba Tropics.

Figure 2.1: Location of the “Rurrenabaque” area

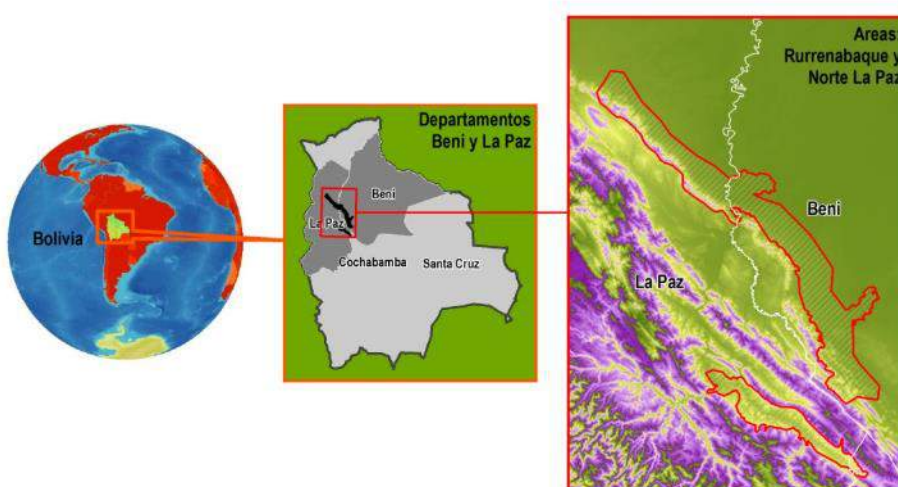
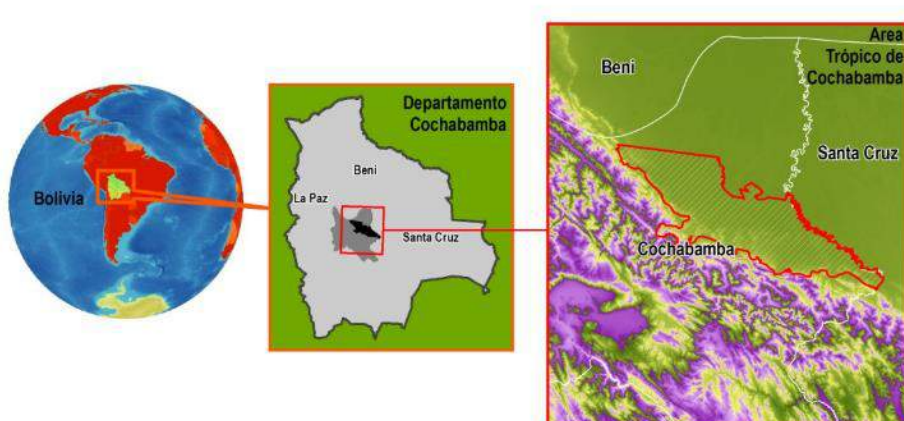




Figure 2.2: Location of the Cochabamba Tropics area



2.2 Developments and Challenges

- Project monitoring for tree growth, environmental and biodiversity impact evaluation and socio-economic impact evaluation have been on-going.
- Training on “thinning” activities started and an inventory of parcels to be thinned has been drawn up.
- Progress has been made with the National Forestry Authority progress on the registration of plantations. This formal registration provides a higher degree of security in respect of permanence as well as acting as a licence to sell timber products from the plantations.
- A micro-financing program was started with the MFI IDEPRO, which has since been and continued with the Banco de Union. Loans are provided to the participating farmers for activities based on their Integrated Farm Plan, using the value of the trees as collateral. The loans are provided in order to enhance food and income security by improving agricultural practices through the introduction of organic cropping with higher biomass values.
- A training program on forest fire prevention was conducted with the municipality of Rurrenabaque.



3. Activities, total project size and participation

3.1. Maintained surface

No new plantations were certified under the Plan Vivo standard in this reporting period. Existing plantations were maintained and silvicultural management was applied as shown in the table below. In addition to the 0.8 reported as lost in the previous report a further 2.25 ha has been lost at the beginning of 2015, bringing total losses to 3.05 hectares and the total active hectares to 192.9. These 2.25 hectares are due to be replanted in 2015.

Table 3.1: Surface maintained per community under the Plan Vivo Standard (since the 2013 annual report)

Department	Municipality	Community	Surface Maintained (ha)	Farmer families with agreement
Cochabamba	Puerto Villarroel	9 de Agosto	2,5	1
Cochabamba	Puerto Villarroel	Agro Sacta	1,5	1
Cochabamba	Puerto Villarroel	Alianza	3,9	1
Cochabamba	Puerto Villarroel	Gualberto Villarroel	3,6	2
Cochabamba	Puerto Villarroel	Valle Hermoso	24,4	10
Cochabamba	Puerto Villarroel	Villa Verde	5,6	3
Beni	Reyes	Propiedad privada	4	2
Beni	Reyes	San Jose	2	2
Beni	Rurrenabaque	Carmen Soledad	0,5	1
Beni	Rurrenabaque	Collana	6	5
Beni	Rurrenabaque	Colorado Bajo Nucleo 34	0,5	1
Beni	Rurrenabaque	Com. Villa Jichani	1	1
Beni	Rurrenabaque	El Bala	1	1
Beni	Rurrenabaque	El Cebu	2	2
Beni	Rurrenabaque	Los Tigres	1,5	2
Beni	Rurrenabaque	Nueva Esperanza	3,5	4
Beni	Rurrenabaque	Nuevos Horizontes	2	2
Beni	Rurrenabaque	Propiedad privada	9	9
Beni	Rurrenabaque	San Bernardo	1,5	1
Beni	Rurrenabaque	San Miguel	0,9	1
Beni	Rurrenabaque	Ticala Linares	1,5	2
Beni	Rurrenabaque	Uncallamaya	0,5	1
Beni	Rurrenabaque	Villa El Carmen	0,5	1
Beni	San Borja	Borjanita	2	2
Beni	San Borja	El Palmar	1,3	1
Beni	San Borja	Embocada	0,5	1
Beni	San Borja	Inca Suyu	2	3
Beni	San Borja	Marca Coroico	0,5	1
Beni	San Borja	Propiedad privada	2	1
Beni	San Borja	San Juan	1,5	2
Beni	San Borja	Villa Borjana	2	2
Beni	San Borja	Villa Imperial	8,4	7
Beni	San Borja	Yacumita	5,9	5
La Paz	San Buenaventura	25 de Mayo	7,8	8
La Paz	San Buenaventura	Bella Altura	2,5	2
La Paz	San Buenaventura	Buena Vista	3,5	3
La Paz	San Buenaventura	Capaina	2	2
La Paz	San Buenaventura	Cinteño	1,7	2
La Paz	San Buenaventura	Colorado Bajo Nucleo 34	1,7	2
La Paz	San Buenaventura	Esmeralda 1	0,8	1
La Paz	San Buenaventura	Everest	1,4	2
La Paz	San Buenaventura	Hurehaupo	10,2	8
La Paz	San Buenaventura	La Esmeralda	0,75	1
La Paz	San Buenaventura	Mayge	5	1
La Paz	San Buenaventura	Nuevo Palestina	3,6	2
La Paz	San Buenaventura	Propiedad privada	15,1	8
La Paz	San Buenaventura	San Isidro	6	4
La Paz	San Buenaventura	San Silvestre	5,6	5
La Paz	San Buenaventura	Santa Ana	9,2	6
La Paz	San Buenaventura	Tumupasa	10,55	9
Total			192,9	147



3.2. Mortality and new carbon projections

In the previous report the failure of 0,8 hectares was reported. Early in 2014 another 2,25 ha were lost due to extreme floods. 5 of the 6 farmers lost all their plantations previously established under Plan Vivo, reducing the number of farmers with plantations to 147. 4 farmers. These will continue to receive support from ArBolivia and the 2,25 has will be replanted in 2015.

Table 3.2: Total accumulated Surface failed under the Plan Vivo Standard

Department	Municipality	Community	Failed surface (ha)	Farmer families with agreements	Remark
Beni	Rurrenabaque	El Bala	0,5	1	
Beni	San Borja	El Palmar	0,7	1	
Beni	San Borja	Villa Imperial	0,95	1	0,5 has reported 2013
Beni	San Borja	Yacumita	0,1	1	
La Paz	San Buenaventura	Colorado	0,3	1	Reported in 2013
La Paz	San Buenaventura	Tumupasa	0,5	1	
Total			3,05	6	

3.3 Tree species planted and maintained per strata (surface in Ha)

Specie	Common name	Strata				Total surface (ha)
		Annual	Grassland	Grass w/trees	Perennial	
Buchenavia oxycarpa	Verdolago negro (pepa)	1,1			1,0	2,1
Calophyllum brasiliense	Palo María	6,4	0,6	1,0	1,3	9,3
Cedrela fissilis	Cedro	0,1				0,1
Centrolobium tomentosum	Tejeveque	13,8			15,2	29,1
Dipteryx odorata	Almendrillo	18,9			15,3	34,1
Guarea rusby	Trompillo de altura	1,6			7,0	8,6
Hymenaea courbaril	Paquio	0,9				0,9
Schizolobium amazonicum	Serebo	0,5				0,5
Stryphnodendron purpureum	Palo yugo	6,9	0,4	-	1,8	9,2
Swietenia macrophylla	Mara	0,04				0,04
Tapirira guianensis	Palo román	9,5		0,1	0,8	10,3
Tectona grandis	Teca	72,2			4,2	76,4
Terminalia amazonica	Verdolago negro (de ala)	3,3		0,8	2,1	6,1
Terminalia oblonga	Verdolago amarillo de ala	4,1		-	1,0	5,1
Virola flexuosa	Gabún	0,5	-	0,5	0,3	1,2
Total		139,7	1,0	2,3	50,0	192,9



Table 3.4: Tree species planted and average carbon stocks

Specie	Common name	Net average GHG removal (CO ₂ e/ha) over crediting period per Baseline				Total surface (ha)
		Annual	Grassland	Grass w/trees	Perennial	
Buchenavia oxycarpa	Verdolago negro (pepa)	256	-	-	232	488
Calophyllum brasiliense	Palo María	1.355	128	215	285	1.982
Centrolobium tomentosum	Tejeyequé	3.171	-	-	3.480	6.651
Dipteryx odorata	Almendrillo	5.202	-	-	4.201	9.403
Guarea rusby	Trompillo de altura	456	-	-	1.975	2.431
Hymenaea courbaril	Paquio	211				211
Schizolobium amazonicum	Serebo	124	-	-	-	124
Stryphnodendron purpureum	Palo yugo	1.820	105	-	476	2.400
Tapirira guianensis	Palo román	2.850	-	15	241	3.106
Tectona grandis	Teca	17.914	-	-	1.041	18.955
Terminalia amazonica	Verdolago negro (de ala)	901	-	209	569	1.679
Terminalia oblonga	Verdolago amarillo de ala	931	-	-	226	1.157
Virola flexuosa	Gabún	97	-	91	60	248
Total		35.286	233	530	12.786	48.835

As stated in the PDD, the buffer is 10% in accordance with Plan Vivo requirements. This buffer is meant to cover events of 'force majeure' in which projects are unable to cover a shortfall of carbon credits. However, ArBolívia is currently withholding a voluntary 20% until the biomass measurements in the permanent sample plots is able to demonstrate that the actual amounts of carbon stocks are indeed as estimated. As such, the voluntary risk buffer will cover any potential shortfall of carbon credits resulting from failed plots.

34,766 tCO₂e have so far been issued. 9,920 tCO₂e have been set aside by the project as the voluntary risk buffer and 4,960 tCO₂e went into the Plan Vivo risk buffer. Due to failed plots, the voluntary risk buffer will be reduced by 830 tCO₂e, leaving 9,090 tCO₂e.

Once an accredited verifier has verified the biomass measurements, the remaining certificates from the retained 20% amount may then be released for sale, leaving the remaining 10% buffer intact as required.

Plan Vivo credits are transferred by the implementing agency Sicirec Bolivia Ltda to the IPS Cochabamba Project Ltd.

Table 3.5: Project CO₂ sales and allocations for this replanvivoorting period

Total volume of CO ₂ forward sold (tCO ₂)	Total Sale Price (\$) ¹	Total number of producers/producer groups allocated to buyers	Total area (ha)	Technical specification applied	Price to producer/group (\$/tCO ₂) ²	% of Sale Price that will reach communities as PES*
34,766	Transferred	152 - 5 =147	192,9	Forest	N/A (see	N/A (see

¹ Pricing information will be removed before the report is made publicly available

² This information is used to assess whether the project benefit sharing structure is as laid out in the PDD. Please add an additional column to this table if there are additional payments to the community e.g. community trust fund.



	to Cochabamba project, for further information see section 4			Plantations	section 6)	section 6)
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* Please see for information on payments to farmers, section 6



4. Transfer of Plan Vivo Certificates

The implementing agency Sicirec Bolivia Ltda has transferred all Plan Vivo credits to the Cochabamba Project Ltd. In keeping with ArBolivia's philosophy of reciprocity, farmers are not subsequently subjected to the volatility of the voluntary carbon market and the IPS Cochabamba Project Ltda commits to funding all project activities, based on the real costs of implementing and maintaining the woodlots.

From a total of 34,766 tCO₂e for sale the IPS Cochabamba Project Ltd had to date transferred a total of 23,722 tCO₂e to other parties, as at 31st December 2013 as shown in table 4.1 below.

Table 4.1: Plan Vivo certificates transferred to third parties

Vintage	Name of purchaser/Source of Funds	Number of Plan Vivo Certificates purchased	Price per certificate	Total Amount Received (US\$)
2010	ForestFinance	10.034		
2010	Clearway Sustainability Resources Ltd	100		
2010	COzero Pty Ltd	100		
2010	Sydney Convention & Exhibition Centre	100		
2010	ZeroMission AB	2.463		
2010	ZeroMission AB	525		
2010	ZeroMission AB	93		
2011	ZeroMission AB	93		
2011	ZeroMission AB	2.604		
2011	ZeroMission AB	2.303		
2011	ZeroMission AB	307		
2011	Retired - Lifegate	5.000		
2011	Brotherton	85		
	Subtotal	23.807		
2011	Unsold Stock	10,959		
	Total	34,766		

During the course of 2014 the society sold a further 5,488 certificates, giving a grand total to 31st December of 29,210 tonnes and leaving a total of 5,471 issued certificates unsold.

Vintage	Name of purchaser/Source of Funds	Number of Plan Vivo Certificates purchased	Price per certificate	Total Amount Received (US\$)
2011	ZeroMission AB	500		
2011	ZeroMission AB	2363		
2011	ZeroMission AB	500		
2011	ZeroMission AB	1287		
2011	Ecology Building Soc.	838		
	Subtotal	5,488		
2011	Unsold Stock	5,471		
	Total	5,471		





5. Monitoring Results

Farmers received several visits before and after planting and during the maintenance of the trees.

All farmers receive instructions on how to plant and receive specific recommendations based on their particular site conditions, site-preparation (in case of establishment) and the quality of the plantation.

Within the first two years, six evaluation visits are carried out. Thereafter, this is reduced to one site visit per year. In some cases, the number of evaluation visits planned during the first two years has had to be deferred because of delays by farmers in proceeding with certain recommendations. In such cases maintenance payments are also deferred, Training is also provided to farmers before evaluation visits are carried out. These trainings are delivered to individuals, as well as groups.

The visits are carried out according to the following scheme:

1. During the establishment process, a number of recommendations are made. Compliance with these recommendations is checked 1 to 3 weeks afterwards. Although coordinates are measured by GPS at the planning and site selection stage, the final planted area is then re-measured, giving the exact coordinates (UTM WGS84) and surface of each sector. Once introduced into the database, a unique sector code is assigned (Annex 1a). If any corrective work is required, there are further technical checks before payment is processed to farmers based on the surface area as measured and recorded.
2. Once trees are established, site visits take place, on-site training on maintenance of plantations is given, and after about 3 months a second evaluation takes place. Farmers will receive recommendations on how to carry out the maintenance if they have not yet done so on their own initiative or if they have not done so according to the general instructions given to all farmers.
3. In the first year after planting, two evaluation visits are carried out (3 and 4 in table 5.1), with the same purpose as the visits mentioned above. During the second year, plots are monitored twice (5 and 6 in table 5.1). Payments are made once a year following a successful evaluation.

A summary of the different types of recommendations and the corresponding surface areas is shown in table 5.1. Detailed recommendations can be found in Annex 3.

All the recommendations made were subsequently implemented (albeit not always within the suggested time frame. Delays in responding to corrective action, or in the case of indefinitely deferring activities, have meant that sometimes only 4 payments were made during the initial two-year period.

- Pest control: Some pests, mainly ants, might attack the plantations and there is a need to apply biological pesticides. These products were either provided by ArBolivia or training was given on how to produce biological pesticides.
- Cover crop: Due to soil conditions, farmers are advised to plant to a leguminous cover crop, in which case appropriate seeds is provided by ArBolivia.
- Weeding: This is necessary in order to avoid excessive competition between weeds and trees.
- Replanting: This is recommended in all cases whenever mortality exceeds 20%, ArBolivia provides the plants and the farmer carries out the planting.
- Pruning required: Branches and shoots.
- Protection against cattle: In cases where no fencing or insufficient fencing was in place before tree establishment or where the land use has changed (for example where one of the neighbours has



decided to begin raising cattle) new fencing is necessary. ArBolivia provides a quantity of barbed wire, whilst the farmer provides the poles and any additional barbed wire as required.

- Fertilization: Organic fertilizers are used as required.
- Fire control measures: Wherever an elevated risk of forest fire has been identified, extra measures have been taken such as incorporating firebreaks, clearing the area of undergrowth and establishing cover crops.
- No recommendation: No specific recommendations were necessary.
- This year recommendations and scheduling of thinning activities is also included for the first time.

Table 5.1: Main recommendations during evaluation visits: First year 3 evaluations, second year 2 evaluations and afterwards 1 visit unless due to additional requirements more visits are necessary.

Type of Recommendation	Main recommendations per hectare per evaluation visit										Total
	1	2	3	4	5	6	7	8	9	10	
Cover crop (establish & manage)	20,3	13,2	25,2	13,0	13,0	14,5	5,5	2,0		0,5	107,2
Fertilization	0,5	1,5	1,5	3,0	2,5		1,8				10,8
Fire control measures				0,7	1,0	1,4	0,6				3,7
No recommendation	32,7	34,0	9,5	7,1	9,9	8,7	11,7	11,7		0,4	125,6
Pest control	7,3	23,5	30,8	23,8	22,7	16,1	5,7	2,5	1,0		133,2
Protection against cattle	18,3	6,5	4,8	1,5		0,5	0,5	1,5	1,4	0,4	35,4
Pruning required	0,5	7,2	21,9	30,8	44,5	50,0	71,4	55,3	26,8	9,0	317,2
Replanting (partially)	18,4	18,0	14,6	9,1	6,9	1,5	0,7				69,2
Thinning required							0,5	1,4	1,5	1,0	4,4
Various	0,9	0,9		1,0	9,4	6,5	5,5	0,5			24,7
Weeding	96,4	90,4	86,9	105,3	85,4	93,8	78,3	79,8	33,7	14,5	764,4
Total	195,2	195,2	195,2	195,2	195,2	192,9	182,2	154,6	64,4	25,8	1.595,6

This data is checked for quality and verified in the field for consistency, as described in the monitoring protocol.



6. PES update

In accordance with the PDD, the contract signed between the farmers and the project stipulates that the farmers will transfer their rights regarding the sale of carbon-credits to Sicirec Bolivia Ltda. Sicirec transfers these rights to the investors in the project, The IPS-Cochabamba Project Ltd. The Cochabamba Project Ltd in turn guarantees that the revenues it obtains for the carbon-credits will be transferred to the farmers as part of the total investment capital of the project. More specifically, carbon revenues will be used to make staged payments to the farmers for the establishment and maintenance of plantations. In addition, the farmers receive in-kind benefits, for example in the form of barbed wire and agroforestry plants and seed for cover crops. These payments are made periodically according to the fulfilment of specific monitoring targets rather than as and when certificates are sold.

In accordance with the provisions established in the PDD, the project manager (SICIREC Bolivia Ltda) is obliged to cover the deficit if payments cannot be covered by the sale of carbon credits. The Cochabamba Project Ltd has guaranteed to cover any such deficit as part of its overall investment commitment.

The participating farmers received the payments shown in table 6.1

Table 6.1: Payments to farmers

N_Verif	Moment of Payment	Number of farmers	Surface (ha)	Total Amount (BOB)	Total Ammount USD (Aprox)
V01_ESTB	Establishment	152	196	123.705	16.391
V02_M1	Maintenance 1 (after aprox. 3 months)	152	196	59.934	8.618
V03_M2	Maintenance 2 (after aprox. 6 months)	152	196	65.480	9.393
V04_M3	Maintenance 3 (after aprox. 10 months)	152	195	68.555	9.937
V05_M4	Maintenance 4 (after aprox. 14 months)	151	195	68.574	9.774
V06_M5	Maintenance 5 (after aprox. 20 months)	149	195	68.377	9.982
V07_M6	Maintenance 6 (after aprox. 26 months)	141	184	69.642	10.167
V08_M7	Maintenance 7 (after aprox. 38 months)	119	155	61.970	9.047
V09_M8	Maintenance 8 (after aprox. 50 months)	60	64	26.379	3.851
V10_M9	Maintenance 9 (after aprox. 60 months)	21	26	10.686	1.560
Total		1.249,00	1601	623.302	88.719

**includes tax according Bolivian tax-regulations*

Cash payments amounting to the equivalent of 88,719 USD have been made to farmers during the reporting period.

In addition, farmers have received citrus and cacao plants to the value of 13,450 USD and also seed for leguminous species of cover crops for the purposed of soil improvement to the value of 500 USD.

144 farmers received a total of 407 rolls of barbed wire with a value of 23.245 USD. Farmers receive barbed wire when there is a need to protect the young plantations against invasion by cattle.

Total direct payments and input additional to plantations costs is therefore **125,914 USD**.



*This compares with revenues received by The Cochabamba Project from the sale of PV certificates of only **£53,919.***



7. Ongoing Community Participation

The project has a high presence in the area and works closely with the farmers, partly through individual visits to the farmers but also through coordination with the farmer federation and the organisation of indigenous people. In order to implement project activities it is mandatory to consult and have agreements in place with Community and/or local organizations, depending on the authority of the organisation and the scope of the issues concerned. Therefore, formal agreements with the farmer organisations FESPAI and FECAR have been established. The informal co-operation with the Council of Indigenous Tacana People (CIPTA) was formalized in 2013 into a formal agreement.

In Puerto Villarroel, ArBolivia also coordinates activities with the farmer federations FEPAY and the FECCT.

With the authorisation and help of the farmer federations and the Council of Indigenous Tacana People, 9 forestry committees are currently operating in the Plan Vivo areas. The forestry committees, as well as the communities, play an active role in decision-, strategy-, and policymaking. In table 7.1 below, the Forestry committees are shown for each community. In the Cochabamba region it is the communities and the federation rather than specific forestry committees, who are involved in decision-, strategy-, and policymaking.

These committees are organised according to their documented internal rules and procedures, which were originally approved at a meeting attended by all the farmers. All committees have a board of 4 members of which 2 represent ArBolivia and 2 represent the communities. Board meetings take place at least every 2 months and here the members representing ArBolivia give an update of the situation on completed and planned activities and quality of the plantations. If there are any problems raised regarding ArBolivia's failure in its commitment to the farmer, these are discussed at this meeting. Similarly, if there are farmers and fieldworkers who have had an unresolved conflict in the field, a solution is sought by the committee. If necessary, a visit to the farm by one of the farmer members of the board and the field worker is arranged. In the general, board members representing the farmers inform the farmers about the results of the activities, measures taken and measures which should be taken, as well as all the strategies and activities programmed over the period until the next meeting. Once a year, ArBolivia presents both a financial and a technical report to each of the forestry committees.

In June 2014, all board members of the committees in the departments Beni and La Paz. One of the decisions of the meeting was to promote the project to the national authorities. In September a delegation of Sicirec Bolivia and the farmers had a meeting with the minister of Rural Development and the National Forestry Direction, resulting in the intention of the ministry to work more closely on the Climate Change program of the government and to use the results of the project to guide government programmes and also the national strategy on climate change.



Table 7.1: Community, farmer organisation and Forestry Committees

Department	Municipality	Community	Organisation	Forestry Committee	Surface (ha)	Farmer families with agreement
Beni	Reyes	Propiedad privada		Tamarindo	4,0	2
Beni	Reyes	San Jose	FECAR	Tamarindo	2,0	2
Beni	Rurrenabaque	CARMEN SOLEDAD		Almendrillo	0,5	1
Beni	Rurrenabaque	COLLANA	FECAR	Las Tecas	6,0	5
Beni	Rurrenabaque	Colorado Bajo Nucleo 35		Las Tecas	0,5	1
Beni	Rurrenabaque	Com. Villa Jichani		Las Tecas	1,0	1
Beni	Rurrenabaque	El Bala		Las Tecas	1,5	2
Beni	Rurrenabaque	EL CEBU	FECAR	12 de Junio	2,0	2
Beni	Rurrenabaque	LOS TIGRES	FECAR	12 de Junio	1,5	2
Beni	Rurrenabaque	NUEVA ESPERANZA	FECAR	12 de Junio	3,5	4
Beni	Rurrenabaque	NUEVOS HORIZONTES	FECAR	12 de Junio	2,0	2
Beni	Rurrenabaque	Propiedad privada		12 de Junio	3,5	3
Beni	Rurrenabaque	Propiedad privada		Almendrillo	5,1	5
Beni	Rurrenabaque	Propiedad privada		otro	0,4	1
Beni	Rurrenabaque	SAN BERNARDO	FECAR	Las Tecas	1,5	1
Beni	Rurrenabaque	SAN MIGUEL	FECAR	Ambiente Sano	0,9	1
Beni	Rurrenabaque	TICALA LINARES	FECAR	Las Tecas	1,5	2
Beni	Rurrenabaque	UNCALLAMAYA	FECAR	Las Tecas	0,5	1
Beni	Rurrenabaque	VILLA EL CARMEN	FECAR	12 de Junio	0,5	1
Beni	San Borja	Borjanita		Ambiente Sano	2,0	2
Beni	San Borja	EL PALMAR	FEPAY	Ambiente Sano	2,0	2
Beni	San Borja	Embocada		otro	0,5	1
Beni	San Borja	Inca Suyo	FEPAY	Ambiente Sano	2,0	3
Beni	San Borja	Marca Coroico	FEPAY	Ambiente Sano	0,5	1
Beni	San Borja	Propiedad privada		Ambiente Sano	2,0	1
Beni	San Borja	San Juan	FEPAY	Ambiente Sano	1,5	2
Beni	San Borja	VILLA BORJANA		Ambiente Sano	2,0	2
Beni	San Borja	VILLA IMPERIAL	FEPAY	Ambiente Sano	8,9	8
Beni	San Borja	YACUMITA	FEPAY	Ambiente Sano	6,0	6
COCHABAMBA	Puerto Villarroel	9 de Agosto	FECCT	otro	2,5	1
COCHABAMBA	Puerto Villarroel	Agro Sacta	FECCT	otro	1,5	1
COCHABAMBA	Puerto Villarroel	Alianza	FECCT	otro	3,9	1
COCHABAMBA	Puerto Villarroel	Gualberto Villarroel	FECCT	otro	3,6	2
COCHABAMBA	Puerto Villarroel	VALLE HERMOSO	FECCT	otro	24,4	10
COCHABAMBA	Puerto Villarroel	Villa Verde	FECCT	otro	5,6	3
LA PAZ	25 DE MAYO	25 DE MAYO	FESPAI	Gabun	7,8	8
LA PAZ	BELLA ALTURA	BELLA ALTURA	CIPTA	Tacana	2,5	2
LA PAZ	BUENA VISTA	BUENA VISTA	CIPTA	Tacana	3,5	3
LA PAZ	CAPAINA	CAPAINA	CIPTA	Tacana	2,0	2
LA PAZ	CINTEÑO	CINTEÑO	FESPAI	Madidi	1,7	2
LA PAZ	COLORADO	COLORADO	FESPAI	Madidi	1,7	2
LA PAZ	ESMERALDA 1	ESMERALDA 2	FESPAI	Gabun	0,8	1
LA PAZ	Everest	Everest	FESPAI	Gabun	1,4	2
LA PAZ	HUREHUPO	HUREHUPO	FESPAI	Madidi	10,2	8
LA PAZ	LA ESMERALDA	LA ESMERALDA	FESPAI	Gabun	0,8	1
LA PAZ	MAYGE	MAYGE	FESPAI	Gabun	5,0	1
LA PAZ	NUEVA PALESTINA	NUEVA PALESTINA	FESPAI	Gabun	3,6	2
LA PAZ	Propiedad privada	Propiedad privada		Gabun	10,5	5
LA PAZ	Propiedad privada	Propiedad privada		Madidi	3,0	2
LA PAZ	Propiedad privada Tumupasa	Propiedad privada	CIPTA	Mara	1,6	1
LA PAZ	SAN ISIDRO	SAN ISIDRO	FESPAI	Gabun	6,0	4
LA PAZ	SAN SILVESTRE	SAN SILVESTRE	CIPTA	Mara	5,6	5
LA PAZ	SANTA ANA	SANTA ANA	FESPAI	Gabun	9,2	6
LA PAZ	TUMUPASA	TUMUPASA	CIPTA	Mara	11,1	10
9 Total					195,2	152



8. Breakdown of Operational Costs

The Plan Vivo parcels are part of the wider ArBolivia project. A cost estimation was made for the 195,2 ha based on the total expenses of the project. In Table 8.1 a cost specification is given.

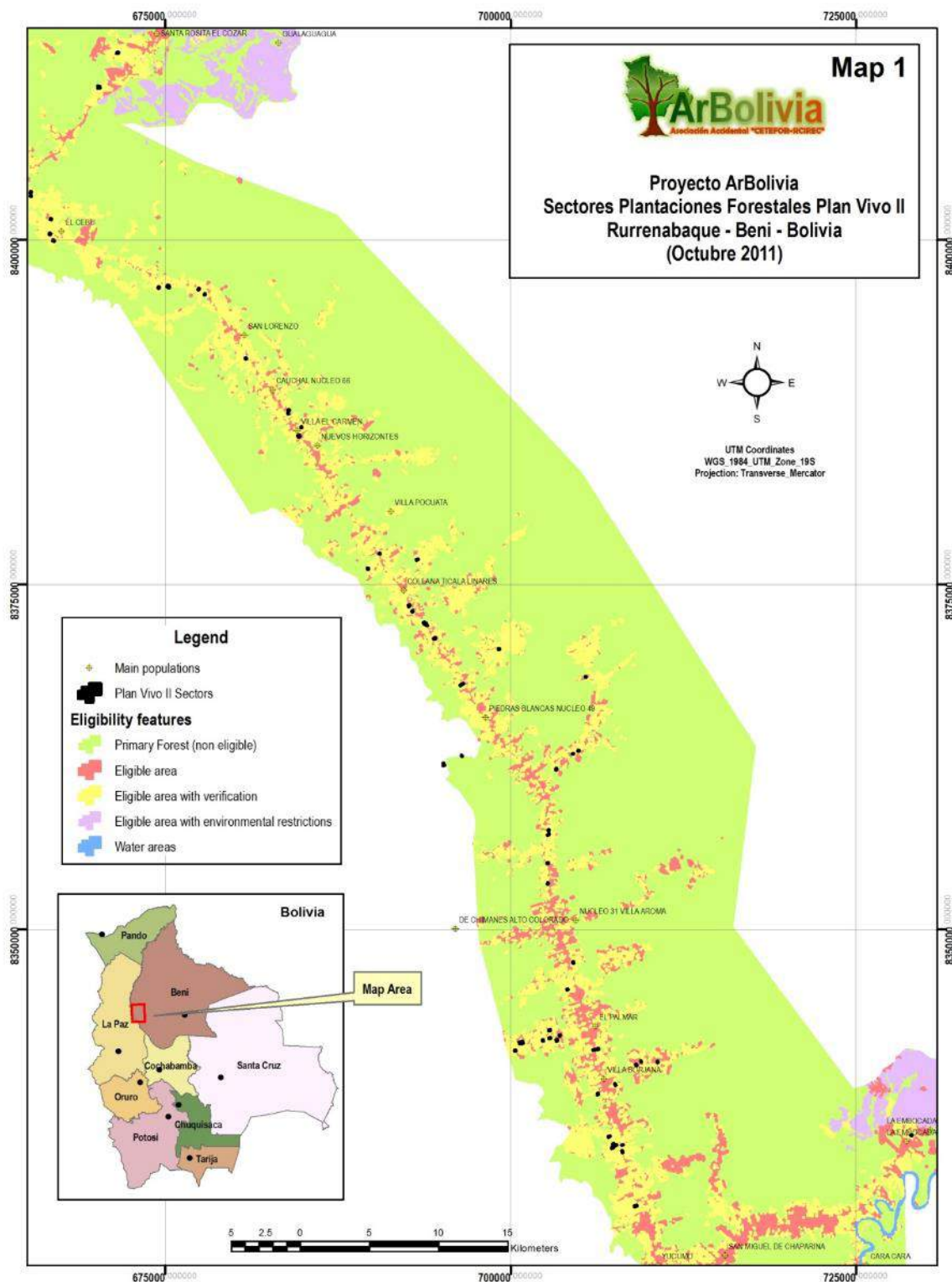
Total expenses per hectare are approximately 4,000 USD/ha. Plantations are on average 5.5 years old. A breakdown of the costs is shown in table 8.1. Costs per hectare can be reduced considerably if the scale of the project were to be extended. Costs for personnel are mainly related to training for the farmers.

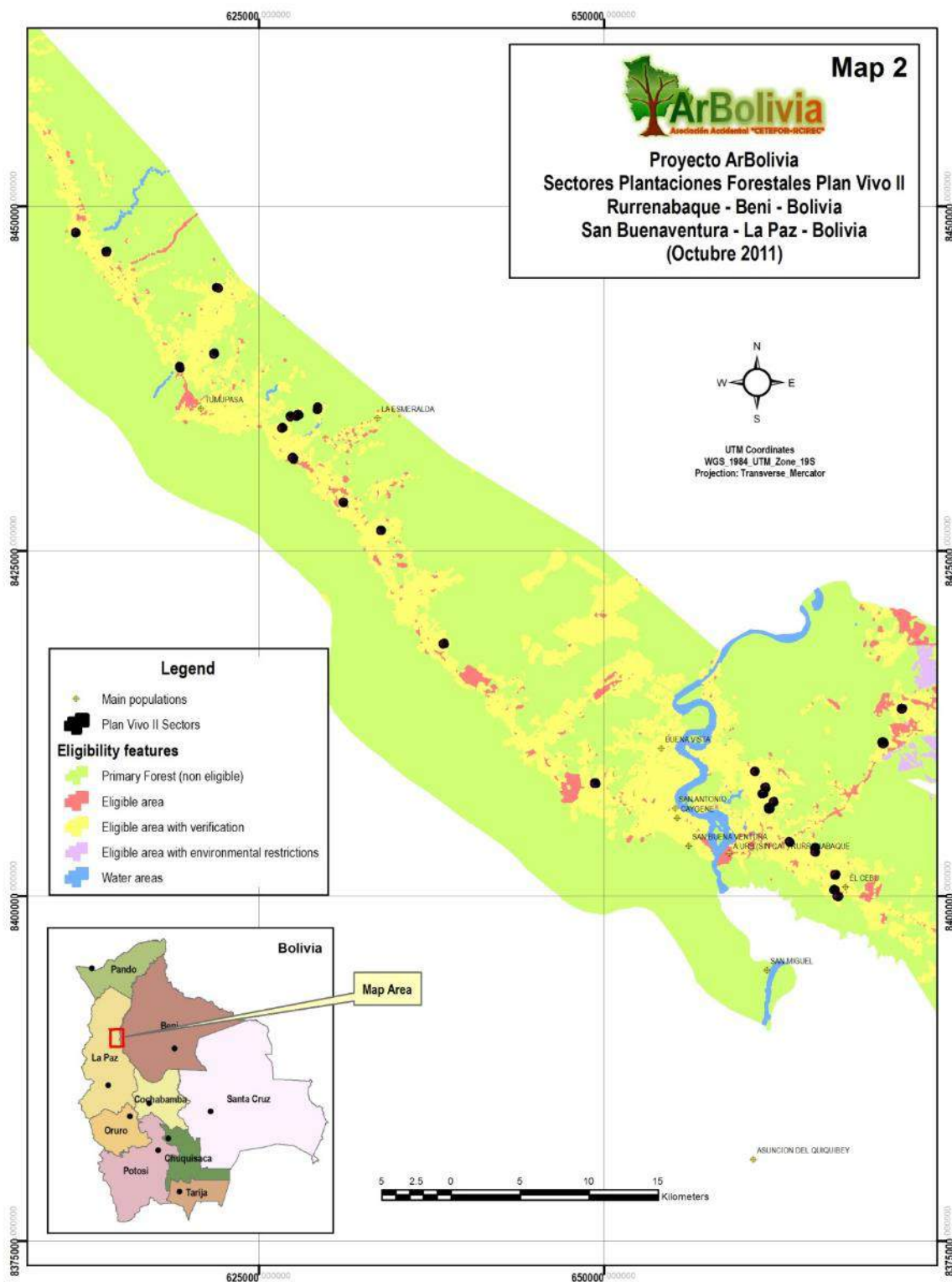
8.1 Break down of cost

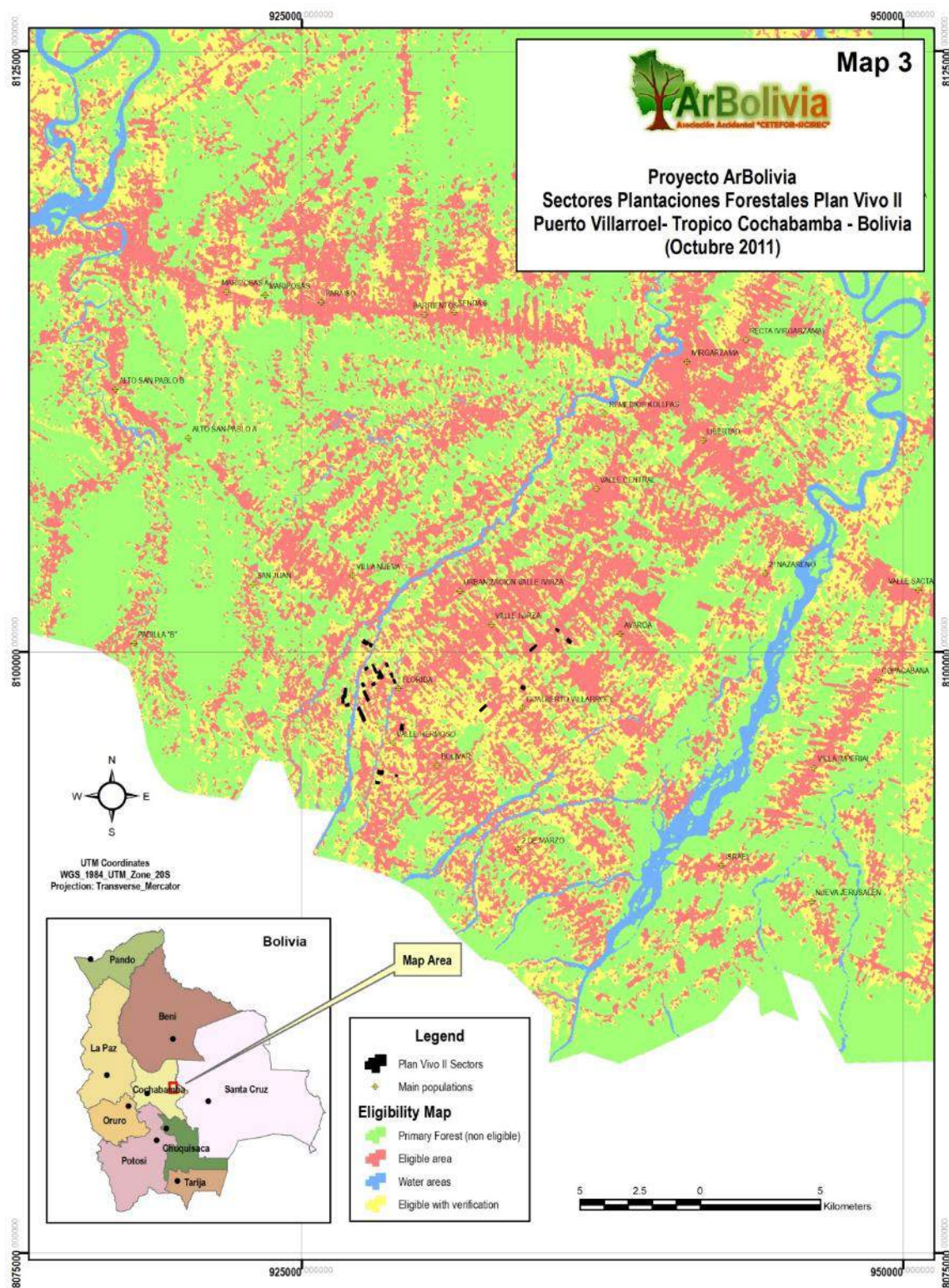
Item	Total (USD)	Cost/ha (USD)
Promotion, organisational strengthening	30.920	158
Payments	88.719	455
Agroforestry	23.245	119
Barbwire	13.950	71
Seedlings	85.204	437
Personal	381.600	1.955
Plants/transport of plants	106.752	547
Taxes	48.750	250
Operational costs	26.006	133
Logistics	11.700	60
Tools/equipment	35.100	180
Total	851.945	4.366

Annex 1: Monitoring results for new plan vivos

Maps: Location of planting areas under Plan Vivo Standard







Annex 2: Monitoring Results

[illegible]



			REY-SAJ-4-S1-P1		a														
PV 2	Reyes	San Jose	BEN-JBA-REY-SAJ-4-S1-P1		Verd olago negro (de ala)	0.25				0.25	278	70	70	0	0	0	14	7	49
PV 2	Rurren abaque	CARMEN SOLEDAD	BEN-JBA-RBQ-CSD-07-S1-P1		Palo yugo	0.50				0.50	263	132	132	0	0	0	26	13	92
PV 2	Rurren abaque	COLLANA	BEN-JBA-RBQ-CLL-001-S1-P1		Teca	2.00				2.00	249	499	499	0	0	0	100	50	349
PV 2	Rurren abaque	COLLANA	BEN-JBA-RBQ-CLL-05-S1-P1		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87
PV 2	Rurren abaque	COLLANA	BEN-JBA-RBQ-CLL-05-S3-P3		Alme ndrill o	0.50				0.50	277	139	139	0	0	0	28	14	97
PV 2	Rurren abaque	COLLANA	BEN-JBA-RBQ-CLL-21-S1-P1		Gabú n			0.45		0.45	202	91	0	0	91	0	18	9	64
PV 2	Rurren abaque	COLLANA	BEN-JBA-RBQ-CLL-21-S1-P1		Palo romá n			0.05		0.05	302	15	0	0	15	0	3	2	11
PV 2	Rurren abaque	COLLANA	BEN-JBA-RBQ-CLL-32-S1-P1		Teca			1.00		1.00	247	247	0	0	0	247	49	25	173
PV 2	Rurren abaque	COLLANA	BEN-JBA-		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175



			RBQ-CLL-41-S1-P1																
PV 2	Rurren abaque	COLLANA	BEN-JBA-RBQ-CLL-41-S1-P2		Palo román	0.15				0.15	303	45	45	0	0	0	9	5	32
PV 2	Rurren abaque	COLLANA	BEN-JBA-RBQ-CLL-41-S1-P2		Palo yugo	0.35				0.35	263	92	92	0	0	0	18	9	65
PV 2	Rurren abaque	Colorado Bajo Nucleo 34	BEN-JBA-RBQ-CLB-5-V S1-PV 1		Palo María	0.50				0.50	215	107	107	0	0	0	21	11	75
PV 2	Rurren abaque	Com. Villa Jichani	BEN-JBA-RBQ-VJI-2-SL1-PL1		Tejejeque	1.00				1.00	231	231	231	0	0	0	46	23	161
PV 2	Rurren abaque	El Bala	BEN-JBA-RBQ-EBA-07-SL1-PL1		Almeдрill o	0.42				0.42	277	116	116	0	0	0	23	12	81
PV 2	Rurren abaque	El Bala	BEN-JBA-RBQ-EBA-07-SL1-PL1		Verd olago negro (de ala)	0.08				0.08	278	22	22	0	0	0	4	2	16
PV 2	Rurren abaque	El Bala	BEN-JBA-RBQ-EBA-17-SL1-PL1		Tejejeque	0.50				0.50	231	115	115	0	0	0	23	12	81
PV 2	Rurren abaque	El Bala	BEN-JBA-RBQ-EBA-17-SL2-PL2		Palo yugo	0.50				0.50	263	132	132	0	0	0	26	13	92
PV 2	Rurren abaque	EL CEBU	BEN-JBA-RBQ-		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175



			CEB-10-S1-P1																
PV 2	Rurren abaque	EL CEBU	BEN-JBA-RBQ-CEB-13-S1-P1		Palo román	0.50				0.50	303	151	151	0	0	0	30	15	106
PV 2	Rurren abaque	EL CEBU	BEN-JBA-RBQ-CEB-13-S2-P2		Serebo	0.50				0.50	248	124	124	0	0	0	25	12	87
PV 2	Rurren abaque	LOS TIGRES	BEN-JBA-RBQ-LTG-02-S1-P1		Palo María	0.08				0.08	215	17	17	0	0	0	3	2	12
PV 2	Rurren abaque	LOS TIGRES	BEN-JBA-RBQ-LTG-02-S1-P1		Palo yugo	0.42				0.42	263	111	111	0	0	0	22	11	77
PV 2	Rurren abaque	LOS TIGRES	BEN-JBA-RBQ-LTG-03-S1-P2		Palo yugo	0.50				0.50	263	132	132	0	0	0	26	13	92
PV 2	Rurren abaque	LOS TIGRES	BEN-JBA-RBQ-LTG-03-S4-P3		Palo román	0.02				0.02	303	6	6	0	0	0	1	1	4
PV 2	Rurren abaque	LOS TIGRES	BEN-JBA-RBQ-LTG-03-S4-P3		Palo yugo	0.48				0.48	263	126	126	0	0	0	25	13	89
PV 2	Rurren abaque	NUEVA ESPERANZA	BEN-JBA-RBQ-NEZ-01-S1-P1		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87
PV 2	Rurren abaque	NUEVA ESPERANZA	BEN-JBA-RBQ-NEZ-02-		Palo María				0.02	0.02	212	4	0	0	0	4	1	0	3



			S1A-P2A																
PV 2	Rurren abaque	NUEVA ESPERANZA	BEN-JBA-RBQ-NEZ-02-S1A-P2A		Verd olago negro (de ala)				0.38	276	105	0	0	0	105	21	11	74	
PV 2	Rurren abaque	NUEVA ESPERANZA	BEN-JBA-RBQ-NEZ-02-S1Bs-P2Bs		Verd olago negro (de ala)				0.10	276	28	0	0	0	28	6	3	19	
PV 2	Rurren abaque	NUEVA ESPERANZA	BEN-JBA-RBQ-NEZ-02-S2-P1		Palo María				0.50	212	106	0	0	0	106	21	11	74	
PV 2	Rurren abaque	NUEVA ESPERANZA	BEN-JBA-RBQ-NEZ-03-S1-PV1		Palo María				0.50	212	106	0	0	0	106	21	11	74	
PV 2	Rurren abaque	NUEVA ESPERANZA	BEN-JBA-RBQ-NEZ-03-S1-PV2		Palo María				0.02	212	4	0	0	0	4	1	0	3	
PV 2	Rurren abaque	NUEVA ESPERANZA	BEN-JBA-RBQ-NEZ-03-S1-PV2		Verd olago negro (de ala)				0.48	276	133	0	0	0	133	27	13	93	
PV 2	Rurren abaque	NUEVA ESPERANZA	BEN-JBA-RBQ-NEZ-05-S1-P1		Alme ndrill o	1.00			1.00	277	277	277	0	0	0	55	28	194	
PV 2	Rurren abaque	NUEVOS HORIZONTE S	BEN-JBA-RBQ-NHS-26-S1-P1		Teca	1.00			1.00	249	249	249	0	0	0	50	25	175	
PV	Rurren	NUEVOS	BEN-		Teca	0.50			0.50	249	125	125	0	0	0	25	12	87	



2	abaque	HORIZONTE S	JBA-RBQ-NHS-26-S1-P2																
PV 2	Rurren abaque	NUEVOS HORIZONTE S	BEN-JBA-RBQ-NHS-31-S1-P1a		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87
PV 2	Rurren abaque	Propiedad privada	BEN-JBA-RBQ-RUP-0001-S1-P1		Palo yugo		0.40			0.40	262	105	0	105	0	0	21	10	73
PV 2	Rurren abaque	Propiedad privada	BEN-JBA-RBQ-RUP-002-S1-P1		Verd olago negro (de ala)	1.00				1.00	278	278	278	0	0	0	56	28	195
PV 2	Rurren abaque	Propiedad privada	BEN-JBA-RBQ-RUP-006-S1-P1		Alme ndrill o				0.29	0.29	275	80	0	0	0	80	16	8	56
PV 2	Rurren abaque	Propiedad privada	BEN-JBA-RBQ-RUP-006-S1-P1		Gabú n				0.30	0.30	201	60	0	0	0	60	12	6	42
PV 2	Rurren abaque	Propiedad privada	BEN-JBA-RBQ-RUP-006-S1-P1		Palo yugo				0.41	0.41	261	107	0	0	0	107	21	11	75
PV 2	Rurren abaque	Propiedad privada	BEN-JBA-RBQ-RUP-016-S1-		Alme ndrill o	1.13				1.13	277	313	313	0	0	0	63	31	219



			P1																
PV 2	Rurren abaque	Propiedad privada	BEN- JBA- RBQ- RUP- 016-S1- P1		Palo Marí a	0.37				0.37	215	79	79	0	0	0	16	8	56
PV 2	Rurren abaque	Propiedad privada	BEN- JBA- RBQ- RUP- 016-S1- P2		Palo Marí a	0.50				0.50	215	107	107	0	0	0	21	11	75
PV 2	Rurren abaque	Propiedad privada	BEN- JBA- RBQ- RUP- 01-S1- P1		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87
PV 2	Rurren abaque	Propiedad privada	BEN- JBA- RBQ- RUP- 02-S1- P1		Palo romá n	0.89				0.89	303	270	270	0	0	0	54	27	189
PV 2	Rurren abaque	Propiedad privada	BEN- JBA- RBQ- RUP- 02-S1- P1		Tejey eque	0.11				0.11	231	25	25	0	0	0	5	3	18
PV 2	Rurren abaque	Propiedad privada	BEN- JBA- RBQ- RUP- 02-S1- P2		Palo romá n	0.06				0.06	303	18	18	0	0	0	4	2	13
PV 2	Rurren abaque	Propiedad privada	BEN- JBA- RBQ- RUP- 02-S1- P2		Palo yugo	0.44				0.44	263	116	116	0	0	0	23	12	81
PV 2	Rurren abaque	Propiedad privada	BEN- JBA- RBQ-		Alme ndrill o	0.50				0.50	277	139	139	0	0	0	28	14	97



			RUP-06-S1-P1																
PV 2	Rurren abaque	Propiedad privada	BEN-JBA-RBQ-RUP-06-S1-P2		Alme ndrill o	0.10				0.10	277	28	28	0	0	0	6	3	19
PV 2	Rurren abaque	Propiedad privada	BEN-JBA-RBQ-RUP-06-S1-P2		Palo yugo	0.40				0.40	263	105	105	0	0	0	21	11	74
PV 2	Rurren abaque	Propiedad privada	BEN-JBA-RBQ-RUP-07-S1-P1		Palo yugo	0.60				0.60	263	158	158	0	0	0	32	16	111
PV 2	Rurren abaque	Propiedad privada	BEN-JBA-RBQ-RUP-10-S1-P1		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175
PV 2	Rurren abaque	SAN BERNARDO	BEN-JBA-RBQ-SBD-12-S1-P2		Palo yugo	0.10				0.10	263	26	26	0	0	0	5	3	18
PV 2	Rurren abaque	SAN BERNARDO	BEN-JBA-RBQ-SBD-12-S1-P2		Paqui o	0.40				0.40	234	94	94	0	0	0	19	9	66
PV 2	Rurren abaque	SAN BERNARDO	BEN-JBA-RBQ-SBD-12-S2-P3		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87
PV 2	Rurren abaque	SAN BERNARDO	BEN-JBA-RBQ-SBD-12-		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87



			S2-P4																
PV 2	Rurren abaque	SAN MIGUEL	BEN-JBA-RBQ-SML-08-S1-P1		Verd olago amarillo de ala	0.50				0.50	228	114	114	0	0	0	23	11	80
PV 2	Rurren abaque	SAN MIGUEL	BEN-JBA-RBQ-SML-08-S1-P1		Teca			0.40	0.40	247	99	0	0	0	99	20	10	69	
PV 2	Rurren abaque	TICALA LINARES	BEN-JBA-RBQ-TCN-036-SL1-PL1		Teca	1.00			1.00	249	249	249	0	0	0	50	25	175	
PV 2	Rurren abaque	TICALA LINARES	BEN-JBA-RBQ-TCN-41-SL1-PL1		Paqui o	0.50			0.50	234	117	117	0	0	0	23	12	82	
PV 2	Rurren abaque	UNCALLAM AYA	BEN-JBA-RBQ-UNC-21-S1-P2		Teca	0.50			0.50	249	125	125	0	0	0	25	12	87	
PV 2	Rurren abaque	VILLA EL CARMEN	BEN-JBA-RBQ-VCM-18-S1-P2		Palo romá n	0.40			0.40	303	121	121	0	0	0	24	12	85	
PV 2	Rurren abaque	VILLA EL CARMEN	BEN-JBA-RBQ-VCM-18-S1-P2		Palo yugo	0.10			0.10	263	26	26	0	0	0	5	3	18	
PV 2	San Borja	Borjanita	BEN-JBA-SBJ-		Palo yugo	0.50			0.50	263	132	132	0	0	0	26	13	92	



			BOR-(001)09-S1-P1																
PV 2	San Borja	Borjanita	BEN-JBA-SBJ-BOR-(001)09-S1-P1		Verd olago amarillo de ala	0.50				0.50	228	114	114	0	0	0	23	11	80
PV 2	San Borja	Borjanita	BEN-JBA-SBJ-BOR-02-S1-P1		Alme ndrill o	0.50				0.50	277	139	139	0	0	0	28	14	97
PV 2	San Borja	Borjanita	BEN-JBA-SBJ-BOR-02-S1-P2		Palo Marí a	0.50				0.50	215	107	107	0	0	0	21	11	75
PV 2	San Borja	EL PALMAR	BEN-JBA-SBJ-EPR-041-S1-P1		Palo Marí a	0.20				0.20	215	43	43	0	0	0	9	4	30 Failed
PV 2	San Borja	EL PALMAR	BEN-JBA-SBJ-EPR-041-S6-P6		Palo Marí a	0.50				0.50	215	107	107	0	0	0	21	11	75 Failed
PV 2	San Borja	EL PALMAR	BEN-JBA-SBJ-EPR-042-S1-P1		Palo Marí a	0.03				0.03	215	6	6	0	0	0	1	1	5
PV 2	San Borja	EL PALMAR	BEN-JBA-SBJ-EPR-042-S1-P1		Palo yugo	0.47				0.47	263	124	124	0	0	0	25	12	87
PV	San	Embocada	BEN-		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87



2	Borja		JBA-SBJ-EMB-033-S1-P1																
PV 2	San Borja	Inca Suyo	BEN-JBA-SBJ-INC-001-SL1-PL1		Palo María	0.07				0.07	215	15	15	0	0	0	3	2	11
PV 2	San Borja	Inca Suyo	BEN-JBA-SBJ-INC-001-SL1-PL1		Teca	0.93				0.93	249	232	232	0	0	0	46	23	162
PV 2	San Borja	Inca Suyo	BEN-JBA-SBJ-INC-012-SL1-PL1		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87
PV 2	San Borja	Inca Suyo	BEN-JBA-SBJ-INC-014-SL2-PL2		Almendrillo	0.45				0.45	277	125	125	0	0	0	25	12	87
PV 2	San Borja	Marca Coroico	BEN-JBA-SBJ-MAC-11-SL1-PL1		Palo yugo	0.10				0.10	263	26	26	0	0	0	5	3	18
PV 2	San Borja	Marca Coroico	BEN-JBA-SBJ-MAC-11-SL1-PL1		Teca	0.40				0.40	249	100	100	0	0	0	20	10	70
PV 2	San Borja	Propiedad privada	BEN-JBA-SBJ-BJP-34-S1-P1		Almendrillo				0.09	0.09	275	25	0	0	0	25	5	2	17



PV 2	San Borja	Propiedad privada	BEN-JBA-SBJ-BJP-34-S1-P1	Palo yugo				0.41	0.41	261	107	0	0	0	107	21	11	75	
PV 2	San Borja	Propiedad privada	BEN-JBA-SBJ-BJP-34-S2-P3	Verd olago negro (de ala)	1.00			1.00	1.00	278	278	278	0	0	0	56	28	195	
PV 2	San Borja	Propiedad privada	BEN-JBA-SBJ-BJP-34-S3-P2	Palo María				0.30	0.30	212	64	0	0	0	64	13	6	45	
PV 2	San Borja	Propiedad privada	BEN-JBA-SBJ-BJP-34-S3-P2	Verd olago negro (de ala)				0.20	0.20	276	55	0	0	0	55	11	6	39	
PV 2	San Borja	San Juan	BEN-JBA-SBJ-SJU-014-S1-P1	Alme ndrill o	0.50			0.50	0.50	277	139	139	0	0	0	28	14	97	
PV 2	San Borja	San Juan	BEN-JBA-SBJ-SJU-027-S2-P3	Teca	0.50			0.50	0.50	249	125	125	0	0	0	25	12	87	
PV 2	San Borja	San Juan	BEN-JBA-SBJ-SJU-027-S2-P4	Alme ndrill o	0.50			0.50	0.50	277	139	139	0	0	0	28	14	97	
PV 2	San Borja	VILLA BORJANA	BEN-JBA-SBJ-VBJ-010-VS3-PV1	Palo María	1.00			1.00	1.00	215	215	215	0	0	0	43	21	150	
PV	San	VILLA	BEN-	Palo	0.10			0.10	0.10	215	21	21	0	0	0	4	2	15	



2	Borja	BORJANA	JBA-SBJ-VBJ-013-S1-P1		Mari a														
PV 2	San Borja	VILLA BORJANA	BEN-JBA-SBJ-VBJ-013-S1-P1		Teca	0.90				0.90	249	224	224	0	0	0	45	22	157
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-002-S1-P1		Verd olago negro (de ala)			0.75		0.75	277	208	0	0	208	0	42	21	146
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-009-S1-P1		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-009-S1-P2		Verd olago amarillo de ala	0.50				0.50	228	114	114	0	0	0	23	11	80
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-012-S1-P1		Palo yugo			0.50		0.50	262	131	0	0	131	0	26	13	92
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-012-S1-P2		Palo Mari a			0.50		0.50	213	107	0	0	107	0	21	11	75
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-020-S1-		Palo Mari a		0.60			0.60	213	128	0	128	0	0	26	13	90



			P1																	
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-031-S1-P1		Tejey eque				0.50	0.50	228	114	0	0	0	114	23	11	80	
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-031-S1-P2a		Teca				0.50	0.50	247	124	0	0	0	124	25	12	87	
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-031-S1-P2b		Teca				0.50	0.50	247	124	0	0	0	124	25	12	87	Failed
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-031-S1-P3		Tejey eque				0.50	0.50	228	114	0	0	0	114	23	11	80	
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-032-S1-P1		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87	
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-032-S1-P2		Palo román	0.05				0.05	303	15	15	0	0	0	3	2	11	
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-032-S1-P2		Tejey eque	0.45				0.45	231	104	104	0	0	0	21	10	73	
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-		Palo María	0.45				0.45	215	97	97	0	0	0	19	10	68	Failed



			IMP-06-S1-P1																	
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-06-S1-P1		Palo yugo	0.30				0.30	263	79	79	0	0	0	16	8	55	Failed
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-06-S1-P2		Palo María	0.03				0.03	215	6	6	0	0	0	1	1	5	
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-06-S1-P2		Teca	0.72				0.72	249	180	180	0	0	0	36	18	126	
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-29-S1-P1		Verd olago negro (de ala)	0.50				0.50	278	139	139	0	0	0	28	14	97	
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-29-S1-P3		Palo María	0.20				0.20	215	43	43	0	0	0	9	4	30	
PV 2	San Borja	VILLA IMPERIAL	BEN-JBA-SBJ-IMP-29-S1-P3		Teca	0.80				0.80	249	200	200	0	0	0	40	20	140	
PV 2	San Borja	YACUMITA	BEN-JBA-SBJ-YAC-008-S1-P1		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87	
PV 2	San Borja	YACUMITA	BEN-JBA-SBJ-YAC-008-S2-P2		Verd olago amarillo de ala	0.50				0.50	228	114	114	0	0	0	23	11	80	
PV 2	San Borja	YACUMITA	BEN-JBA-		Palo romá	0.50				0.50	303	151	151	0	0	0	30	15	106	



			SBJ-YAC-008-S4-P4		n														
PV 2	San Borja	YACUMITA	BEN-JBA-SBJ-YAC-010-S5-P4		Verd olago negro (de ala)				0.10	276	28	0	0	0	28	6	3	19	Failed
PV 2	San Borja	YACUMITA	BEN-JBA-SBJ-YAC-010-S5-P4a		Verd olago negro (de ala)				0.90	276	249	0	0	0	249	50	25	174	
PV 2	San Borja	YACUMITA	BEN-JBA-SBJ-YAC-05-S1-P1		Teca	0.50			0.50	249	125	125	0	0	0	25	12	87	
PV 2	San Borja	YACUMITA	BEN-JBA-SBJ-YAC-06-S1-P1		Teca	0.50			0.50	249	125	125	0	0	0	25	12	87	
PV 2	San Borja	YACUMITA	BEN-JBA-SBJ-YAC-06-S1-P2		Verd olago amarillo de ala	0.50			0.50	228	114	114	0	0	0	23	11	80	
PV 2	San Borja	YACUMITA	BEN-JBA-SBJ-YAC-18-S1-P1		Palo román	0.50			0.50	303	151	151	0	0	0	30	15	106	
PV 2	San Borja	YACUMITA	BEN-JBA-SBJ-YAC-18-S1-P1		Teca	0.50			0.50	249	125	125	0	0	0	25	12	87	
PV 2	San Borja	YACUMITA	BEN-JBA-SBJ-YAC-		Teca	0.50			0.50	249	125	125	0	0	0	25	12	87	



			A1-S1-P1																
PV 2	San Borja	YACUMITA	BEN-JBA-SBJ-YAC-A1-S2-P2	Gabún	0.48				0.48	203	97	97	0	0	0	19	10	68	
PV 2	San Borja	YACUMITA	BEN-JBA-SBJ-YAC-A1-S2-P2	Palo román	0.02				0.02	303	6	6	0	0	0	1	1	4	
PV 2	San Buenaventura	HUREHUAP O	LPZ-ITU-SBV-HUR-003-S1-P1a	Teca	0.50				0.50	249	125	125	0	0	0	25	12	87	
PV 2	San Buenaventura	NUEVA PALESTINA	LPZ-ITU-SBV-NPL-14-S3-P4	Tejeque	1.00				1.00	231	231	231	0	0	0	46	23	161	
PV 2	San Buenaventura	NUEVA PALESTINA	LPZ-ITU-SBV-NPL-14-S3-P4 e	Tejeque	0.20				0.20	231	46	46	0	0	0	9	5	32	
PV 2	San Buenaventura	Propiedad privada	LPZ-ITU-SBV-SBP-001-S1-P1	Tejeque	0.50				0.50	231	115	115	0	0	0	23	12	81	
PV 2	San Buenaventura	Propiedad privada	LPZ-ITU-SBV-SBP-001-S3-P3	Tejeque	0.50				0.50	231	115	115	0	0	0	23	12	81	
PV 2	San Buenaventura	Propiedad privada	LPZ-ITU-SBV-SBP-	Teca	1.00				1.00	249	249	249	0	0	0	50	25	175	



			002-S1-P1																
PV 2	San Buenav entura	Propiedad privada	LPZ-ITU-SBV-SBP-022-S3-P2		Tejey equ	1.00				1.00	231	231	231	0	0	0	46	23	161
PV 2	San Buenav entura	Propiedad privada	LPZ-ITU-SBV-SBP-37-S4-P3		Palo romá n	0.50				0.50	303	151	151	0	0	0	30	15	106
PV 2	San Buenav entura	SAN ISIDRO	LPZ-ITU-SBV-SID-37-S2-P3		Alme ndrill o	0.90				0.90	277	249	249	0	0	0	50	25	175
PV 2	San Buenav entura	SAN ISIDRO	LPZ-ITU-SBV-SID-37-S2-P3		Palo romá n	0.10				0.10	303	30	30	0	0	0	6	3	21
PV 2	San Buenav entura	SAN SILVESTRE	LPZ-ITU-SBV-SSR-001-S1-P1a		Teca			0.36		0.36	247	89	0	0	0	89	18	9	62
PV 2	San Buenav entura	SAN SILVESTRE	LPZ-ITU-SBV-SSR-001-S1-P1a		Tejey equ			0.24		0.24	228	55	0	0	0	55	11	5	38
PV 2	San Buenav entura	SANTA ANA	LPZ-ITU-SBV-STA-10-S1-P1a		Teca	0.70				0.70	249	175	175	0	0	0	35	17	122
PV 2	San Buenav entura	TUMUPASA	LPZ-ITU-SBV-TUM-002-S1-P1		Teca	1.93				1.93	249	481	481	0	0	0	96	48	337



PV 2	San Buenav entura	TUMUPASA	LPZ- ITU- SBV- TUM- 002-S1- P1		Tejey eque	0.07				0.07	231	16	16	0	0	0	3	2	11	
PV 2	San Buenav entura	TUMUPASA	LPZ- ITU- SBV- TUM- 005-S1- P1a		Teca	0.70				0.70	249	175	175	0	0	0	35	17	122	
PV 2	San Buenav entura	TUMUPASA	LPZ- ITU- SBV- TUM- 01-S1- P2		Alme ndrill o	0.50				0.50	277	139	139	0	0	0	28	14	97	Failed
PV 2	San Buenav entura	TUMUPASA	LPZ- ITU- SBV- TUM- 025-S1- P1		Palo Marí a	0.10				0.10	215	21	21	0	0	0	4	2	15	
PV 2	San Buenav entura	TUMUPASA	LPZ- ITU- SBV- TUM- 025-S1- P1		Teca	0.90				0.90	249	224	224	0	0	0	45	22	157	
PV 2	San Buenav entura	TUMUPASA	LPZ- ITU- SBV- TUM- 18-S1- P1		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175	
PV 2	Puerto Villarro el	9 de Agosto	CBA- CRO- PVR- 9AG- 07-S1- P1		Palo romá n	0.70				0.70	303	212	212	0	0	0	42	21	148	
PV 2	Puerto Villarro el	9 de Agosto	CBA- CRO- PVR- 9AG-		Tejey eque				0.9 0	0.90	228	206	0	0	0	206	41	21	144	



			07-SV2-PV2																
PV 2	Puerto Villarroel	9 de Agosto	CBA-CRO-PVR-9AG-07-SV2-PV3		Alme ndrill o				0.90	0.90	275	247	0	0	0	247	49	25	173
PV 2	Puerto Villarroel	Agro Sacta	CBA-CRO-PVR-AST-24-S1-P1		Tejey eque				1.25	1.25	228	285	0	0	0	285	57	29	200
PV 2	Puerto Villarroel	Agro Sacta	CBA-CRO-PVR-AST-24-S1-P1		Trom pillo de altur a				0.25	0.25	284	71	0	0	0	71	14	7	50
PV 2	Puerto Villarroel	Alianza	CBA-CRO-PVR-ALZ-2-S1-P1		Alme ndrill o				1.00	1.00	275	275	0	0	0	275	55	27	192
PV 2	Puerto Villarroel	Alianza	CBA-CRO-PVR-ALZ-2-S2-P2		Alme ndrill o				2.90	2.90	275	797	0	0	0	797	159	80	558
PV 2	Puerto Villarroel	Gualberto Villarroel	CBA-CRO-PVR-GVR-09-SV1-PV1		Alme ndrill o				1.40	1.40	275	385	0	0	0	385	77	38	269
PV 2	Puerto Villarroel	Gualberto Villarroel	CBA-CRO-PVR-GVR-56-SV1-PV1		Trom pillo de altur a				2.20	2.20	284	625	0	0	0	625	125	63	438
PV 2	Puerto Villarroel	Valle Hermoso	CBA-CRO-PVR-VHM-012c-S1-P1		Alme ndrill o				2.00	2.00	275	550	0	0	0	550	110	55	385



PV 2	Puerto Villarro el	Valle Hermoso	CBA- CRO- PVR- VHM- 11-S1- P1		Verd olago negr o (pep a)				1.0 0	1.00	232	232	0	0	0	232	46	23	162	
PV 2	Puerto Villarro el	Valle Hermoso	CBA- CRO- PVR- VHM- 11-SV2- PV2		Alme ndrill o	0.90				0.90	277	249	249	0	0	0	50	25	175	
PV 2	Puerto Villarro el	Valle Hermoso	CBA- CRO- PVR- VHM- 27-S1- P1		Tejey eque	0.50				0.50	231	115	115	0	0	0	23	12	81	
PV 2	Puerto Villarro el	Valle Hermoso	CBA- CRO- PVR- VHM- 27V-S1- P1		Tejey eque				2.6 0	2.60	228	594	0	0	0	594	119	59	416	
PV 2	Puerto Villarro el	Valle Hermoso	CBA- CRO- PVR- VHM- 31V-S1- P1		Tejey eque				1.0 0	1.00	228	228	0	0	0	228	46	23	160	
PV 2	Puerto Villarro el	Valle Hermoso	CBA- CRO- PVR- VHM- 38-SV1- PV1		Alme ndrill o				2.8 0	2.80	275	770	0	0	0	770	154	77	539	
PV 2	Puerto Villarro el	Valle Hermoso	CBA- CRO- PVR- VHM- 40-S1- P1		Tejey eque				0.4 0	0.40	228	91	0	0	0	91	18	9	64	
PV 2	Puerto Villarro el	Valle Hermoso	CBA- CRO- PVR- VHM-		Alme ndrill o				0.9 0	0.90	275	247	0	0	0	247	49	25	173	



			40-SV2-PV2																
PV 2	Puerto Villarroel	Valle Hermoso	CBA-CRO-PVR-VHM-40-SV3-PV3		Tejey eque			0.60	0.60	228	137	0	0	0	137	27	14	96	
PV 2	Puerto Villarroel	Valle Hermoso	CBA-CRO-PVR-VHM-46-S1-P1		Alme ndrill o			1.00	1.00	275	275	0	0	0	275	55	27	192	
PV 2	Puerto Villarroel	Valle Hermoso	CBA-CRO-PVR-VHM-47-S1-P1		Tejey eque			1.80	1.80	228	411	0	0	0	411	82	41	288	
PV 2	Puerto Villarroel	Valle Hermoso	CBA-CRO-PVR-VHM-47-S1-P1		Trom pillo de altur a			1.20	1.20	284	341	0	0	0	341	68	34	239	
PV 2	Puerto Villarroel	Valle Hermoso	CBA-CRO-PVR-VHM-58-SV1-PV1a		Tejey eque			1.00	1.00	228	228	0	0	0	228	46	23	160	
PV 2	Puerto Villarroel	Valle Hermoso	CBA-CRO-PVR-VHM-58-SV1-PV1b		Tejey eque			1.80	1.80	228	411	0	0	0	411	82	41	288	
PV 2	Puerto Villarroel	Valle Hermoso	CBA-CRO-PVR-VHM-58-SV1-PV1b		Trom pillo de altur a			2.20	2.20	284	625	0	0	0	625	125	63	438	
PV 2	Puerto Villarroel	Valle Hermoso	CBA-CRO-		Tejey eque			1.00	1.00	228	228	0	0	0	228	46	23	160	



	el		PVR-VHM-72-S2-P2					0											
PV 2	Puerto Villarroel	Valle Hermoso	CBA-CRO-PVR-VHM-72-SV1-PV1		Tejey eque			0.90	0.90	228	206	0	0	0	206	41	21	144	
PV 2	Puerto Villarroel	Valle Hermoso	CBA-CRO-PVR-VHM-72-SV3-PV3		Trompillo de altura			0.80	0.80	284	227	0	0	0	227	45	23	159	
PV 2	Puerto Villarroel	Villa Verde	CBA-CRO-PVR-VVD-13-S1-P1		Tejey eque			0.70	0.70	228	160	0	0	0	160	32	16	112	
PV 2	Puerto Villarroel	Villa Verde	CBA-CRO-PVR-VVD-13-S1-P1		Trompillo de altura			0.30	0.30	284	85	0	0	0	85	17	9	60	
PV 2	Puerto Villarroel	Villa Verde	CBA-CRO-PVR-VVD-9B-S1-P1		Almendrillo			2.00	2.00	275	550	0	0	0	550	110	55	385	
PV 2	Puerto Villarroel	Villa Verde	CBA-CRO-PVR-VVD-9-SV1-PV1		Almendrillo	0.40		0.40	0.40	277	111	111	0	0	0	22	11	78	
PV 2	Puerto Villarroel	Villa Verde	CBA-CRO-PVR-VVD-9-SV1-PV1		Verdolago negro (pepa)	0.60		0.60	0.60	234	140	140	0	0	0	28	14	98	



PV 2	Puerto Villarroel	Villa Verde	CBA-CRO-PVR-VVD-9-SV2-PV2		Trompillo de altura	1.60				1.60	286	458	458	0	0	0	92	46	321	
PV 1	San Buenaventura	25 de Mayo	LPZ-ITU-SBV-25M-0003-S1-P1		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175	
PV 1	San Buenaventura	25 de Mayo	LPZ-ITU-SBV-25M-029-S1-P1a		Palo román	0.16				0.16	303	48	48	0	0	0	10	5	34	
PV 1	San Buenaventura	25 de Mayo	LPZ-ITU-SBV-25M-029-S1-P1a		Teca	0.34				0.34	249	85	85	0	0	0	17	8	59	
PV 1	San Buenaventura	25 de Mayo	LPZ-ITU-SBV-25M-004-S1-P1a		Teca	0.70				0.70	249	175	175	0	0	0	35	17	122	
PV 1	San Buenaventura	25 de Mayo	LPZ-ITU-SBV-25M-018-S1-P1		Palo román	0.10				0.10	303	30	30	0	0	0	6	3	21	
PV 1	San Buenaventura	25 de Mayo	LPZ-ITU-SBV-25M-018-S1-P1		Teca	0.90				0.90	249	224	224	0	0	0	45	22	157	
PV 1	San Buenaventura	25 de Mayo	LPZ-ITU-SBV-25M-		Mara	0.03				0.03	249	7	7	0	0	0	1	1	5	



			03-S1-P1																
PV 1	San Buenav entura	25 de Mayo	LPZ-ITU-SBV-25M-03-S1-P1		Cedro	0.02				0.02	249	5	5	0	0	0	1	0	3
PV 1	San Buenav entura	25 de Mayo	LPZ-ITU-SBV-25M-03-S1-P1		Teca	1.05				1.05	249	262	262	0	0	0	52	26	183
PV 1	San Buenav entura	25 de Mayo	LPZ-ITU-SBV-25M-08-S2-P1		Alme ndrill o	0.50				0.50	277	139	139	0	0	0	28	14	97
PV 1	San Buenav entura	25 de Mayo	LPZ-ITU-SBV-25M-08-S2-P2		Tejey eque	0.50				0.50	231	115	115	0	0	0	23	12	81
PV 1	San Buenav entura	25 de Mayo	LPZ-ITU-SBV-25M-08-S2-P3		Tejey eque	0.50				0.50	231	115	115	0	0	0	23	12	81
PV 1	San Buenav entura	25 de Mayo	LPZ-ITU-SBV-25M-19-S1-P1		Alme ndrill o	1.00				1.00	277	277	277	0	0	0	55	28	194
PV 1	San Buenav entura	25 de Mayo	LPZ-ITU-SBV-25M-32-S1-P1		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87
PV 1	San Buenav	25 de Mayo	LPZ-ITU-		Verd olago	0.50				0.50	234	117	117	0	0	0	23	12	82



	entura		SBV-25M-32-S1-P2		negr o (pep a)														
PV 1	San Buenav entura	Bella Altura	LPZ-ITU-SBV-BAT-01-S1-P1		Palo romá n	0.34				0.34	303	103	103	0	0	0	21	10	72
PV 1	San Buenav entura	Bella Altura	LPZ-ITU-SBV-BAT-01-S1-P1		Palo yugo	0.20				0.20	263	53	53	0	0	0	11	5	37
PV 1	San Buenav entura	Bella Altura	LPZ-ITU-SBV-BAT-01-S1-P1		Verd olago amar rillo de ala	0.46				0.46	228	105	105	0	0	0	21	11	74
PV 1	San Buenav entura	Bella Altura	LPZ-ITU-SBV-BAT-01-S2-P2		Alme ndrill o	1.00				1.00	277	277	277	0	0	0	55	28	194
PV 1	San Buenav entura	Bella Altura	LPZ-ITU-SBV-BAT-09-S1-PV2		Palo Marí a	0.50				0.50	215	107	107	0	0	0	21	11	75
PV 1	San Buenav entura	Buena Vista	LPZ-ITU-SBV-BNT-017-S4-P3		Palo romá n	0.05				0.05	303	15	15	0	0	0	3	2	11
PV 1	San Buenav entura	Buena Vista	LPZ-ITU-SBV-BNT-017-S4-P3		Palo yugo	0.45				0.45	263	119	119	0	0	0	24	12	83
PV 1	San Buenav entura	Buena Vista	LPZ-ITU-SBV-BNT-		Tejey eque	2.00				2.00	231	461	461	0	0	0	92	46	323



			19-S1-P1																
PV 1	San Buenaventura	Buena Vista	LPZ-ITU-SBV-BNT-51-S1-P1		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175
PV 1	San Buenaventura	Cinteño	LPZ-ITU-SBV-CIN-04-S1-P1a		Teca	0.60				0.60	249	150	150	0	0	0	30	15	105
PV 1	San Buenaventura	Cinteño	LPZ-ITU-SBV-CIN-04-S1-P1Bs		Teca	0.10				0.10	249	25	25	0	0	0	5	2	17
PV 1	San Buenaventura	Cinteño	LPZ-ITU-SBV-CIN-13-S2-P1		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175
PV 1	San Buenaventura	Colorado	LPZ-ITU-SBV-CLD-001-S1-P1		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175
PV 1	San Buenaventura	Colorado	LPZ-ITU-SBV-CLD-00-S1-P1		Teca	0.70				0.70	249	175	175	0	0	0	35	17	122
PV 1	San Buenaventura	Colorado	LPZ-ITU-SBV-CLD-00-S1-P1		Teca	0.30				0.30	249	75	75	0	0	0	15	7	52
PV 1	San Buenaventura	Capaina	LPZ-ITU-SBV-COP-03-S1-P1		Palo yugo	0.06				0.06	263	16	16	0	0	0	3	2	11
PV	San	Capaina	LPZ-		Verd	0.94				0.94	228	215	215	0	0	0	43	21	150



1	Buenaventura		ITU-SBV-COP-03-S1-P1		olago amarillo de ala														
PV 1	San Buenaventura	Everest	LPZ-ITU-SBV-EVE-011-S1-P1a		Teca	0.40				0.40	249	100	100	0	0	0	20	10	70
PV 1	San Buenaventura	Everest	LPZ-ITU-SBV-EVE-011-S1-P2		Cedro	0.03				0.03	277	8	8	0	0	0	2	1	6
PV 1	San Buenaventura	Everest	LPZ-ITU-SBV-EVE-011-S1-P2		Almendrillo	0.47				0.47	277	130	130	0	0	0	26	13	91
PV 1	San Buenaventura	Everest	LPZ-ITU-SBV-EVE-06-S1-P1		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87
PV 1	San Buenaventura	Hurehuapo	LPZ-ITU-SBV-HUR-02-S1-P1		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175
PV 1	San Buenaventura	Hurehuapo	LPZ-ITU-SBV-HUR-04-S1-P1		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175
PV 1	San Buenaventura	Hurehuapo	LPZ-ITU-SBV-HUR-04-S2-P2		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87



PV 1	San Buenav entura	Hurehuapo	LPZ- ITU- SBV- HUR- 08-S1- P2		Alme ndrill o	0.46				0.46	277	127	127	0	0	0	25	13	89	
PV 1	San Buenav entura	Hurehuapo	LPZ- ITU- SBV- HUR- 08-S1- P2		Tejey eque	0.04				0.04	231	9	9	0	0	0	2	1	6	
PV 1	San Buenav entura	Hurehuapo	LPZ- ITU- SBV- HUR- 08-S1- P3		Palo romá n	0.17				0.17	303	51	51	0	0	0	10	5	36	
PV 1	San Buenav entura	Hurehuapo	LPZ- ITU- SBV- HUR- 08-S1- P3		Teca	0.33				0.33	249	82	82	0	0	0	16	8	58	
PV 1	San Buenav entura	Hurehuapo	LPZ- ITU- SBV- HUR- 12-S1- P1		Teca	0.78				0.78	249	195	195	0	0	0	39	19	136	
PV 1	San Buenav entura	Hurehuapo	LPZ- ITU- SBV- HUR- 12-S1- P1		Tejey eque	0.22				0.22	231	51	51	0	0	0	10	5	36	
PV 1	San Buenav entura	Hurehuapo	LPZ- ITU- SBV- HUR- 036-S1- P1		Teca	1.50				1.50	249	374	374	0	0	0	75	37	262	
PV 1	San Buenav entura	Hurehuapo	LPZ- ITU- SBV- HUR-		Teca	0.86				0.86	249	214	214	0	0	0	43	21	150	



			46-S1-P1																
PV 1	San Buenaventura	Hurehuapo	LPZ-ITU-SBV-HUR-46-S1-P1		Tejeque	0.14				0.14	231	32	32	0	0	0	6	3	23
PV 1	San Buenaventura	Hurehuapo	LPZ-ITU-SBV-HUR-46-S2-P2		Almendrillo	0.85				0.85	277	236	236	0	0	0	47	24	165
PV 1	San Buenaventura	Hurehuapo	LPZ-ITU-SBV-HUR-46-S2-P2		Tejeque	0.15				0.15	231	35	35	0	0	0	7	3	24
PV 1	San Buenaventura	Hurehuapo	LPZ-ITU-SBV-HUR-46-S2-P3		Tejeque	0.20				0.20	231	46	46	0	0	0	9	5	32
PV 1	San Buenaventura	Hurehuapo	LPZ-ITU-SBV-HUR-8-S1-P1		Palo María	0.50				0.50	215	107	107	0	0	0	21	11	75
PV 1	San Buenaventura	Hurehuapo	LPZ-ITU-SBV-HUR-8-S2-P2		Palo román	0.10				0.10	303	30	30	0	0	0	6	3	21
PV 1	San Buenaventura	Hurehuapo	LPZ-ITU-SBV-HUR-8-S2-P2		Tejeque	0.40				0.40	231	92	92	0	0	0	18	9	65
PV 1	San Buenaventura	Hurehuapo	LPZ-ITU-SBV-HUR-8-S5-P3		Mara	0.01				0.01	249	2	2	0	0	0	0	0	2



PV 1	San Buenaventura	Hurehuapo	LPZ-ITU-SBV-HUR-8-S5-P3		Palo román	0.49				0.49	303	148	148	0	0	0	30	15	104
PV 1	San Buenaventura	La Esmeralda	LPZ-ITU-SBV-LEM-7-SL1-PL1		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87
PV 1	San Buenaventura	La Esmeralda	LPZ-ITU-SBV-LEM-7-SL2-PL2a		Verdolago negro (de ala)	0.30				0.30	278	84	84	0	0	0	17	8	58
PV 1	San Buenaventura	Mayge	LPZ-ITU-SBV-MAY-047-S1-P1		Teca	3.50				3.50	249	873	873	0	0	0	175	87	611
PV 1	San Buenaventura	Mayge	LPZ-ITU-SBV-MAY-047-S2-P2		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175
PV 1	San Buenaventura	Mayge	LPZ-ITU-SBV-MAY-047-S2-P3		Teca	0.09				0.09	249	22	22	0	0	0	4	2	16
PV 1	San Buenaventura	Mayge	LPZ-ITU-SBV-MAY-047-S2-P3		Tejeque	0.41				0.41	231	95	95	0	0	0	19	9	66
PV 1	San Buenaventura	Nueva Palestina	LPZ-ITU-SBV-NPL-1-S1-P1		Almendrillo	0.60				0.60	277	166	166	0	0	0	33	17	116
PV	San	Nueva	LPZ-		Alme	0.75				0.75	277	208	208	0	0	0	42	21	145



1	Buenaventura	Palestina	ITU-SBV-NPL-14-S2-P5		ndrill o														
PV 1	San Buenaventura	Nueva Palestina	LPZ-ITU-SBV-NPL-14-S2-P5		Palo román	0.03				0.03	303	9	9	0	0	0	2	1	6
PV 1	San Buenaventura	Nueva Palestina	LPZ-ITU-SBV-NPL-14-S2-P5		Tejeque	0.02				0.02	231	5	5	0	0	0	1	0	3
PV 1	San Buenaventura	Propiedad Privada	LPZ-ITU-SBV-SBP-002-S3-P3		Alme ndrill o	1.00				1.00	277	277	277	0	0	0	55	28	194
PV 1	San Buenaventura	Propiedad Privada	LPZ-ITU-SBV-SBP-004-S1-P1		Palo román	0.98				0.98	303	297	297	0	0	0	59	30	208
PV 1	San Buenaventura	Propiedad Privada	LPZ-ITU-SBV-SBP-004-S1-P1		Tejeque	0.02				0.02	231	5	5	0	0	0	1	0	3
PV 1	San Buenaventura	Propiedad Privada	LPZ-ITU-SBV-SBP-022-S1-P1		Teca	5.00				5.00	249	1,247	1,247	0	0	0	249	125	873
PV 1	San Buenaventura	Propiedad Privada	LPZ-ITU-SBV-SBP-05-S1-P1		Tejeque	1.00				1.00	231	231	231	0	0	0	46	23	161
PV 1	San Buenaventura	Propiedad Privada	LPZ-ITU-SBV-		Palo román	0.20				0.20	303	61	61	0	0	0	12	6	42



			SBP-06-S1-P1																
PV 1	San Buenaventura	Propiedad Privada	LPZ-ITU-SBV-SBP-06-S1-P2		Verdolago amarillo de ala	0.20				0.20	228	46	46	0	0	0	9	5	32
PV 1	San Buenaventura	Propiedad Privada	LPZ-ITU-SBV-SBP-06-S1-P3		Teca	0.20				0.20	249	50	50	0	0	0	10	5	35
PV 1	San Buenaventura	Propiedad Privada	LPZ-ITU-SBV-SBP-06-S2-P4		Palo román	0.71				0.71	303	215	215	0	0	0	43	22	151
PV 1	San Buenaventura	Propiedad Privada	LPZ-ITU-SBV-SBP-06-S2-P4		Teca	0.29				0.29	249	72	72	0	0	0	14	7	51
PV 1	San Buenaventura	Propiedad Privada	LPZ-ITU-SBV-SBP-37-VS1-PV1		Palo román	0.50				0.50	303	151	151	0	0	0	30	15	106
PV 1	San Buenaventura	Propiedad Privada	LPZ-ITU-SBV-SBP-37-VS2-PV2		Tejeque	0.50				0.50	231	115	115	0	0	0	23	12	81
PV 1	San Buenaventura	San Isidro	LPZ-ITU-SBV-SID-25-S1-P1		Teca	2.00				2.00	249	499	499	0	0	0	100	50	349
PV 1	San Buenaventura	San Isidro	LPZ-ITU-SBV-SID-37-S1-P1		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87
PV	San	San Isidro	LPZ-		Palo	0.50				0.50	303	151	151	0	0	0	30	15	106



1	Buenav entura		ITU- SBV- SID-37- S1-P2		romá n														
PV 1	San Buenav entura	San Isidro	LPZ- ITU- SBV- SID-44- S1-P1		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175
PV 1	San Buenav entura	San Isidro	LPZ- ITU- SBV- SID-48- S1-P1		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175
PV 1	San Buenav entura	San Silvestre	LPZ- ITU- SBV- SSR- 001-S2- P2		Alme ndrill o	0.49				0.49	277	136	136	0	0	0	27	14	95
PV 1	San Buenav entura	San Silvestre	LPZ- ITU- SBV- SSR- 001-S2- P2		Palo Marí a	0.01				0.01	215	2	2	0	0	0	0	0	2
PV 1	San Buenav entura	San Silvestre	LPZ- ITU- SBV- SSR- 001-S2- P3		Palo Marí a	0.10				0.10	215	21	21	0	0	0	4	2	15
PV 1	San Buenav entura	San Silvestre	LPZ- ITU- SBV- SSR- 001-S2- P3		Tejey eque	0.40				0.40	231	92	92	0	0	0	18	9	65
PV 1	San Buenav entura	San Silvestre	LPZ- ITU- SBV- SSR- 004-S1- P1		Teca	0.82				0.82	249	204	204	0	0	0	41	20	143
PV 1	San Buenav	San Silvestre	LPZ- ITU-		Tejey eque	0.18				0.18	231	41	41	0	0	0	8	4	29



	entura		SBV-SSR-004-S1-P1																
PV 1	San Buenav entura	San Silvestre	LPZ-ITU-SBV-SSR-004-S2-P2	Alme ndrill o	0.50				0.50	277	139	139	0	0	0	28	14	97	
PV 1	San Buenav entura	San Silvestre	LPZ-ITU-SBV-SSR-002-S1-P1a	Teca	0.50				0.50	249	125	125	0	0	0	25	12	87	
PV 1	San Buenav entura	San Silvestre	LPZ-ITU-SBV-SSR-02-S1-P1	Alme ndrill o	0.50				0.50	277	139	139	0	0	0	28	14	97	
PV 1	San Buenav entura	San Silvestre	LPZ-ITU-SBV-SSR-02-S1-P2	Tejey eque	0.50				0.50	231	115	115	0	0	0	23	12	81	
PV 1	San Buenav entura	San Silvestre	LPZ-ITU-SBV-SSR-11-S1-P1	Alme ndrill o	0.50				0.50	277	139	139	0	0	0	28	14	97	
PV 1	San Buenav entura	San Silvestre	LPZ-ITU-SBV-SSR-11-S1-P2	Tejey eque	0.50				0.50	231	115	115	0	0	0	23	12	81	
PV 1	San Buenav entura	Santa Ana	LPZ-ITU-SBV-STA-065-S1-P1	Teca	0.50				0.50	249	125	125	0	0	0	25	12	87	
PV 1	San Buenav entura	Santa Ana	LPZ-ITU-SBV-STA-	Palo romá n	0.04				0.04	303	12	12	0	0	0	2	1	8	



			065-S1-P2																
PV 1	San Buenaventura	Santa Ana	LPZ-ITU-SBV-STA-065-S1-P2		Teca	0.46				0.46	249	115	115	0	0	0	23	11	80
PV 1	San Buenaventura	Santa Ana	LPZ-ITU-SBV-STA-066-S1-P1		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175
PV 1	San Buenaventura	Santa Ana	LPZ-ITU-SBV-STA-067-S1-P1		Almendrillo	1.00				1.00	277	277	277	0	0	0	55	28	194
PV 1	San Buenaventura	Santa Ana	LPZ-ITU-SBV-STA-067-S1-P2		Tejeque	0.07				0.07	231	16	16	0	0	0	3	2	11
PV 1	San Buenaventura	Santa Ana	LPZ-ITU-SBV-STA-067-S1-P2		Palomán	0.43				0.43	303	130	130	0	0	0	26	13	91
PV 1	San Buenaventura	Santa Ana	LPZ-ITU-SBV-STA-07-S1-P1		Teca	2.00				2.00	249	499	499	0	0	0	100	50	349
PV 1	San Buenaventura	Santa Ana	LPZ-ITU-SBV-STA-07-S2-P2		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175
PV 1	San Buenaventura	Santa Ana	LPZ-ITU-SBV-STA-07-		Teca	1.00				1.00	249	249	249	0	0	0	50	25	175



			S2-P3																
PV 1	San Buenaventura	Santa Ana	LPZ-ITU-SBV-STA-50-S1-P1	Teca	1.00				1.00	249	249	249	0	0	0	50	25	175	
PV 1	San Buenaventura	Tumupasa	LPZ-ITU-SBV-TUM-003-S1-P1	Teca	1.00				1.00	249	249	249	0	0	0	50	25	175	
PV 1	San Buenaventura	Tumupasa	LPZ-ITU-SBV-TUM-025-S2-P2	Almendrillo	1.00				1.00	277	277	277	0	0	0	55	28	194	
PV 1	San Buenaventura	Tumupasa	LPZ-ITU-SBV-TUM-03-S1-P1a	Almendrillo	0.06				0.06	277	17	17	0	0	0	3	2	12	
PV 1	San Buenaventura	Tumupasa	LPZ-ITU-SBV-TUM-03-S1-P1a	Palo María	0.18				0.18	215	39	39	0	0	0	8	4	27	
PV 1	San Buenaventura	Tumupasa	LPZ-ITU-SBV-TUM-03-S1-P1a	Teca	0.56				0.56	249	140	140	0	0	0	28	14	98	
PV 1	San Buenaventura	Tumupasa	LPZ-ITU-SBV-TUM-03-S1-P1Bs	Teca	0.04				0.04	249	10	10	0	0	0		1	9	
PV 1	San Buenaventura	Tumupasa	LPZ-ITU-SBV-TUM-	Palo román	0.16				0.16	303	48	48	0	0	0	10	5	34	



			03-S1-P1Bs																
PV 1	San Buenaventura	Tumupasa	LPZ-ITU-SBV-TUM-10-S1-P1		Teca	0.50				0.50	249	125	125	0	0	0	25	12	87
PV 1	San Buenaventura	Tumupasa	LPZ-ITU-SBV-TUM-10-S1-P2		Tejejeque	0.25				0.25	231	58	58	0	0	0	12	6	40
PV 1	San Buenaventura	Tumupasa	LPZ-ITU-SBV-TUM-13-S1-P1		Teca	0.60				0.60	249	150	150	0	0	0	30	15	105
PV 1	San Buenaventura	Tumupasa	LPZ-ITU-SBV-TUM-14-S1-P1		Palo román	0.10				0.10	303	30	30	0	0	0	6	3	21
PV 1	San Buenaventura	Tumupasa	LPZ-ITU-SBV-TUM-14-S1-P1		Teca	1.40				1.40	249	349	349	0	0	0	70	35	244
PV 1	San Buenaventura	Capaina	LPZ-ITU-SBV-COP-04-S1-P1		Verdolago amarillo de ala				1.00	1.00	226	226	0	0	0	226	45	23	158
PV 1	San Buenaventura	Esmeralda	LPZ-ITU-SBV-ESM-18-S1-P1a		Teca				0.40	0.40	247	99	0	0	0	99	20	10	69
PV 1	San Buenaventura	Esmeralda	LPZ-ITU-		Palo román				0.4	0.40	301	120	0	0	0	120	24	12	84



	entura		SBV-ESM-18-S1-P2a		n				0										
PV 1	San Buenav entura	Nueva Palestina	LPZ-ITU-SBV-NPL-14-S1-P2		Teca				0.50	0.50	247	124	0	0	0	124	25	12	87
PV 1	San Buenav entura	Nueva Palestina	LPZ-ITU-SBV-NPL-14-S1-P3		Palo romá n				0.40	0.40	301	120	0	0	0	120	24	12	84
PV 1	San Buenav entura	Nueva Palestina	LPZ-ITU-SBV-NPL-14-S1-P3		Teca				0.05	0.05	247	12	0	0	0	12	2	1	9
PV 1	San Buenav entura	Nueva Palestina	LPZ-ITU-SBV-NPL-14-S1-P3		Tejey eque				0.05	0.05	228	11	0	0	0	11	2	1	8
PV 1	San Buenav entura	Propiedad Privada	LPZ-ITU-SBV-SBP-30-S1-P1		Teca				1.00	1.00	247	247	0	0	0	247	49	25	173
						142.40	1.00	2.75	50.60	196.75									34,996

			Net average GHG removal (CO2e/ha) over crediting period for Baseline			
Growth class	Scientific name	Common name	Perennial crops	Grassland	Grassland with trees	Annual crops
Medium	Aspidosperma macrocarpon	Jichituriqui	320.75	321.63	321.63	322.90



Slow	Buchenavia oxycarpa	Verdolago negro (pepa)	231.87	232.75	232.75	234.02
Medium	Calophyllum basiliense	Palo María	212.47	213.35	213.35	214.62
Medium	Centrolobium tomentosum	Tejeyeque	228.38	229.25	229.25	230.52
Slow	Dipteryx odorata	Almendrillo	274.94	275.81	275.81	277.08
Medium	Guarea rusby	Trompillo de altura	284.17	285.05	285.05	286.32
Fast	Schyzolobium amazonicum	Serebo	246.14	247.01	247.01	248.28
Fast	Stryphnodendron purpureum	Palo yugo	261.34	262.21	262.21	263.48
Medium	Tapirira guianensis	Palo román	300.69	301.57	301.57	302.84
Medium	Tectona grandis	Teca	247.24	248.11	248.11	249.38
Slow	Terminalia amazonica	Verdolago negro (de ala)	276.33	277.21	277.21	278.47
Slow	Terminalia oblonga	Verdolago amarillo de ala	226.22	227.10	227.10	228.36
Medium	Virola flexuosa	Gabún	200.77	201.64	201.64	202.91

		Strata				Total average GHG removal (tCO2e)	Plan Vivo Buffer (tCO2e)	Retained by ArBolivia (tCO2e)	Total ex ante credits for sale (tCO2e)
Specie	Common name	Annual	Grassland	Perennial	Grassland with trees				
Buchenavia oxycarpa	Verdolago negro (pepa)	257		232		489	49	98	343
Calophyllum basiliense	Palo María	1,567	128	285	213	2,193	219	439	1,535
Centrolobium tomentosum	Tejeyeque	3,186		3,480		6,666	667	1,333	4,666
Dipteryx odorata	Almendrillo	5,533		4,201		9,734	973	1,947	6,814
Guarea rusby	Trompillo de altura	458		1,975		2,433	243	487	1,703
Hymenaea courbaril	Paquio	211				211	21	42	147



Schizolobium amazonicum	Serebo	124				124	12	25	87
Tapirira guianensis	Palo román	2,898	-	241	15	3,154	315	631	2,208
Tectona Grandis	Teca	18,018		1,041		19,059	1,906	3,812	13,341
Terminalia amazonica	Verdolago negro (de ala)	913		597	208	1,718	172	344	1,203
Terminalia oblonga	Verdolago amarillo de ala	936		226		1,163	116	233	814
Virola flexuosa	Gabún	97		60	91	248	25	50	174
Stryphnodendron purpureum	Palo yugo	1,826	105	476		2,406	241	481	1,685
Total general		36,025	233	12,813	527	49,599	4,960	9,920	34,719

Specie	Common name	Net average GHG removal (CO ₂ e/ha) over crediting period per Baseline				Total surface (ha)
		Annual	Grassland	Grass w/trees	Perennial	
Buchenavia oxycarpa	Verdolago negro (pepa)	256	-	-	232	488
Calophyllum brasiliense	Palo María	1.355	128	215	285	1.982
Centrolobium tomentosum	Tejeyequé	3.171	-	-	3.480	6.651
Dipteryx odorata	Almendrillo	5.202	-	-	4.201	9.403
Guarea rusby	Trompillo de altura	456	-	-	1.975	2.431
Hymenaea courbaril	Paquio	211				211
Schizolobium amazonicum	Serebo	124	-	-	-	124
Stryphnodendron purpureum	Palo yugo	1.820	105	-	476	2.400
Tapirira guianensis	Palo román	2.850	-	15	241	3.106
Tectona grandis	Teca	17.914	-	-	1.041	18.955
Terminalia amazonica	Verdolago negro (de ala)	901	-	209	569	1.679
Terminalia oblonga	Verdolago amarillo de ala	931	-	-	226	1.157
Virola flexuosa	Gabún	97	-	91	60	248
Total		35.286	233	530	12.786	48.835



Annex 3: Recommendations for farmers

Available upon request