

Banegas - Q4 2022 Quarterly report





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Recap of the Project's basic information

Restoration technique

So far, Banagas is using three different nurseries to provide seedlings for its restoration project: (i) vivero del Grupo de Monitoreo en Rancho Quemado, (ii) vivero de Fundación Saimiri en La Palma, (iii) vivero de Osa Conservación en Piro.

All nurseries are located on the Osa Peninsula and produce native species, adapted to the climate and conditions of the tropical rainforest.

Of the 1901 trees currently planted, 1000 were donated by the Osa Conservation nursery in Piro and 901 have been purchased from the Rancho Quemado nursery and the Saimiri Foundation, thus generating income through the project for local nurseries in the area.

The restoration technique used is **active restoration**, through the planting of native forest species in a paddock area.

Fundacion Corcovado continues to work in the first process of restoration. The purpose of this first phase is to improve the conditions for the establishment of natural regeneration. It is also intended that these native species suppress the grasses by shading and provide fruit to seed dispersers, favouring the repopulation of the natural vegetation and creating the necessary conditions so that species native to the zone, but with other ecological requirements different to the current conditions of the terrain, can grow in the restored area, reproducing in the future a plant composition equal to that of the nearby forest (reference ecosystem).

In this phase of the restoration process, we are planting mainly native heliophyte species, both ephemeral and durable, and some scyophyte species in the shaded areas bordering the forest. The goal of planting heliophyte species is to generate the conditions of shade and organic matter required in the soils so that other slower growing species, that require shade conditions, can begin to develop in the future.

Before planting, all trees are first marked with flaging tape. The tree species is written on the flaging tape, so that it is easier to attach the aluminium plate to the tree later on in order to record and monitor the different species.



Reforested area

At present, the reforested area is of approximately 2 hectares. Within these two hectares, there's: (i) an area close to the river, which is a flood zone of the river, (ii) a water source, (iii) and areas with a steep slope.

Approximately 2 more hectares remain to be reforested.

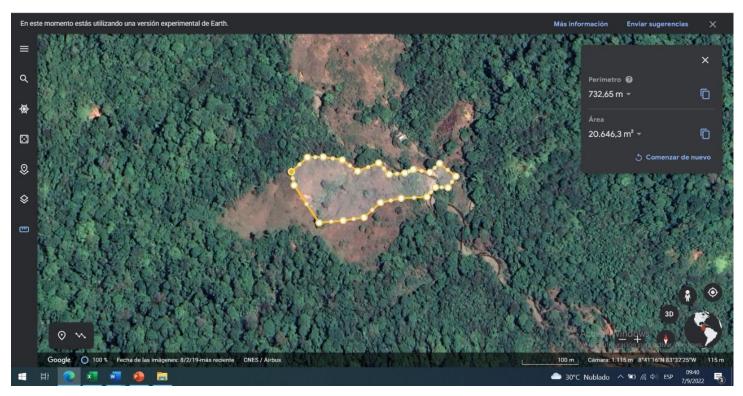


Image 1: Project's restoration area

Fresh from this Quarter!

Tree species planted and mortality rate

A total of 1901 trees have now been planted. The mortality rate is very low, only 2.32%. It's believed that this mortality rate has been possible because planting was done in the rainy season and the trees didn't suffered hydrological stress. Good maintenance given to the saplings, always keeping them in a clean round, without competition from other plant species that take away light or nutrients, has also largely contributed to the near 2% result. This rate can change with the dry season, hydrological stress is much higher.

At present 72 different tree species were planted.



				Planted up
			Planted up	to Dec
		Common Name	to Aug 2022	_
	Scientific Name		(last report)	report)
1	Albizia julibrissin	Albizia	25	25
2	Anacardium excelsum	Espavel	43	43
3	Andira inermis	Almendro de rio	61	92
4	Apeiba tibourbou	Peine de mico	2	2
5	Artocarpus altilis	Castaña	_	30
		Pejibaye de		
6	Astrocaryum standleyanum	montaña	5	5
7	Bixa orellana	Achiote	1	1
8	Bromisum costaricanum	Vaco	24	51
9	Brosimun utille	Vaco u	_	29
10	Bunchosia sp	Cerezo	6	6
11	Calophyllum brasiliense	Cedro Maria	2	2
12	Caryocar-Costa Rican	Ajo blanco	1	1
13	Cecropia sp.	Guarumo	106	112
14	Cedrela odorata	Cedro amargo	69	118
15	Ceiba penthandra	Ceiba	2	22
16	Chrysophyllum cainito	Caimito	1	1
17	Cytarexylum	N.I.	-	6
18	Clarisia biflora	N.I.	-	20
19	Cojoba Arborea	Lorito	40	40
20	Cojoela odorata	Cojoba	1	1
21	Conostegia subcrustulata	Lengua de vaca	1	1
22	Copaifera camibar	Camibar	1	1
23	Cupania rufescens	Guavillo	25	25
24	Dalbergia retusa	Cocobolo	7	7
25	Dilondendron costarricensis	Iguano	1	26
26	Diphysa americana	Guachipelin	26	26
		Almendro de		
27	Dipteryx panamensis	montaña	121	121
28	Dussia macroprophyllata	Frijolon	31	77
29	Enterolobium cyclocarpum	Guanacaste	31	70
30	Ficus sp.	N.I.	5	5
31	Genipa americana	Guaitil	-	26
32	Guazuma ulmifolia	Guasimo	1	2
	Handroanthus	Cortez negro		
33	impetiginosus	Oortoz riegio	42	42
34	Hevea brasiliensis	Hule	1	1



36 Hymenaea courbaril Guapinol 29 29 37 Igna sp. Guaba 43 43 43 38 Inga chilillo N.I. - 4 44 49 Inga punctata N.I. - 11 44 Inga saindoides Guaba - 21 42 Inga sp. N.I. - 9 43 Laurus nobilis Laurel 60 60 60 60 60 60 60 6	35	Castile rubber	Castilla elastica	1	1
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33 Inga chilillo					
198 Inga multijuga		i -		-	
40 Inga punctata				_	
At Inga saindoides				_	1
42 Inga sp NI. - 9 43 Laurus nobilis Laurel 60 60 44 Lecointea amazonica Costilla de danto 1 1 45 Licania platypus Zapote mechudo 25 29 46 Lonchocarpus yoroensis Chaperno 1 1 47 Luehea divaricata Sota 10 10 48 Luhea seemani colorado 1 1 49 Miconia sp. Lengua de vaca 4 4 50 Minquartia guianensis Manu cuajado 27 33 51 Muntingia calabura Capulin 5 5 52 N.I. N.I. - 87 53 Ochroma pyramidale Balso 23 25 54 Palicourea lasiorrhanchis. Cafesillo 16 16 55 Piper sp. Anisillo 6 6 6 Platymiscium parviflorum Cristóbal 35 35 57 Pouteria sapota Pouteria 33 53 58 Psychotria sp N.I. 1 1				_	28
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54 Palicourea lasiorrhanchis. Cafesillo 16 16 55 Piper sp. Anisillo 6 6 56 Platymiscium parviflorum Cristóbal 35 35 57 Pouteria sapota Pouteria 33 53 58 Psychotria sp N.I. 1 1 59 Pterocarpus sp. Sangrillo 3 3 60 Rutensas sp. N.I. 1 1 61 Samanea saman Cenizaro 2 32 62 Schizolobium parahyba Gallinazo 89 142 63 Senna reticulata Saragundi 9 9 64 Simarouba amara Aceituno 6 6 65 Spondias mombin Jobo 26 27 66 Symphonia globulifera Cerillo 3 3 67 Tabebuia impetiginosa Cortes negro 20 24 68 Tabebuia rosea Roble sabana 25 45 69 Tapirira sp. Cedrillo 5 5 70 Terminalia catappa Fruta dorada 46	53	Ochroma pyramidale	Balso	23	25
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58 Psychotria sp N.I. 1 1 59 Pterocarpus sp. Sangrillo 3 3 60 Rutensas sp. N.I. 1 1 61 Samanea saman Cenizaro 2 32 62 Schizolobium parahyba Gallinazo 89 142 63 Senna reticulata Saragundi 9 9 64 Simarouba amara Aceituno 6 6 65 Spondias mombin Jobo 26 27 66 Symphonia globulifera Cerillo 3 3 67 Tabebuia impetiginosa Cortes negro 20 24 68 Tabebuia rosea Roble sabana 25 45 69 Tapirira sp. Cedrillo 5 5 Almendro de 70 Terminalia catappa Fruta dorada 46	56	Platymiscium parviflorum	Cristóbal	35	35
59 Pterocarpus sp. Sangrillo 3 3 60 Rutensas sp. N.I. 1 1 61 Samanea saman Cenizaro 2 32 62 Schizolobium parahyba Gallinazo 89 142 63 Senna reticulata Saragundi 9 9 64 Simarouba amara Aceituno 6 6 65 Spondias mombin Jobo 26 27 66 Symphonia globulifera Cerillo 3 3 67 Tabebuia impetiginosa Cortes negro 20 24 68 Tabebuia rosea Roble sabana 25 45 69 Tapirira sp. Cedrillo 5 5 Almendro de playa 6 6 70 Terminalia catappa playa 6 6 71 Virola crysocarpa Fruta dorada 46	57	Pouteria sapota	Pouteria	33	53
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61 Samanea saman Cenizaro 2 32 62 Schizolobium parahyba Gallinazo 89 142 63 Senna reticulata Saragundi 9 9 64 Simarouba amara Aceituno 6 6 65 Spondias mombin Jobo 26 27 66 Symphonia globulifera Cerillo 3 3 67 Tabebuia impetiginosa Cortes negro 20 24 68 Tabebuia rosea Roble sabana 25 45 69 Tapirira sp. Cedrillo 5 5 Almendro de playa 6 6 70 Terminalia catappa playa 6 6 71 Virola crysocarpa Fruta dorada 46	59	Pterocarpus sp.	Sangrillo	3	3
62 Schizolobium parahyba Gallinazo 89 142 63 Senna reticulata Saragundi 9 9 64 Simarouba amara Aceituno 6 6 65 Spondias mombin Jobo 26 27 66 Symphonia globulifera Cerillo 3 3 67 Tabebuia impetiginosa Cortes negro 20 24 68 Tabebuia rosea Roble sabana 25 45 69 Tapirira sp. Cedrillo 5 5 Almendro de 70 Terminalia catappa playa 6 6 71 Virola crysocarpa Fruta dorada 46	60	Rutensas sp.	N.I.	1	1
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64 Simarouba amara Aceituno 6 6 65 Spondias mombin Jobo 26 27 66 Symphonia globulifera Cerillo 3 3 67 Tabebuia impetiginosa Cortes negro 20 24 68 Tabebuia rosea Roble sabana 25 45 69 Tapirira sp. Cedrillo 5 5 Almendro de 70 Terminalia catappa playa 6 6 71 Virola crysocarpa Fruta dorada 46	62	Schizolobium parahyba	Gallinazo	89	142
65 Spondias mombin Jobo 26 27 66 Symphonia globulifera Cerillo 3 3 67 Tabebuia impetiginosa Cortes negro 20 24 68 Tabebuia rosea Roble sabana 25 45 69 Tapirira sp. Cedrillo 5 5 Almendro de playa 6 6 70 Terminalia catappa playa 6 6 71 Virola crysocarpa Fruta dorada 46	63	Senna reticulata	Saragundi	9	9
66 Symphonia globulifera Cerillo 3 3 67 Tabebuia impetiginosa Cortes negro 20 24 68 Tabebuia rosea Roble sabana 25 45 69 Tapirira sp. Cedrillo 5 5 Almendro de playa 6 6 70 Terminalia catappa playa 6 6 71 Virola crysocarpa Fruta dorada 46	64	Simarouba amara	Aceituno	6	6
67 Tabebuia impetiginosa Cortes negro 20 24 68 Tabebuia rosea Roble sabana 25 45 69 Tapirira sp. Cedrillo 5 5 Almendro de playa 6 6 71 Virola crysocarpa Fruta dorada 46	65	Spondias mombin	Jobo	26	27
68 Tabebuia rosea Roble sabana 25 45 69 Tapirira sp. Cedrillo 5 5 Almendro de playa 6 6 71 Virola crysocarpa Fruta dorada 46	66	Symphonia globulifera	Cerillo	3	3
69 Tapirira sp. Cedrillo 5 5 Almendro de 70 Terminalia catappa playa 6 6 71 Virola crysocarpa Fruta dorada 46	67	Tabebuia impetiginosa	Cortes negro	20	24
Almendro de 70 Terminalia catappa playa 6 6 71 Virola crysocarpa Fruta dorada 46	68	Tabebuia rosea	Roble sabana	25	45
70Terminalia catappaplaya6671Virola crysocarpaFruta dorada46	69	Tapirira sp.	Cedrillo	5	5
71 <i>Virola crysocarpa</i> Fruta dorada 46			Almendro de		
	70	Terminalia catappa	playa	6	6
72 <i>Virola sp</i> Fruta dorada 11 11	71	Virola crysocarpa	Fruta dorada		46
	72	Virola sp	Fruta dorada	11	11

1238 1900



Total Trees planted	1900		
Dead	44	2,32%	
Trees present	1856	97,68%	

Reforestation campaigns and participation

Nine reforestation campaigns were carried out, eight of them with the support of national and international volunteers together with the Fundacion Corcovado's staff. In the last reforestation campaign, neighbours of the area to be restored were paid for planting the trees.

		Number			
Reforested		of trees	Number of	Participating	
farm	Date	planted	participants	groups	Quarter of activity
				Neighbours of	
				Banegas,	
				children's	
				environmental	
				group Los	
R.F.G.D	23/11/	97	18	Periquitos and	
Banegas	2021	37	10	members of the	
				Rancho	
				Quemado	
				wildlife	
				monitoring	Q3/2022
				group.	(november report)
				FunCorco staff	
				and	
R.F.G.D	5/5/2			international	Q3/2022
Banegas	022	159	9	volunteers	(november report)
				FunCorco staff	
				and community	
				leaders from	
				Progreso	
				and students	
R.F.G.D	5/6/2			from Drake High	Q3/2022
Banegas	022	248	39	School.	(november report)
R.F.G.D	7/7/2			Foundation staff	Q3/2022
Banegas	022	124	8	and local and	(november report)



				international	
				volunteers	
				Foundation staff,	
				junior rangers	
				from Drake	
				College and	
R.F.G.D	30/7/			international	Q3/2022
Banegas	2022	500	33	volunteers.	(november report)
				Foundation staff,	
				international	
R.F.G.D	19/8/			and local	Q3/2022
Banegas	2022	110	13	volunteers	(november report)
				Foundation staff	·
				and local	
				volunteers, the	
R.F.G.D	6/9/2			natur fund for	Q4/2022
Banegas	022	240	23	costa rica	(february report)
				Foundation staff,	
				social educator,	
				volunteers	
				Rebeca and	
R.F.G.D	16/9/			community	Q4/2022
Banegas	2022	260	11	members	(february report)
R.F.G.D	26/9/			Don Vicente and	Q4/2022
Banegas	2022	163		his son	(february report)
	Total	1901	154		
				1	







Images 2 and 3: September 2022 planting



Restoration monitoring

15 monitoring tours have been carried out to keep track of tree development, growth and mortality (Attached Excel file).

In addition, 6 camera traps were installed. Four in the area to be restored and two inside the forest, allowing to monitor how the fauna evolves during the restoration process.

These cameras are checked once a month, but due to the large amount of precipitation from October to December 2022, the cameras had to be removed due to moisture problems.



Image 4: Camera trap installation

Heavy rain also impacted the farm monitoring as one of the access bridges was washed away and could not be repaired until December.

The developer is establishing monitoring plots and protocol to allow tree monitoring.







Images 5 and 6: Field monitoring visit in December 2022