I. N. I. A. P

ESTACION EXPERIMENTAL TROPICAL PICHILINGUE
COCOA RESEARCH AND TECHNOLOGY TRANSFER TEAM

SPECIFIC COOPERATIVE AGREEMENT INIAP-USDA (ARS): 58-6631-2-F077

PROJECT: GERMPLASM EVALUATION, BREEDING AND PHYTOPATHOLOGICAL STUDIES FOR OBTAINING IMPROVED COCOA VARIETIES

TECHNICAL PROGRESS REPORT
YEAR 7 (April 1/2009-March 30/ 2010)

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An overview of the comparative clone trial established in Lote Las Tecas

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INTRODUCTION

The Project is made up of the following structural Components: Germplasm evaluation, Breeding and Phytopathological studies. Project activities started on May 2002 with one main objective: to obtain high yielding cocoa varieties that exhibit disease resistance and flavour quality. We are attempting to do this by developing and using the genetic resources currently available at the Estación Experimental Tropical Pichilingue of INIAP. The achievement of the proposed objective will certainly make a significant contribution to overcome one of the factors responsible for the low cocoa productivity in Ecuador, that is the presence of poor yielding fine or flavour cocoa varieties.

This Report covers the project´s results for the period April 2009-March 2010. Description and explanation of the results are supported by corresponding Tables and Figures containing relevant data. For ease of text organization Tables and Figures are sequentially arranged in the Annex and are gradually referred to as the report progresses. When necessary, statements on previous results and perspectives pointing out to future activities are inserted into the text. This is to provide context and improve the reader´s comprehension of the document.

Germplasm Evaluation

CGN Collection

Data recording activity was extended up to December 2009 (**Table 1**) and discontinued afterwards. The CGN collection is currently under routine maintenance. It should be noted that as result of the past characterization and evaluation work on this Collection, four Nacional type cocoa varieties were selected, validated and released for commercial planting during 2009 (**See Figures 1 and 2**). Under intensive technological management which includes irrigation and adequate manuring, these released varieties yield as much as CCN 51, a highly productive clone used as a control. Even more, two clones of this collection (EET 559 y EET 577) have been additionally selected for validation testing in a farmer´s field. If a decision is taken in the future to release them as new varieties, this improved planting material will benefit an important cocoa growing zone in the southern part of the Guayas river basin.

In recent years, the genetic variability of the CGN Collection has been enriched by the addition of new genotypes. These have been selected and introduced from farmer´s fields as well as from local breeding populations. **Figure 3** shows a field map and a list of the genotypes that have been gradually introduced, though some of them are not necessarily of the Nacional type. We have plans to recruit a student who will carry out a phenotypic evaluation of the new introductions to identify clones worth of further development. Of

particular interest are a group of clones known as the "super arboles" selected from farmer´s fields in the northern Amazon region of Ecuador. These are reported to be high yielding.

Allen Collection

This Collection is currently undergoing routine maintenance. Some data recording activity began in late 2009 for the oldest introduced accessions. Duplication and planting of all the Allen Collection genotypes originally established in the E. E. Central Amazónica (earlier known as E. E. Napo-Payamino) was successfully completed during this year. An almost complete duplicate with 727 genotypes was set up in the E. E. Pichilingue. It represents a valuable genetic resource that has a promising potential for breeding, potential that will be unveiled in the next few years after completing full characterizations studies.

Tables 2, 3, 4, 5 and 6 list all the accessions in this Collection as well as the year of planting for the different breeding groups, to emphasize the fact that the distinct genotypes were gradually introduced to the E. Pichilingue. That is why field transplanting was carried out at different times. As stated earlier, recording of dry bean weight and other phenotypic data is already ongoing for the oldest accessions, particularly for those introduced during 1997 and 2005. Results for this activity will be shown in the next Progress Report.

Chalmers Collection

This Collection is also undergoing routine maintenance. Though the accessions compounding this Collection have been fully characterized, morphologically as well as genetically, the question about the possible presence of fine or flavor genotypes among these clones is frequently raised. It has been observed that some of them have white or pale beans which might be associated to aromatic type cocoas. In early 2010 a student was hired in to start a physical, chemical and sensorial study of some of these clones. Results will be show in the next Progress Report.

Criollo type Collection

A new Collection was set up in the E.E. Pichilingue during 2009. This is compounded by cocoa genotypes collected from farmer´s fields located in the north eastern part of the Provincia of Esmeraldas. Most of the trees were identified and propagation material (budsticks and pods) collected using typical criollo morphological characters as discriminating criteria for selection. The aim of this collecting activity was to enrich INIAP's cocoa germplasm bank with possible criollo alleles present in these accessions. This Collection represents a valuable genetic resource to devise and execute further breeding initiatives. The aim is to breed and improve the genetic basis of future commercial fine or

flavour cocoa cultivars, particularly suited for the area where the original genotypes were collected. **Table 7** and **Table 8** lists the accessions.

Evaluation of old hybrid cocoa progenies

Evaluation of old coca hybrid population

Data recording on six 41 years old hybrid populations, each compounded by progenies from the crosses EET 95 x SIL 1, SCA 12 x Unknown, SCA 6 x SIL 1, SCA 12 x SIL 5, SCA 12 x SIL 1 and SCA 6 x SIL 5, continues. A database overview accompanied by some preliminary analysis exercises shows promising opportunities to select for yield. Some of the trees are characterized by a low pod diseases incidence, particularly within the populations of the first two crosses.

An analysis about Moniliasis incidence data produced the information shown in **Table 9**. On average the progeny from SCAVINA 12 x SIL 1 exhibits the higher percentage of individuals with less than 15% Moniliasis incidence. The progeny from SCA 12 x SIL 5 shows trees with the lowest Moniliasis incidence. Unfortunately, most of the individuals of this family happen to be low yielding trees, usually exhibiting seed index values which are less than 1g. A further analysis to identify high yielding trees associated with Moniliasis resistance is ongoing. More results from this analysis will be shown in the next Progress Report.

Breeding for Witches' broom resistance

First Breeding scheme

Field transplanting of clones from selected hybrid seedlings compounding groups 1 and 2 of the populations generated by this first breeding scheme is complete. As earlier reported, planting of first plants took place by mid 2006. These are developing normally in the so called Lote "Las Tecas" (698 clones, four replications, three plants per plot). **Table 10** shows yield, sanitary and other data registered during 2009. The top five yielding clones so far are: Gloria 17 x EB 2237; Amazon 14 x EBC 148; EET 387 x A 645; SIL 1 x B 60; CCN 51 x TAP 3. They exhibit accumulated fresh bean weight values ranging from 2.8 to 3.9 kg per plant. Being an early bearing clone, it is a surprise that CCN 51 is not within this group yet and ranks 10th. Apparently, more precocious clones may emerge from this trail.

In general, the top yielding clones are affected by a low disease incidence level, particularly on pods. With the plants approaching four years in the field this low disease incidence is clearly a positive sign. In fact, a visual overview of the whole field shows that

average disease incidence in plants looks moderate to low. The question is raised about the possibility that this may rise as plants grow older. We still have to wait and see.

By mid 2009 a clone selection based on several traits of interest was completed. This selection was made even though some felt it was too early to take this step. Six clones were selected and multiplied to obtain 200 plants per clone. Multiplication was conducted gradually since not all clones were able to produce the necessary budsticks at the same time. As the planting material was made available 100 plant plots were set up for each clone.

We ended up with a comparative clone trial with two replications and 16 clones. This total includes other superior selections (products of the so called IPGRI cocoa project finalized in 2009), as well as the controls EET 103 and CCN 51. The objective of this move was to gain time for the validation of the selected clones planted in larger plots. Based on these plots, planning for a cocoa field day within the next 5 years in order to release, at least a couple of new improved high yielding cocoa varieties, for the benefit of producers in the zone of Quevedo (an important cocoa producing zone), is a real possibility.

During 2009, in the so called Lote "Ganaderìa", field planting of a few remaining clones, all of them from selected hybrid seedlings compounding group 3 and 4 of the hybrid populations generated by the first breeding scheme, was completed (420 clones, four replications, three plants per plot). These are developing normally. **Table 11** shows yield, sanitary and other data registered during 2009.

The top five yielding clones in the Lote Ganaderia belong to the families: AMAZ 11 x TAP 6; CCN 51 x TIP 1; CCN 51 x 2057, TAP 6 x UNAP 2 and CCN 51 x TIP 1. They exhibit accumulated fresh bean weight values ranging from 2.8 to 3.9 kg per plant. CCN 51 stands far away from the commanding group. In general, these clones were affected by a low disease incidence, particularly on pods. The number of witches´ brooms per plant ranges from 2.0 to 4.5. It is notorious the high number of cushion brooms in the top yielding hybrid clone, AMAZ 11 x TAP 6. Though yield results seem promising so far it is too early to put ahead any conclusion about possible superior clones.

Second Breeding scheme

Land preparation and shade planting was completed during 2009 in the so called Lote "Las Malvinas". Field planting of first clones made from seedlings selected in hybrid populations (group 5, 6, 7) generated by the second breeding scheme, began early in 2010. **Figure 4** shows the hybrid clones participating in this trial the way they will be distributed in the field once planting is completed. **Figure 5** provides an overview of the

current field situation of this trial after the first plantings. Meanwhile, multiplication of the remaining selections continues to continue planting in the next future.

Phytopathological studies

The effect of inoculum concentration of *M. perniciosa* and the size of the flush were studied on the efficiency of three early testing methods to detect the presence and incidence level of this disease: SAI (Belt spray), Agar-drop and Modified Holliday methods. With this objective in mind seedlings of the genotypes SCA 6, SCA 12 (known for their resistance to witches' broom), CCN 51 (moderate resistance), GU 175 and EET 95 (susceptible) were compared. The effect of the factors studied was measured using the following parameters: disease incidence, incubation period, broom diameter at the base and broom length. Only the SAI and Agar-drop methods discriminated for levels of resistance and susceptibility of the cocoa progenies under evaluation.

These responses were obtained using 25,000 spores per ml of inoculum and plantlets in which the youngest leaves length ranged from 2.2 to 3.0 mm. The disease incidence contributes greater to the variability observed in response to the factors applied. This was followed by the length of the period of incubation as the second most contributing factor to this variability.

Based on this and earlier pieces of work along this line of research, the following scientific papers have been written: 1) Effect of spore concentration and flush size on inoculation techniques for early screening test of witches´ broom on cocoa; 2) Comparison of methods for early evaluation of resistance to witches´ broom *(Moniliopthora perniciosa)* in cocoa *(Theobroma cacao L.)*; and 3) To establish levels of resistance of cocoa cultivars of the forastero type against *Ceratocystis cacaofunesta* in laboratory and field conditions". These documents have been shared with the USDA-Mars scientific team for reviewing and feedback.

ANNEX 1

Table 1. Resultados acumulados de rendimiento y otras variables registradas durante el periodo 2006/2009 en la Colección de cacao tipo Nacional (CGN). Estación Experimental Tropical Pichilingue, INIAP.

Código EET	Clon	Frutos Ssnos	Frutos Enfermos	Frutos con Monilia	Frutos con Marchitez	No. Escoba de Bruja Vegetativa	No. Escoba de Bruja de Cojinete	No. Frutos Chirimoya	Peso seco/árbol (kg)
Sin Código	CCAT-05	258	60	54	142	18	3	2	12.84
577	CCAT-4998	177	39	38	121	82	25	11	8.44
525	EB-2003	196	11	5	156	138	2	3	8.44
574	CCAT-4668	200	47	43	213	68	11	5	7.96
559	CCAT-2664	212	46	54	116	34	6	10	7.65
544	CCAT-1119	178	48	48	213	56	2	3	7.59
575	CCAT-4675	159	30	26	155	102	38	16	7.45
513	EB-1011	227	25	13	103	46	3	3	7.22
567	CCAT-4265	180	33	43	86	44	13	25	6.87
Sin Código	CCAT-2	154	22	11	32	4	3	0	6.77
572	CCAT-4584	178	23	31	170	27	1	3	6.52
550	CCAT-2143	126	15	7	102	90	9	7	6.50
571	CCAT-4583	168	38	46	123	34	11	6	6.47
547	CCAT-1858	141	22	15	151	61	6	4	6.39
553	CCAT-2341	129	20	22	95	72	7	2	6.18
558	CCAT-2564	161	30	41	80	64	10	28	6.13
563	CCAT-3345	141	24	18	211	121	13	4	5.81
Sin Código	SIN PLACA 1	164	15	16	251	80	9	1	5.80
549	CCAT-1934	140	15	6	85	33	2	4	5.78
576	CCAT-4688	135	28	24	105	55	23	11	5.63
517	EB-1516	134	18	11	109	59	10	4	5.47
516	EB-1203	170	39	29	143	37	1	1	5.42
561	CCAT-3061	139	18	22	100	30	7	6	5.41
582	CCAT-52121	137	32	27	96	20	1	0	5.29
552	CCAT-2240	135	40	27	283	74	18	3	5.06
547	CCAT-1858B	111	17	10	142	64	8	2	5.06
543	FIDENCIO	96	24	20	89	32	0	1	5.02
560	CCAT-3050	137	31	26	173	117	36	13	4.97
Sin Código	CCAT-1916	98	40	35	52	63	41	4	4.97
507	BCH-14	104	11	6	41	54	4	8	4.92
560	CCAT-3050A	140	9	3	202	56	11	2	4.83
512	EB-1010	108	18	9	238	33	4	1	4.71
562	CCAT-3260	127	9	6	72	91	10	4	4.67
581	CCAT-5206	105	20	16	51	27	2	2	4.29
527	EB-2009	99	15	4	34	57	3	0	4.24
566	CCAT-4260	77	18	4	62	66	36	1	4.09
538	EB-2237	85	13	9	45	56	4	2	4.05
578	CCAT-5064	105	21	13	122	87	24	8	4.01
510	EB-0402	109	15	6	71	219	15	26	3.92
574	CCAT-4668A	100	26	6	299	71	29	2	3.71
537	EB-2236	80	23	15	37	92	12	3	3.69
587	SA-8	73	11	3	20	23	4	5	3.62
536	EB-2233	74	11	6	46	48	7	7	3.48
521	EB-1922	89	10	7	79	53	5	2	3.47
519	EB-1915	81	18	11	110	35	3	1	3.33
533	EB-2222	79	12	5	62	54	3	3	3.32
564	CCAT-3407	62	8	2	34	98	17	1	3.17
582	CCAT-5212	65	14	7	47	28	7	1	3.03
555	CCAT-2349	57	10	5	20	49	11	2	2.74
Sin Código	CCAT-1928	77	13	8	53	58	14	6	2.72
Sin Código	SIN PLACA 2	74	5	2	68	15	7	0	2.69
583	CCAT-5477	71	6	2	47	39	18	2	2.59
Sin Código	EB-2250	65	10	4	43	105	43	14	2.59
534	EB-2225	60	8	4	87	9	1	0	2.49
503	BCH-9	50	16	5	21	38	4	2	2.44
Sin Código	CCAT-01	60	4	3	124	6	0	0	2.21
545	CCAT-1201	43	7	2	34	71	129	6	2.16
Sin Código	CCAT-1915	58	9	3	112	22	2	0	2.13
568	CCAT-4364	45	4	2	26	50	8	0	2.04
580	CCAT-5136	57	4	2	56	32	2	1	2.00
573	CCAT-4650	38	4	2	54	15	8	0	1.94
Sin Código	EB-1617	44	10	5	36	53	0	1	1.78
509	EB-0104	32	6	5	45	47	27	5	1.58
511	EB-0501	39	8	2	51	37	1	1	1.50
Sin Código	CCAT-1817	29	2	1	20	28	2	1	1.36
Sin Código	EET-233	35	2	0	164	19	3	0	1.22
535	EB-2229	25	7	3	9	45	3	1	1.06
Sin Código	EET-387	26	4	6	88	19	4	1	1.05
529	EB-2102	29	2	1	21	40	8	2	1.04
Sin Código	CCAT-1914	22	3	3	30	14	5	0	0.90
556	CCAT-2363	24	4	0	53	10	3	2	0.85
548	CCAT-1930	17	2	1	22	39	3	1	0.59
Sin Código	EB-0401	18	4	1	20	106	27	3	0.58
Sin Código	BETANIA	8	1	1	8	41	1	0	0.31
Sin Código	SIN PLACA 3	0	0	0	0	6	0	0	0.19
514	EB-1013	5	2	0	1	0	0	0	0.16

Fig. 3. NUEVAS INTRODUCCIONES DE CACAO EN LA COLECCIÓN CGN

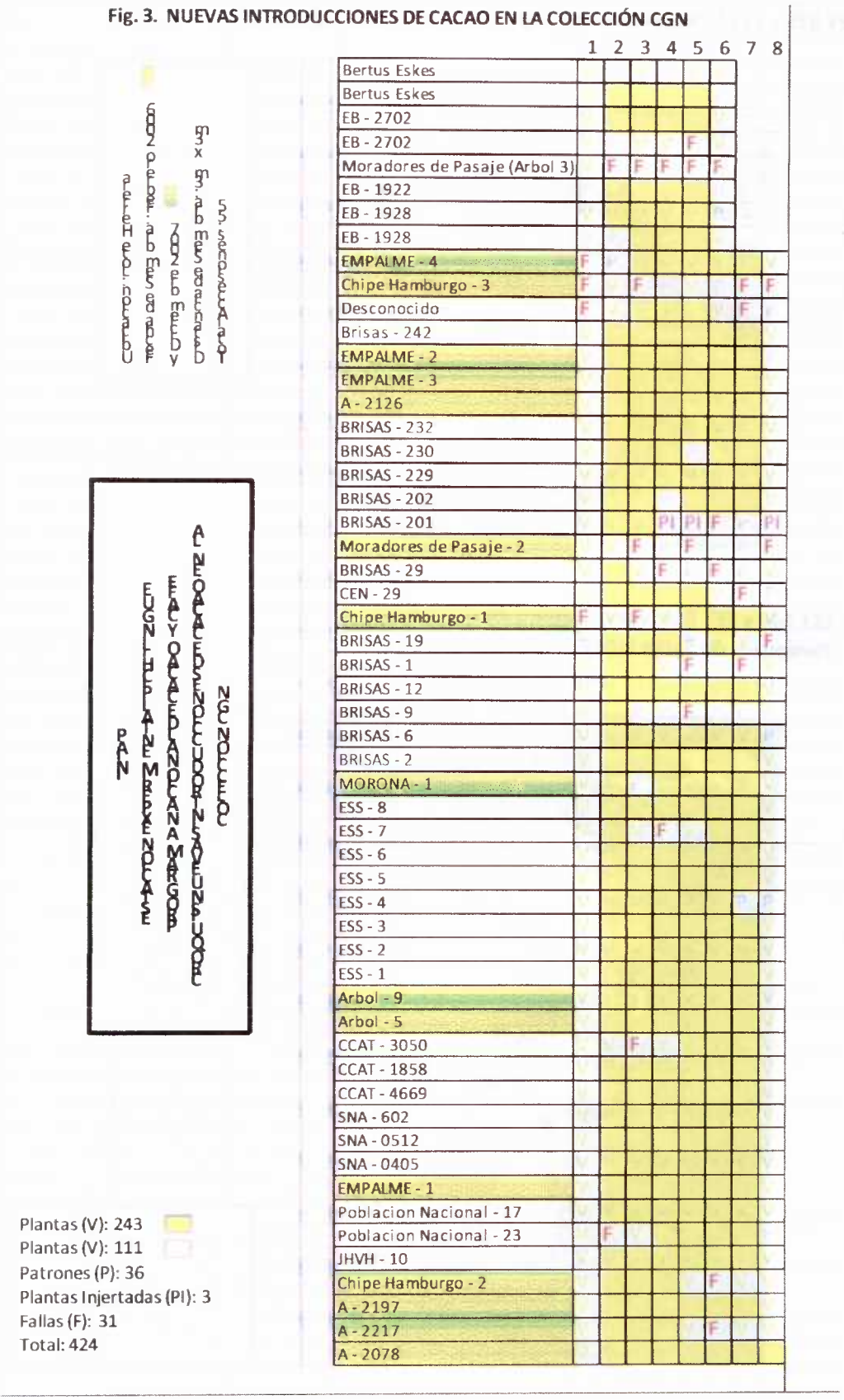

Fig. 1. EET 575 y EET 576 Nuevos clones de cacao Nacional para la zona central de Manabí.

Fig. 2. EET 544 y EET 558 Nuevos clones de cacao Nacional para la producción bajo riego en la Península de Santa Elena.

Tabla 2. Accesiones de la Colección de Cacao Amazónico "ALLEN" introducidas en el año 2005.

1	LCTEEN - 61	41	LCTEEN - 57	81	LCTEEN - 343 S/2	121	LCTEEN - 338	161	LCTEEN - 353
2	LCTEEN - 58 S/4	42	LCTEEN - 79	82	LCTEEN - 169	122	LCTEEN - 339	162	LCTEEN - 352
3	LCTEEN - 63	43	LCTEEN - 68 S/1	83	LCTEEN - 336 S/6	123	LCTEEN - 424 S/1	163	LCTEEN - 351
4	LCTEEN - 11 S/5	44	LCTEEN - 74 S/6	84	LCTEEN - 331 S/2	124	LCTEEN - 341	164	LCTEEN - 86 S/7
5	LCTEEN - 8 S/7	45	LCTEEN - 130 S/2	85	LCTEEN - 300 S/1	125	LCTEEN - 342	165	LCTEEN - 76 S/4
6	LCTEEN - 58	46	LCTEEN - 84	86	LCTEEN - 323 S/3	126	LCTEEN - 421	166	LCTEEN - 84 S/2
7	LCTEEN - 49	47	LCTEEN - 85	87	LCTEEN - 201 S/1	127	LCTEEN - 418 S/3	167	LCTEEN - 85 S/9
8	LCTEEN - 48 S/4	48	LCTEEN - 86	88	LCTEEN - 193	128	LCTEEN - 346	168	LCTEEN - 15 S/6
9	LCTEEN - 205	49	LCTEEN - 84 S/5	89	LCTEEN - 157	129	LCTEEN - 348	169	LCTEEN - 436
10	LCTEEN - 38	50	LCTEEN - 288 S/1	90	LCTEEN - 179 S/1	130	LCTEEN - 349	170	LCTEEN - 92 S/10
11	LCTEEN - 215 S/3	51	LCTEEN - 90	91	LCTEEN - 354 S/9	131	LCTEEN - 350	171	LCTEEN - 76 S/6
12	LCTEEN - 31	52	LCTEEN - 92	92	LCTEEN - 152	132	LCTEEN - 72 S/3	172	LCTEEN - 83 S/8
13	LCTEEN - 28	53	LCTEEN - 93	93	LCTEEN - 215 S/3	133	LCTEEN - 404	173	LCTEEN - 79 S/1
14	LCTEEN - 27	54	LCTEEN - 101	94	LCTEEN - 148	134	LCTEEN - 93 S/8	174	LCTEEN - 325 S/4
15	LCTEEN - 14 S/7	55	LCTEEN - 108	95	LCTEEN - 165	135	LCTEEN - 86 S/6	175	LCTEEN - 408
16	LCTEEN - 24	56	LCTEEN - 113 S/2	96	LCTEEN - 212 S/1	136	LCTEEN - 86 S/5	176	LCTEEN - 214 S/5
17	LCTEEN - 23	57	LCTEEN - 121	97	LCTEEN - 356 S/6	137	LCTEEN - 83 S/9	177	LCTEEN - 354 S/3
18	LCTEEN - 11 S/2	58	LCTEEN - 127 S/7	98	LCTEEN - 144	138	LCTEEN - 82 S/5	178	LCTEEN - 4 S/1
19	LCTEEN - 18 S/2	59	LCTEEN - 120	99	LCTEEN - 6 S/10	139	LCTEEN - 79 S/10	179	LCTEEN - 408
20	LCTEEN - 20	60	LCTEEN - 4 S/1	100	LCTEEN - 26 S/6	140	LCTEEN - 72 S/9	180	LCTEEN - 23 S/3
21	LCTEEN - 414	61	LCTEEN - 130	101	LCTEEN - 24 S/5	141	LCTEEN - 67 S/3	181	LCTEEN - 338 S/5
22	LCTEEN - 18 S/3	62	LCTEEN - 132	102	LCTEEN - 23 S/4	142	LCTEEN - 67 S/8	182	LCTEEN - 342 S/10
23	LCTEEN - 15	63	LCTEEN - 141	103	LCTEEN - 23 S/2	143	LCTEEN - 59 S/5	183	LCTEEN - 370
24	LCTEEN - 14	64	LCTEEN - 136	104	LCTEEN - 21 S/1	144	LCTEEN - 36	184	LCTEEN - 339 S/5
25	LCTEEN - 386	65	LCTEEN - 23 S/5	105	LCTEEN - 20 S/6	145	LCTEEN - 376	185	LCTEEN - 92 S/1
26	LCTEEN - 323 S/10	66	LCTEEN - 4 S/3	106	LCTEEN - 437 S/1	146	LCTEEN - 374	186	LCTEEN - 48 S/2
27	LCTEEN - 27 S/2	67	LCTEEN - 406	107	LCTEEN - 248 S/6	147	LCTEEN - 373	187	LCTEEN - 27 S/10
28	LCTEEN - 6	68	LCTEEN - 215	108	LCTEEN - 436 S/2	148	LCTEEN - 372	188	LCTEEN - 5 S/2
29	LCTEEN - 5	69	LCTEEN - 10 S/9	109	LCTEEN - 432	149	LCTEEN - 83 S/6	189	LCTEEN - 349 S/8
30	LCTEEN - 4	70	LCTEEN - 10 S/10	110	LCTEEN - 19 S/5	150	LCTEEN - 369	190	LCTEEN - 340 S/1
31	LCTEEN - 2	71	LCTEEN - 205	111	LCTEEN - 300	151	LCTEEN - 367	191	LCTEEN - 22 S/1
32	LCTEEN - 1 S/5	72	LCTEEN - 203	112	LCTEEN - 302	152	LCTEEN - 366	192	LCTEEN - 296 S/1
33	LCTEEN - 6 S/3	73	LCTEEN - 390	113	LCTEEN - 429	153	LCTEEN - 361	193	LCTEEN - 354 S/7
34	LCTEEN - 62 S/4	74	LCTEEN - 370	114	LCTEEN - 320	154	LCTEEN - 84 S/5	194	LCTEEN - 212 S/3
35	LCTEEN - 66 S/1	75	LCTEEN - 11 S/7	115	LCTEEN - 321	155	LCTEEN - 359		
36	LCTEEN - 70	76	LCTEEN - 346 S/1	116	LCTEEN - 323	156	LCTEEN - 358		
37	LCTEEN - 71	77	LCTEEN - 366	117	LCTEEN - 27 S/2	157	LCTEEN - 357		
38	LCTEEN - 72	78	LCTEEN - 182	118	LCTEEN - 77 S/6	158	LCTEEN - 356		
39	LCTEEN - 74	79	LCTEEN - 47	119	LCTEEN - 332	159	LCTEEN - 355		
40	LCTEEN - 76	80	LCTEEN - 178	120	LCTEEN - 6 S/4	160	LCTEEN - 354		

Total: 194 accesiones

Table 3. Accesiones de la Colección de Cacao Amazónico "ALLEN" introducidas en el año 2007.

1	LCTEEN - 67 S/4	41	LCTEEN - 340 S/8	81	LCTEEN - 337 S/7	121	LCTEEN - 203 S/1
2	LCTEEN - 29 S/3	42	LCTEEN - 123	82	LCTEEN - 65	122	LCTEEN - 136 S/10
3	LCTEEN - 337 S/2	43	LCTEEN - 345 S/3	83	LCTEEN - 302 S/2	123	LCTEEN - 203 S/3
4	LCTEEN - 343 S/9	44	LCTEEN - 325 S/2	84	LCTEEN - 93 S/3	124	LCTEEN - 349 S/9
5	LCTEEN - 83 S/4	45	LCTEEN - 357 S/3	85	LCTEEN - 67 S/6	125	LCTEEN - 212 S/4
6	LCTEEN - 332 S/10	46	LCTEEN - 346 S/9	86	LCTEEN - 306S/1	126	LCTEEN - 165 S/5
7	LCTEEN - 86 S/2	47	LCTEEN - 341 S/5	87	LCTEEN - 337 S/9	127	LCTEEN - 215 S/3
8	LCTEEN - 87 S/6	48	LCTEEN - 335 S/2	88	LCTEEN - 323 S/1	128	LCTEEN - 132 S/4
9	LCTEEN - 10 S/8	49	LCTEEN - 339 S/3	89	LCTEEN - 67 S/5	129	LCTEEN - 162 S/3
10	LCTEEN - 344 S/3	50	LCTEEN - 338 S/1	90	LCTEEN - 67 S/10	130	LCTEEN - 20 S/10
11	LCTEEN - 347 S/10	51	LCTEEN - 342 S/4	91	LCTEEN - 159 S/9	131	LCTEEN - 22 S/10
12	LCTEEN - 339 S/1	52	LCTEEN - 217	92	LCTEEN - 335 S/1	132	LCTEEN - 28
13	LCTEEN - 22 S/9	53	LCTEEN - 345 S/5	93	LCTEEN - 348 S/9	133	LCTEEN - 280
14	LCTEEN - 5 S/5	54	LCTEEN - 340 S/10	94	LCTEEN - 340 S/9	134	LCTEEN - 280
15	LCTEEN - 243 S/6	55	LCTEEN - 323 S/2	95	LCTEEN - 29 S/4	135	LCTEEN - 23 S/10
16	LCTEEN - 342 S/5	56	LCTEEN - 306 S/3	96	LCTEEN - 323 S/6	136	LCTEEN - 5 S/2
17	LCTEEN - 248 S/7	57	LCTEEN - 358 S/3	97	LCTEEN - 345 S/2	137	LCTEEN - 136 S/9
18	LCTEEN - 424 S/6	58	LCTEEN - 321 S/3	98	LCTEEN - 22 S/7	138	LCTEEN - 358 S/9
19	LCTEEN - 79	59	LCTEEN - 347 S/1	99	LCTEEN - 68 S/8	139	LCTEEN - 68 S/1
20	LCTEEN - 323 S/5	60	LCTEEN - 345 S/4	100	LCTEEN - 66 S/8	140	LCTEEN - 354 S/4
21	LCTEEN - 132 S/10	61	LCTEEN - 369	101	LCTEEN - 336 S/2	141	LCTEEN - 132 S/8
22	LCTEEN - 160 S/1	62	LCTEEN - 347 S/8	102	LCTEEN - 68 S/3	142	LCTEEN - 60
23	LCTEEN - 354 S/1	63	LCTEEN - 343 S/3	103	LCTEEN - 349 S/1	143	LCTEEN - 27 S/10
24	LCTEEN - 356 S/2	64	LCTEEN - 341 S/1	104	LCTEEN - 361 S/10	144	LCTEEN - 372 S/1
25	LCTEEN - 71	65	LCTEEN - 340 S/4	105	LCTEEN - 357 S/9	145	LCTEEN - 349 S/6
26	LCTEEN - 323 S/9	66	LCTEEN - 340 S/6	106	LCTEEN - 187	146	LCTEEN - 2 S/5
27	LCTEEN - 358 S/5	67	LCTEEN - 347 S/8	107	LCTEEN - 356 S/7	147	LCTEEN - 332 S/4
28	LCTEEN - 295 S/8	68	LCTEEN - 220	108	LCTEEN - 205 S/8	148	LCTEEN - 205 S/10
29	LCTEEN - 603	69	LCTEEN - 358 S/10	109	LCTEEN - 334 S/5	149	LCTEEN - 350 S/10
30	LCTEEN - 132 S/9	70	LCTEEN - 334 S/2	110	LCTEEN - 202 S/8	150	LCTEEN - 5 S/7
31	LCTEEN - 352 S/4	71	LCTEEN - 202 S/1	111	LCTEEN - 356 S/1	151	LCTEEN - 6 S/7
32	LCTEEN - 248 S/5	72	LCTEEN - 351 S/2	112	LCTEEN - 178	152	LCTEEN - 6 S/8
33	LCTEEN - 349 S/3	73	LCTEEN -357 S/5	113	LCTEEN - 132 S/1	153	LCTEEN - 348 S/1
34	LCTEEN - 122	74	LCTEEN - 332 S/1	114	LCTEEN - 182 S/5	154	LCTEEN - 378
35	LCTEEN - 66 S/4	75	LCTEEN - 185	115	LCTEEN - 242 S/10	155	LCTEEN - 201 S/3
36	LCTEEN - 65 S/9	76	LCTEEN - 134 S/3	116	LCTEEN - 212 S/4	156	LCTEEN - 202 S/10
37	LCTEEN - 300 S/4	77	LCTEEN - 92 S/2	117	LCTEEN - 4 S/4	157	LCTEEN - 199 S/4
38	LCTEEN - 341 S/6	78	LCTEEN - 346 S/4	118	LCTEEN - 68 S/5	158	LCTEEN - 215 S/2
39	LCTEEN - 341 S/2	79	LCTEEN - 346 S/10	119	LCTEEN - 68 S/2	159	LCTEEN - 357 S/6
40	LCTEEN - 341 S/3	80	LCTEEN - 288 S/3	120	LCTEEN - 202 S/7	160	LCTEEN - 19 S/5

Total: 160 accesiones.

Table 4. Accesiones de la Colección de Cacao Amazónico "ALLEN" introducidas en el año 1997.

1	LCTENN - 326	**21**	LCTEEN- - 259	**41**	LCTENN - 52	**62**	LCTEEN - 329
2	LCTENN - 87	**22**	LCTENN - 26	**42**	LCTENN - 409	**63**	LCTEEN-403
3	LCTENN - 347	**23**	LCTENN - 449	**43**	LCTENN - 37	**64**	LCTEEN - 121
4	LCTENN - 414	**24**	LCTEEN- 107	**44**	EBC -122	**65**	LCTEEN - 81
5	LCTENN - 232	**25**	LCTEEN - 333	**45**	LCTENN - 122	**66**	LCTEEN - 32
6	LCTENN - 180	**26**	LCTEEN-231	**46**	LCTENN - 73	**67**	LCTEEN - 146
7	LCTENN - 142	**27**	LCTEEN-434	**47**	LCTENN - 91	**68**	LCTEEN - 38
8	LCTENN - 325	**28**	LCTEEN - 30	**48**	LCT-358 S/6	**69**	LCTEEN - 133
9	LCTENN - 219	**29**	LCTEEN - 154	**49**	LCTENN - 307	**70**	LCT-242 S/2
10	LCTENN - 77	**30**	LCTENN - 223	**50**	LCTEEN - 202	**71**	LCTEEN - 312
11	LCTENN - 267	**31**	LCTENN - 227	**51**	LCT-215 S/1	**72**	LCTEEN - 189
12	LCTENN - 334	**32**	EBC - 138	**52**	LCTENN - 378	**73**	LCTEEN - 195
13	LCTENN - 250	**33**	LCTEEN - 237	**53**	EBC - 251	**74**	LCTEEN - 141
14	EBC - 126	**34**	LCTENN - 249	**54**	LCTENN-327	**75**	LCTEEN - 253
15	LCTENN - 134	**35**	LCTENN - 254	**55**	EBC - 148	**76**	LCTEEN - 413
16	LCTENN - 33	**36**	LCTENN - 255	**56**	EBC - 142	**77**	LCTEEN - 46
17	LCTENN - 57	**37**	LCTEEN - 257	**57**	LCTEEN - 278	**78**	LCTEEN - 415
18	LCTENN - 264	**38**	LCTENN - 234	**58**	LCTEEN - 368	**79**	LCTEEN - 411
19	LCTEEN - 258	**39**	LCTEEN - 188	**59**	LCTEEN - 125	**80**	LCTEEN - 382
20	LCTEEN - 432	**40**	LCT-323 S/9	**60**	LCTEEN - 156	**81**	LCTEEN - 220
				61	LCTEEN-370	**82**	LCTEEN-36

Total: 82 accesiones.

Table 5. Accesiones de la Colección de Cacao Amazónico de "ALLEN" introducidas en el año 2006.

1	LCT-324 S/1	16	LCT-371	31	LCT-344 S/4	46	LCT-109 S/7
2	LCT-24 S/1	17	LCT-217	32	LCT-346 S/2	47	LCT-24 S/2
3	LCT-6 S/3	18	LCT-92 S/9	33	LCT-346 S/8	48	LCT-18 S/2
4	LCT-88 S/1	19	LCT-115	34	LCT-242 S/6	49	LCT-90 S/5
5	LCT-5 S/3	20	LCT-242 S/9	35	LCT-324 S/9	50	LCT-23 S/3
6	LCT-775 S/3	21	LCT-212 S/9	36	LCT-130 S/2	51	LCT-24 S/3
7	LCT-87 S/1	22	LCT-358 S1	37	LCT-205 S/6	52	LCT-62 S/8
8	LCT-115 S/5	23	LCT-212 S/5	38	LCT-337 S/1	53	LCT-68 S/9
9	LCT-28 S/1	24	LCT-90 S/4	39	LCT-68 S/4	54	LCT-1 S/5
10	LCT-79 S/6	25	LCT-82 S/5	40	LCT-340 S/3	55	LCT-26 S/3
11	LCT-205 S/5	26	LCT-21 S/4	41	LCT-352 S/3	56	LCT-344 S/2
12	LCT-325 S/3	27	LCT-71 S/9	42	LCT-182 S/2	57	LCT-335 S/10
13	LCT-115 S/3	28	LCT-71 S/4	43	LCT-83 S/7	58	LCT-244 S/2
14	LCT-323 S/1	29	LCT-6 S/9	44	LCT-77 S/10	59	LCT-218
15	LCT-324 S/7	30	LCT-87 S/3	45	LCT-83 S/2		

Total: 59 accesiones.

Table 6. Accesiones de la Colección Amazónica de "ALLEN" introducidas entre los años 2009 y 2010.

1	LCT	24 S/8	**40**	LCT	436 S/5	**79**	LCT	403 S/7	**118**	LCT	72 S/8
2	LCT	86 S/4	**41**	LCT	19 S/6	**80**	LCT	201 S/8	**119**	LCT	67 S/9
3	LCT	338 S/8	**42**	LCT	163	**81**	LCT	182 S/4	**120**	LCT	4 S/10
4	LCT	399	**43**	LCT	78 S/1	**82**	LCT	182 S/6	**121**	LCT	62 S/5
5	LCT	371	**44**	LCT	164	**83**	LCT	338 S/7	**122**	LCT	23 S/4
6	LCT	214 S/4	**45**	LCT	59 S/6	**84**	EBC	135	**123**	LCT	22 S/9
7	LCT	59 S/3	**46**	LCT	246 S/3	**85**	LCT	296 S/8	**124**	LCT	24 S/6
8	LCT	67 S/1	**47**	LCT	6 S/6	**86**	LCT	357 S/4	**125**	LCT	8 S/8
9	LCT	404 S/6	**48**	LCT	436 S/8	**87**	LCT	132 S/5	**126**	LCT	8 S/5
10	LCT	403 S/1	**49**	LCT	76 S/3	**88**	EBC	148 S/9	**127**	LCT	74 S/4
11	LCT	405 S/4	**50**	LCT	62 S/6	**89**	LCT	248 S/6	**128**	LCT	248 S/9
12	LCT	85 S/4	**51**	LCT	203 S/2	**90**	LCT	340 S/7	**129**	LCT	212 S/5
13	LCT	403 S/3	**52**	EBC	121 S/1	**91**	LCT	336 S/1	**130**	LCT	320 S/5
14	LCT	82 S/1	**53**	LCT	182 S/10	**92**	LCT	182 S/3	**131**	LCT	271 S/1
15	LCT	76 S/1	**54**	EBC	147 S/2	**93**	LCT	10 S/3	**132**	LCT	241 S/1
16	LCT	404 S/4	**55**	LCT	136 S/8	**94**	LCT	61 S/5	**133**	LCT	306 S/2
17	LCT	437 S/6	**56**	LCT	358 S/7	**95**	LCT	84 S/3	**134**	LCT	336 S/3
18	LCT	424 S/3	**57**	LCT	148 S/7	**96**	LCT	10 S/8	**135**	LCT	5 S/4
19	LCT	437 S/5	**58**	LCT	405 S/1	**97**	LCT	215 S/5	**136**	LCT	62 S/3
20	LCT	90 S/10	**59**	LCT	93 S/2	**98**	LCT	300 S/3	**137**	LCT	338 S/3
21	LCT	10 S/7	**60**	LCT	85 S/5	**99**	LCT	351 S/1	**138**	LCT	244 S/10
22	LCT	403 S/9	**61**	LCT	87 S/4	**100**	LCT	283	**139**	LCT	10 S/5
23	LCT	430 S/10	**62**	LCT	85 S/3	**101**	LCT	199 S/3	**140**	LCT	241 S/2
24	LCT	437 S/3	**63**	LCT	130 S/10	**102**	LCT	148 S/10	**141**	LCT	4 S/5
25	LCT	246 S/6	**64**	LCT	83 S/3	**103**	LCT	126 S/6	**142**	LCT	77 S/2
26	LCT	101 S/2	**65**	LCT	77 S/5	**104**	EBC	48 S/10	**143**	LCT	300 S/2
27	LCT	6 S/5	**66**	LCT	405 S/2	**105**	LCT	201 S/9	**144**	LCT	137
28	LCT	404 S/3	**67**	LCT	62 S/9	**106**	LCT	196 S/4	**145**	LCT	335 S/8
29	LCT	244 S/9	**68**	LCT	76 S/7	**107**	LCT	132 S/3	**146**	LCT	356 S/3
30	LCT	405 S/6	**69**	LCT	115 S/4	**108**	EBC	122	**147**	LCT	340 S/5
31	LCT	22 S/6	**70**	LCT	58 S/7	**109**	EBC	6 S/10	**148**	LCT	348 S/1
32	LCT	5 S/10	**71**	LCT	344 S/5	**110**	LCT	405 S/3	**149**	LCT	205 S/7
33	LCT	336 S/5	**72**	LCT	82 S/9	**111**	LCT	347 S/2	**150**	LCT	341 S/9
34	LCT	72 S/6	**73**	LCT	339 s/4	**112**	LCT	348 S/4	**151**	LCT	341 S/8
35	LCT	77 S/7	**74**	EBC	38 S/5	**113**	LCT	214 S/3	**152**	LCT	94
36	LCT	404 S/2	**75**	LCT	201 S/1	**114**	LCT	321 S/2	**153**	LCT	182 S/1
37	LCT	401	**76**	EBC	10 S/10	**115**	LCT	343 S/8	**154**	LCT	337 S/4
38	LCT	72 S/4	**77**	LCT	342 S/3	**116**	LCT	321 S/8	**155**	LCT	337
39	LCT	130 S/3	**78**	LCT	132 S/7	**117**	LCT	343 S/6	**156**	LCT	338 S/4
									157	LCT	80

Total: 157 accesiones.

Table 7. Códigos de accesiones clonales sembradas en la EET-Pichilingue provenientes de la provincia de Esmeraldas y colectadas a lo largo de los ríos Onzole y Cayapas. Total 162 clones (2009).

1	CY-01	**41**	OZ-6	**81**	OZ-55	**122**	OZ-98
2	CY-02	**42**	OZ-7	**82**	OZ-56	**123**	OZ-99
3	CY-03	**43**	OZ-8	**83**	OZ-59	**124**	OZ-100
4	CY-04	**44**	OZ-9	**84**	OZ-60	**125**	OZ-101
5	CY-05	**45**	OZ-10	**85**	OZ-61	**126**	OZ-102
6	CY-06	**46**	OZ-11	**86**	OZ-62	**127**	OZ-103
7	CY-07	**47**	OZ-13	**87**	OZ-63	**128**	OZ-104
8	CY-08	**48**	OZ-16	**88**	OZ-64	**129**	OZ-105
9	CY-09	**49**	OZ-17	**89**	OZ-65	**130**	OZ-106
10	CY-10	**50**	OZ-18	**90**	OZ-66	**131**	OZ-107
11	CY-11	**51**	OZ-19	**91**	OZ-67	**132**	OZ-108
12	CY-12	**52**	OZ-20	**92**	OZ-69	**133**	OZ-109
13	CY-13	**53**	OZ-21	**93**	OZ-70	**134**	OZ-110
14	CY-14	**54**	OZ-23	**94**	OZ-71	**135**	OZ-111
15	CY-15	**55**	OZ-24	**95**	OZ-72	**136**	OZ-112
16	CY-16	**56**	OZ-26	**96**	OZ-73	**137**	OZ-113
17	CY-17	**57**	OZ-27	**97**	OZ-74	**138**	OZ-114
18	CY-18	**58**	OZ-28	**98**	OZ-75	**139**	OZ-115
19	CY-19	**59**	OZ-29	**99**	OZ-76	**140**	OZ-116
20	CY-20	**60**	OZ-30	**100**	OZ-77	**141**	OZ-117
21	CY-21	**61**	OZ-32	**101**	OZ-78	**142**	OZ-118
22	CY-22	**62**	OZ-33	**102**	OZ-79	**143**	OZ-119
23	CY-23	**63**	OZ-34	**103**	OZ-80	**144**	OZ-120
24	CY-25	**64**	OZ-35	**104**	OZ-79a	**145**	OZ-121
25	CY-26	**65**	OZ-36	**105**	OZ-81	**146**	OZ-122
26	CY-29	**66**	OZ-37	**106**	OZ-82	**147**	OZ-123
27	CY-31	**67**	OZ-38	**107**	OZ-83	**148**	OZ-125
28	CY-32	**68**	OZ-39	**108**	OZ-84	**149**	OZ-126
29	CY-33	**69**	OZ-40	**109**	OZ-85	**150**	OZ-127
30	CY-34	**70**	OZ-41	**110**	OZ-86	**151**	CYF-01
31	CY-35	**71**	OZ-42	**111**	OZ-87	**152**	CYF-02
32	CY-36	**72**	OZ-44	**112**	OZ-88	**153**	CYF-03
33	CY-37	**73**	OZ-45	**113**	OZ-89	**154**	CYF-04
34	CY-38	**74**	OZ-46	**114**	OZ-90	**155**	CYF-05
35	CY-39	**75**	OZ-48	**115**	OZ-91	**156**	CYF-06
36	CY-40	**76**	OZ-49	**116**	OZ-92	**157**	CYF-07
37	OZ-1	**77**	OZ-50	**117**	OZ-93	**158**	CYF-08
38	OZ-3	**78**	OZ-51	**118**	OZ-94	**159**	CYF-09
39	OZ-4	**79**	OZ-52	**119**	OZ-95	**160**	CYF-10
40	OZ-5	**80**	OZ-54	**120**	OZ-96	**161**	CYF-11
				121	OZ-97	**162**	CYF-12

Table 8. Códigos de accesiones obtenidas a partir de semillas sembradas en la EET-Pichilingue y colectadas en el Norte de la provincia De Esmeraldas por los ríos Onzole y Cayapas. Total 137 accesiones.

1	CY-01	**38**	OZ-8	**75**	OZ-53	**113**	OZ-98
2	CY-03	**39**	OZ-9	**76**	OZ-54	**114**	OZ-100
3	CY-04	**40**	OZ-10	**77**	OZ-56	**115**	OZ-101
4	CY-05	**41**	OZ-11	**78**	OZ-57	**116**	OZ-103
5	CY-06	**42**	OZ-13	**79**	OZ-58	**117**	OZ-104
6	CY-07	**43**	OZ-14	**80**	OZ-59	**118**	OZ-105
7	CY-09	**44**	OZ-15	**81**	OZ-60	**119**	OZ-106
8	CY-10	**45**	OZ-16	**82**	OZ-61	**120**	OZ-107
9	CY-12	**46**	OZ-17	**83**	OZ-62	**121**	OZ-108
10	CY-13	**47**	OZ-18	**84**	OZ-64	**122**	OZ-109
11	CY-14	**48**	OZ-19	**85**	OZ-65	**123**	OZ-110
12	CY-15	**49**	OZ-20	**86**	OZ-66	**124**	OZ-111
13	CY-16	**50**	OZ-22	**87**	OZ-67	**125**	OZ-113
14	CY-17	**51**	OZ-23	**88**	OZ-68	**126**	OZ-114
15	CY-18	**52**	OZ-24	**89**	OZ-70	**127**	OZ-115
16	CY-19	**53**	OZ-28	**90**	OZ-71	**128**	OZ-116
17	CY-20	**54**	OZ-29	**91**	OZ-73	**129**	OZ-117
18	CY-21	**55**	OZ-30	**92**	OZ-74	**130**	OZ-119
19	CY-24	**56**	OZ-31	**93**	OZ-76	**131**	OZ-120
20	CY-26	**57**	OZ-33	**94**	OZ-77	**132**	OZ-121
21	CY-28	**58**	OZ-34	**95**	OZ-78	**133**	OZ-122
22	CY-29	**59**	OZ-35	**96**	OZ-79	**134**	OZ-123
23	CY-30	**60**	OZ-36	**97**	OZ-79a	**135**	OZ-124
24	CY-31	**61**	OZ-37	**98**	OZ-82	**136**	OZ-126
25	CY-32	**62**	OZ-38	**99**	OZ-83	**137**	OZ-127
26	CY-33	**63**	OZ-39	**100**	OZ-84	**138**	CYF-01
27	CY-34	**64**	OZ-40	**101**	OZ-85	**139**	CYF-02
28	CY-36	**65**	OZ-42	**102**	OZ-86	**140**	CYF-03
29	CY-37	**66**	OZ-43	**103**	OZ-87	**141**	CYF-04
30	CY-38	**67**	OZ-44	**104**	OZ-88	**142**	CYF-05
31	CY-39	**68**	OZ-45	**105**	OZ-89	**143**	CYF-06
32	CY-40	**69**	OZ-46	**106**	OZ-90	**144**	CYF-07
33	OZ-1	**70**	OZ-47	**107**	OZ-92	**145**	CYF-08
34	OZ-2	**71**	OZ-48	**108**	OZ-93	**146**	CYF-09
35	OZ-5	**72**	OZ-49	**109**	OZ-94	**147**	CYF-10
36	OZ-6	**73**	OZ-51	**110**	OZ-95	**148**	CYF-11
37	OZ-7	**74**	OZ-52	**111**	OZ-96	**149**	CYF-12
				112	OZ-97	**150**	CYF-13

CY.- Accesiones colectadas por las cuencas del río Cayapas.
OZ.- Accesiones colectadas por las cuencas del río Onzole.

Table 9. Porcentaje de incidencia de incidencia de *M. roreri* en seis híbridos de cacao. Enero 2003-Diciembre 2008. Pichilingue.

Incidencia de Monillia	Secciones del Lote 7 A					
	EET 95 x SIL 1 (742 árboles)	SCA 12 x Desconocido (256 árboles)	SCA 6 x SIL 1 (185 árboles)	SCA 12 x SIL 5 (145 árboles)	SCA 12 x SIL 1 (145 árboles)	SCA 6 x SIL 5 (74 árboles)
< 15 %	5,6	7,8	4,3	3,4	45,1	8,1
31 - 40 %	67,6	91,8	68,1	89,0	49,7	51,4
41 - 70 %	24,9	0,4	27,6	7,6	5,2	39,2
> 71 %	1,9	0,0	0,0	0,0	0,0	1,4

Table 10. Resultados de la evaluación de un grupo de clones sembrados en el lote Las Tecas. Los datos están acumulados hasta marzo 2010, para el rendimiento y otras variables (son datos por planta). Fecha de siembra agosto 2006. EET-Pichilingue, INIAP.

No.	Código	Familia	#mazorcas sanas	Peso fresco (g)	#mazorcas enfermas		#de frutos		#de escobas bruja		Indices		Arquitectura	Color del fruto	#Plantas evaluadas
					Con Escoba Bruja	Con moniliasis	Con marchitez	Chirimoya	Vegetativa	Cojinete	Mazorca	Semilla			
1	INIAPT-632	Gloria-17 x EB-2237	36.5	3987.5	2	0.67	62	0.17	3.17	0	24.7	1.3	semi-erecta	amarillo	6
2	INIAPT-484	AMAZ-14 x EBC-148	24.5	3527.5	3.8	1	47.9	0	4.5	0	15.0	1.6	semi-erecta	amarillo	10
3	INIAPT-374	EET-387 x A-645	29.55	3100	5.36	2.45	65.73	2.64	2.36	9.55	21.3	1.3	semi-erecta	amarillo	11
4	INIAPT-533	SIL-1 x B-60	26.91	3013.64	2.55	0.64	44.91	0.09	4.73	0	25.0	1.2	semi-erecta	amarillo	11
5	INIAPT-405	CCN-51 x TAP-3	27.64	2861.36	4.73	0.55	62.18	0	2.55	0	17.6	1.3	semi-erecta	rojo	11
6	INIAPT-678	B-60	39.5	2778.13	3.5	1.38	43.13	0	6.5	0.13	30.3	0.8	semi-erecta	amarillo	8
7	INIAPT-302	EET-387 x A-645	24.42	2725	2.08	0.58	29.67	0	0.75	0	24.7	1.1	semi-erecta	amarillo	12
8	INIAPT-641	TAP-3 x TIP-1	29.75	2695.83	5.92	0.25	12	0	1.33	0	19.3	1.1	semi-erecta	amarillo	12
9	INIAPT-573	TAP-3 x CUR-3	27.08	2679.17	4.83	0.5	25.08	0	3.92	0	25.9	0.9	semi-erecta	amarillo	12
10	INIAPT-680	CCN-51	15.36	2661.36	2.36	0.91	57.82	0	3.45	0.18	14.4	1.6	erecto	rojo	11
11	INIAPT-281	EET-387 x D-147	28.83	2614.58	1	0	28.08	0.25	1.75	0.08	46.0	0.9	semi-erecta	amarillo	12
12	INIAPT-364	CCN-51 x TAP-3	20.36	2554.55	2.45	1.36	49.82	0	2.18	0.09	21.0	1.0	semi-erecta	amarillo	11
13	INIAPT-560	TAP-3 x TIP-1	40.18	2490.91	4	1.09	37.36	0	0.73	0	28.6	0.8	erecto	amarillo	11
14	INIAPT-561	SIL-1 x B-60	27.2	2462.5	4.2	0.4	87	0.2	3.3	0.3	24.4	1.2	semi-erecta	amarillo	10
15	INIAPT-468	SIL-1 x 2057	25.1	2375	3	2.1	34.6	0.3	5.4	0.4	22.7	1.1	semi-erecta	amarillo	10
16	INIAPT-481	TAP-3 x CUR-3	23.17	2339.58	8.5	2.92	21.75	0	3	0.08	25.6	1.1	semi-erecta	amarillo	12
17	INIAPT-294	CCN-51 x B-60	24.67	2293.75	6.17	2.92	69.58	0	1.83	0	27.6	0.9	semi-erecta	rojo	12
18	INIAPT-697	JHV-10	17.13	2265.63	2.25	0.5	46.75	0	1.88	0.25	18.0	1.1	erecto	amarillo	8
19	INIAPT-352	BRISAS-13 x EB-1013	20	2212.5	2.2	1.4	28.9	0.4	5.8	0	18.0	1.2	erecto	rojo	10
20	INIAPT-653	EET-233 x 2057	27.56	2205.56	2.33	0.78	132.56	0.11	7.33	2	31.2	1.1	semi-erecta	amarillo	9
21	INIAPT-656	TAP-6 x EBC-148	16.09	2197.73	2.55	0.73	37.91	0	1.09	0	15.1	1.5	semi-erecta	amarillo	11
22	INIAPT-348	CCN-51 x B-60	21.55	2165.91	2.73	0.64	79.73	0.09	4.55	0.55	27.1	0.9	semi-erecta	rojo	11
23	INIAPT-543	TAP-3 x CUR-3	23	2125	6.27	0.64	17.36	0.09	1.27	0.09	25.9	0.9	semi-erecta	amarillo	11
24	INIAPT-462	CCN-51 x TAP-6	14.42	2075	1.83	0.17	26.25	0	0.75	0.08	19.7	1.3	erecto	amarillo	12
25	INIAPT-527	TAP-6 x TIP-1	25.27	2065.91	1.45	0.09	30.45	0	0	0	28.1	1.2	erecto	amarillo	11
26	INIAPT-681	CUR-3	16	2052.5	3.3	1.5	19.3	0.5	3.8	0.3			semi-erecta	amarillo	10
27	INIAPT-565	CCN-51 x LCT-37	17.75	2043.75	1.38	0.38	11.5	0	5.38	0.63			semi-erecta	rojo	8
28	INIAPT-088	TAP-10 x UNAP-2	23.4	2020	4.5	1.1	39.5	0.2	4.7	0.2			semi-erecta	amarillo	10
29	INIAPT-682	D-147	23.5	1975	3.7	3.5	35.1	0	3.9	0			semi-erecta	amarillo	10
30	INIAPT-178	TAP-12 x EBC-148	14.36	1909.09	2.91	0.73	38	0.09	5.91	0.45			semi-erecta	amarillo	11
31	INIAPT-696	A-2506	19.33	1880.56	3.33	1.33	12.11	0	2.56	0			semi-erecta	amarillo	9
32	INIAPT-321	TAP-10 x UNAP-2	16.25	1854.17	6.83	5.83	46.58	0	1.42	0			semi-erecta	amarillo	12
33	INIAPT-158	AMA-11 x CUR-3	17.14	1846.43	6.14	4	15.57	0	4.43	0			semi-erecta	amarillo	7
34	INIAPT-393	CCN-51 x LCT-46	19.13	1840.63	3.5	0.5	59.25	0	5.5	0.88			erecto	amarillo	8
35	INIAPT-332	CCN-51 x TAP-3	18.83	1818.75	4.67	1.42	32.17	0	2.25	0.33	27.2	0.9	semi-erecta	rojo	12
36	INIAPT-187	CCN-51 x TAP-3	18.3	1807.5	1.2	0.3	39.9	0.1	2.9	0	27.0	1.0	semi-erecta	amarillo	10
37	INIAPT-010	CCN-51 x B-60	21.45	1786.36	2.64	1.91	29.27	0	2.91	0			semi-erecta	rojo	11
38	INIAPT-005	EET-387 x B-60	20.9	1780	4	3.8	46.8	0	7	0			semi-erecta	amarillo	10
39	INIAPT-016	EET-58 x B-60	17.5	1779.17	3.33	1.83	23	0	12	0.08	21.0	1.4	semi-erecta	amarillo	12
40	INIAPT-676	AMAZ-11	17.1	1770	3.1	0.5	19.5	0	7.1	0			semi-erecta	amarillo	10
41	INIAPT-644	TAP-3 x LCT-368	25.6	1757.5	5.9	2.8	10.5	0.1	3.5	0.3			semi-erecta	amarillo	10
42	INIAPT-216	CCN-51 x B-60	15.17	1735.42	3.83	2.67	20.83	0.08	4	0			semi-erecta	rojo	12
43	INIAPT-525	Gloria-1 x CCAT-4688	13.4	1735	1.3	0.2	53.1	0	5.7	0.1			semi-erecta	amarillo	10
44	INIAPT-184	CCN-51 x TAP-3	18.67	1700	1.83	1	32.42	0	2	0.17			semi-erecta	amarillo	12
45	INIAPT-648	CCN-51 x 2367	12.43	1689.29	2	1.71	98.86	1.14	7.71	8.86			erecto	amarillo	7
46	INIAPT-183	TAP-10 x LCT-368	28.83	1685.42	2.83	0.42	16.67	0.25	1.33	0			semi-erecta	amarillo	12
47	INIAPT-649	AMAZ-14 x LCT-368	20.44	1680.56	5.67	4.78	41.67	0.33	3.11	1.11			semi-erecta	amarillo	9
48	INIAPT-384	CCN-51 x TAP-3	17.75	1656.25	2.17	1.25	20.42	0	1.75	0	25.0	0.9	erecto	rojo	12
49	INIAPT-549	CCN-51 x TAP-6	17.83	1641.67	1.42	0.08	39.75	0	1.5	0.08			semi-erecta	amarillo	12
50	INIAPT-118	AMA-14 x TIP-1	17.89	1636.11	0.56	0.22	49.89	0	2.89	0			semi-erecta	amarillo	9
51	INIAPT-467	TAP-6 x LCT-368	15.4	1627.5	1.4	0	98	0	2.8	0			semi-erecta	amarillo	10

No.	Código	Familia	#mazorcas sanas	Peso fresco (g)	#mazorcas enfermas		#de frutos	#de escobas bruja			Indices		Arquitectura	Color del fruto	#Plantas evaluadas
					Con Escoba Bruja	Con moniliasis	Con marchitez	Chiri-moya	Vegeta-tiva	Coji-nete	Ma-zorca	Se-milla			
52	INIAPT-684	EET-233	16.33	1616.67	1.5	0.33	39.33	0.17	8	1.17			semi-erecta	amarillo	6
53	INIAPT-301	CCN-51 x A-645	14.57	1592.14	1.43	0.86	13.29	0	0.86	0			semi-erecta	amarillo	7
54	INIAPT-566	CCN-51 x LCT-37	11.5	1587.5	1.63	0	11.63	0	2.75	0			semi-erecta	rojo	8
55	INIAPT-185	CCN-51 x TAP-3	13.6	1575	2.3	0.8	80.1	0	2.9	0.1	16.1	1.3	semi-erecta	rojo	10
56	INIAPT-554	Gloria-1 x EB-2237	15.25	1571.88	1.13	0	25.5	0	9.5	0					8
57	INIAPT-164	AMA-11 x TAP-3	16.5	1557.5	5.4	4.8	39.4	0	2.8	0					10
58	INIAPT-683	EET-19	11.57	1553.57	4.71	1.14	52.86	0.71	31.29	3.14					7
59	INIAPT-056	AMA-11 x TIP-1	15.5	1537.5	5.25	3.5	30.88	0	4	0.25					8
60	INIAPT-347	EET-387 x B-60	23.17	1525	2.08	0.25	19.33	0.17	4.83	0.42					12
61	INIAPT-122	AMA-11 x TIP-1	16.42	1522.92	1.42	0.42	21.92	0.17	1.67	0					12
62	INIAPT-188	CCN-51 x TAP-3	17.92	1522.92	2.42	0.58	29.83	0	1.92	0.25					12
63	INIAPT-285	EET-387 x D-147	15.18	1515.91	1.09	0.18	8.55	0	1.45	0					11
64	INIAPT-233	TAP-3 x UNAP-2	14.13	1509.38	6.38	0.75	24.63	0	13.5	0.5					8
65	INIAPT-025	TAP-3 x UNAP-2	13.13	1490.63	4.63	0.5	27.13	0.25	16	0.88					8
66	INIAPT-147	CCN-51 x D-147	9.9	1485	3	0.8	20.4	0.1	5.3	1.4					10
67	INIAPT-163	AMA-11 x TAP-3	18.67	1483.33	1.83	2.33	23.83	0	2.67	0					6
68	INIAPT-286	EET-387 x B-60	21.8	1472.5	2.3	0.1	32.8	0	5.4	0					10
69	INIAPT-024	EET-387 x A-645	13.13	1456.25	2.25	0	5.25	0	6.63	0.25					8
70	INIAPT-461	CCN-51 x TAP-6	10.38	1456.25	2.13	0	41.63	0	1.63	0					8
71	INIAPT-146	AMA-11 x EBC-148	12.3	1452.5	2.2	0.4	11.3	0	3.1	0					10
72	INIAPT-476	CCN-51 x LCT-37	11.5	1450	6	2	3.5	0	2.5	0					2
73	INIAPT-094	AMA-11 x TAP-3	17.57	1439.29	2.86	3	17.43	0	10.29	0.29					7
74	INIAPT-273	AMA-11 x TIP-1	17.42	1437.5	3.92	0.5	16.25	0.75	4.08	0					12
75	INIAPT-509	TAP-3 x CUR-3	15.73	1434.09	6.09	2.45	12.55	0.36	4.45	0					11
76	INIAPT-603	EET-233 x B-60	17.92	1420.83	1.17	0	30.5	0	5.67	0					12
77	INIAPT-563	TAP-6 x TIP-1	15.8	1417.5	3.9	1.3	45.7	0	2.3	0					10
78	INIAPT-526	TAP-6 x TIP-1	19.7	1412.5	3.2	0.3	18.9	0	0.6	0					10
79	INIAPT-351	EET-387 x A-645	16.1	1410	1	0.3	23.1	0.8	6.9	0.2					10
80	INIAPT-041	EET-387 x 2057	16.3	1405	1.9	0.2	36.2	0	23.4	0					10
81	INIAPT-189	CCN-51 x TAP-3	11	1394.44	2.33	0.56	25.67	0	3.89	0.22					9
82	INIAPT-685	EET-387	15.5	1393.75	2.75	2	26.17	0.08	8.5	0					12
83	INIAPT-378	AMAZ-11 x TAP-3	13.25	1387.5	1.75	0.83	36.5	0.08	5.83	0.67					12
84	INIAPT-289	CCN-51 x TAP-10	10.42	1375	0.92	0.33	40.5	0	1.67	0					12
85	INIAPT-510	Gloria-17 x CCAT-4688	11.5	1360	1.5	0.3	10.5	0	3.7	0					10
86	INIAPT-630	SIL-1 x 2416	14.55	1359.09	5.36	1.64	41.09	0.45	9.82	0.27					11
87	INIAPT-046	TIP-1 x LCT-368	14.36	1354.55	1.09	0.45	20.55	0	3.64	0					11
88	INIAPT-142	CCN-51 x B-60	16.44	1344.44	1.11	0.33	34.22	0.33	2.22	0					9
89	INIAPT-391	EET-387 x D-147	16.33	1339.58	2.67	0.25	11.5	0.17	2	0.08					12
90	INIAPT-599	Gloria-17 x SNA-0707	13.82	1320.45	4.91	1.45	18.64	0	3.45	0					11
91	INIAPT-638	EET-233 x A-645	10.44	1319.44	1.11	0.11	11.33	0	4.67	0.11					9
92	INIAPT-032	CCN-51 x AMA-11	9.56	1302.78	2.78	1.33	48.22	0	4.22	0.89					9
93	INIAPT-085	CCN-51 x A-645	11	1292.86	5.43	2.57	32.57	0.43	1.43	0					7
94	INIAPT-369	AMAZ-11 x TIP-1	13.2	1270	3.4	2.8	15.3	0.1	4.7	0.2					10
95	INIAPT-577	AMAZ-14 x EBC-148	12.36	1268.18	4.82	2.55	30.82	0.45	6.73	0.09					11
96	INIAPT-078	CCN-51 x D-147	8.38	1259.38	1.25	0.13	7.38	0	2.75	0					8
97	INIAPT-524	Brisas-13 x CCAT-1858	12.71	1257.14	1.57	0.29	16.43	0	10.86	0.14					7
98	INIAPT-186	CCN-51 x TAP-3	11.75	1254.17	2.75	0.17	20.75	0.08	0.83	0					12
99	INIAPT-193	TIP-1 x EBC-148	10.42	1254.17	1.75	0.75	16.92	0	0.17	0					12
100	INIAPT-256	CCN-51 x TAP-3	12	1235.42	3.42	0.67	20.83	0	2.25	0.33					12
101	INIAPT-309	TAP-3 x UNAP-2	13.29	1232.14	3.29	0.43	33.71	0	1.86	0					7
102	INIAPT-150	EET-387 x A-645	13.44	1227.78	1.22	0	32.89	0	3.44	0.89					9
103	INIAPT-274	AMA-11 x TIP-1	15.82	1211.36	2.36	1.36	20.55	0.09	2.64	0.18					11
104	INIAPT-019	EET-58 x B-60	17.9	1210	0.7	0.2	26	0	5.3	0					10
105	INIAPT-012	CCN-51 x B-60	7.5	1200	2.38	0.75	14.13	0.38	5.25	1.25					8

No.	Código	Familia	#mazorcas sanas	Peso fresco (g)	#mazorcas enfermas		#de frutos		#de escobas bruja		Indices		Arquitectura	Color del fruto	#Plantas evaluadas
					Con Escoba Bruja	Con moniliasis	Con marchitez	Chirimoya	Vegetativa	Cojinete	Mazorca	Semilla			
106	INIAPT-689	TAP-3	17.09	1200	3	0.36	12.36	0	3.82	0.18					11
107	INIAPT-209	EET-387 x D-147	17.36	1197.73	3.36	1.09	19.82	0	2.82	0					11
108	INIAPT-487	CCN-51 x TAP-6	8.09	1190.91	1.45	0.27	61.18	0	0.36	0					11
109	INIAPT-506	CUR-3 x TIP-1	14	1185.42	4.33	1.33	8.5	0.75	2.83	0.75					12
110	INIAPT-134	EET-387 x B-60	14.6	1185	5.5	4.2	13.9	0.1	4.5	0					10
111	INIAPT-356	CCN-51 x AMAZ-11	12.67	1180.56	2.11	1	31.11	0	2.22	0					9
112	INIAPT-564	Gloria-1 x EB-1013	9	1179.55	1	0	25.73	0	4.27	0					11
113	INIAPT-688	TAP-10	16.45	1179.55	1.27	0.55	59	0	0.91	0					11
114	INIAPT-314	UNAP-2 x EBC-148	10	1175	3	5	1	0	1	0					1
115	INIAPT-029	CCN-51 x EBC-148	8.57	1160.71	1.43	0.14	20.14	0	3.29	0					7
116	INIAPT-288	CCN-51 x TAP-10	10.4	1160	2.5	0.4	46.7	0.1	3.3	0.1					10
117	INIAPT-045	CCN-51 x TAP-3	10.33	1158.33	4.89	0.78	24.89	0	3	0					9
118	INIAPT-480	Gloria-1 x SNA-0707	11.86	1157.14	1.43	0	129.43	0	11	0.14					7
119	INIAPT-539	CUR-3 x TIP-1	11.45	1156.82	4.82	0.45	7.73	0	2.09	0					11
120	INIAPT-368	GLORIA-1 x CCAT-1858	11.29	1153.57	1.29	0.71	80	0	34.14	0					7
121	INIAPT-043	TAP-12 x EBC-148	9.5	1143.75	2.5	0.38	25.38	0	2.5	0					8
122	INIAPT-172	EET-387 x 2057	13.45	1136.36	2.36	0.64	45.45	0	2.82	0					11
123	INIAPT-009	CCN-51 x LCT-46	11	1135.71	5.14	1.86	32.57	0.14	3.43	0					7
124	INIAPT-051	TIP-1 x EBC-148	12.25	1135.42	2.67	0.92	20.92	0	6.33	0.17					12
125	INIAPT-663	CCN-51 x 2367	8.78	1130.56	1	0.22	16.89	0.11	5	0.11					9
126	INIAPT-528	TAP-6 x TIP-1	11.75	1125	3.25	1.25	11	0	1.5	0					4
127	INIAPT-057	AMA-11 x TIP-1	9.33	1116.67	1.33	0	6.33	0	4	0					3
128	INIAPT-569	CUR-3 x TIP-1	11	1112.5	0.67	0	4.58	0.08	1.92	0					12
129	INIAPT-665	TAP-6 x TIP-1	15.91	1111.36	3.73	0.55	37.82	0	0.36	0					11
130	INIAPT-439	EET-387 x B-60	12.64	1109.09	2	1.55	15.45	0	6.55	0.09					11
131	INIAPT-067	CCN-51 x TAP-10	8.5	1105	1.7	0.3	16	0	2.5	0.1					10
132	INIAPT-547	CCN-51 x 2367	8.83	1095.83	1.67	0.67	15.67	0.17	9.17	0					6
133	INIAPT-215	CCN-51 x TAP-10	7.27	1090.91	2.55	1	20.91	0	2.18	0.09					11
134	INIAPT-398	TAP-12 x UNAP-2	10	1089.29	3	0.14	14.43	0.71	5.71	0.71					7
135	INIAPT-026	TAP-3 x UNAP-2	14.17	1083.33	3.17	0.67	115	0	4	0					6
136	INIAPT-263	TIP-1 x EBC-148	10	1083.33	1.33	0.17	7.83	1.83	0.33	0.5					6
137	INIAPT-488	EET-233 x B-60	13.5	1072.92	3	0.58	40.17	0	4.58	0					12
138	INIAPT-666	TAP-6 x TIP-1	10.5	1072.5	5.8	0.8	20.5	0	0.7	0					10
139	INIAPT-140	CCN-51 x B-60	8.5	1070	2	0.3	33	0	1.2	0	30.0	0.8			10
140	INIAPT-159	AMA-11 x CUR-3	10.38	1068.75	2.5	0.88	15.25	0.13	4.25	0.13					8
141	INIAPT-290	CCN-51 x TAP-10	7	1066.67	1.44	0.11	38.44	0	1.11	0					9
142	INIAPT-625	EET-233 x 2057	10.64	1061.36	1.64	0.45	27.73	0	7.09	0					11
143	INIAPT-611	TAP-3 x TIP-1	13	1060.71	1.86	0.29	23	0.29	2.71	50.71					7
144	INIAPT-219	CCN-51 x B-60	15.22	1058.33	0.78	0.89	16.22	0	2.11	0					9
145	INIAPT-425	TAP-12 x UNAP-2	13.5	1058.33	0.83	0.5	49.67	0	1.5	0					6
146	INIAPT-195	AMA-11 x LCT-368	13.13	1053.13	4	0.75	16.63	0.13	6.88	0					8
147	INIAPT-063	EET-387 x B-60	13.25	1050	3.67	1.67	28.92	0.17	6.17	0					12
148	INIAPT-537	Gloria-17 x EB-2237	13.29	1050	1.14	0	79.71	0	7.57	0					7
149	INIAPT-675	A-645	10.45	1041.82	2.27	0.36	24.09	0.45	2	0.09					11
150	INIAPT-072	CCN-51 x B-60	9.91	1036.36	0.73	0.36	20.45	0	1.18	0					11
151	INIAPT-442	CCN-51 x A-645	10.92	1031.25	0.92	0.5	14.58	0.08	0.33	0					12
152	INIAPT-605	Brisas-13 x CCAT-1858	12.75	1018.75	1.88	0.13	22.88	0	8.13	0					8
153	INIAPT-048	AMA-14 x UNAP-2	8.8	1010	1	0.6	42.8	0	8.2	0					5
154	INIAPT-109	TIP-1 x LCT-368	10.5	1008.33	3.33	0	42	0	3.17	0					6
155	INIAPT-643	SIL-1 x 2416	7.3	1005	3.6	2	43.2	0	9.4	0.4					10
156	INIAPT-073	CCN-51 x B-60	10	1002.78	3.22	0.67	41.44	0	1.33	0					9
157	INIAPT-100	TAP-12 x EBC-148	10	1000	1.25	0	18.5	0	2.25	0					4
158	INIAPT-411	GLORIA-1 x CCAT-1858	7	1000	2	0.25	53.5	0	11.5	0					4
159	INIAPT-077	CCN-51 x D-147	10.7	997.5	2	0.1	12	0	1.6	0					10

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					Con Escoba Bruja	Con moniliasis	Con marchitez	Chirimoya	Vegetativa	Cojinete	Mazorca	Semilla			
160	INIAPT-334	CCN-51 x TAP-3	10.33	994.44	1.22	0.78	37.67	0	3.78	0.11					9
161	INIAPT-450	TAP-10 x EBC-148	9.25	987.5	1.88	0.75	27.38	0	1.63	0					8
162	INIAPT-372	CCN-51 x B-60	9.38	984.38	0.63	0.13	7.88	0	5.25	0					8
163	INIAPT-137	CCN-51 x TAP-10	8.58	983.33	1.08	0.17	28.83	0	2	0					12
164	INIAPT-015	CCN-51 x D-147	8.83	979.17	2.17	0.5	19.33	0	2.83	0					6
165	INIAPT-339	TIP-1 x EBC-148	12.11	975	3	0.89	15.22	0	0.78	0.11					9
166	INIAPT-221	CCN-51 x B-60	6.43	971.43	1.43	0.14	12.86	0	0.86	0					7
167	INIAPT-456	TIP-1 x EBC-148	8.75	970.83	2.33	2.08	15.08	0.17	3.25	1.08					12
168	INIAPT-175	TAP-10 x EBC-148	6.86	967.86	1.71	1	27.86	0	1.86	0.14					7
169	INIAPT-125	AMA-11 x TAP-10	10.64	963.64	1.64	0.27	13	0.09	1.55	0					11
170	INIAPT-291	CCN-51 x TAP-10	9	962.5	0.25	0	32	0	1.75	0					4
171	INIAPT-579	CCN-51 x TAP-6	5.64	961.36	0.36	0	10.64	0	0.09	0					11
172	INIAPT-104	TAP-10 x LCT-368	13.57	950	1.29	0.29	7.86	0	7.14	0.29					7
173	INIAPT-247	TAP-10 x EBC-148	8.11	944.44	2.78	0.78	33.44	0	2.78	0.11					9
174	INIAPT-283	EET-387 x D-147	9	943.75	0.5	0.13	12.38	0	2.13	0.13					8
175	INIAPT-540	CUR-3 x TIP-1	16.75	943.75	1.38	0	11.13	0	3.38	0					8
176	INIAPT-363	TAP-10 x LCT-368	11.1	940	3.2	0.3	6	0	1.4	0.1					10
177	INIAPT-445	CCN-51 x AMAZ-11	8.4	940	2	0.7	37.1	0	3.4	0					10
178	INIAPT-298	CCN-51 x D-147	8.09	938.64	1.91	0.36	11.27	0	3.27	0.09					11
179	INIAPT-627	SIL-1 x B-60	9.82	936.36	1.91	1	9.27	0	1	0					11
180	INIAPT-145	AMA-11 x EBC-148	8	931.25	2.38	0.88	11.38	0.63	5.88	0.38					8
181	INIAPT-563	TAP-6 x EBC-148	8.7	925	1.8	0.1	18.1	0	1.6	0					10
182	INIAPT-614	TAP-6 x EBC-148	9.11	925	1.44	0.22	47.67	0	2	0					9
183	INIAPT-370	EET-387 x B-60	12.92	920.83	1.88	0.83	16.75	0	0.42	0					12
184	INIAPT-512	Gloria-17 x CCAT-4688	8.8	920	2	0.6	21	0	7.4	0					5
185	INIAPT-360	TAP-12 x EBC-148	7.38	918.75	1.38	0.25	13.5	0.13	2.5	0					8
186	INIAPT-437	AMAZ-11 x TAP-12	9.88	915.63	1.38	1.5	13.13	0.63	4.5	0.13					8
187	INIAPT-131	EET-387 x D-147	9.6	915	2.2	2.6	5.8	0.2	0.8	0					5
188	INIAPT-380	CCN-51 x AMAZ-11	6.57	914.29	0.86	0.71	20.71	0	3.14	0.14					7
189	INIAPT-165	CCN-51 x AMA-11	8	910	3.2	1.2	92.4	0	3.4	0					5
190	INIAPT-594	CUR-3 x TIP-1	13.11	908.33	1.78	0.33	11	0	1.44	0					9
191	INIAPT-085	CCN-51 x AMA-11	6.75	902.08	0.92	0.58	16.83	0	1.67	0.08					12
192	INIAPT-205	AMA-11 x UNAP-2	12	900	0	0	33	0	3	0					1
193	INIAPT-595	CUR-3 x TIP-1	8.5	895	3.7	1.6	9	0	1.7	0					10
194	INIAPT-282	EET-387 x D-147	10.78	894.44	1.33	0.11	23.56	0	3	0					9
195	INIAPT-214	CCN-51 x TAP-10	5.29	889.29	0.29	0	29.29	0	1.14	0					7
196	INIAPT-080	EET-58 x B-60	12.67	886.11	0.67	0	10.67	0	3	0					9
197	INIAPT-236	UNAP-2 x EBC-148	6.14	885.71	0.71	0.57	5.86	0.71	5.57	0					7
198	INIAPT-173	EET-387 x 2057	9.25	881.25	1.25	0.25	38	0	4.88	0					8
199	INIAPT-602	CCN-51 x TAP-6	6.78	877.78	1.89	0.33	27.89	0	1	0					9
200	INIAPT-230	EET-387 x A-645	10	877.5	3.4	0.1	14.8	0	2.1	0					10
201	INIAPT-354	UNAP-2 x EBC-148	6.25	875	2.5	0.75	10.25	0	5.5	0					4
202	INIAPT-691	TIP-1	14.33	875	2.67	0.11	14.67	0	0.67	0					9
203	INIAPT-698	TESTIGO HUERTA	6.2	865	1.8	0.8	17.8	0	15.4	0					5
204	INIAPT-413	AMAZ-11 x TAP-12	8.22	861.11	4.22	2.56	33.11	0.56	2.33	0.11					9
205	INIAPT-694	EET-103	8.3	860	2.3	0.9	35.3	0	7.5	0					10
206	INIAPT-081	EET-58 x B-60	11.14	839.29	0.57	0	15.57	0.14	5.14	0.57					7
207	INIAPT-446	CCN-51 x AMAZ-11	6.64	836.36	1.73	0.64	38.45	0	2	0					11
208	INIAPT-088	AMA-11 x CUR-3	7.67	833.33	2	2	11	0.33	5.33	0.33					3
209	INIAPT-657	TAP-6 x EBC-148	7.71	832.14	2.57	0.43	34.29	0	9.86	0					7
210	INIAPT-096	BRISAS-3 x CCAT-1858	7.33	825	1	0.33	4.67	0	3	0					3
211	INIAPT-319	AMA-11 x TAP-3	8.33	816.67	1.33	0	22.67	0	4	0.67					3
212	INIAPT-295	CCN-51 x B-60	8.91	815.91	0.73	0.36	7.18	0	0.82	0					11
213	INIAPT-300	CCN-51 x A-645	7.67	808.33	0	0	4.33	0	1.67	0					3

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					Con Escoba Bruja	Con moniliasis	Con marchitez	Chirimoya	Vegetativa	Cojinete	Mazorca	Semilla			
214	INIAPT-419	CCN-51 x D-147	9.22	805.56	1.89	0.78	22.22	0	1.67	0.11					9
215	INIAPT-636	CCN-51 x TAP-6	7.4	805	2.6	0.4	12.2	0	1	0					5
216	INIAPT-420	CCN-51 x D-147	8	797.22	0.78	0.22	17.89	0	1.33	0					9
217	INIAPT-388	AMAZ-11 x TAP-10	7.83	795.83	0.5	0.33	10.17	0	0.5	0.17					6
218	INIAPT-645	Gloria-3 x EB-2237	8.2	790	1	0.2	42.6	0	5.8	0					5
219	INIAPT-651	SIL-1 x 2057	10.86	785.71	1.57	0.43	35.86	0	3.29	0					7
220	INIAPT-299	CCN-51 x D-147	10.22	780.56	2.67	0.44	22.78	0	0.56	0					9
221	INIAPT-023	EET-387 x A-645	7.75	778.13	1.25	0	9.25	0.13	1.75	0.75					8
222	INIAPT-084	CCN-51 x A-645	7	775	2.2	0.2	29.2	0	1.2	0					5
223	INIAPT-686	LCT-368	8.67	775	2.67	0.5	12.17	0	6.5	0					6
224	INIAPT-690	TAP-6	10.82	772.73	1	0	35.91	0	0.55	0					11
225	INIAPT-235	UNAP-2 x EBC-148	7	766.67	1.33	0.67	8.33	0	4.67	0.33					3
226	INIAPT-449	TAP-10 x EBC-148	7.43	764.29	2.71	0.57	38.14	0	1.43	0					7
227	INIAPT-440	CCN-51 x B-60	7.64	756.82	1.64	0.09	60.27	0	3.45	0					11
228	INIAPT-008	CCN-51 x LCT-46	7.67	756.25	1.5	0.33	50.58	0	6.33	0					12
229	INIAPT-022	CCN-51 x A-645	5.4	755	0.7	0.1	4.6	0.1	2.8	0					10
230	INIAPT-556	SIL-1 x 2057	9.29	750	2.71	0.71	16.14	0.14	1.71	0					7
231	INIAPT-629	CCN-51 x LCT-37	6	747.5	1.7	0.4	12.2	0	3.2	0					10
232	INIAPT-006	CCN-51 x TAP-10	7	746.88	1	0	25.25	0	1	0.13					8
233	INIAPT-416	CCN-51 x B-60	5.13	743.75	3.25	1.75	12.88	0.38	3.88	2.25					8
234	INIAPT-619	Gloria-17 x SNA-0708	9.1	742.5	2.1	1.2	37.3	0	9.1	0					10
235	INIAPT-087	TAP-3 x UNAP-2	7.9	739.9	3.1	0	11.9	0	2.8	0					10
236	INIAPT-218	CCN-51 x B-60	8	730	0.4	0	5.8	0	2.4	0					5
237	INIAPT-503	CCN-51 x LCT-37	6.3	725	0.3	0	5.9	0.1	6.9	0.9					10
238	INIAPT-305	EET-387 x A-645	11.17	720.83	0.75	0.08	7.25	0	0.58	0					12
239	INIAPT-383	TAP-10 x LCT-368	6.33	720.83	2.33	0.42	4.42	0	0.92	0.08					12
240	INIAPT-466	TAP-6 x TIP-1	8.27	720.45	2.09	0.27	2.27	0	0.27	0					11
241	INIAPT-414	EET-387 x D-147	8.7	720	1.2	0.1	15.8	0.2	1.6	0					10
242	INIAPT-059	AMA-11 x TIP-1	9.3	717.5	0.6	0.3	12.6	0	2.6	0.1					10
243	INIAPT-198	AMA-11 x TIP-1	8.63	712.5	1.75	0.25	8.88	0.38	5.38	0					8
244	INIAPT-217	CCN-51 x B-60	10.17	712.5	1.33	0	10.83	0	1.17	0.17					6
245	INIAPT-392	EET-387 x D-147	9.25	712.5	1.5	0	13	0	2.5	0					4
246	INIAPT-401	EET-387 x 2057	7.83	712.5	1.67	0.33	7.83	0	4	0					6
247	INIAPT-151	EET-387 x A-645	7.14	703.57	2.71	0.57	11.14	0	6	0					7
248	INIAPT-224	CCN-51 x D-147	5.73	697.73	1.45	0.36	4.36	0	2.55	0					11
249	INIAPT-471	EET-387 x 2416	8.88	696.88	2	0.5	7.25	0.13	4.25	0					8
250	INIAPT-588	TAP-3 x TIP-1	10.29	696.43	0.71	0.14	7.43	0	0.14	0					7
251	INIAPT-432	CCN-51 x TAP-3	5	695	0.2	0.2	20	0	1	0					5
252	INIAPT-355	TAP-12 x UNAP-2	8.14	692.86	1	0.29	72.29	0	3	0					7
253	INIAPT-418	CCN-51 x D-147	6.17	687.5	2	0	11.5	0	0.83	0.17					6
254	INIAPT-571	CUR-3 x TIP-1	6.5	687.5	0.5	0	1.5	0	1	0					2
255	INIAPT-596	Gloria-3 x EB-2237	8.75	687.5	0.75	0	22.63	0	5.38	0					8
256	INIAPT-276	AMA-11 x TAP-10	7.86	685.71	1.86	0	15	0.14	1	0					7
257	INIAPT-333	CCN-51 x TAP-3	6.5	678.13	1.63	0.5	7	0	2.5	0.13					8
258	INIAPT-123	AMA-11 x TIP-1	7.73	677.27	2.09	0.36	6.18	0.27	1.55	1.55					11
259	INIAPT-307	TAP-3 x UNAP-2	6.75	675	1.5	0.25	14.25	0	1.75	0.25					4
260	INIAPT-082	EET-58 x B-60	9	666.67	3.33	2.33	7.67	0	5	1					3
261	INIAPT-479	CUR-3 x TIP-1	7.11	666.67	1.67	1.33	4.22	0.33	3.78	2.22					9
262	INIAPT-633	CUR-3 x TIP-1	8.11	666.67	2.22	0.33	11.33	0	3.67	0.11					9
263	INIAPT-677	AMAZ-14	5.67	666.67	2.33	1.22	15.44	0.22	12	1.33					9
264	INIAPT-531	EET-387 x 2416	7.1	665	0.9	2.3	6.3	0	1.2	0					10
265	INIAPT-337	TIP-1 x EBC-148	6.67	663.89	2.11	1	10.33	0	2.56	0					9
266	INIAPT-699	Gloria-17 x EB-2237	7.5	662.5	0	0	24	0	9.5	0					2
267	INIAPT-210	EET-387 x D-147	6.91	661.36	0.82	0.18	12.64	0	2.36	0					11

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					Con Escoba Bruja	Con moniliasis	Con marchitez	Chirimoya	Vegetativa	Cojinete	Mazorca	Semilla			
268	INIAPT-385	AMAZ-14 x TIP-1	6.33	658.33	1.33	0.33	9.67	0	3	0.67					3
269	INIAPT-993	SIL-1 x 2416	5.17	658.33	1.17	0.67	23.83	0	2.33	0					6
270	INIAPT-093	TAP-12 x UNAP-2	9.1	655	1.4	0.7	38.7	0	8.1	0.3					10
271	INIAPT-366	GLORIA-1 x SNA-0708	6.43	653.57	0.57	0	16.43	0	10	0					7
272	INIAPT-585	EET-233 x A-645	5.86	653.57	0.29	0	7.86	0	0.43	0					7
273	INIAPT-030	TAP-12 x UNAP-2	6.11	647.22	1	1.22	126	0.33	1.67	0.89					9
274	INIAPT-143	CCN-51 x B-60	10.17	645.83	1.33	0.17	10.17	0	1.5	1					6
275	INIAPT-670	Brisas-13 x SNA-0708	6.29	642.86	2	0	19.43	0	14	0.14					7
276	INIAPT-132	EET-387 x D-147	8.67	638.89	1.56	1.33	12.78	0.11	0.67	0					9
277	INIAPT-111	TIP-1 x EBC-148	6.67	637.5	2	1.33	13.67	0	2.5	0					6
278	INIAPT-171	EET-387 x 2057	7.67	637.5	2	0	25	0	5.5	0.33					6
279	INIAPT-379	CCN-51 x AMAZ-11	7.56	636.11	1.11	0	6.11	0	1.56	0.11					9
280	INIAPT-621	EET-233 x B-60	7.14	635.71	0.86	0	42.71	0	9.29	0.29					7
281	INIAPT-536	TAP-3 x LCT-368	7.2	630	1	1.2	1.6	0	1.6	0					5
282	INIAPT-120	AMA-14 x TIP-1	5.57	625	2	0.57	9.14	0	2.43	0					7
283	INIAPT-311	AMA-11 x CUR-3	6	625	3	0	8	0	3	0					2
284	INIAPT-647	Gloria-17 x SNA-0707	7	625	0	0	10	0	3	0					1
285	INIAPT-071	CCN-51 x LCT-46	6.13	621.88	0.75	0	29.75	0	4.38	0.13					8
286	INIAPT-426	CCN-51 x AMAZ-11	6	620.83	0.67	0.5	5.17	0.17	0.17	0					6
287	INIAPT-040	EET-387 x 2057	6.89	619.44	3	1	1.67	0	2.11	0					9
288	INIAPT-091	CCN-51 x EBC-148	4.75	618.75	1.25	0.25	14.75	0	5.88	0					8
289	INIAPT-658	Gloria-1 x EB-1013	5.33	616.67	1	0.67	10.67	0	14.67	0.33					3
290	INIAPT-673	Gloria-3 x EB-2237	5.67	616.67	0.11	0	13.11	0	3.67	0					9
291	INIAPT-574	TAP-3 x CUR-3	7.64	613.64	2.55	0.27	7.55	0	1.27	0					11
292	INIAPT-108	TIP-1 x LCT-368	5.67	612.5	0.83	0.33	14.83	0	0.83	0					6
293	INIAPT-514	Gloria-3 x CCAT-4688	6.33	612.5	1.17	0	6.33	0	7	0					6
294	INIAPT-207	EET-387 x D-147	8	608.5	0.2	0.2	9.2	0	0.1	0					10
295	INIAPT-395	EET-387 x A-645	7.78	608.33	1	0	26.22	0	1.78	0.56					9
296	INIAPT-317	TAP-12 x UNAP-2	5	600	1.29	0.57	33.57	0	2	0					7
297	INIAPT-511	Gloria-17 x CCAT-4688	7	600	0.2	0	6.4	0	4.8	0					5
298	INIAPT-465	TAP-6 x TIP-1	7.82	597.73	2.55	1.36	10	0	1.55	0					11
299	INIAPT-237	CCN-51 x EBC-148	3.71	589.29	1.29	0.14	4.71	0	3.57	0					7
300	INIAPT-485	CCN-51 x 2367	4.88	587.5	2.75	0.13	11.25	0.13	1.13	0					8
301	INIAPT-220	CCN-51 x B-60	5.1	585	1.1	0.1	16.1	0	1.2	0					10
302	INIAPT-264	TIP-1 x EBC-148	6	580.56	0.56	0.11	10.56	0	1.78	0					9
303	INIAPT-538	CUR-3 x TIP-1	7	575	3.33	0	5.5	0	1.17	0					6
304	INIAPT-472	EET-387 x 2416	7.09	572.73	1	0.36	5.82	0	3.64	0					11
305	INIAPT-033	CCN-51 x AMA-11	4	571.88	0.75	0	18.75	0.13	3	0.25					8
306	INIAPT-362	EBC-148 x LCT-368	7.5	568.75	1	0.13	18.5	0	7	0					8
307	INIAPT-284	EET-387 x D-147	7.33	566.67	0.33	0	16.83	0	3.33	0					6
308	INIAPT-119	AMA-14 x TIP-1	7.73	565.91	2.36	1.09	14.55	0	1	0.27					11
309	INIAPT-101	TAP-12 x EBC-148	7	565	4.2	0.6	15.2	0	1.4	0					5
310	INIAPT-408	AMAZ-11 x LCT-368	6.75	562.5	3.75	2.25	5.25	0	2	0					4
311	INIAPT-086	CCN-51 x AMA-11	5.78	561.11	1	1.11	12	0	2.67	0					9
312	INIAPT-058	AMA-11 x TIP-1	5	558.33	2.83	0.83	18.5	0	5.83	0					6
313	INIAPT-304	EET-387 x A-645	5.33	558.33	2.67	0	6.67	0.33	2	3.67					3
314	INIAPT-001	AMA-11 x TAP-10	5.9	557.5	0.7	0.1	12.7	0	3.2	0					10
315	INIAPT-586	EET-233 x A-645	6	557.5	0.9	1.1	24.4	0	2.8	0.4					10
316	INIAPT-297	AMA-11 x EBC-148	4.25	556.25	4	0.75	18.75	0	14	0					4
317	INIAPT-287	EET-387 x B-60	8.75	550	1.75	1.75	7	0	2.5	0					4
318	INIAPT-642	CCN-51 x LCT-37	6.86	546.43	1.14	1.14	8.71	0	3.14	0					7
319	INIAPT-679	Brisas-13	5.71	542.86	1	0	15.14	0	7.14	0.86					7
320	INIAPT-152	BRISAS-13 x EB-1013	6.67	541.67	0.5	0	9.33	0	2.5	0.5					6
321	INIAPT-308	EET-387 x A-645	6.7	540	2.3	0.9	22	0.2	2.4	0					10

No.	Código	Familia	#mazorcas sanas	Peso fresco (g)	#mazorcas enfermas		#de frutos		#de escobas bruja		Indices		Arquitectura	Color del fruto	#Plantas evaluadas
					Con Escoba Bruja	Con moniliasis	Con marchitez	Chirimoya	Vegetativa	Cojinete	Mazorca	Semilla			
322	INIAPT-361	TAP-12 x EBC-148	6.71	539.29	1.57	0	7.57	0	0.29	0.14					7
323	INIAPT-412	AMAZ-11 x TIP-1	5.63	537.5	1.38	0.63	5.38	0	1.75	0					8
324	INIAPT-592	SIL-1 x B-60	5.17	537.5	0.83	0.5	8.17	0	3.33	0.33					6
325	INIAPT-417	CCN-51 x B-60	7.11	533.33	1.44	0.78	14.67	0	3.56	0					9
326	INIAPT-652	Brisas-13 x SNA-0707	7.33	533.33	1.83	0.83	5	0	6.83	0					6
327	INIAPT-460	AMAZ-14 x EBC-148	4.83	529.17	3	0.17	24.67	0	8.33	0.33					6
328	INIAPT-135	EET-387 x B-60	7.14	528.57	1.43	0.14	4.86	0	0.71	0					7
329	INIAPT-105	CCN-51 x TAP-3	4.75	525	0	0	24.75	0	6	0					4
330	INIAPT-124	AMA-11 x TAP-10	7.8	525	1.4	0.2	23.2	0	2.6	0					5
331	INIAPT-258	AMA-14 x UNAP-2	5	525	0	0	5	0	4	0					1
332	INIAPT-390	AMAZ-11 x TAP-12	6	525	3.33	8.33	24	0	3.67	0					3
333	INIAPT-011	CCN-51 x B-60	3.88	521.88	1.38	0.38	8.5	0	0.25	0					8
334	INIAPT-308	TAP-3 x UNAP-2	6.25	515.63	3.38	0.25	9	0	8.38	0.75					8
335	INIAPT-254	CCN-51 x TAP-3	6.8	515	0.2	0.4	4.6	0	1.4	0					5
336	INIAPT-452	TAP-12 x EBC-148	4.88	512.5	2.63	1.13	16.75	0.13	3.38	0.13					8
337	INIAPT-513	Gloria-17 x SNA-0708	4.5	512.5	2	0	11	0	3	0					2
338	INIAPT-349	CCN-51 x A-645	4.8	510	0.4	0	9.8	0	0.2	0					5
339	INIAPT-422	TAP-3 x UNAP-2	6.2	510	1.2	0.2	34.2	0	2.6	0					5
340	INIAPT-002	AMA-11 x UNAP-2	7.13	509.38	0.88	0.38	26.38	0	5	0					8
341	INIAPT-582	TAP-6 x LCT-368	8.67	505.56	2.11	0.11	7.89	0	2.22	0					9
342	INIAPT-532	EET-233 x A-645	6	500	1.5	0	2	0	3.5	1					2
343	INIAPT-622	EET-233 x 2367	4.88	496.88	0.88	0.13	4.63	0	2.25	0					8
344	INIAPT-502	CCN-51 x LCT-37	4	495	1.2	0.1	10.8	0	1.9	0					10
345	INIAPT-174	TAP-10 x CUR-3	6.5	493.75	2.75	0.25	12.5	0	0.5	0					4
346	INIAPT-598	Gloria-17 x CCAT-4688	5.67	491.67	2	0	4	0	9	0					3
347	INIAPT-496	TAP-6 x TIP-1	4.88	490.63	1.25	0	3.13	0.25	0.75	0					8
348	INIAPT-687	SIL-1	5.4	485	1.6	0.8	10.6	0	0.6	0					5
349	INIAPT-099	TAP-10 x EBC-148	5	481.25	1.75	1.75	50.75	0	5.25	0					4
350	INIAPT-081	TAP-12 x UNAP-2	6.2	480	0.6	0	24.8	0	2.4	0.2					5
351	INIAPT-066	CCN-51 x TAP-10	5.57	475	0	0	10.57	0	0.43	0					7
352	INIAPT-092	CCN-51 x EBC-148	4.33	475	1.83	0.17	26	0	4.33	0					6
353	INIAPT-444	CCN-51 x EBC-148	3	475	1	0	11	0	0	0					1
354	INIAPT-597	TAP-3 x CUR-3	6.78	475	5	0.11	22.44	0.33	5.78	0.33					9
355	INIAPT-550	AMAZ-14 x LCT-368	5.25	471.88	1.5	1.5	7.5	0.25	6.38	0					8
356	INIAPT-112	TIP-1 x EBC-148	5.83	470.83	0.67	0.33	6.83	0	3.5	0					6
357	INIAPT-409	AMAZ-14 x TIP-1	6	468.75	1.13	0.75	4.88	0	3.13	0.25					8
358	INIAPT-555	SIL-1 x 2057	6.43	467.86	0.57	0.14	68	0	6	0					7
359	INIAPT-552	TAP-6 x TIP-1	6.73	465.91	4.82	1.09	7.82	0.09	1.82	0.09					11
360	INIAPT-326	GLORIA-3 x SNA-0707	4.63	465.63	1.13	0	11.75	0	12.88	0					8
361	INIAPT-590	SIL-1 x B-60	5.89	463.89	1.78	0.11	15.67	0	2.33	0					9
362	INIAPT-166	CCN-51 x AMA-11	4.6	460	1.4	0.2	13.6	0	1.4	0					5
363	INIAPT-064	CCN-51 x TAP-10	4.78	458.33	0.22	0	12.89	0	0.67	0					9
364	INIAPT-589	TAP-3 x TIP-1	6.2	457.5	1.8	0	7	0	2.2	0					10
365	INIAPT-060	AMA-11 x UNAP-2	5.25	456.25	1.63	3.5	15.38	0	4.88	0					8
366	INIAPT-324	GLORIA-3 x SNA-0707	5.17	454.17	1	0	30.67	0	9.33	0					12
367	INIAPT-662	TAP-3 x CUR-3	5.33	452.78	2.89	0.44	9.67	0	15.44	0					9
368	INIAPT-196	GLORIA-1 x SNA-0708	7	450	4	0	8	0	5	0					1
369	INIAPT-328	EBC-148 x LCT-368	5	450	5.5	1.5	14.5	0	19	0					2
370	INIAPT-428	TAP-10 x CUR-3	4.33	450	1.33	0.33	11.67	0	2	0					3
371	INIAPT-520	CCN-51 x TAP-6	4.63	450	1.13	0.63	9	0	1.25	0					8
372	INIAPT-436	AMAZ-11 x UNAP-2	5.5	445.83	0.83	0	13.67	0	2.33	0					6
373	INIAPT-223	AMA-11 x EBC-148	4.17	445	2	1.67	22.17	0.17	8	0					6
374	INIAPT-389	AMAZ-11 x TAP-12	5.14	442.86	0.71	0	19.14	0	1	0					7
375	INIAPT-660	Gloria-1 x SNA-0707	5.86	442.86	0	0	13.86	0.14	4	0					7

No.	Código	Familia	# mazorcas sanas	Peso fresco (g)	# mazorcas enfermas		# de frutos		# de escobas bruja		Indices		Arquitectura	Color del fruto
					Con Escoba Bruja	Con moniliasis	Con marchitez	Chirimoya	Vegetativa	Cojinete	Mazorca	Semilla		
376	INIAPT-257	CCN-51 x TAP-3	3.33	441.67	0	0	0	0	0	0				
377	INIAPT-068	CCN-51 x TAP-10	3.2	440	0.4	0.2	19.3	0	1.5	0				
378	INIAPT-069	CCN-51 x TAP-10	4.6	440	0.4	0	26.2	0	0.2	0				
379	INIAPT-567	CCN-51 x LCT-37	3.2	440	2.6	0.6	18.6	0	2.4	0				
380	INIAPT-410	AMAZ-14 x TIP-1	4.57	439.29	4.29	0.57	9.71	0.29	4.71	0.14				
381	INIAPT-049	TIP-1 x EBC-148	4.75	437.5	1.5	0.38	6.13	0.25	1.63	0				
382	INIAPT-293	CCN-51 x B-60	5.7	437.5	0.8	0	7.2	0	1.6	0				
383	INIAPT-475	CCN-51 x LCT-37	4.92	437.5	0.5	0	3.33	0	1	0				
384	INIAPT-562	TAP-6 x EBC-148	6	437.5	1.75	0.5	9.75	0.5	1.5	0				
385	INIAPT-330	TAP-10 x LCT-368	7.11	433.33	1.56	1	8.33	0	1.44	0				
386	INIAPT-248	TAP -10 x EBC-148	4.86	432.14	2.14	0.57	7.14	0	2.43	0				
387	INIAPT-127	AMA-11 x TAP-10	6.44	430.56	0.67	0.11	25.44	0	2.89	0				
388	INIAPT-231	EET-387 x A-645	4.7	430	0.6	0.1	4.1	0.1	1.4	0				
389	INIAPT-034	CCN-51 x AMA-11	3.25	425	1	0.38	11.5	0	3	0				
390	INIAPT-086	EET-387 x A-645	6.5	425	0.5	0	6.17	0	6	0				
391	INIAPT-075	AMA-11 x EBC-148	3.71	421.43	1.71	0.57	21.29	0.14	3.43	0				
392	INIAPT-272	GLORIA-1 x CCAT-185(	4.71	421.43	0.14	0	13.71	0	8.57	0				
393	INIAPT-292	CCN-51 x LCT-46	5.75	418.75	1.75	0	17.5	0.25	5.5	1				
394	INIAPT-227	EET-58 x B-60	5.78	416.67	0.44	0.11	6	0	8.44	0				
395	INIAPT-004	AMA-11 x TAP-12	4.63	415.63	0.63	0	11.5	0	1.5	0.13				
396	INIAPT-028	CCN-51 x EBC-148	3.63	412.5	1.38	0	10.25	0.13	3.75	0				
397	INIAPT-329	TAP-10 x LCT-368	4.9	412.5	0.7	0.1	10.4	0	0.9	0				
398	INIAPT-458	AMAZ-11 x TIP-1	4.17	412.5	1.25	0.42	5.67	0.33	4	0.17				
399	INIAPT-250	EBC-148 x LCT-368	6.67	411.11	1.78	0.56	9	0	14	0.11				
400	INIAPT-617	Gloria-1 x SNA-0707	5	408.33	1.33	0	17.67	0	3	4.67				
401	INIAPT-474	SIL-1 x B-60	4.29	407.14	0.14	0	4.57	0	1.71	0				
402	INIAPT-604	EET-233 x B-60	7.38	406.25	1.13	0	36.88	0	4.63	0				
403	INIAPT-521	EET-233 x B-60	4.8	405	0	0	28.4	0	5	0				
404	INIAPT-402	TAP-10 x CUR-3	6.5	404.17	0.67	0	22.5	0	0.67	0				
405	INIAPT-359	TAP-10 x CUR-3	4.91	402.27	0.18	0.09	11.55	0.09	1	0				
406	INIAPT-168	TAP-10 x UNAP-2	4	400	0	0	2	0	1	0				
407	INIAPT-381	TAP-10 x UNAP-2	5	400	0.5	7	3	0	4.5	0.5				
408	INIAPT-507	CUR-3 x TIP-1	4.82	400	3.91	0.64	2.73	0.09	0.36	0				
409	INIAPT-377	CCN-51 x EBC-148	5.5	393.75	0	0	6	0	9.25	0				
410	INIAPT-394	CCN-51 x A-645	4	393.75	0.75	0.5	4.25	0	0.5	0				
411	INIAPT-600	Gloria-17 x SNA-0708	3.75	393.75	1	0	8.5	0	11.25	0.75				
412	INIAPT-316	TAP-12 x UNAP-2	7.4	390	0.7	0.1	13	0	1.7	0				
413	INIAPT-457	AMAZ-14 x TIP-1	5.33	386.11	2.22	1.11	5.22	0	0.78	0				
414	INIAPT-498	EET-233 x 2057	4.88	381.25	0.5	0.25	5.88	0.13	5.75	0				
415	INIAPT-518	AMAZ-14 x EBC-148	4.6	380	1.6	0	5.8	0.6	4.8	0				
416	INIAPT-144	CCN-51 x B-60	4.67	379.17	1.33	0	3.17	0	4	0.17				
417	INIAPT-403	TAP-10 x CUR-3	4.86	375	0.71	0.29	15	0	0.43	0				
418	INIAPT-557	Brisas-13 x SNA-0707	5	375	0.33	0	9.67	0	19	3.67				
419	INIAPT-478	CUR-3 x TIP-1	4	371.43	0.57	0	0.43	0	0.43	0				
420	INIAPT-464	TAP-6 x TIP-1	4.67	366.67	0.5	0.17	4.5	0	0	0				
421	INIAPT-246	TAP-10 x CUR-3	3.8	365	0.2	0	8.4	0	0.4	0				
422	INIAPT-062	AMA-11 x TAP-12	6	362.5	0.33	0	12	0.17	2.17	0				
423	INIAPT-076	AMA-11 x EBC-148	3.67	362.5	0.5	0.17	4.33	0.17	2.5	0				
424	INIAPT-126	AMA-11 x TAP-10	2	362.5	1	0.5	8	0	1	0				
425	INIAPT-244	BRISAS-3 x CCAT-1858	4	362.5	1.5	0	16	0	14.5	0				
426	INIAPT-039	GLORIA-3 x SNA-0707	3.33	358.33	0.67	0	10	0	20.33	0				
427	INIAPT-438	AMAZ-11 x TAP-12	5.22	358.33	0.67	0.22	13	0	2	0				
428	INIAPT-634	CUR-3 x TIP-1	3.7	357.5	5.2	0.4	3.7	0	1	0				
429	INIAPT-042	TAP -10 x EBC-148	3.83	354.17	0.83	0.17	13	0	3.33	0				

No.	Código	Familia	#mazor-cas sanas	Peso fresco (g)	#mazorcas enfermas		#de frutos		#de escobas bruja		Indices		Arquitec-tura	Color del fruto	#Plantas evaluadas
					Con Escoba Bruja	Con moniliasis	Con marchitez	Chiri-moya	Vegeta-tiva	Coji-nete	Ma-zorca	Se-milla			
430	INIAPT- 494	Gloria-1 x CCAT-4688	3.67	354.17	1.5	0	13	0	5.5	0					6
431	INIAPT- 102	TAP-12 x EBC-148	6	350	1	0	8	0	8	0					1
432	INIAPT- 228	CCN-51 x A-645	4	350	0.4	0	2.8	0	2	0					5
433	INIAPT- 631	SIL-1 x 2416	4.4	350	1	0	10.6	0	4.4	0					5
434	INIAPT- 176	TAP-10 x EBC-148	3.33	341.67	0.5	0.17	13.83	0	0.33	0					6
435	INIAPT- 382	EBC-148 x LCT-368	3.67	341.67	2	0.33	2.67	0.67	12.33	0					3
436	INIAPT- 141	CCN-51 x B-60	4.71	339.29	0.29	0	3.43	0	0.14	0					7
437	INIAPT- 007	CCN-51 x TAP-10	3.33	337.5	0	0	9.67	0	1.17	0					6
438	INIAPT- 618	Gloria-17 x SNA-0707	4.83	337.5	0.17	0	29	0	5.17	0					6
439	INIAPT- 447	TAP-10 x UNAP-2	4.13	334.38	1.63	1.63	18.88	0	1.38	0					8
440	INIAPT- 318	AMPA-11 x TAP-3	4.33	333.33	0.67	0	0	0	0.67	0					3
441	INIAPT- 055	GLORIA-1 x CCAT-185	3	325	1	0	9	0.33	10.67	0					3
442	INIAPT- 149	CCN-51 x A-645	3	325	0	0	3	0	0	0					1
443	INIAPT- 375	UNAP-2 x EBC-148	3	325	0	0	0	0	2	0					1
444	INIAPT- 453	EBC-148 x LCT-368	4.25	325	1	2.5	9.5	1	25.5	0					4
445	INIAPT- 271	AMPA-14 x TIP-1	4.2	320	0.2	0	3.8	0	0.2	0					5
446	INIAPT- 279	AMPA-11 x TAP-12	3.71	317.86	0.71	0.14	11.57	0	3	0					7
447	INIAPT- 497	SIL-1 x 2057	2.8	315	1.2	0.6	6.6	0	1.6	0					5
448	INIAPT- 637	Gloria-1 x EB-2237	4.29	314.29	0.71	0.14	11.86	0	10.57	0					7
449	INIAPT- 315	UNAP-2 x EBC-148	2.25	312.5	0.25	0.25	8.25	0	4	0					4
450	INIAPT- 492	Brisas-13 x CCAT-185	3.5	312.5	1	0	3.5	0	8	0					2
451	INIAPT- 448	EET-387 x 2057	5	308.33	0	0	9.33	0	1.67	0					3
452	INIAPT- 504	CCN-51 x LCT-37	3.25	306.25	0	0.5	4.75	0	1	0					4
453	INIAPT- 523	Brisas-13 x CCAT-185	3.2	305	0.2	0	7.6	0	3.2	0					5
454	INIAPT- 053	AMPA-11 x LCT-368	4.78	302.78	1.44	0.22	3.11	0	6.33	0					9
455	INIAPT- 129	AMPA-11 x UNAP-2	4.6	300	0.4	0.6	17.6	0	1.8	0					5
456	INIAPT- 266	GLORIA-1 x SNA-0708	3	300	2	0	8	0	1	0					1
457	INIAPT- 325	GLORIA-3 x SNA-0707	4.67	300	0	0	8	0	4.67	0					3
458	INIAPT- 477	Gloria-17 x EB-2237	4	300	0	0	3	0	1	0					1
459	INIAPT- 654	EET-233 x A-645	3.36	293.18	0.55	0	11.64	0	1.64	0					11
460	INIAPT- 320	CCN-51 x AMPA-11	3.63	290.63	1.25	0.5	43.75	0	2.13	0					8
461	INIAPT- 591	SIL-1 x B-60	4.38	290.63	3	0.25	7	0	0.5	0					8
462	INIAPT- 421	EET-387 x A-645	5.2	290	0.6	0.4	12.6	0	2	0					5
463	INIAPT- 674	Gloria-17 x SNA-0707	3.4	290	0.4	0	6.4	0	6.4	0.8					5
464	INIAPT- 018	EET-58 x B-60	3	287.5	0.83	0.33	5.5	0	2.5	1					6
465	INIAPT- 353	BRISAS-13 x EB-1013	5.75	287.5	0	0	6.5	1	4	0					4
466	INIAPT- 548	CCN-51 x TAP-6	3	287.5	1	0.25	2.75	0	3	0					4
467	INIAPT- 672	SIL-1 x 2416	4.83	287.5	1.67	0.17	8	0	5.33	0					6
468	INIAPT- 083	CCN-51 x A-645	2.86	285.71	0.57	0.57	3.29	0	1	0					7
469	INIAPT- 635	Gloria-1 x SNA-0707	4	283.33	0	0	16.33	0	8	0					3
470	INIAPT- 683	EBC-148	2.5	281.25	1.5	0	5.5	0	4	0					4
471	INIAPT- 535	SIL-1 x 2416	3.6	280	0.6	0	13.8	0	1.4	0					5
472	INIAPT- 121	GLORIA-1 x CCAT-185	3	275	2	0	1	1	10	0					1
473	INIAPT- 213	CCN-51 x TAP-10	3.2	275	1.4	0.2	11.8	0	0.4	0					5
474	INIAPT- 607	EET-233 x 2367	4	275	1	1	6	0	6	0					1
475	INIAPT- 190	TIP-1 x LCT-368	4	266.67	1	2.33	5.33	0	3.33	0.33					3
476	INIAPT- 200	AMPA-11 x TAP-10	3	266.67	0.67	0	28.67	0	3	0					3
477	INIAPT- 116	AMPA-11 x LCT-368	5	262.5	0.5	0	5	0	7	0					2
478	INIAPT- 242	CCN-51 x AMPA-11	2.2	260	1.8	0.2	8.6	0	3	0					5
479	INIAPT- 499	TAP-6 x EBC-148	2	258.33	1	0	15.67	0	7.33	0.33					3
480	INIAPT- 500	TAP-6 x EBC-148	2.43	257.14	0.43	0	7.86	0	3	0					7
481	INIAPT- 373	CCN-51 x A-645	2.56	255.56	0.56	0.44	3.89	0	0.78	0					9
482	INIAPT- 136	EET-387 x B-60	5	255	0.2	0	8.4	0	2.2	0					5
483	INIAPT- 268	AMPA-14 x TIP-1	3.63	253.13	0.75	0.38	3.38	0	1	0.25					8

No.	Código	Familia	# mazorcas sanas	Peso fresco (g)	# mazorcas enfermas		# de frutos		# de escobas bruja		Indices		Arquitectura	Color del fruto	# Plantas evaluadas
					Con Escoba Bruja	Con moniliasis	Con marchitez	Chirimoya	Vegetativa	Cojinete	Mazorca	Semilla			
484	INIAPT-090	UNAP-2 x EBC-148	2	250	0.5	0	0.5	0	5	0					2
485	INIAPT-098	TAP-10 x CUR-3	3	250	0	0	2	0	1	0					1
486	INIAPT-313	UNAP-2 x EBC-148	4.25	250	0.25	0	22	0	0.5	0					4
487	INIAPT-327	TAP-12 x EBC-148	3	250	0	0	14	0	1	0					1
488	INIAPT-365	AMAZ-14 x UNAP-2	2.75	250	1	0.75	7	0	4	0					4
489	INIAPT-568	CUR-3 x TIP-1	2	250	0	0	1	0	0	0					1
490	INIAPT-616	Brisas-13 x SNA-0708	3	250	1	0	8	0	11	0					1
491	INIAPT-350	EET-387 x A-645	3.8	247.5	1.1	0.3	4.4	0.1	3.4	0.3					10
492	INIAPT-253	TAP-10 x LCT-368	3.2	245	0.6	0.2	5.6	0	2.6	0					5
493	INIAPT-095	TAP-10 x UNAP-2	3.5	243.75	0.5	0	5.75	0	1.25	0					4
494	INIAPT-371	CCN-51 x LCT-46	3	241.67	0.33	0	37	0	1.33	0					3
495	INIAPT-296	AMA-11 x EBC-148	3	237.5	0.5	0	1.5	0	1.5	0					2
496	INIAPT-580	Brisas-13 x CCAT-1858	3	237.5	0	0	0	0	4.5	0					2
497	INIAPT-027	UNAP-2 x EBC-148	2.29	235.71	0.43	0.43	14.86	0	12.29	0					7
498	INIAPT-576	Gloria-17 x SNA-0708	3.2	235	0.4	0	10	0	3	0					5
499	INIAPT-463	AMAZ-14 x LCT-368	2.63	234.38	0.75	0.38	1.5	0.88	3.5	0.13					8
500	INIAPT-469	EET-233 x 2057	4	233.33	0	0.33	8.67	0	1	0					3
501	INIAPT-608	TAP-6 x LCT-368	2.86	232.14	0.86	0.29	3.29	0	2.57	0					7
502	INIAPT-013	CCN-51 x B-60	3.5	225	0.5	0	5	0	1.25	0					4
503	INIAPT-110	AMA-14 x UNAP-2	4	225	0	0	11	0	5	0					1
504	INIAPT-177	TAP-10 x EBC-148	3	225	0	0	3	0	1	0					1
505	INIAPT-397	UNAP-2 x EBC-148	2.75	225	0.5	0	5.75	0.25	3.75	0					4
506	INIAPT-415	EET-387 x B-60	3.38	225	0.88	0	11.5	0	3.13	0					8
507	INIAPT-522	AMAZ-14 x LCT-368	2.5	225	0	0	1.5	0	4.5	0					2
508	INIAPT-534	CCN-51 x LCT-37	2.25	225	0.88	0.75	3.63	0	1.88	0					8
509	INIAPT-620	AMAZ-14 x EBC-148	2	225	0	0	9	0	17	0					1
510	INIAPT-695	SCA-6	5.5	225	2	0	12	0	0.5	0					2
511	INIAPT-097	GLORIA-3 x SNA-0707	4.17	220.83	0.5	0	11.33	0	5.67	0					6
512	INIAPT-434	AMAZ-11 x TIP-1	2	220.83	2.17	0.17	3.5	0	0.83	0					6
513	INIAPT-275	AMA-11 x TIP-1	5.25	218.75	0.75	0.5	20.25	0	1.75	0					4
514	INIAPT-261	TIP-1 x EBC-148	2.67	216.67	1	0	2	0	2.33	0					3
515	INIAPT-396	UNAP-2 x EBC-148	2.33	216.67	0	0	8	0	6	0					3
516	INIAPT-650	CCN-51 x AMAZ-14	1.33	216.67	0	0	8	0	1.33	0					3
517	INIAPT-671	Brisas-13 x SNA-0708	2.71	214.29	1.43	0	15.86	0	10	0					7
518	INIAPT-044	EBC-148 x LCT-368	2.5	212.5	0	0	2.5	0	2	0					2
519	INIAPT-241	CCN-51 x AMA-11	3	212.5	1	0	13	0	10	0					2
520	INIAPT-260	TIP-1 x EBC-148	3	212.5	0	0	2	0	2.5	0.5					2
521	INIAPT-668	Brisas-13 x SNA-0707	3	212.5	1.5	0	2.5	0	4	0					2
522	INIAPT-331	TAP-10 x LCT-368	3.5	208.33	1.33	0	5.5	0	0.5	0					6
523	INIAPT-346	AMA-11 x TIP-1	2.33	208.33	0	0.33	5	0	2.67	0					3
524	INIAPT-407	AMAZ-11 x LCT-368	3	208.33	1.67	1.33	5	0	8	0					3
525	INIAPT-454	TAP-10 x LCT-368	3.33	208.33	0.67	0.5	1	0	1.67	0					6
526	INIAPT-367	AMAZ-14 x TIP-1	3	206.25	0.25	0	13.25	0	2	0					4
527	INIAPT-306	BRISAS-13 x EB-1013	2.13	203.13	0.25	0	7.38	0	3.75	0					8
528	INIAPT-003	AMA-11 x UNAP-2	1	200	0	0	10	0	3	0					1
529	INIAPT-336	AMA-14 x UNAP-2	1.33	200	0	0	3.33	0	3.33	0					3
530	INIAPT-459	AMAZ-14 x EBC-148	2	200	0.5	0	3	0	3.5	0					2
531	INIAPT-482	Gloria-17 x SNA-0707	2	200	1	0	6	0	7	0					1
532	INIAPT-519	CCN-51 x TAP-6	1	200	2	0	8	0	2	0					1
533	INIAPT-443	AMAZ-11 x CUR-3	3.13	196.88	0.38	0	3.25	0	5	0					8
534	INIAPT-357	Brisasa30 x CCAT-1858	2	191.67	0	0	11.67	0	7.67	0					3
535	INIAPT-107	TIP-1 x LCT-368	2.4	190	1.2	0	0.6	0	0.6	0					5
536	INIAPT-341	AMA-11 x LCT-368	3	185	0.8	0.2	3	0	3.8	0.2					5
537	INIAPT-014	AMA-11 x EBC-148	2	183.33	0.33	1	4.5	0	2	0					6

No.	Código	Familia	#mazorcas sanas	Peso fresco (g)	#mazorcas enfermas		#de frutos		#de escobas bruja		Indices		Arquitectura	Color del fruto	#Plantas evaluadas
					Con Escoba Bruja	Con moniliasis	Con marchitez	Chirimoya	Vegetativa	Cojinete	Mazorca	Semilla			
538	INIAPT-020	EET-58 x B-60	2.33	183.33	1.67	0.33	3.33	0	6.33	0					3
539	INIAPT-139	CCN-51 x B-60	3	183.33	0	0	2.67	0	1.33	0					3
540	INIAPT-322	TAP-10 x UNAP-2	2.17	183.33	0	0	3.67	0	0	0					6
541	INIAPT-570	CUR-3 x TIP-1	2.83	183.33	0.5	0	3.83	0	0.83	0					6
542	INIAPT-115	AMA-11 x LCT-368	2.5	181.25	0	0.25	2	0	6.5	0					4
543	INIAPT-156	TAP-3 x UNAP-2	3.25	181.25	0.25	0	5.25	0	2	0					4
544	INIAPT-343	AMA-14 x TIP-1	2.33	179.17	0	0	4.17	0	0.83	0					6
545	INIAPT-154	TAP-3 x UNAP-2	1.8	175	0.8	0.2	7	0	1.2	0					5
546	INIAPT-162	CCN-51 x EBC-148	3.2	175	0.2	0	4.2	0	4.2	0					5
547	INIAPT-240	CCN-51 x AMA-11	1.5	175	0	0	3.5	0	2	0					2
548	INIAPT-338	TIP-1 x EBC-148	2.8	175	1	0.2	4.6	0	0.2	0					5
549	INIAPT-387	CCN-51 x A-645	2.25	175	1.25	0.25	4.75	0	0.75	0					4
550	INIAPT-404	TAP-10 x EBC-148	1.5	175	1	0	5.5	0	2	0					2
551	INIAPT-542	Gloria-3 x EB-2237	2	175	0	0	2	0	0.5	0					2
552	INIAPT-612	SIL-1 x B-60	3	175	0.5	0	10	0	0.5	0					2
553	INIAPT-431	TAP-10 x LCT-368	2	170.83	0.5	0.5	2.67	0	2	0					6
554	INIAPT-601	Gloria-3 x SNA-0708	2	170	0.6	0	6.8	0	2.8	0					5
555	INIAPT-278	AMA-11 x UNAP-2	2	168.75	1.5	0.25	28	0	2.75	0					4
556	INIAPT-501	Gloria-1 x EB-1013	2	168.75	0.25	0	5	0	5.5	0					4
557	INIAPT-017	EET-58 x B-60	2.33	166.67	0.33	0	10	0	2	0					3
558	INIAPT-180	EBC-148 x LCT-368	1.33	158.33	0.67	0	8.67	0.33	4	0					3
559	INIAPT-508	Gloria-3 x EB-2237	2.33	158.33	0	0	13.33	0	4.33	0					3
560	INIAPT-584	EET-233 x A-645	2.33	158.33	0	0	9.33	0	7	0					3
561	INIAPT-202	AMA-11 x UNAP-2	1	150	0	0	14	0	8	0					1
562	INIAPT-451	TAP-12 x EBC-148	2.5	150	1.67	0.17	18.33	0	4.17	0					6
563	INIAPT-473	EET-233 x A-645	2.5	150	0	0	7.5	0	2	0					2
564	INIAPT-529	Gloria-1 x EB-2237	2.5	150	2.5	0	13	0	10	0					2
565	INIAPT-615	TAP-6 x EBC-148	2.75	143.75	0.25	0	19	0	2.75	0					4
566	INIAPT-179	EBC-148 x LCT-368	2	141.67	1	0	3.5	0	1.33	0					6
567	INIAPT-583	Brisas-13 x SNA-0707	2	141.67	1	0	0.33	0	2.67	0					3
568	INIAPT-626	EET-233 x A-645	2.33	141.67	0.33	0	8	0	0.33	0					3
569	INIAPT-203	AMA-11 x UNAP-2	2	137.5	0	0	9.5	0	0.5	0					2
570	INIAPT-234	TAP-3 x UNAP-2	2	137.5	1.5	0.5	3.25	0	3.5	0					4
571	INIAPT-623	EET-233 x 2367	3	137.5	0	0	9	0	6	0					2
572	INIAPT-130	AMA-11 x UNAP-2	3.33	133.33	0	0	27.33	0	2	0					3
573	INIAPT-212	EET-387 x B-60	2	131.25	0.25	0.25	1	0	1.5	0					4
574	INIAPT-610	Brisas-13 x SNA-0707	2	131.25	0.5	0	12.5	0	6.5	0					4
575	INIAPT-613	SIL-1 x B-60	2.5	131.25	0.25	0	10.5	0	2.5	0					4
576	INIAPT-161	CCN-51 x EBC-148	1	125	0.5	1.5	3	0	1.5	0					2
577	INIAPT-191	TIP-1 x LCT-368	2.5	125	0	0	2	0	1	0					2
578	INIAPT-386	AMAZ-14 x TIP-1	1.67	125	0.33	0	6	0	0.67	0					3
579	INIAPT-515	AMAZ-14 x EBC-148	1.5	125	0	0	3.5	0	2	0					2
580	INIAPT-669	EET-233 x A-645	2.5	125	0	0	12	0	3	0					2
581	INIAPT-544	Gloria-17 x SNA-0708	1.5	118.75	0.75	0	1	0	1.75	0					4
582	INIAPT-575	Gloria-17 x SNA-0707	1.25	118.75	0.25	0	7	0	5.25	0					4
583	INIAPT-148	CCN-51 x A-645	1.67	116.67	0	0	0.33	0	0.33	0					3
584	INIAPT-692	UNAP-2	1.33	116.67	0.33	0	12	0	8.33	0					3
585	INIAPT-114	AMA-11 x LCT-368	4	112.5	0	0	4	0	1.5	0					2
586	INIAPT-376	UNAP-2 x EBC-148	1	112.5	0	0	1.5	0	6.5	0					2
587	INIAPT-455	AMAZ-14 x UNAP-2	1	112.5	0	0	23	0	5	0					2
588	INIAPT-491	Brisas-13 x CCAT-1858	1	108.33	0	0	8	0	3.33	0					3

No.	Código	Familia	#mazorcas sanas	Peso fresco (g)	#mazorcas enfermas		#de frutos		#de escobas bruja		Indices		Arquitectura	Color del fruto	#Plantas evaluadas
					Con Escoba Bruja	Con moniliasis	Con marchitez	Chirimoya	Vegetativa	Cojinete	Mazorca	Semilla			
589	INIAPT-609	Brisas-13 x SNA-0707	1.75	106.25	0	0	3	0	3.75	0.25					4
590	INIAPT-054	AMA-14 x TIP-1	1.6	105	0.2	0	4.6	0	0.4	0					5
591	INIAPT-070	CCN-51 x LCT-46	1	100	0	0	0	0	4	0					1
592	INIAPT-199	AMA-11 x TIP-1	1	100	0	0	7	0	0	0					1
593	INIAPT-204	AMA-11 x UNAP-2	1	100	0	0	1	0	0	0					1
594	INIAPT-206	AMA-11 x TAP-12	3	100	1	0	13	0	0	0					1
595	INIAPT-222	AMA-11 x EBC-148	1	100	0	0	0	0	1	0					1
596	INIAPT-262	TIP-1 x EBC-148	2	100	0	0	4.4	0	1.4	0					5
597	INIAPT-312	AMA-11 x CUR-3	1	100	0	0	1	0	1	0					1
598	INIAPT-358	EET-387 x 2057	1	100	0	0	0	0	5	0					1
599	INIAPT-423	UNAP-2 x EBC-148	2	100	2	0	4	0	1	0					1
600	INIAPT-430	EBC-148 x LCT-368	2	100	0	0	0	0	2	0					1
601	INIAPT-551	CCN-51 x AMAZ-14	3	100	0	0	11	0	6	0					1
602	INIAPT-558	EET-387 x 2416	1	100	0	0	0	0	0	0					1
603	INIAPT-606	Brisas-13 x CCAT-1858	1	100	0	0	0	0	5	0					1
604	INIAPT-624	TAP-6 x LCT-368	2	100	2	0	9	0	0	0					1
605	INIAPT-640	EET-233 x A-645	1	100	2	0	0	0	0	0					1
606	INIAPT-646	Gloria-17 x CCAT-4688	1	100	0	0	0	0	3	0					1
607	INIAPT-661	Gloria-3 x EB-2237	1	100	0	0	33	0	11	0					3
608	INIAPT-226	EET-58 x B-60	2.67	91.67	0.33	0	11.33	0	4	0					3
609	INIAPT-255	CCN-51 x TAP-3	1.33	91.67	0	0	1	0	0.67	0					2
610	INIAPT-133	EET-387 x D-147	1.5	87.5	0	0	1.5	0	3	0					2
611	INIAPT-277	AMA-11 x TAP-10	1.5	87.5	0	0	1	0	0.5	0					3
612	INIAPT-441	CCN-51 x A-645	1	83.33	0.33	0	0.67	0	0.33	0					3
613	INIAPT-541	Gloria-3 x EB-2237	1.67	83.33	0.67	0	11	0	6	0					1
614	INIAPT-052	AMA-11 x LCT-368	1	75	0	0	1	0	3	0					2
615	INIAPT-079	CCN-51 x D-147	1	75	0.5	0	5	0	1	0					2
616	INIAPT-181	TAP-10 x LCT-368	1.5	75	0	0	1.5	0	0	0					1
617	INIAPT-251	TAP-10 x LCT-368	2	75	2	0	2	0	1	0					2
618	INIAPT-267	AMA-14 x TIP-1	1.5	75	0	0	1	0	4.5	0					2
619	INIAPT-530	Brisas-13 x SNA-0707	1	75	0	0	2.5	0	2	0					3
620	INIAPT-545	Gloria-17 x SNA-0708	2	66.67	0.67	0	4	0	0.67	0					2
621	INIAPT-087	TAP-10 x UNAP-2	1	62.5	0	0	4.5	0	1.5	0					2
622	INIAPT-516	AMAZ-14 x EBC-148	1	62.5	0	0	2.5	0	2.5	0					2
623	INIAPT-628	TAP-6 x EBC-148	1	62.5	0	0	0	0	0	0					1
624	INIAPT-243	TAP-10 x UNAP-2	1	50	0	0	2	0	0	0					1
625	INIAPT-259	AMA-14 x UNAP-2	1	50	0	0	0	0	1	0					1
626	INIAPT-270	AMA-14 x TIP-1	2	50	0	0	2	0	0	0					1
627	INIAPT-340	AMA-11 x LCT-368	1	50	0	0	1	0	1	0					1
628	INIAPT-342	AMA-11 x LCT-368	2	50	0	0	2	0	2	0					1
629	INIAPT-433	AMAZ-11 x LCT-368	1	50	0	0	4	0	0	0					1
630	INIAPT-483	Gloria-3 x CCAT-4688	1	50	0	0	4	0	2	0					2
631	INIAPT-047	TIP-1 x LCT-368	1	37.5	0	0	0.5	0	0.5	0					1
632	INIAPT-089	UNAP-2 x EBC-148	1	25	0	0	0	0	2	0					1
633	INIAPT-128	AMA-11 x TAP-10	1	25	0	0	0	0	3	0					1
634	INIAPT-249	EBC-148 x LCT-368	1	25	0	0	4	0	2	0					1
635	INIAPT-344	AMA-14 x TIP-1	1	25	0	0	0	0	0	0					2
636	INIAPT-587	EET-233 x A-645	1	25	1	0	7	0	6	0					

Table 12. Resultados de la evaluación de un grupo de clones sembrados en el Lote Ganadería. Los datos están acumulados hasta marzo 2010, para el rendimiento y otras variables (son datos por planta). Fecha de siembra marzo 2008. EET-Pichilingue, INIAP.

No.	Clon	Familia	# Mazorcas sanas	Peso fresco (g)	# Mazorcas enfermas		# de Frutos		# Escoba de bruja		Plantas evaluadas
					Con Escoba de Bruja	Con Monillia	Con Marchitez	Chirimoya	Vegetativa	Cojinete	
1	INIAPG 069	AMA-11 x TAP-6	8.17	800	0.08	0	24.42	2.33	4.58	6.67	12
2	INIAPG 036	TAP-3 x EBC-148	3.92	439.58	0.25	0.17	3.33	0	4.83	0	12
3	INIAPG 276	CCN-51 x LCT-368	4.25	427.5	0	0	68.67	0.33	5	0	12
4	INIAPG 149	CCN-51 x 2057	3.17	420.83	0.33	0.5	8.17	0.33	4.83	0.08	12
5	INIAPG 093	TAP-10 x TAP-3	3.42	385.42	0.08	0	5.25	0.08	2.08	0	12
6	INIAPG 353	SIL-1 x D.147	4.58	381.25	0.17	0	21.58	0	2.17	0.08	12
7	INIAPG 006	CCN-51 x TIP-1	2.08	377.08	0.25	0.25	8.25	0.09	3.27	0	11
8	INIAPG 308	EET-58 x 2416	3.17	339.58	0	0	10.5	0.58	4.67	0.83	12
9	INIAPG 268	EET-233 x D.147	3.83	327.08	0.25	0.08	12.5	0.25	4.25	0	12
10	INIAPG 185	CCN-51 x CUR-3	2.92	325	0	0	5.17	0.08	2.5	0	12
11	INIAPG 377	LCT-37 x TAP-3	2.92	312.5	0.08	0	2.08	0.92	4.92	0	12
12	INIAPG 085	TAP-10 x TIP-1	3.17	300	0	0	11.42	0	1.67	0	12
13	INIAPG 317	LCT-46 x LCT-37	3.17	293.75	0	0.08	9.17	0.27	3.73	0.09	11
14	INIAPG 267	LCT-37 x CUR-3	2.33	239.58	0	0.17	2.58	1.75	4.08	1.17	12
15	INIAPG 344	LCT-46 x TAP-12	2.67	237.5	0	0	38.17	0	3.58	0	12
16	INIAPG 197	TAP-6 x CUR-3	2.33	235.42	0	0	11.08	0.27	4.55	0	11
17	INIAPG 226	LCT-46 x CUR-3	2.5	235.42	0	0	36.75	1.58	7.5	0.17	12
18	INIAPG 030	TAP-3 x EBC-148	2.08	229.17	0	0.08	3.67	0.82	3.45	0	11
19	INIAPG 026	TAP-6 x UNAP-2	1.92	220.83	0	0	35.33	0	2.92	0	12
20	INIAPG 101	TAP-12 x TIP-1	2.75	218.75	0	0	3.42	0	1.67	0.08	12
21	INIAPG 051	TAP-6 x CUR-3	2.2	215	0	0	2.1	0.5	3	0.88	8
22	INIAPG 134	TAP-3 x EBC-148	1.67	210.42	0	0.25	1.75	0.45	6.45	0	11
23	INIAPG 091	TAP-6 x CUR-3	1.5	168.75	0.17	0.08	4.83	0.08	3.83	0.17	12
24	INIAPG 354	LCT-37 x UNAP-2	1.67	168.75	0.08	0	2.25	0	3.36	0	11
25	INIAPG 351	SIL-1 x D.147	1	166.67	0.08	0	7.25	0	4.33	0.75	12
26	INIAPG 152	CCN-51 x CUR-3	1.42	162.5	0.17	0	2.92	0.09	6.91	0	11
27	INIAPG 303	LCT-37 x AMAZ-14	1.58	160.42	0	0	5.83	0.08	3	0.08	12
28	INIAPG 083	TAP-3 x EBC-148	1.42	158.33	0	0	5.17	0	5.5	0	12
29	INIAPG 288	LCT-37 x TAP-3	1.08	150	0.08	0	1.58	0	3.92	0	12
30	INIAPG 178	AMA-14 x CUR-3	1.92	145.83	0.17	0.17	10	0.42	5.5	0.25	12
31	INIAPG 394	LCT-37 x TAP-3	1.58	145.83	1.5	1.75	4.33	0.64	3.73	0.36	11
32	INIAPG 302	LCT-46 x TAP-10	1.17	137.5	0	0	8.5	0	4	0	12
33	INIAPG 062	TAP-3 x TAP-6	1.3	137	0.1	0.1	0.9	0	1.78	0	9
34	INIAPG 181	LCT-46 x UNAP-2	1.5	135.42	0.17	0	24.58	1.75	8.5	0.17	12
35	INIAPG 110	TAP-3 x EBC-148	1.25	133.33	0	0.08	2	0.08	5	0	12
36	INIAPG 213	LCT-46 x TAP-10	1.09	131.82	0	0.18	15.64	0.36	4.45	0	11
37	INIAPG 097	CCN-51 x TIP-1	1.25	129.17	0	0	3.5	0	3.17	0	12
38	INIAPG 292	LCT-46 x TAP-10	1.25	129.17	0	0	20.58	0	2.18	0	11
39	INIAPG 094	TAP-3 x TAP-6	1.42	122.92	0.08	0	2.83	0.08	3.67	0	12
40	INIAPG 081	TAP-6 x CUR-3	1.08	112.5	0	0	1	0	3.08	0	12
41	INIAPG 264	LCT-37 x TAP-3	0.83	112.5	0	0	1	0	3.18	0	11
42	INIAPG 359	Gloria-3 x EB-10-13	1.42	112.5	0	0	3.25	0	4.08	0.08	12
43	INIAPG 227	EET-58 x 2057	0.83	97.92	0	0	6.33	0.67	7.83	0.33	12
44	INIAPG 112	TAP-6 x CUR-3	0.92	95.83	0.08	0	4.33	0	3.08	0	12
45	INIAPG 234	Brisas-30 x EB-2237	0.92	91.67	0	0	5.25	0	4.58	0	12
46	INIAPG 179	TAP-10 x TIP-1	1.55	90.91	0	0	0	0	0.91	0	11
47	INIAPG 265	LCT-37 x TAP-3	1	89.58	0.67	0	2.83	0	5.33	0	12
48	INIAPG 118	CCN-51 x TIP-1	0.92	81.25	0	0	6.08	0	2.33	0	12
49	INIAPG 355	LCT-46 x TIP-1	0.83	75.08	0	0	2.5	0	4.08	0	12
50	INIAPG 029	CCN-51 x TAP-12	0.67	75	0	0	5.25	0.83	3.67	0.33	12
51	INIAPG 072	CCN-51 x UNAP-2	0.75	75	0	0	4.17	0	4.67	0.42	12
52	INIAPG 148	CCN-51 x TIP-1	0.58	75	0	0	2.25	0	2.67	0	12
53	INIAPG 242	CCN-51 x LCT-368	0.92	70.83	0	0	0.33	0	4.55	0	11
54	INIAPG 307	CCN-51 x LCT-368	0.75	70.83	0	0	0.08	0.33	4.83	0	12
55	INIAPG 315	LCT-37 x AMAZ-14	0.83	70.83	0	0.08	1.33	0	4.42	0	12

No.	Clon	Familia	# Mazorcas sanas	Peso fresco (g)	# Mazorcas enfermas		# de Frutos		# Escoba de bruja		Plantas evaluadas
					Con Escoba de Bruja	Con Monillia	Con Marchitez	Chiri-moya	Vege-tativa	Coji-nete	
56	INIAPG 092	TAP-3 x EBC-148	0.58	68.75	0.08	0.08	0.92	0.25	7.5	0	12
57	INIAPG 257	Brisas-30 x EB-2237	0.83	68.75	0.08	0	2.17	1.18	6.73	0.73	11
58	INIAPG 330	LCT-37-TIP-1	0.75	68.75	0	0.08	0.17	0	2.92	0	12
59	INIAPG 111	LCT-46 x UNAP-2	0.67	66.67	0	0	4.75	0.08	4.58	0	12
60	INIAPG 175	TAP-3 x TAP-12	0.58	66.67	0	0	1.08	0	4.17	0	12
61	INIAPG 266	LCT-37 x CUR-3	0.42	66.67	0.08	0	0.67	0.09	2.82	0	11
62	INIAPG 198	CCN-51 x TAP-12	1	65.91	0	0	0.91	0.91	5	0.27	11
63	INIAPG 108	TAP-10 x TAP-3	0.44	61.11	0	0	1.78	0	2.5	0	4
64	INIAPG 387	LCT-37 x UNAP-2	0.45	56.82	0.09	0	1.27	0	3.27	0	11
65	INIAPG 189	TAP-3 x EBC-148	0.42	56.25	0	0	1.42	2	6.55	0.73	11
66	INIAPG 249	LCT-37 x EBC-148	0.42	52.08	0	0	1.25	0	3.45	0	11
67	INIAPG 190	TAP-3 x EBC-148	0.42	50	0	0	0.83	0	7.18	0	11
68	INIAPG 193	TAP-10 x TAP-3	0.5	50	0	0	0.42	0	5.58	0.17	12
69	INIAPG 340	LCT-46 x TIP-1	0.5	47.92	0	0	4.83	0.17	5.08	0	12
70	INIAPG 020	TAP-3 x EBC-148	0.58	45.83	0	0	1.5	0	6.64	0	11
71	INIAPG 215	LCT-46 x AMAZ-14	0.42	45.83	0	0	18.33	0	6.5	0	12
72	INIAPG 171	TAP-6 x CUR-3	0.56	44.44	0	0	13.11	0	2.78	0	9
73	INIAPG 167	TAP-10 x TIP-1	0.42	43.75	0.08	0	0.25	0	1.55	0	11
74	INIAPG 247	LCT-37 x TAP-3	0.5	43.75	0	0	0.08	0	2.83	0	12
75	INIAPG 045	CUR-3 x UNAP-2	0.5	41.67	0	0	0.08	0	3.91	0	11
76	INIAPG 252	LCT-37-TIP-1	0.42	41.67	0	0	0.08	0	3.33	0	12
77	INIAPG 348	LCT-46 x CUR-3	0.42	41.67	0	0	0.5	0	3.64	0	11
78	INIAPG 349	LCT-46 x TAP-12	0.42	41.67	0	0	1.75	0.25	3	0	12
79	INIAPG 365	EET-58 x 2057	0.58	41.67	0	0	1.25	0.67	8.25	0.17	12
80	INIAPG 378	LCT-37 x LCT-368	0.42	41.67	0	0	0.08	0	3.17	0.08	12
81	INIAPG 382	Brisas-16 x CCAT-4688	0.33	39.58	0	0.08	3	0.42	5.58	0.17	12
82	INIAPG 049	TAP-10 x TAP-3	0.25	37.5	0	0	0.17	0	3.5	0	12
83	INIAPG 004	TAP-6 x CUR-3	0.3	35	0	0	1	0.38	4.25	1.75	8
84	INIAPG 161	LCT-46 x UNAP-2	0.45	34.09	0	0.09	2.18	0.17	9	0	6
85	INIAPG 144	LCT-46 x UNAP-2	0.33	33.33	0	0	0.92	0	4.4	0	10
86	INIAPG 218	LCT-37 x AMAZ-14	0.25	33.33	0	0	0.67	0	3.92	0	12
87	INIAPG 310	LCT-46 x TAP-12	0.33	31.25	0	0	9.83	0	2.82	0.36	11
88	INIAPG 216	LCT-46 x TAP-12	0.3	30	0.5	0.1	12.6	0.9	3.8	0.2	10
89	INIAPG 305	LCT-46 x CUR-3	0.25	29.17	0.08	0	1	0	4.33	0	12
90	INIAPG 202	LCT-46 x LCT-37	0.25	27.08	0.25	0	2.58	0	6.1	0	10
91	INIAPG 311	LCT-46 x TAP-12	0.25	25	0	0	2.92	0.75	6.33	0	12
92	INIAPG 040	TAP-12 x TIP-1	0.27	22.73	0	0	1	0.09	1.91	0	11
93	INIAPG 191	TAP-6 x CUR-3	0.36	22.73	0	0	4	0	5.18	0	11
94	INIAPG 350	LCT-37 x AMAZ-11	0.27	22.73	0	0	0.82	0	5.67	0	9
95	INIAPG 025	UNAP-2 x TIP-1	0.25	20.83	0	0	0.25	0	3.2	0	10
96	INIAPG 162	CCN-51 x TIP-1	0.25	20.83	0	0	0.25	0	4.33	0	12
97	INIAPG 228	Gloria-3 x EB-10-13	0.25	20.83	0	0	0.92	0	3.33	0.08	12
98	INIAPG 331	LCT-46 x AMAZ-14	0.17	20.83	0	0	0.67	0.08	2	0	12
99	INIAPG 087	TAP-6 x UNAP-2	0.2	20	0	0	0.7	0	3.25	0	4
100	INIAPG 297	EET-233 x D.147	0.2	20	0	0	0.2	0	3.38	0	8
101	INIAPG 251	LCT-37 x AMAZ-11	0.25	18.75	0	0	0.67	0	4.5	0	12
102	INIAPG 285	EET-58 x 2057	0.17	18.75	0	0	0.33	0	5.75	0	12
103	INIAPG 279	EET-58 x 2416	0.18	18.18	0	0	0.09	0	3.18	0	11
104	INIAPG 290	LCT-37 x UNAP-2	0.18	18.18	0	0	0.09	0	3.5	0	10
105	INIAPG 388	Brisas-30 x EB-2237	0.18	18.18	0	0	2.09	1.09	9.91	0.18	11
106	INIAPG 008	CUR-3 x EBC-148	0.17	16.67	0	0	0.17	0	5.91	0	11
107	INIAPG 109	CCN-51 x TIP-1	0.17	16.67	0	0	0	0.08	4.5	0	12
108	INIAPG 229	LCT-46 x TIP-1	0.25	16.67	0	0	0.5	0	2.27	0	11
109	INIAPG 269	EET-233 x D.147	0.25	16.67	0.08	0	0.92	0	2.5	0	12
110	INIAPG 270	EET-58 x 2416	0.17	16.67	0	0	0.08	0.25	3.58	0	12
111	INIAPG 318	LCT-37 x UNAP-2	0.08	16.67	0	0	0.75	0.92	6.25	0.33	12
112	INIAPG 220	LCT-46 x TIP-1	0.25	14.58	0	0	0.75	0.42	3.25	0	12

No.	Clon	Familia	# Mazorcas sanas	Peso fresco (g)	# Mazorcas enfermas		# de Frutos		# Escoba de bruja		Plantas evaluadas
					Con Escoba de Bruja	Con Monillia	Con Marchitez	Chiri-moya	Vege-tativa	Coji-nete	
113	INIAPG 024	UNAP-2 x TIP-1	0.08	12.5	0	0	0.75	0.17	5.25	0	12
114	INIAPG 059	UNAP-2 x TIP-1	0.17	12.5	0	0	5	0.25	2.83	0.08	12
115	INIAPG 076	CUR-3 x LCT-368	0.17	12.5	0	0	0.17	0	3.11	0	9
116	INIAPG 116	CUR-3 x UNAP-2	0.08	12.5	0	0	0.92	0	5	0	12
117	INIAPG 173	TAP-12 x CUR-3	0.08	12.5	0	0	3.08	1	5.33	0	12
118	INIAPG 261	CCN-51 x LCT-368	0.08	12.5	0	0	1.17	0	2.83	0	12
119	INIAPG 327	Gloria-3 x EB-10-13	0.17	12.5	0	0	2.83	0	4.75	0	12
120	INIAPG 358	EET-58 x 2416	0.08	12.5	0	0	0	0	3.25	0	12
121	INIAPG 281	SIL-1 x D.147	0.18	11.36	0	0	1.91	0	8.45	0	11
122	INIAPG 386	LCT-37 x UNAP-2	0.08	10.42	0	0	0.5	0	3.33	0	12
123	INIAPG 023	UNAP-2 x TIP-1	0.1	10	0	0	0.3	0	2	0	9
124	INIAPG 031	TAP-6 x CUR-3	0.09	9.09	0	0	0.45	0	3	0	9
125	INIAPG 313	LCT-46 x AMAZ-14	0.09	9.09	0	0	0.36	0	4.5	0	2
126	INIAPG 021	CCN-51 x 2057	0.17	8.33	0	0	2.17	1.55	4.55	0	11
127	INIAPG 136	UNAP-2 x TIP-1	0.08	8.33	0	0.17	0.42	0	2.92	0	12
128	INIAPG 165	UNAP-2 x TIP-1	0.08	8.33	0	0	1.33	0	2.42	0	12
129	INIAPG 172	AMA-11 x TAP-6	0.08	8.33	0	0	0.83	0.25	7.92	0	12
130	INIAPG 182	CUR-3 x EBC-148	0.08	8.33	0	0	0.75	0	4.82	0	11
131	INIAPG 188	CCN-51 x TIP-1	0.08	8.33	0.08	0	0.17	0	4.33	0	12
132	INIAPG 199	UNAP-2 x TIP-1	0.08	8.33	0	0	0.42	0	4.91	0	11
133	INIAPG 203	LCT-37 x UNAP-2	0.08	8.33	0	0	0	0	3.36	0	11
134	INIAPG 212	EET-58 x 2057	0.08	8.33	0	0	1.42	1.67	8.58	0	12
135	INIAPG 230	LCT-37 x AMAZ-14	0.08	8.33	0	0	0.5	0	4.08	0	12
136	INIAPG 235	SIL-1 x D.147	0.08	8.33	0	0	0.5	0.55	4.45	0	11
137	INIAPG 238	LCT-37 x AMAZ-11	0.08	8.33	0	0	0.17	0	4	0	12
138	INIAPG 309	LCT-46 x LCT-37	0.08	8.33	0.17	0	1.92	0	4.27	0	11
139	INIAPG 326	Gloria-3 x EB-10-13	0.08	8.33	0	0	1.33	2.33	5.75	0.58	12
140	INIAPG 380	EET-58 x 2416	0.08	8.33	0.58	0	6.33	0	7	0	12
141	INIAPG 383	Brisas-13 x EB-2237	0.08	8.33	0	0	0.33	0	3.91	0	11
142	INIAPG 054	TAP-12 x TIP-1	0.08	6.25	0	0	0.25	1.5	6	0	12
143	INIAPG 131	AMA-11 x TAP-6	0.08	6.25	0	0	1.92	0.25	3.58	0.17	12
144	INIAPG 138	UNAP-2 x TIP-1	0.08	6.25	0	0	1.5	0	3.25	0	12
145	INIAPG 342	LCT-37 x AMAZ-14	0.08	6.25	0	0	0.75	0.25	4.75	0.08	12
146	INIAPG 379	LCT-46 x TIP-1	0.08	6.25	0	0	2.08	0	4.08	0.08	12
147	INIAPG 124	TAP-12 x TIP-1	0.08	4.17	0	0	0.83	0	2.82	0	11
148	INIAPG 135	TAP-12 x TIP-1	0.08	4.17	0	0	0.67	0	1.42	0	12
149	INIAPG 370	LCT-46 x TIP-1	0.08	4.17	0	0	1	0	2.75	0	12
150	INIAPG 001	CUR-3 x UNAP-2	0	0	0	0	0	0	2.9	0	10
151	INIAPG 002	CUR-3 x UNAP-2	0	0	0	0	0.17	0	2.82	0	11
152	INIAPG 005	LCT-46 x UNAP-2	0	0	0	0	0	0	2.86	0	7
153	INIAPG 007	TAP-10 x TAP-3	0	0	0	0	0	0.11	1.11	0	9
154	INIAPG 009	UNAP-2 x TIP-1	0	0	0	0	0	0	2.5	0	12
155	INIAPG 010	UNAP-2 x TIP-1	0	0	0	0	0	0	0.5	0	2
156	INIAPG 011	TAP-3 x LCT-368	0	0	0	0	0.25	0.33	8.58	0	12
157	INIAPG 012	AMA-14 x TAP-12	0	0	0.08	0	1.17	0	2.73	0	11
158	INIAPG 013	TAP-12 x TIP-1	0	0	0	0	0	0	1.33	0	6
159	INIAPG 014	AMA-11 x TAP-6	0	0	0	0	0.45	0	2.56	0	9
160	INIAPG 015	TAP-10 x TIP-1	0	0	0	0	0.55	0	1.4	0	5
161	INIAPG 016	TAP-6 x UNAP-2	0	0	0	0	0.33	0.25	3.58	0	12
162	INIAPG 017	CUR-3 x LCT-368	0	0	0	0	0	0	5.42	0	12
163	INIAPG 018	AMA-11 x TAP-6	0	0	0	0	3.83	0.18	3.55	0	11

No.	Clon	Familia	# Mazorcas sanas	Peso fresco (g)	# Mazorcas enfermas		# de Frutos		# Escoba de bruja		Plantas evaluadas
					Con Escoba de Bruja	Con Monilia	Con Marchitez	Chirimoya	Vegetativa	Cojinete	
164	INIAPG 019	UNAP-2 x LCT-368	0	0	0	0	0	0	5.09	0	11
165	INIAPG 022	TAP-12 x TIP-1	0	0	0	0	0	0	0.8	0	5
166	INIAPG 027	AMA-14 x TAP-12	0	0	0.08	0	0.08	0	1.67	0	9
167	INIAPG 028	TAP-10 x TIP-1	0	0	0	0	0	0	1	0	6
168	INIAPG 032	UNAP-2 x LCT-368	0	0	0	0	0	0	4	0	12
169	INIAPG 033	UNAP-2 x LCT-368	0	0	0.08	0	0	0	2.92	0	12
170	INIAPG 034	CUR-3 x UNAP-2	0	0	0	0	0	0.27	5.18	0	11
171	INIAPG 035	CCN-51 x 2057	0	0	0	0	0.42	0.82	4	0	11
172	INIAPG 037	UNAP-2 x TIP-1	0	0	0	0	0	0	3.64	0	11
173	INIAPG 038	CCN-51 x TAP-12	0	0	0	0	0.2	0	3	0	5
174	INIAPG 039	CCN-51 x UNAP-2	0	0	0	0	0.09	0	3.33	0	3
175	INIAPG 041	AMA-11 x TAP-6	0	0	0	0	0.17	0	6.6	0	5
176	INIAPG 042	TAP-12 x LCT-368	0	0	0	0	0	0	4.45	0	11
177	INIAPG 043	AMA-14 x CUR-3	0	0	0	0	0.1	0.89	2.22	0.33	9
178	INIAPG 044	LCT-46 x UNAP-2	0	0	0	0	0.42	0	7.89	0	9
179	INIAPG 046	LCT-46 x UNAP-2	0	0	0	0	0.08	0	4.45	0	11
180	INIAPG 047	LCT-46 x UNAP-2	0	0	0	0	1.73	0.09	6.64	0	11
181	INIAPG 048	TAP-3 x TAP-6	0	0	0	0	0.3	0	3.11	0	9
182	INIAPG 050	UNAP-2 x LCT-368	0	0	0	0	0	0	2.38	0	8
183	INIAPG 052	TAP-3 x LCT-368	0	0	0	0	0.27	0	3.38	0	8
184	INIAPG 053	CCN-51 x UNAP-2	0	0	0	0	0	0	2.33	0	6
185	INIAPG 055	GLORIA-1 x EB-10-13	0	0	0	0	0	0	5.5	0	2
186	INIAPG 056	CCN-51 x CUR-3	0	0	0	0	0	0	2.82	0	11
187	INIAPG 057	CCN-51 x 2057	0	0	0	0	0	0.58	6	0.08	12
188	INIAPG 058	UNAP-2 x TIP-1	0	0	0	0	0.08	0	3	0	12
189	INIAPG 060	TAP-6 x CUR-3	0	0	0	0	0	0	3.33	0	9
190	INIAPG 061	UNAP-2 x LCT-368	0	0	0	0	0	0	3.33	0	12
191	INIAPG 063	AMA-14 x CUR-3	0	0	0	0	0	0	3.29	0	7
192	INIAPG 064	CUR-3 x EBC-148	0	0	0	0	0	0	5.38	0	8
193	INIAPG 065	TAP-6 x UNAP-2	0	0	0	0	0	0	2.6	0	10
194	INIAPG 066	TAP-10 x TIP-1	0	0	0	0	0	0	1.3	0	10
195	INIAPG 067	LCT-46 x UNAP-2	0	0	0	0	0	0	4.91	0	11
196	INIAPG 068	AMA-14 x CUR-3	0	0	0	0	0	0	3.5	0	10
197	INIAPG 070	TAP-3 x TAP-6	0	0	0	0	0	0	1.8	0	5
198	INIAPG 071	AMA-14 x TAP-12	0	0	0	0	0	0	3.57	0	7
199	INIAPG 073	TAP-3 x TAP-12	0	0	0	0	0	0	3	0	1
200	INIAPG 074	UNAP-2 x TIP-1	0	0	0	0	0.67	0	3.45	0	11
201	INIAPG 075	CCN-51 x TIP-1	0	0	0	0	0.17	0	1.75	0	12
202	INIAPG 077	CUR-3 x LCT-368	0	0	0	0	0.78	0	5.38	0	8
203	INIAPG 078	CUR-3 x UNAP-2	0	0	0	0	0.08	0	8.17	0	12
204	INIAPG 079	CCN-51 x UNAP-2	0	0	0	0	0	0	4	0	1
205	INIAPG 080	LCT-46 x UNAP-2	0	0	0	0	0	0	7	0	11
206	INIAPG 084	CCN-51 x TAP-12	0	0	0	0	0.08	0.25	5.63	0	8
207	INIAPG 086	TAP-6 x UNAP-2	0	0	0.09	0	0.82	0	2.67	0	9
208	INIAPG 088	GLORIA-1 x EB-22-37	0	0	0	0	0	0	0	0	1
209	INIAPG 089	UNAP-2 x TIP-1	0	0	0	0	0.17	0	2.9	0	10
210	INIAPG 090	GLORIA-1 x EB-10-13	0	0	0	0	0	0	2.64	0	11
211	INIAPG 095	AMA-11 x TAP-6	0	0	0	0	0.25	0	3.67	0	12
212	INIAPG 096	CCN-51 x TAP-12	0	0	0	0	0	0	2.92	0	12
213	INIAPG 098	AMA-14 x CUR-3	0	0	0	0	0	0.33	6.22	0	9
214	INIAPG 099	TAP-3 x TAP-12	0	0	0	0	0	0	1.43	0	7
215	INIAPG 100	TAP-3 x LCT-368	0	0	0	0	0	0	5	0	2
216	INIAPG 102	TAP-12 x TIP-1	0	0	0	0	0	0	1.45	0	11
217	INIAPG 103	CCN-51 x CCAT-4998	0	0	0	0	0	0	0	0	0
218	INIAPG 104	AMA-14 x CUR-3	0	0	0	0	0	0.4	5.8	0.2	5
219	INIAPG 105	AMA-14 x CUR-3	0	0	0	0	0.08	0	5.33	0	12
220	INIAPG 106	UNAP-2 x TIP-1	0	0	0	0	0	0	4.33	0	6

No.	Clon	Familia	# Mazorcas sanas	Peso fresco (g)	# Mazorcas enfermas		# de Frutos		# Escoba de bruja		Plantas evaluadas
					Con Escoba de Bruja	Con Monillia	Con Marchitez	Chiri-moya	Vege-tativa	Coji-nete	
221	INIAPG 107	CCN-51 x UNAP-2	0	0	0	0	0	0	3.18	0	11
222	INIAPG 113	CUR-3 x UNAP-2	0	0	0	0	0.92	0.17	4.67	0.33	12
223	INIAPG 114	UNAP-2 x TIP-1	0	0	0	0	0	0	3.5	0	6
224	INIAPG 115	CUR-3 x UNAP-2	0	0	0	0	0	0	4.83	0	12
225	INIAPG 117	LCT-46 x UNAP-2	0	0	0	0	1.25	1.08	5.83	0.08	12
226	INIAPG 119	TAP-12 x LCT-368	0	0	0	0	0	0	3.33	0	3
227	INIAPG 120	CCN-51 x CUR-3	0	0	0	0	0	2.83	7.5	0	6
228	INIAPG 121	LCT-46 x UNAP-2	0	0	0	0	0	0	1.67	0	6
229	INIAPG 122	AMA-14 x CUR-3	0	0	0	0	0	0	0	0	0
230	INIAPG 123	TAP-10 x TIP-1	0	0	0	0	0.08	0	4.33	0	6
231	INIAPG 125	TAP-12 x TIP-1	0	0	0	0	0	0.67	2.71	0.33	6
232	INIAPG 126	TAP-3 x LCT-368	0	0	0	0	0	0	4.83	0	12
233	INIAPG 127	AMA-14 x CUR-3	0	0	0	0	0	0	4.67	0	6
234	INIAPG 128	AMA-14 x CUR-3	0	0	0	0	0	0	5	0	1
235	INIAPG 129	TAP-6 x UNAP-2	0	0	0	0	0	0	5.14	0	7
236	INIAPG 130	TAP-12 x LCT-368	0	0	0	0	0	0	3.11	0	9
237	INIAPG 132	TAP-3 x TAP-6	0	0	0	0	0	0	3.5	0	6
238	INIAPG 133	TAP-3 x EBC-148	0	0	0	0	0.25	0	3.25	0	12
239	INIAPG 137	UNAP-2 x TIP-1	0	0	0	0	0	0	2.67	0	3
240	INIAPG 139	AMA-14 x TAP-12	0	0	0	0	0.36	0	1.33	0	6
241	INIAPG 140	TAP-10 x TIP-1	0	0	0	0	0.08	0	3.6	0	10
242	INIAPG 141	TAP-3 x EBC-148	0	0	0	0	0	0.27	4.64	0	11
243	INIAPG 142	TAP-3 x EBC-148	0	0	0	0	0	0.09	5.27	0	11
244	INIAPG 143	AMA-14 x CUR-3	0	0	0	0	0	0.17	3.67	0	6
245	INIAPG 145	UNAP-2 x LCT-368	0	0	0	0	0	0	4.27	0	11
246	INIAPG 146	CUR-3 x UNAP-2	0	0	0	0	1.17	0	4.25	0	12
247	INIAPG 147	TAP-12 x LCT-368	0	0	0	0	0	0	3.33	0	3
248	INIAPG 150	UNAP-2 x TIP-1	0	0	0	0	0.5	0	2.75	0	12
249	INIAPG 151	TAP-3 x TAP-12	0	0	0	0	0.17	0.08	1.58	0	12
250	INIAPG 153	AMA-14 x TAP-12	0	0	0	0	1.42	0.5	2.58	0.08	12
251	INIAPG 154	UNAP-2 x LCT-368	0	0	0	0	0.08	0	3.33	0	9
252	INIAPG 155	CUR-3 x UNAP-2	0	0	0	0	0	0	7.33	0	3
253	INIAPG 156	AMA-14 x CUR-3	0	0	0	0	0	0	5.22	0	9
254	INIAPG 157	LCT-46 x UNAP-2	0	0	0	0	0.08	0.08	5.42	0	12
255	INIAPG 158	TAP-10 x TIP-1	0	0	0	0	0	0	3.14	0	7
256	INIAPG 159	TAP-6 x UNAP-2	0	0	0	0	0.5	0	4.92	0	12
257	INIAPG 160	TAP-6 x UNAP-2	0	0	0	0	0	0	2.78	0	9
258	INIAPG 163	TAP-12 x CUR-3	0	0	0	0	1.09	0	2.27	0	11
259	INIAPG 164	TAP-6 x CUR-3	0	0	0	0	0.64	0	2.3	0.1	10
260	INIAPG 166	CCN-51 x UNAP-2	0	0	0	0	0	0.09	4.55	0	11
261	INIAPG 168	CCN-51 x CUR-3	0	0	0	0	0.08	0	1.91	0	11
262	INIAPG 169	TAP-6 x UNAP-2	0	0	0	0	2.08	0	2.92	0	12
263	INIAPG 170	CUR-3 x UNAP-2	0	0	0	0	0	0	2.75	0	12
264	INIAPG 174	TAP-3 x TAP-12	0	0	0	0	0	0.17	3.58	0.08	12
265	INIAPG 176	TAP-3 x TAP-12	0	0	0	0	0	0	2.67	0	3
266	INIAPG 177	TAP-3 x EBC-148	0	0	0	0	0	0	6	0	3
267	INIAPG 180	CCN-51 x UNAP-2	0	0	0	0	0	0.13	3.63	0	8
268	INIAPG 183	CUR-3 x LCT-368	0	0	0	0	0.08	0	4	0	12
269	INIAPG 184	TAP-3 x TAP-12	0	0	0	0	0	0	4.83	0	12
270	INIAPG 186	TAP-6 x UNAP-2	0	0	0	0	0.08	0	2.17	0	12
271	INIAPG 187	CUR-3 x EBC-148	0	0	0	0	0.67	0.17	7.75	0	12
272	INIAPG 192	CUR-3 x LCT-368	0	0	0	0	0	0	2	0	6
273	INIAPG 194	AMA-14 x TAP-12	0	0	0	0	0	0	3.64	0	11
274	INIAPG 195	AMA-14 x CUR-3	0	0	0	0	0.18	0.13	1.5	0	8
275	INIAPG 196	CUR-3 x LCT-368	0	0	0	0	0	0	0	0	1
276	INIAPG 200	TAP-6 x UNAP-2	0	0	0	0	0	0	2.91	0	11
277	INIAPG 201	TAP-6 x UNAP-2	0	0	0	0	0	0.2	5.6	0	10

No.	Clon	Familia	# Mazorcas sanas	Peso fresco (g)	# Mazorcas enfermas		# de Frutos		# Escoba de bruja		Plantas evaluadas
					Con Escoba de Bruja	Con Monillia	Con Marchitez	Chirimoya	Vegetativa	Cojinete	
278	INIAPG 204	LCT-37-TIP-1	0	0	0	0	0	0	1.67	0	9
279	INIAPG 205	LCT-37 x TAP-3	0	0	0	0	0	0.8	5.6	0	5
280	INIAPG 206	Gloria-3 x EB-10-13	0	0	0	0	0	0.13	2.88	0	8
281	INIAPG 207	EET-58 x 2057	0	0	0	0	0.83	0.17	5.17	0.17	12
282	INIAPG 208	LCT-37-TIP-1	0	0	0	0	0	0	0	0	2
283	INIAPG 209	LCT-37-TIP-1	0	0	0	0	0	0	2.6	0	5
284	INIAPG 210	LCT-37-TIP-1	0	0	0	0	0	0	2.83	0	12
285	INIAPG 211	SIL-1 x D.147	0	0	0	0	1	0.08	5.67	0	12
286	INIAPG 214	LCT-37 x UNAP-2	0	0	0	0	0.83	0	4.75	0	12
287	INIAPG 217	LCT-46 x TAP-12	0	0	0	0	0.5	0.64	6.64	0	11
288	INIAPG 219	LCT-37 x CUR-3	0	0	0	0	0	0	4.14	0	7
289	INIAPG 221	EET-58 x 2416	0	0	0	0	0	0	4.73	0	11
290	INIAPG 222	SNA 0512 x CCN-51	0	0	0	0	0	0	0	0	0
291	INIAPG 223	EET-233 x D.147	0	0	0	0	8.5	2.17	6.5	0	12
292	INIAPG 224	LCT-37 x CUR-3	0	0	0	0	0.08	0.09	3.45	0	11
293	INIAPG 225	LCT-37 x CUR-3	0	0	0	0	0	1.2	5.2	1.2	5
294	INIAPG 231	Brisas-13 x EB-2237	0	0	0	0	0	0	3.13	0	8
295	INIAPG 232	EET-233 x D.147	0	0	0	0	0	0	4.67	0	9
296	INIAPG 233	LCT-37 x UNAP-2	0	0	0	0	0	0.09	5.18	0	11
297	INIAPG 236	SIL-1 x D.147	0	0	0	0	0	0.09	4.09	0	11
298	INIAPG 237	LCT-37-TIP-1	0	0	0	0	0.08	0	6.33	0	12
299	INIAPG 239	LCT-37 x AMAZ-11	0	0	0	0	0.75	0.18	6.45	0	11
300	INIAPG 240	LCT-46 x TIP-1	0	0	0	0	0	0	3	0	9
301	INIAPG 241	CCAT-4668 x CCN-51	0	0	0	0	0	0	0	0	0
302	INIAPG 243	CCN-51 x LCT-368	0	0	0	0	0	0	4	0	7
303	INIAPG 244	CCN-51 x LCT-368	0	0	0	0	0	0	4	0	12
304	INIAPG 245	Brisas-16 x CCAT-4688	0	0	0	0	1.3	0	3.75	0	8
305	INIAPG 246	CCN-51 x LCT-368	0	0	0	0	0.08	0	4	0	12
306	INIAPG 248	LCT-37 x TAP-3	0	0	0	0	0.08	0	2	0	12
307	INIAPG 250	LCT-46 x TIP-1	0	0	0	0	0	0	2.9	0	10
308	INIAPG 253	LCT-37-TIP-1	0	0	0.17	0	0.25	0	2.36	0	11
309	INIAPG 254	LCT-46 x LCT-37	0	0	0	0	0	0	4.8	0	10
310	INIAPG 255	Gloria-3 x CCAT-1858	0	0	0	0	0	0	0.88	0	8
311	INIAPG 256	LCT-37 x UNAP-2	0	0	0	0	0	0	3.09	0	11
312	INIAPG 258	EET-233 x D.147	0	0	0	0	0.08	0.08	3.25	0	12
313	INIAPG 259	Brisas-13 x EB-2237	0	0	0	0	0	0	1.25	0	8
314	INIAPG 260	Brisas-16 x CCAT-4688	0	0	0	0	0	0	3.67	0	12
315	INIAPG 262	Gloria-3 x CCAT-1858	0	0	0	0	0	0	5.4	0	5
316	INIAPG 263	LCT-46 x TIP-1	0	0	0	0	1.75	0	3.1	0	10
317	INIAPG 271	LCT-37 x EBC-148	0	0	0	0	0	0	5.17	0	12
318	INIAPG 272	LCT-37 x EBC-148	0	0	0	0	0.17	0.1	4.9	0	10
319	INIAPG 273	LCT-37 x CUR-3	0	0	0	0	0	0	5.33	0	3
320	INIAPG 274	LCT-37 x AMAZ-14	0	0	0	0	0.45	0	4.82	0	11
321	INIAPG 275	Gloria-3 x EB-10-13	0	0	0	0	0	0.92	4.75	0	12
322	INIAPG 277	LCT-46 x AMAZ-14	0	0	0	0	0	0	5.67	0	3
323	INIAPG 278	LCT-46 x AMAZ-14	0	0	0	0	0	0	2.75	0	12
324	INIAPG 280	EET-58 x 2057	0	0	0	0	0.08	0.92	12.5	0	12
325	INIAPG 282	Brisas-30 x EB-2237	0	0	0	0	0	0	3.08	0	12
326	INIAPG 283	LCT-37 x LCT-368	0	0	0	0	0	0.08	6.25	0.25	12
327	INIAPG 284	LCT-37-TIP-1	0	0	0	0	2	2.09	4	0.55	11
328	INIAPG 286	LCT-37 x AMAZ-14	0	0	0	0	0	0	4.5	0	2
329	INIAPG 287	LCT-37 x AMAZ-14	0	0	0	0	0	0	3.08	0	12
330	INIAPG 289	LCT-37 x CUR-3	0	0	0	0	0.25	0	4	0	6
331	INIAPG 291	LCT-37 x UNAP-2	0	0	0	0	0.08	0.09	2.18	0	11
332	INIAPG 293	CCN-51 x LCT-368	0	0	0	0	0	0	3.91	0	11
333	INIAPG 294	CCN-51 x LCT-368	0	0	0	0	0	0	4.67	0	12
334	INIAPG 295	LCT-37 x AMAZ-11	0	0	0	0	0	0	1.5	0	12

No.	Clon	Familia	# Mazorcas sanas	Peso fresco (g)	# Mazorcas enfermas		# de Frutos		# Escoba de bruja		Plantas evaluadas
					Con Escoba de Bruja	Con Monillia	Con Marchitez	Chiri-moya	Vege-tativa	Coji-nete	
335	INIAPG 296	LCT-37 x AMAZ-11	0	0	0	0	0	0	5	0	1
336	INIAPG 298	Gloria-3 x CCAT-1858	0	0	0	0	0	0	0.57	0	7
337	INIAPG 299	Brisas-30 x EB-2237	0	0	0	0	2.7	0	2.13	0	8
338	INIAPG 300	LCT-37 x TAP-3	0	0	0	0	0.64	0	4.33	0	6
339	INIAPG 301	EET-233 x D.147	0	0	0	0	0.45	0	4.6	0	10
340	INIAPG 304	LCT-46 x TIP-1	0	0	0	0	2.75	0.17	4.75	0	12
341	INIAPG 306	Brisas-30 x EB-2237	0	0	0	0	0.55	0.36	7.18	0	11
342	INIAPG 312	LCT-46 x AMAZ-14	0	0	0	0	0.58	0	3.42	0	12
343	INIAPG 314	LCT-46 x CUR-3	0	0	0	0	0	0	2.75	0	12
344	INIAPG 316	LCT-37 x AMAZ-14	0	0	0	0	0	0	6.25	0	12
345	INIAPG 319	Gloria-3 x EB-10-13	0	0	0	0	0	0	3	0	7
346	INIAPG 320	Gloria-3 x EB-10-13	0	0	0	0	0.17	0	5	0	12
347	INIAPG 321	Gloria-3 x CCAT-1858	0	0	0	0	0	0.42	16.17	0.25	12
348	INIAPG 322	LCT-37 x TAP-3	0	0	0	0	0.17	0	3.92	0	12
349	INIAPG 323	LCT-46 x TAP-10	0	0	0	0	0.17	0	4	0.08	12
350	INIAPG 324	Gloria-3 x EB-10-13	0	0	0	0	0	0	6.5	0	8
351	INIAPG 325	Gloria-3 x EB-10-13	0	0	0	0	0	0	3.5	0	10
352	INIAPG 328	LCT-37 x AMAZ-14	0	0	0	0	0.08	0.67	6.33	0.17	12
353	INIAPG 329	LCT-37 x AMAZ-14	0	0	0	0	0.33	0.36	8.64	0	11
354	INIAPG 332	CCAT-4668 x CCN-51	0	0	0	0	0	0	0	0	0
355	INIAPG 333	Brisas-16 x CCAT-4688	0	0	0	0	0.36	0.2	1.8	0	5
356	INIAPG 334	LCT-46 x TAP-12	0	0	0	0	9.75	0.18	4.18	0.45	11
357	INIAPG 335	LCT-37 x LCT-368	0	0	0	0	0	0.08	5.42	0	12
358	INIAPG 336	LCT-37 x UNAP-2	0	0	0	0	0.08	0	1.92	0	12
359	INIAPG 337	EET-58 x 2057	0	0	0	0	0.75	0	4.75	0	12
360	INIAPG 338	LCT-37-TIP-1	0	0	0	0	0.08	0	4.17	0	12
361	INIAPG 339	LCT-46 x TIP-1	0	0	0	0	0.25	0.08	2.75	0	12
362	INIAPG 341	LCT-37 x AMAZ-14	0	0	0	0	0.08	0	3.27	0	11
363	INIAPG 343	EET-233 x D.147	0	0	0	0	0.67	0	4.08	0	12
364	INIAPG 345	Gloria-3 x EB-10-13	0	0	0	0.09	1.18	0	2.09	0	11
365	INIAPG 346	Gloria-3 x CCAT-1858	0	0	0	0	0	0.09	3.36	0.27	11
366	INIAPG 347	Brisas-30 x EB-2237	0	0	0	0	0	0	1	0	1
367	INIAPG 352	SIL-1 x D.147	0	0	0	0	0.17	0	5.55	0	11
368	INIAPG 356	LCT-37-TIP-1	0	0	0	0	0.17	0	2.82	0	11
369	INIAPG 357	LCT-37 x LCT-368	0	0	0	0	0.09	0.22	6.11	0	9
370	INIAPG 360	LCT-37 x AMAZ-14	0	0	0	0	0.25	0	3.83	0	12
371	INIAPG 361	EET-58 x 2057	0	0	0	0	0	0	0	0	0
372	INIAPG 362	LCT-37 x LCT-368	0	0	0	0	0	0	3.08	0	12
373	INIAPG 363	Brisas-30 x EB-2237	0	0	0	0	0.58	0.42	7.67	0	12
374	INIAPG 364	Brisas-30 x EB-2237	0	0	0	0	0	0	3.89	0	9
375	INIAPG 366	EET-58 x 2057	0	0	0	0	0	0.33	9	0.17	12
376	INIAPG 367	LCT-46 x AMAZ-14	0	0	0	0	0.5	0.5	6.42	0	12
377	INIAPG 368	CCN-51 x LCT-368	0	0	0	0	0	0	5.3	0	10
378	INIAPG 369	LCT-37 x CUR-3	0	0	0	0	0	0	2.3	0	10
379	INIAPG 371	LCT-37 x EBC-148	0	0	0	0	0.5	0.92	10.25	0	12
380	INIAPG 372	EET-58 x 2416	0	0	0	0	0	0	3	0	1
381	INIAPG 373	EET-58 x 2416	0	0	0	0	0	0	6.33	0	12
382	INIAPG 374	EET-233 x D.147	0	0	0	0	0.55	0	1.91	0	11
383	INIAPG 375	LCT-37 x CUR-3	0	0	0	0	0.08	0	3.42	0	12
384	INIAPG 376	LCT-46 x TAP-10	0	0	0	0	0	0	4.13	0	8
385	INIAPG 381	LCT-37 x AMAZ-14	0	0	0	0	0.33	0.91	5.91	0	11
386	INIAPG 384	LCT-37 x UNAP-2	0	0	0	0	0.08	0	3.33	0	12
387	INIAPG 385	LCT-37 x UNAP-2	0	0	0	0	0.25	0	2.58	0	12
388	INIAPG 389	LCT-46 x LCT-37	0	0	0	0	0.08	0.25	6.75	0	12
389	INIAPG 390	LCT-37 x AMAZ-11	0	0	0	0	0	0.18	2.64	0	11
390	INIAPG 391	LCT-37 x AMAZ-11	0	0	0	0	0	0	4.91	0	11
391	INIAPG 392	LCT-46 x TIP-1	0	0	0	0	0	0.08	4.83	0.08	12

No.	Clon	Familia	# Mazorcas sanas	Peso fresco (g)	# Mazorcas enfermas		# de Frutos		# Escoba de bruja		Plantas evaluadas
					Con Escoba de Bruja	Con Monillia	Con Marchitez	Chiri-moya	Vege-tativa	Coji-nete	
392	INIAPG 393	LCT-37 x TAP-3	0	0	0	0	0	0	2.55	0	11
393	INIAPG 395	CCN-51 x LCT-368	0	0	0	0	0	0.33	2.89	0	9
394	INIAPG 396	EET-58 x 2416	0	0	0	0	0	0	3	0	11
395	INIAPG 397	EET-233 x D.147	0	0	0	0	0	0	8	0	1
396	INIAPG 398	LCT-37 x AMAZ-11	0	0	0	0	0.5	0	2.1	0	10
397	INIAPG 399	CCN-51 x LCT-368	0	0	0	0	0	0	6	0	1
398	INIAPG 400	A-645	0	0	0	0	0	0	0	0	0
399	INIAPG 401	Amaz-11	0	0	0	0	0	0	4.8	0	5
400	INIAPG 402	Amaz-14	0	0	0	0	0	0	2.67	0	6
401	INIAPG 403	B-60	0	0	0	0	0	0	0	0	0
402	INIAPG 404	Brisas-13	0	0	0	0	0	0	0	0	0
403	INIAPG 405	CCN-51	0	0	0	0	0	0	2	0	1
404	INIAPG 406	CUR-3	0	0	0	0	0.92	0.2	2.6	0	5
405	INIAPG 407	D-147	0	0	0	0	0	0	0	0	0
406	INIAPG 408	EBC-148	0	0	0	0	0	0	1.67	0	6
407	INIAPG 409	EET-387	0	0	0	0	0.17	0	3	0	6
408	INIAPG 410	LCT-368	0	0	0	0	0	0	1.6	0	5
409	INIAPG 411	SIL-1	0	0	0	0	0	0	0	0	0
410	INIAPG 412	TAP-3	0	0	0	0	0	0	3.14	0	7
411	INIAPG 413	TIP-1	0	0	0	0	0	0	0.2	0	5
412	INIAPG 414	UNAP-2	0	0	0	0	0.17	0	1.83	0	6
413	INIAPG 415	EET-19	0	0	0	0	0	0	11.17	0	6
414	INIAPG 416	EET-103	0	0	0	0	0.08	0	5	0	12
415	INIAPG 417	SCA-6	0	0	0	0	0	0	0	0	0
416	INIAPG 418	A-2506	0	0	0	0	0	0	1	0	2
417	INIAPG 419	JHVH-10	0	0	0	0	0	0	2.22	0	9
418	INIAPG 420	Testigo Huerta	0	0	0	0	0	0	0	0	0

Figure 4. Distribución de siembra en el campo para las selecciones realizadas en las poblaciones híbridas de los grupos 5, 6 y 7.

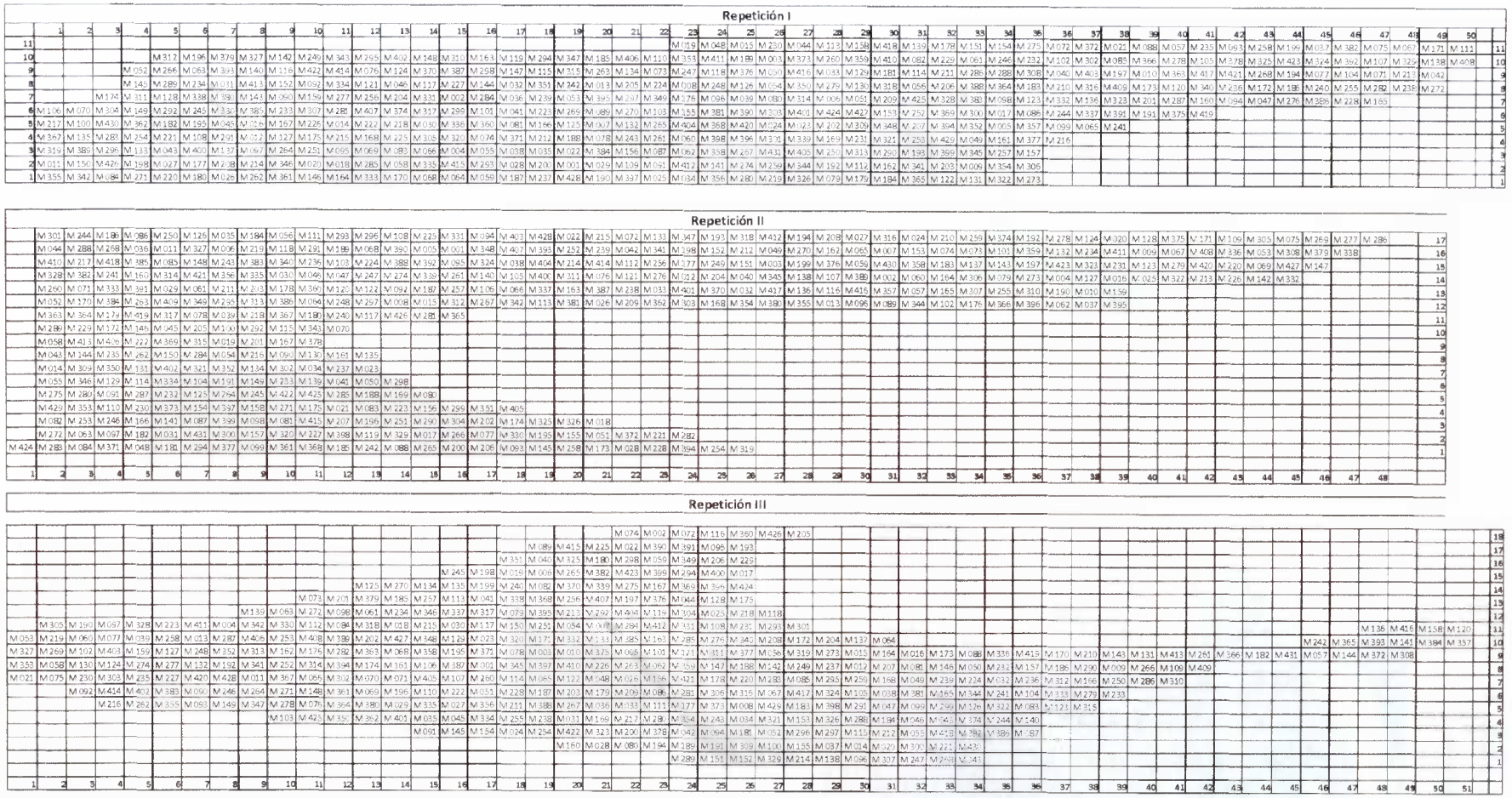

Figura 5. Una vista de la situación de campo después de la siembra de las primeras plantas en el Lote Las Malvinas

FINANCIAL REPORT

AGREEMENT INIAP - USDA MIAMI

EXECUTING ORGANIZATION: INIAP-Estación Experimental Pichilingue
TITLE OF THE PROJECT "Germplasm Evaluation, Breeding and Phytopathology Studies for Obtaining Improved Cocoa Varieties(USDA/MIAMI)"
RESPONSIBLE: Ing. Freddy Amores
PERIOD: **From April 01, 2.009 to March 30, 2010**

N°	ITEM	BUDGET	EXPENDITURES			
			PREVIOUS YEAR BUDGET BALANCE	CURRENT EXPENDITURE April 01, 2009 March 30, 2010	CUMULATIVE EXPENDITURE	BUDGET BALANCE
1	Wages and Salaries	58.040,53	36.979,24	117.308,79	184.288,03	-126.247,50
2	Travel Domestic and Foreing	39.143,61	124.839,75	17.646,38	17.646,38	146.336,98
3	Materials and Suplies	24.296,04	17.193,39	48.986,82	66.180,21	-41.884,17
4	Vehicle	0,00	2.499,63	1.469,50	1.469,50	1.030,13
5	Indirect Costs	13.497,80	-1.166,36	13.497,80	14.664,16	-1.166,36
	TOTAL	**134.977,98**	**42.000,39**	**198.909,29**	**284.248,28**	**-21.930,92**

INCOMES / USDA/MIAMI	DATE	USD
Money transfer No.11	30/11/2009	134.977,98
Total Transfered		134.977,98
Receivable Balance		0,00

May 07, 2010

Ing. Fredy Amores Puyuntaxi
Proyect Leader
Estación Experimental Tropical Pichilingue

Carlos Nieto Cabrera Ph.D.
Ejecutive Director
Corporación INIAP "CORPOINIAP"