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INIAP
ESTACION EXPERIMENTAL TROPICAL PICHILINGUE
PROGRAMA NACIONAL DE CACAO Y CAFÉ

COCOA RESEARCH AND TECHNOLOGY TRANSFER TEAM

PROJECT: COCOA PRODUCTIVITY AND QUALITY IMPROVEMENT, A PARTICIPATIVE APPROACH



Clonal multiplication by side grafting of superior cocoa trees selected in farms located in the zone of Echeandia y Las Naves

TECHNICAL PROGRESS REPORT
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ABSTRACT (In English, about 400 words)	<p>Surveying of cocoa farms in the zones of Naranjal (Southern coastal region) and the northern Amazonía to identify superior trees is being planned. Thirty two trees were identified as promising in the zones where participatory surveying and selection of trees have taken place so far. Twenty one materials have been selected within the Estacion Pichilingue. These have already been included in the participatory cocoa evaluation trials. With this purpose in mind 4500 grafted plants were produced and field planted in the northern part of Esmeraldas, canton Las Naves, canton Echeandia and Estacion Pichilingue. Three trials have been planted in the zones covered by this project. Some 547 leaf samples from several hybrid families having CCN-51 as one parent, were collected and sent to USA (Miami) on request to study the capacity of this clone to transfer productivity traits to the progenies. Measurement of morfoagronomic traits continue to be recorded in the clones making up the international clone trial. Several fermentation events took place to produce needed fermented bean samples to undergo sensorial analysis for the same clones. Similarly, morfoagronomic traits continue to be measured in the so called Regional Variety Trial (RVT). Ten buds ticks from Amazonian clones were sent to the University of Reading for multiplication and quarantine purpose. A validation of the three best performing methods (as shown by a recently completed piece of research) to detect early disease resistance was carried out. Members of the INIAP's technical staff attended a meeting organized to evaluate project's progress in the city of Miranda Venezuela, and a training event on participatory approaches for cocoa evaluation and selection in Itabuna, Brasil. The project has recruited four students who are based at E. Pichilingue and are conducting pieces of research related to project activities.</p>	
KEY WORDS (For IPGRI USE only)	Country / region Crops Subject	Ecuador / América Latina Cacao Progress Report: Anual Report Year 2.

Annex 1. Summary of results obtained during the reporting period

Code	Description of activity and of sub-activities (as in work plan)	Quantifiable Outputs for Year 1 (numbers of accessions planted, number of farms visited, etc)	Degree of advancement (On schedule, Delayed, Postponed)	Comments (Justification for any changes).
1.1.1	Survey on planting material present at farms and on criteria applied by farms	Additional surveying of cocoa growing farms was not carried out this year. However meetings and decisions were taken for additional surveying in 2007. It has been decided to continue the surveying of cocoa farms in two additional zones for participatory identification and selection of superior cocoa trees. One is the zone of Naranjal which owns a long tradition in producing cocoa and other zone is the northern part of the Amazonia region, considered as a new frontier for cocoa planting. Superior trees selected in the Tenguel germplasm collection will participate in the study together with others which will be identified in farms around the Naranjal zone. The farmers association Kalahari will be a close partner in the surveying and identification of superior trees in the northern Amazonia. A meeting is being planned for the last quarter of 2006 to discuss this collaboration.	Normal	New surveys will be conducted in the Naranjal and northern Amazonia zones.
1.1.2	Identification and collecting of promising mother plants in farmers' population according to selection criteria applied by farmers and researchers.	Thirty two trees were identified as promising in the zones (Norte, Centro, and Sur Llanura) where participatory surveying and selection of trees has taken place so far. Besides some 21 materials have been selected within the Estación Experimental Pichilingue following agronomic, productivity and sanitary criteria.	Normal	New trees will be selected when participatory surveying takes place (2007) in the zones of Naranjal and northern Amazonia..
1.3.1	Nursery multiplication, field planting and maintenance of interesting planting material collected in farmer fields and established in observation plots on- station.	Grafting and nursery activities took place in three zones (Norte, Centro and Sur Llanura) where superior trees have been identified. These plants were used to establish cocoa evaluation trials following a participatory approach. Some 6000 rootstocks were top grafted using budsticks from selected trees. A total of 4500 plants were ready for field planting. This amount was made up of 449 (Table 1) plants for the northern part of Esmeraldas, 503 (Table 2) plants for the canton Las Naves, 594 (Table 3) for	Normal	To conserve germplasm of some 20 selected superior trees for each zone, enough plants (5 plants per tree) will be multiplied and introduced to become part of the Pichilingue's germplasm bank. Talks are underway to set up a duplicate of the material selected in the northern part

		<p>the canton Echeandia, both in the zone Centro, 824 (Table 4) plants for the zone Sur Llanura as well as 2074 (Table 5) for the Estación Pichilingue. On the other hand a total of 320 clonal plants were introduced into the Pichilingue's germplasm bank (Table 6, 7 and 8).</p> <p>On February 7 2006 (Table 9) a first trial was field planted in the sector of canton Las Naves (zone Centro). It has 30 treatments and two replications. Treatments are made up of 19 promising clones selected in the Estación Pichilingue, eight clones comes from surveyed cocoa farms and three are control clones. Two additional trials were field planted in the northern and southern part of the Esmeraldas province (Esmeralda's zone) on April 27 and 28 (Table 10), and also on May 24 (Table 11), respectively. Each treatment has five plants per plot (a plot is a row). Planting distance is 3 x 3 m. Temporary shade is made up of plantain sowed at the same planting distance as the cocoa.</p>		<p>of Esmeraldas in the experimental farm of the Universidad Técnica Luis Vargas Torres de Esmeraldas. Its officials are interested in activities to conserve and study the collected cocoa germplasm in this area which has a criollo type resemblance according to the shape of the pods the trees bear.</p> <p>Some pest problems showed up and affected the trial planted in the sector of the canton Las Naves. Due measures were taken to control the situation.</p>
1.3.3	Study of the genetic diversity of accessions collected in farmers fields using SSR markers.	The number of leaf samples and sources of these samples was reported in the first semester Report of Year 2 of the project. In the second semester a total of 547 leaf samples corresponding to 10 hybrid families were sent to the USDA (Miami) lab for molecular analysis. The hybrids chosen were those that have CCN 51 as one parent (CCN 51 x EET 416; CCN 51 x EET 534; CCN 51 x EET 450; CCN 51 x EET 462; CCN 51 x EET 233; CCN 51 x EET 387; CCN 51 x EET 451; EET 445 x CCN 51; EET 446 x CCN 51; EET 426 x CCN 51).	Normal	The samples were sent on request from USDA (Miami) scientists to check for the capacity of the CCN 51 to transfer productivity traits to the progeny.
1.4.2	Organization of "National stakeholders" planning workshops for decisions on procedures for participatory selection of new varieties.	Not executed yet	Out of Schedule	The workshop is planned to take place in the last quarter of 2006.

Activity Code	Description of activity and of sub-activities (as in work plan)	Quantifiable Outputs for Year 1 (numbers of accessions planted, number of farms visited, etc).	Degree of advancement (On schedule, Delayed, Postponed)	Comments (justification for any changes)
2.1.1	Evaluation of international Clone Trial (ICT) established in the CFC/ICCO/PGRI Project Cocoa Germplasm Utilization and Conservation for productivity and field resistance.	Progress obtained during the first semester of Year 2 was reported in the corresponding first semester Report. During the second semester work continued to measure morfoagronómico traits. Several fermentation events have also been conducted to study the fermentation and sensorial behavior of the international clones making up this study. Sixteen samples of fermented and unfermented seeds were sent to CIRAD to undergo chemical analysis. On the other hand, twelve 600 g bean samples were sent to the cocoa quality lab of Guittard Co. for sensorial characterization (See tables 12, 13 and 14 and Figure 1)	Normal	Two rounds of fermentation events have been completed for the clones that are producing enough beans for micro fermentation. Two more rounds of fermentation exercises to produce additional bean samples will be completed in the next 10 months. A adjusted fermentation protocol will be applied.
2.1.3	Validation of varieties in Regional Variety Trials in South America (20 clones) and in Africa (15 hybrids). Reception of seeds and cut wood, nursery and field establishment.	The work to measure and register several morfoagronomic traits continues. Plants of five crosses (they came from Peru and Brazil) were field planted on February 2006 as part of the RVT. An additional plot made up of seedlings from the cross EET 183 x Pound 7 x UF 273-tree 45 was planted on February 25 2006.	Normal	

		Seeds came from Costa Rica (See Table 12) and are part of the QTL study.		
2.3.2	Selected germplasm received from intermediate quarantine centres and established in nurseries and field collections in user countries.	Ten budsticks were sent to the University of Reading (Quarantine Center) during the first semester of Year 2 of the project. No germplasm has been sent or received during the second semester of the project's year.	Normal	
2.4.1	Improvement of early disease resistance screening methods	<i>Progress in this activity was documented for the first semester of Year 2 of the Project. A validation of the three best performing methods (from a piece of research recently ended) for early detection of resistance was carried out. A new piece of research to characterize the development of infection with Witches broom and Monilirosis on pods with different ages and subjected to artificially inoculation has just began on last April.</i>	Normal	
2.5.3	New segregation progenies produced and shipped to participating countries.	Except for the QTL cross (EET 183 x (Pound 7 x UF 273 tree 45) received on November 2005 from Costa Rica and already field planted, no seeds of additional crosses have been received.	Normal	
2.6.1	Visits of Project scientists to a countries participation in the project.	The following members of the Project team (C. Suárez, A. Vasco, J. Quiroz, K. Solis, J. Zambrano, G. Peña and J. Agama) attended a Workshop in the city of Miranda, Venezuela from 13 to 18 February 2006. The objective was to participate in meetings of coordination and evaluation of the progress achieved by the project so far. The following members of the project (A. Vasco, J. Quiroz, J. Zambrano, G. Peña and J. Cedeño) attended a training event on participatory approaches for cocoa improvement in Latin America; this took place in Itabuna, Bahia, Brasil from Mach 27 to April 7 2006. Based on this training a local project is being formulated to search for additional funds and strengthen activities related to	Normal	Se espera que esta actividad se pueda concretar en el 2006.

		participatory approaches in cocoa selection, mainly for the Esmeraldas zone and the northern Amazonía zone.		
2.6.2	Support training for students	Mr. Otton Lopez Ch continues his piece of research on artificial inoculation with Monilia roreri to prove the hypothesis of genetic resistance on a few selected trees showing low levels of Moniliasis in the fruits. Julia Amarilla continues her piece of research on flavor characterization of a group of international clones introduced in Ecuador. Roberto Olaya is a newly recruited student to work on a piece of research related to physiological behavior of a group of international cocoa clones. Miss. Silvia Baño is another recruited student working on the evaluation of a group of hybrid families created in the first phase of the project.	Normal	Progress obtained in the work conducted by Mr. Lopez let us envision the finding of possible new sources of genetic resistance to Moniliasis.

ANNEX

Table 1. Number of plants obtained through top grafting with bud sticks from selected superior trees in the zone of Esmeraldas.

Código de árbol	Localidad	Agricultor / Propietario	Número de plantas injertadas
28	Atacames	Sr. Wilber Zambrano	37
54	Atacames	Sr. Ramón España	8
53*	Atacames	Sr. Ramón España	27
52	Atacames	Sr. Ramón España	34
56*	Atacames	Sr. Ramón España	24
58*	Atacames	Sr. Ramón España	19
39*	Atacames	Sr. Wilber Zambrano	38
36*	Atacames	Sr. Wilber Zambrano	26
D-1*	Colon Eloy	Sr. Domingo Valencia	11
70	Muisne	Sr. Ramón Santo	9
68	Atacames	Sr. Ramón España	11
57	Atacames	Sr. Ramón España	14
26	Atacames	Sr. Wilber Zambrano	27
68	Atacames	Sr. Ramón España	7
23	Atacames	Sr. Wilber Zambrano	6
32	Atacames	Sr. Wilber Zambrano	19
55	Atacames	Sr. Ramón España	5
40	Atacames	Sr. Gilberto Saavedra	4
73**	Atacames	Sr. Ramón Santo	0
B-3*	Colon Eloy	Sra. Auria Valencia	15
D-16*	Colon Eloy	Sr. Domingo Valencia	28
D-18*	Colon Eloy	Sr. Domingo Valencia	5
B-7*	Colon Eloy	Sr. Baltasar Valencia	1
B-12*	Colon Eloy	Sra. Auria Valencia	0
B-13*	Colon Eloy	Sra. Auria Valencia	0
B-9	Colon Eloy	Sra. Auria Valencia	10
76	Muisne	Sr. Ramón Santo	39
80*	Muisne	Sr. Primo Santo	25
TOTAL			449

* Clones obtained from these trees are participating in the participatory evaluation trials.

Table 2. Number of plants obtained through top grafting with bud sticks from selected superior trees in the zone Centro (Canton Las Naves).

Código de árbol	Localidad	Propietario / Agricultor	Numero de plantas Injertadas
1	Las Naves	Sra. Cristina Verdezoto	7
2	Las Naves	Sra. Cristina Verdezoto	12
5	Las Naves	Sra. Cristina Verdezoto	32
6	Las Naves	Sra. Cristina Verdezoto	5
8	Las Naves	Sra. Cristina Verdezoto	3
037	Las Naves	Sra. Cristina Verdezoto	16
44	Las Naves	Sra. Cristina Verdezoto	15
42	Las Naves	Sra. Cristina Verdezoto	14
046	Las Naves	Sra. Cristina Verdezoto	24
47	Las Naves	Sra. Cristina Verdezoto	23
050	Las Naves	Sra. Cristina Verdezoto	19
	Las Naves	Sra. Cristina Verdezoto	
056	Las Naves	Sra. Cristina Verdezoto	36
067	Las Naves	Sra. Cristina Verdezoto	39
59	Las Naves	Sra. Cristina Verdezoto	19
50	Las Naves	Sra. Cristina Verdezoto	30
33	Las Naves	Sra. Cristina Verdezoto	26
39	Las Naves	Sra. Cristina Verdezoto	30
42	Las Naves	Sra. Cristina Verdezoto	6
43	Las Naves	Sra. Cristina Verdezoto	9
15	Las Naves	Sra. Cristina Verdezoto	28
51	Las Naves	Carlos Portilla	15
52	Las Naves	Carlos Portilla	8
53	Las Naves	Carlos Portilla	27
54	Las Naves	Carlos Portilla	30
68	Las Naves	Finca Mercedes	30
TOTAL			503

Table 3. Number of plants obtained through top grafting with bud sticks from selected superior trees in the zone Centro (Canton Echeandia).

Código árbol	Localidad	Agricultor / Propietario	Numero De Plantas Injertadas
53	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	24
54	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	27
55	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	26
56	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	54
61	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	30
63	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	28
65	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	26
67	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	30
68	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	30
69	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	29
070*	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	16
71	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	30
76	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	20
79	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	27
090*	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	27
98	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	25
99	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	14
100	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	28
102	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	15
103	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	21
104	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	38
105	Recinto el Rosario, Cantón Echeandia, provincia de Bolívar	Sr. Borlan Contreras	29
TOTAL			594

Table 4. Number of plants obtained through top grafting with bud sticks from selected superior trees in the zone Sur Llanura (Canton: Buena Fe, El Empalme , y Milagro).

Código árbol	Localidad	Agricultor / Propietario	Número De Plantas Injertadas
8	LA ESPERANZA QUEVEDO	Hilda Martínez	50
15	Buena Fe	Catalina Bermello	57
16	Milagro GUAYAS	Pedro Granizo	11
25	Milagro GUAYAS	Pedro Granizo	23
	Milagro GUAYAS	Pedro Granizo	17
26	Milagro GUAYAS	Luis Granizo	8
	Milagro GUAYAS	Luis Granizo	20
35	Milagro GUAYAS	Aurelio Castro	28
	Milagro GUAYAS	Aurelio Castro	7
36	Colombia Alta Prov. de Los Ríos	Miriam Vargas	104
37	Colombia Alta -Prov de Bolívar	Miriam Vargas	62
9	Los Ríos	La Esperanza	5
10	El Empalme	El Guayabo	9
13	El Empalme	El Guayabo	8
17	Buena Fe, Los Ríos	La Gudelia	20
18	Buena Fe, Los Ríos	La Gudelia	8
3	Los Ríos	La Esperanza	4
1	Los Ríos	La Esperaza	44
	Los Ríos	La Esperanza	17
2	Los Ríos	La Esperanza	4
17	Buena Fe, Los Ríos	La Guledia	46
19	Buena Fe, Los Ríos	La Gudelia	25
20	Buena Fe, Los Ríos	La Gudelia	6
21	Buena Fe, Los Ríos	La Gudelia	28
23	Milagro, Guayas	La Lejia	19
	Milagro, Guayas	La Lejia	47
24	Milagro, Guayas	La Lejia	17
	Milagro, Guayas	La Lejia	32
28	Milagro, Guayas	San Raúl	53
29	Milagro, Guayas	Recinto La Piñuela	17
42	Milagro, Guayas	Recinto Puente Chimbo	7
	Milagro, Guayas	Recinto Puente Chimbo	21
TOTAL			824

Table 5. Number of plants obtained through top grafting with bud sticks from selected superior trees in the Estación Experimental Tropical Pichilingue

Código de árbol	Localidad	Agricultor / Propietario	Número de Plantas Injertadas
1 = CCAT-4668	Lote Herrera, Quevedo	EET – Pichilingue INIAP	141
3 = CCAT-3345	Lote Herrera, Quevedo	EET – Pichilingue INIAP	156
4 = CCAT-2143	Lote Herrera, Quevedo	EET – Pichilingue INIAP	203
5 = CCAT-3061	Lote Herrera, Quevedo	EET – Pichilingue INIAP	210
6 = CCAT45-83	Lote Herrera, Quevedo	EET – Pichilingue INIAP	189
7 = A-2126	2A Quevedo	EET – Pichilingue INIAP	120
8 = A-2634	2A Quevedo	EET – Pichilingue INIAP	93
9 = A-2748	2A Quevedo	EET – Pichilingue INIAP	81
11 = EET-454 x EET-400-E1-T15-R4-A9	Santa Rita, Quevedo	EET – Pichilingue INIAP	74
13 = CCN-51 x CCAT-2119-E1-T11-R4-A10	Santa Rita, Quevedo	EET – Pichilingue INIAP	69
15 = EET-446 x CCN-51-E2-T9-R2-A8	Santa Rita, Quevedo	EET – Pichilingue INIAP	79
17 = EET-426 x CCN-51-E2-T2-R1-A10	Santa Rita, Quevedo	EET – Pichilingue INIAP	79
19 = CCN-51 x EET-233-E4-T4-R4-A4	Lote Herrera, Quevedo	EET – Pichilingue INIAP	69
22 = CCN-51 x EET-387-E4-T8-R4-A4	Lote Herrera, Quevedo	EET – Pichilingue INIAP	117
24 = CCN-51 x EET-462-E5-T5-R3-A1	Río Lindo, Quevedo	EET – Pichilingue INIAP	108
25 = CCN-51 x EET-534-E5-T2-R3-A2	Río Lindo, Quevedo	EET – Pichilingue INIAP	156
26 = CCN-51 x EET-450-E1.2.3-T7-R4-A9	Cuadrado Latino, Quevedo	EET – Pichilingue INIAP	172
28 = PA – 107	Cuadrado Latino, Quevedo	EET – Pichilingue INIAP	194
30 = T 1 CCN-51	Cuadrado Latino, Quevedo	EET – Pichilingue INIAP	158
31 = T2 EET-103	Cuadrado Latino, Quevedo	EET – Pichilingue INIAP	394
TOTAL			2074

Table 6. Number of clonal plants derived from 20 superior cocoa trees in the zone Centro, canton Las Naves, and introduced in the germplasm bank at Estación Experimental Pichilingue.

Trata. Nº	Código de árbol	Localidad	Agricultor / Propietario	Número de Plantas Sembradas 6 y 7 de Junio del 2006
1	1	LAS NAVES	CARLOS PORTILLA	5
2	5	LAS NAVES	CARLOS PORTILLA	2
3	6	LAS NAVES	CARLOS PORTILLA	5
4	7	LAS NAVES	CARLOS PORTILLA	4
5	8	LAS NAVES	CARLOS PORTILLA	3
6	15	LAS NAVES	CRISTINA VERDEZOTO	5
7	33	LAS NAVES	CRISTINA VERDEZOTO	5
8	37	LAS NAVES	CRISTINA VERDEZOTO	5
9	39	LAS NAVES	CRISTINA VERDEZOTO	5
10	42	LAS NAVES	CRISTINA VERDEZOTO	5
11	43	LAS NAVES	CRISTINA VERDEZOTO	5
12	46	LAS NAVES	CRISTINA VERDEZOTO	3
13	50	LAS NAVES	CRISTINA VERDEZOTO	5
14	51	LAS NAVES	CRISTINA VERDEZOTO	5
15	53	LAS NAVES	CRISTINA VERDEZOTO	5
16	54	LAS NAVES	CRISTINA VERDEZOTO	5
17	56	LAS NAVES	CRISTINA VERDEZOTO	5
18	59	LAS NAVES	CRISTINA VERDEZOTO	5
19	67	LAS NAVES	CRISTINA VERDEZOTO	5
20	68	LAS NAVES	CRISTINA VERDEZOTO	5
Total				92

Table 7. Number of clonal plants derived from 34 superior cocoa trees in the zone Centro, canton Echeandia, and introduced in the germplasm bank at Estación Experimental Pichilingue.

Trata. Nº	Código de árbol	Localidad	Agricultor / Propietario	Número de Plantas Sembradas 6 y 7 de Junio del 2006
21	47	ECHEANDIA	BORLAN CONTRERAS	1
22	48	ECHEANDIA	BORLAN CONTRERAS	2
23	53	ECHEANDIA	BORLAN CONTRERAS	5
24	54	ECHEANDIA	BORLAN CONTRERAS	3
25	55	ECHEANDIA	BORLAN CONTRERAS	5
26	56	ECHEANDIA	BORLAN CONTRERAS	1
27	59	ECHEANDIA	BORLAN CONTRERAS	5
28	61	ECHEANDIA	BORLAN CONTRERAS	5
29	63	ECHEANDIA	BORLAN CONTRERAS	5
30	65	ECHEANDIA	BORLAN CONTRERAS	5
31	66	ECHEANDIA	BORLAN CONTRERAS	3
32	67	ECHEANDIA	BORLAN CONTRERAS	5
33	68	ECHEANDIA	BORLAN CONTRERAS	4
34	69	ECHEANDIA	BORLAN CONTRERAS	5
35	70	ECHEANDIA	BORLAN CONTRERAS	5
36	71	ECHEANDIA	BORLAN CONTRERAS	5
37	74	ECHEANDIA	BORLAN CONTRERAS	2
38	75	ECHEANDIA	BORLAN CONTRERAS	4
39	76	ECHEANDIA	BORLAN CONTRERAS	5
40	79	ECHEANDIA	BORLAN CONTRERAS	5
41	89	ECHEANDIA	BORLAN CONTRERAS	4
42	90	ECHEANDIA	BORLAN CONTRERAS	5
43	91	ECHEANDIA	BORLAN CONTRERAS	2
44	92	ECHEANDIA	BORLAN CONTRERAS	1
45	93	ECHEANDIA	BORLAN CONTRERAS	3
46	94	ECHEANDIA	BORLAN CONTRERAS	2
47	98	ECHEANDIA	BORLAN CONTRERAS	5
48	99	ECHEANDIA	BORLAN CONTRERAS	5
49	100	ECHEANDIA	BORLAN CONTRERAS	5
50	101	ECHEANDIA	BORLAN CONTRERAS	1
51	102	ECHEANDIA	BORLAN CONTRERAS	5
52	103	ECHEANDIA	BORLAN CONTRERAS	5
53	104	ECHEANDIA	BORLAN CONTRERAS	5
54	105	ECHEANDIA	BORLAN CONTRERAS	5
TOTAL				133

Table 8. Number of clonal plants derived from 20 superior cocoa trees in the zone Norte, canton Eloy Alfaro, Muisne y Atacames, and introduced in the germplasm bank at Estación Experimental Pichilingue.

Trata. Nº	Código de árbol	Localidad	Agricultor / Propietario	Número de Plantas Sembradas 6 y 7 de Junio del 2006
55	D1	Colon Eloy	Domingo Valencia	5
56	28	Atacames	Wilber Zambrano	5
57	56	Atacames	Ramon España	5
58	70	Muisne	Ramon Santos	5
59		Atacames	Ramon España	5
	54			
60	53	Atacames	Ramon España	5
61	52	Atacames	Ramon España	5
62	58	Atacames	Ramon España	5
63	39	Atacames	Wilber Zambrano	5
64	36	Atacames	Wilber Zambrano	5
65	57	Atacames	Ramon España	5
66	26	Atacames	Wilber Zambrano	5
67	B3	Colon Eloy	Auria Valencia	5
68	80	Muisne	Primo Santo	5
69		Colon Eloy	Auria Valencia	5
	B16			
70	67	Atacames	Ramon España	5
71	32	Atacames	Wilber Zambrano	5
72	55	Atacames	Ramon España	5
73	B7	Colon Eloy	Auria Valencia	1
74	40	Atacames	Gilberto Saavedra	4
Total				95

Tabla 9. Identification of clones planted in the participatory evaluation trial established in the zone Centro, canton Las Naves.

Nº	Tratamientos (Clones)	<i>Nº de plantas</i>		Observaciones
		Sembradas	Por sembrarse	
1	CCAT-4668	8	2	
2	CCAT-3345	10	-	
3	CCAT-2143	10	-	
4	CCAT-1119	-	10	Plantas en vivero
5	CCAT-2564	-	10	Plantas en vivero
6	EET-454	-	10	Plantas en vivero
7	A-2126	10	-	
8	A-2634	10	-	
9	A-2748	-	10	Plantas en vivero
10	EET-454XEET-400/E1/T15/R4/A9	10	-	
11	CCN-51XCCAT-2119/E1/T11/R4/A10	10	-	
12	EET-446XCCN-51/E2/T9/R2/T8	10	-	
13	EET-426XCCN-51/E2/T2/R1/A8	10	-	
14	CCN-51XEET-233/E4/T4/R4/A4	10	-	
15	CCN-51XEET-387/E4/T8/R4/A4	10	-	
16	CCN-51XEET-462/E5/T5/R3/A1	10	-	
17	CCN-51XEET-534/E5/T2/R3/A2	10	-	
18	CCN-51XEET-450/ E1.2.3. /T7/R4/A9	10	-	
19	PA-107	10	-	
20	Árbol 70 Echeandía	8	2	
21	Árbol 99 Echeandía	10	-	
22	Árbol 02 las Naves	10	-	
23	Árbol 037Las Naves	9	1	
24	Arbol 044las Naves	9	1	
25	Árbol 046las Naves	-	10	Plantas en vivero
26	Arbol 056las Naves	9	1	
27	Árbol 067las Naves	8	2	
28	EET-103 (T1)	10	-	
29	CCN-51 (T2)	9	1	
30	JHV-10 (T3)	-	10	Plantas en vivero
31	BORDE EET-103	8	2	
	TOTAL	238	72	
	TOTAL GENERAL	238	72	

Planting date: 7 de Febrero del 2006

Table 10. Identification of clones planted in the participatory evaluation trial established in the zone Norte, canton Muisne (Esmeraldas).

Trat.	Clon	Número de plantas		Observaciones
		Sembradas	Por Sembrarse	
1	CCAT-4668	10	-	
2	CCAT-3345	10	-	
3	CCAT-2143	10	-	
4	CCAT-1119	-	10	
5	CCAT-2564	-	10	
6	EET-454	-	10	
7	A-2126	10	-	
8	A-2634	10	-	
9	A-2748	-	10	
10	EET-454XEET-400/E1/T15/R4/A9	10	-	
11	CCN-51XCCAT-2119/E1/T11/R4/A10	10	-	
12	EET-446XCCN-51/E2/T9/R2/T8	10	-	
13	EET-426XCCN-51/E2/T2/R1/A8	10	-	
14	CCN-51XEET-233/E4/T4/R4/A4	10	-	
15	CCN-51XEET-387/E4/T8/R4/A4	10	-	
16	CCN-51XEET-462/E5/T5/R3/A1	10	-	
17	CCN-51XEET-534/E5/T2/R3/A2	10	-	
18	CCN-51XEET-450/E1,2,3/T7/R4/A9	10	-	
19	PA-107	10	-	
20	D1 DOMINGO VALENCIA	10	-	
21	36 WILBER ZAMBRANO	10	-	
22	39 WILBER ZAMBRANO	10	-	
23	53 RAMON ESPAÑA	7	3	
24	56 RAMON ESPAÑA	10	-	
25	58 RAMON ESPAÑA	10	-	
26	73 RAMON SANTO	-	10	
27	80 PRIMO SANTO	10	-	
28	EET-103 (T1)	-	10	
29	CCN-51 (T2)	10	-	
30	JHV-10	-	-	
	BORDE EET-103	-	128	
	TOTAL	227	191	
	TOTAL GENERAL	227 Plantas sembradas	191 Plantas por sembrar	

Fecha de siembra: Jueves y Viernes 27 y 28 de Abril del 2006

Table 11. Identification of clones planted in the participatory evaluation trial established in the zone Norte, canton Eloy Alfaro (Esmeraldas).

Nº	TRATAMIENTOS	Número de plantas		Observaciones
		Sembradas	Por Sembrarse	
1	CCAT-4668	10	-	
2	CCAT-3345	10	-	
3	CCAT-2143	10	-	
4	CCAT-1119	-	10	No sembrado
5	CCAT-2564	-	10	No sembrado
6	EET-454	-	-	No sembrado
7	A-2126	10	-	
8	A-2634	10	-	
9	A-2748	10	-	
10	EET-454XEET-400/E1/T15/R4/A9	10	-	
11	CCN-51XCCAT-2119/E1/T11/R4/A10	10	-	
12	EET-446XCCN-51/E2/T9/R2/T8	10	-	
13	EET-426XCCN-51/E2/T2/R1/A8	10	-	
14	CCN-51XEET-233/E4/T4/R4/A4	10	-	
15	CCN-51XEET-387/E4/T8/R4/A4	10	-	
16	CCN-51XEET-462/E5/T5/R3/A1	10	-	
17	CCN-51XEET-534/E5/T2/R3/A2	10	-	
18	CCN-51XEET-450/E1,2,3/T7/R4/A9	10	-	
19	PA-107	10	-	
20	D1 DOMINGO VALENCIA	10	-	
21	D1 DOMINGO VALENCIA	10	-	
22	D-16	10	-	
23	D-18	10	-	
24	B-12	-	10	NO SEMBRADO
25	B-13	-	10	NO SEMBRADO
26	B-3	10	-	
27	B-9	10	-	
28	EET-103	10	-	
29	CCN-51	10	-	
30	JHV-10	10	-	
BORDE EET-103		-	84	NO SEMBRADAS
TOTAL				
TOTAL GENERAL		226	124	SEMBRADAS

Planting date: Miércoles 24 de Mayo del 2006.

Table 12. Physical acidity (pH) values for cocoa beans before and after fermentation and corresponding to the clones participating in the international clone trial.

MATERIAL	TRATM.	REP	pH inicio de fermentación		pH final de fermentación	
			Testa	Cotiledón	Testa	Cotiledón
UF-676	1	II	4,04	6,77	4,72	4,48
MAN-15-2	3	II	4,22	6,89	4,89	4,81
SPEC-54-1	4	II	4,27	6,76	4,91	4,81
AMAZ-15-15	5	II	4,34	6,90	4,57	4,50
ISC-43	6	II	3,85	6,58	4,70	4,57
SCA-6	7	II	5,26	6,92	6,02	4,98
PA-107	8	II	4,07	6,81	5,04	4,64
IMC-47	11	II	4,06	6,85	4,67	4,49
GU-175	12	II	3,96	6,74	4,76	4,83
EET-59	13	II	4,37	6,70	4,81	4,84
CATIE-1000	16	II	4,12	6,91	5,94	5,42
PA-120	17	II	4,14	4,93	4,93	4,61
VENCE-4	19	II	3,96	6,87	4,99	4,53
PLAYA ALTA	21	II	4,00	6,63	4,62	4,42
LCT-EEN-37	22	II	4,09	6,80	4,86	4,60
EET-103 (T1)	23	II	4,08	6,79	4,88	4,61
CCN-51 (T2)	24	II	3,80	6,79	4,75	4,50

Table 13. Description of fermented and unfermented cocoa bean samples obtained from the international clone trials and sent to CIRAD (France) for chemical determination of selected parameters.

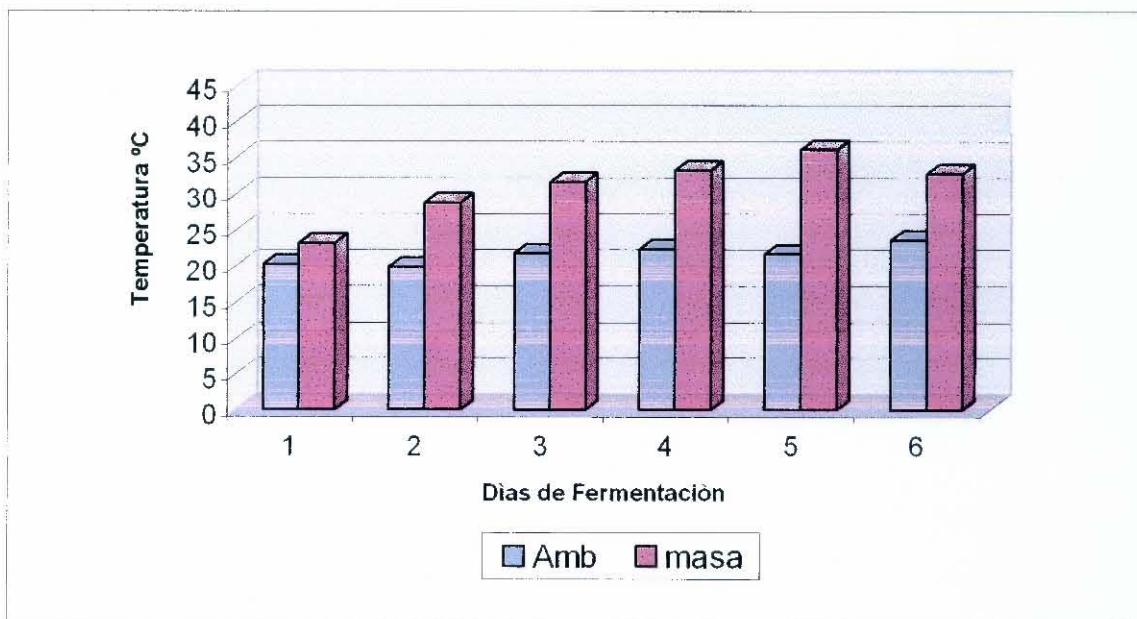
MATERIAL	TRATM.	PESO DE 30 SEMILLAS FERMENTADAS REP. II(grs.)	PESO DE 30 SEMILLAS N.F* REP. II (grs.)
UF - 676	1	100	100
MAN - 15 - 2	3	100	100
SPEC - 54 - 1	4	100	100
AMAZ - 15 - 15	5	100	100
ICS - 43	6	100	100
SCA - 6	7	100	100
PA - 107	8	100	100
IMC - 47	11	100	100
GU - 175	12	100	100
EET - 59	13	100	100
CATIE - 1000	16	100	100
PA - 120	17	100	100
PLAYA ALTA	21	100	100
LCT - EEN-37	22	100	84
EET - 103 (T ₁)	23	100	100
CCN - 51 (T ₂)	24	100	100

* Unfermented bean samples

Table 14. Description of fermented and unfermented cocoa bean samples obtained from the international clone trials and sent to Guittard Co (USA) for sensorial determination of selected parameters.

Material	Tratamiento.	Peso seco REP. II (grs.)
UF - 676	1	600
MAN - 15 - 2	3	600
SPEC - 54 - 1	4	600
AMAZ - 15 - 15	5	600
ICS - 43	6	600
PA - 107	8	600
IMC - 47	11	600
GU - 175	12	600
EET - 59	13	600
PLAYA ALTA	21	600
EET - 103 (T1)	23	600
CCN - 51 (T2)	24	600

Figure 1. Environmental and fermenting mass temperature measured during the fermenting events of cocoa beans comino from the clones under evaluation in the international trial.



INIAP-IPGRI
FINNACIAL REPORTS
June 2006

SUMMARY STATEMENT OF EXPENSES FOR THR CFC/ICCO/IPGRI COCOA "PRODUCTIVITY" PROJECT (CFC/ICCO/26)

1. Collaborating Institute: **INIAP** 2. Period of reporting: Dic-01-2005 al 31 de Mayo 2006

3. Date submision: Junio 20 del 2006

4. No of financial report: 4

5. Exchange rate for period: (*Ecuador official currency is the USA. dollar*)

6. Balance of CFC Funds Received, Spent and Carried Forward to the next reporting period

Period	CFC funds sent by IPGRI (US\$ in payment authorisation)	CFC funds effectively credited into		Expenditures claimed (CFC funds)	
		US\$ Bank account*	Local currency account* (by IPGRI or by transfer from US\$ account)	Local currency	US\$ equivalent
Opening balance	73.825,00	73.815,00			67.824,71
Reporting period	18.425,00	18.425,00			21.061,76
New balance**	92.250,00 (1)	92.238,00	(2)	(3)	88.886,47 (4)
Funds carried forward	Local currency (2) - (3) :			USD (1) - (4)	3.363,53
Interests received (if applicable)*					

* Bank statements covering the reporting period to be attached

** To be reported as opening balances in the next Summary Statement

7. Signatures:
(and dates)

Institute director and/or

Chief
Accountant

Adm. Coordinator
(mandatory)

Techn. Coordinator
(mandatory)

(3 minimum)

Operational costs(Project CFC/ICCO/IPGRI/26). Use more than one sheet if space not sufficient.

Transporte rentado

Institute (abbr.): INIAP

Period of reporting: December 01/05 - May 31/06 date: Jun, 31/06

Date dd/mm/aa	Destination	No. Documents	Dates (From/to)	total (inUS\$)
27/04/2006	Provincia de Esmeraldas	c/e # 000631	27-Abr-06	268,80

Total Cost (or Sub-total to be placed on top of next page if one page not sufficient)	268,80
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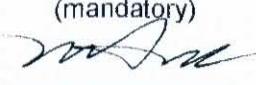
Institute director and/or



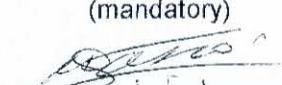
Chief Accountant



Adm. Coordinator
(mandatory)



Techn. Coordinator
(mandatory)



International Travel Expenses SOE (Project CFC/ICCO/IPGRI/26). Use more than one sheet if space not sufficient.

Institute (abbr.): INIAP

Period of reporting: Dec./01/05 - May./31/06

date: Jun., 15 / 06

Name off staff member	Type of Staff*	Destination	Dates (From/to)	subsistance paid	ticket**	Other cost**	total (local currency)	total (inUS\$)
Carmen Suárez C.	Scientist	Miranda, Venezuela	Feb-13 al 17 Feb-06		394,84		394,84	394,84
Alfonso Vasco M.	Scientist	Miranda, Venezuela	Feb-13 al 17 Feb-06		394,84		394,84	394,84
Jhonny Zambrano M.	Técnico	Miranda, Venezuela	Feb-13 al 17 Feb-06		394,84		394,84	394,84
James Quiróz V.	Técnico	Miranda, Venezuela	Feb-13 al 17 Feb-06		394,84		394,84	394,84
Juan Agama P.	Técnico	Miranda, Venezuela	Feb-13 al 17 Feb-06		394,84		394,84	394,84

Total Cost (or Sub-total to be placed on top of next page if one page not sufficient)	-	1.974,20	-	1.974,20	1.974,20
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*S = Scientific (academic staff), T = Technical assistants, D = Driver, L = Labourers, ** Only Legitimate costs not covered by the sussistence.

Institute director and/or

Chief Accountant

Adm. Coordinator

(mandatory)

Techn. Coordinator

(mandatory)

Local Travel Expenses SOE (Project CFC/ICCO/26), IPGRI Use more than one sheet if space not sufficient.

Institute (abbr.): INIAP

Period of reporting: Dec. 01/05 of May 31/06 date: Jun., 15 /06

Name off staff member	Type of Staff*	Destination	Dates (From/to)	subsistance paid	ticket**	Other cost**	total (local currency)	total (inUS\$)
Juan Agama	Technical	Prov. El Guayas, Milagro	Dic., 14/05	22,50			22,50	22,50
Milton Teran	Techn. Assist.	Prov. El Guayas, Milagro	Dic., 14/05	22,50			22,50	22,50
Alfonso Vasco	Scientist	Prov. Bolívar, Echeandía	Dic., 19/05	11,25			11,25	11,25
Fredy Amores	Scientist	Prov. Guayas - Guayaquil	Dic., 20/05	13,75			13,75	13,75
Darío Calderón	Technical	Prov. Esmeraldas, Borbón	Dic., 29/05	100,00			100,00	100,00
Grisnel Quijano	Techn. Assist.	Prov. Esmeraldas, Borbón	Dic., 29/05	100,00			100,00	100,00
Hilton Guerrero C.	Technical	Prov. El Guayas, Milagro	Ene, 09/06	11,25			11,25	11,25
Milton Teran	Techn. Assist.	Prov. El Guayas, Milagro	Ene, 09/06	11,25			11,25	11,25
Jhonny Zambrano	Technical	Prov. Bolívar - Echeandía	Ene-16/06	22,50			22,50	22,50
Grisnel Quijano	Techn. Assist.	Prov. Bolívar - Echeandía	Ene-16/06	22,50			22,50	22,50
Milton Teran	Techn. Assist.	Prov. El Guayas, Guayaquil	Feb, 22/06	11,25			11,25	11,25
James Quiroz V.	Technical	Prov. Bolívar, Las Naves	Mzo, 03/06	11,25			11,25	11,25
Milton Teran	Techn. Assist.	Prov. Bolívar, Las Naves	Mzo, 03/06	11,25			11,25	11,25
Alfonso Vasco	Scientist	Prov. Esmeraldas, Borbón	Mzo, 07/06	125,00			125,00	125,00
James Quiroz V.	Technical	Prov. Esmeraldas, Borbón	Mzo, 07/06	125,00			125,00	125,00
Jhonny Zambrano	Technical	Prov. Esmeraldas, Borbón	Mzo, 07/06	125,00			125,00	125,00
Angela Palacios	Student	Prov. Esmeraldas, Borbón	Mzo, 07/06	125,00			125,00	125,00
James Quiroz V.	Technical	Prov. Bolívar, Las Naves	Mzo, 09/06	11,25			11,25	11,25
Jhonny Zambrano	Technical	Prov. Bolívar, Las Naves	Mzo, 09/06	11,25			11,25	11,25
Hilton Guerrero C.	Technical	Prov. Pichincha, Quito	Mzo, 10/06	75,00			75,00	75,00
Milton Teran	Tech. Assist.	Prov. El Guayas, Guayaquil	Mzo, 24/06	11,25			11,25	11,25
Milton Teran	Tech. Assist.	Prov. El Guayas, Guayaquil	Mzo, 27/06	28,50			28,50	28,50
Angela Palacios	Student	Prov. Esmeraldas - Borbón	Mzo, 30/06	140,00			140,00	140,00
Milton Teran	Tech. Assist.	Prov. Esmeraldas - Borbón	Mzo, 30/06	10,00			10,00	10,00
Juan Agama	Technical	Prov. El Guayas, Milagro	Mzo, 30/06	22,50			22,50	22,50
Grisnel Quijano	Tech. Assist.	Prov. El Guayas, Milagro	Mzo, 30/06	22,50			22,50	22,50
Grisnel Quijano	Tech. Assist.	Prov. Bolívar, Las Naves	Mzo, 31/06	10,00			10,00	10,00
Milton Teran	Tech. Assist.	Prov. El Guayas, Guayaquil	Abr, 10/06	11,25			11,25	11,25
Alfonso Vasco	Scientist	Prov. Esmeraldas, Borbón	Abr-24/06	12,50			12,50	12,50
Jhonny Zambrano	Technical	Prov. Esmeraldas, Borbón	Abr-24/06	12,50			12,50	12,50
Jhonny Zambrano	Technical	Prov. Esmeraldas, Borbón	Abr-25/06	112,50			112,50	112,50
Juan Agama	Technical	Prov. Esmeraldas, Borbón	Abr-25/06	112,50			112,50	112,50
Geover Peña M.	Technical	Prov. Esmeraldas, Borbón	Abr-25/06	112,50			112,50	112,50
Grisnel Quijano	Tech. Assist.	Prov. Esmeraldas, Borbón	Abr-25/06	112,50			112,50	112,50
Total Cost (or Sub-total to be placed on top of next page if one page not sufficient)								1,699,75

*S = Scientific (academic staff), T = Technical assistants, D = Driver, L = Labourers, ** Only Legitimate costs not covered by the subsistence.

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Local Travel Expenses SOE (Project CFC/ICCO/26). IPGRI Use more than one sheet if space not sufficient.

Institute (abbr.): INIAP

Period of reporting: Nov. 01/05 of May 31/06 date: Jun., 21/06

Name off staff member	Type of Staff*	Destination	Dates (From/to)	subsistance paid	ticket**	Other cost**	total (local currency)	total (inUS\$)
Alfonso Vasco		Prov. Manabí, Portoviejo	May, 15/05	115,00			115,00	115,00
James Quiroz V.		Prov. Manabí, Portoviejo	May, 15/05	75,00			75,00	75,00
Milton Teran		Prov. El Guayas, Guayaquil	May, 27/06	14,25			14,25	14,25
Milton Teran		Prov. El Guayas, Guayaquil	May, 29/06	11,25			67,50	67,50
Grisnel Quijano		Prov. Esmeraldas, Borbón	May, 31/06	112,50			112,50	112,50
Jhonnny Zambrano		Prov. Esmeraldas, Borbón	May, 31/06	112,50			112,50	112,50
Geover Peña M.		Prov. Esmeraldas, Borbón	May, 31/06	112,50			112,50	112,50
Alfonso Vasco		Prov. El Guayas, Guayaquil	May, 31/06	12,50			12,50	12,50
							-	-
								621,75
Total Cost (or Sub-total to be placed on top of next page if one page not sufficient)								2.321,50

*S = Scientific (academic staff), T = Technical assistants, D = Driver, L = Labourers, ** Only Legitimate costs not covered by the sussistence.

Institute director and/or

Chief Accountant

Adm. Coordinator

Techn. Coordinator

INIAP - Estación Experimental Pichilingue

Personnel Costs SOE (Project CFC/ICCO/IPGRI/26)

Institute (abbr.): INIAP

Period of reporting: December 01-2005 - May 31-2006

Date: Junio 15/2006

Exchange rate:

Type of Staff	Names (or numbers for manual labour)	Monthly cost (local currency)	No. Of months	Total cost (local currency)	Total cost (in US\$ eq.)	Document number
Technical assistants (add copies of payroll slip for monthly salaries above 500 USD):						
Laboratory						
Field:	Jhonny Zambrano Mendoza	548,80	6	3.292,80	3.292,80	#542/580/582/619/637
	Juan Emilio Zambrano Parreño	220,17	6	1.321,00	1.321,00	
Manual labour (individuals paid by CFC):						
Fixed		289,60	6	1.737,60	1.737,60	
Casual					-	
Contract labour service (add receipts above 500 USD):						
Several Casual Contracts with different values				3631,80	3631,80	#549 / 584 / 656
Total cost (local and US\$)				9.983,20	9.983,20	

Signatures:

Institute director and/or

Chief Accountant

Adm. Coordinator
(mandatory)

Techn. Coordinator
(mandatory)

(3 minimum)

Category Code*	Item	Dates (month/ year)	Purchase < 500 US\$ eq. ***	Purchase above 500 US\$ equivalent****		Total value in US \$
			Local currency	Local currency	Document no.	
I	Máquina rozadora	(Marzo / 2006)		599,00	# 606	599,00
TOTAL I	Equipment			599		599,00
III	Balanza	March 2006	15,00			15,00
III	Plantas de cacao	March 2006	320,00			320,00
III	Insumos agricolas	December 2005	51,80			51,80
III	Insumos agricolas	January 2006	152,20			152,20
III	Insumos Agrícolas	May-06		583,2	# 642	583,2
III	Fundas/Tela	May-06	235,20			235,20
TOTAL III	Consumables		774,20	583,20		1.357,40
	Mano de Obra Fija	December 2005-May 2006	1.737,60			1.737,60
	Mano de Obra Eventual	December 2005-May 2006	1.330,20	2.301,60	# 549, # 584, # 656	3.631,80
	Profesionales	Nov-01-2005; Mayo 12-2006	1.321,00	3.292,80	# 542/ 580/ 582/619/637	4.613,80
Total IV	Personnel**		4.388,80	5.594,40		9.983,20
	Viáticos y Subsistencias	December 2005-May 2006	2.321,50			2.321,50
Total VI	Local Travel		2.321,50			2.321,50
VI	Tickets aereos	Abrial 11-2006		1.974,20	# 618	1.974,20
Total VI	International Travel			1.974,20		1.974,20
VII	Confección muebles Sala Sesiones	December 2005	447,70			447,70
VII	Confección mampara Sala Sesiones	March 2006	100,00			100,00
VII	Mantenimiento equipos computación	December 2005, Febr. 2006	440,00			440,00
VII	Peaje y Transporte plántulas cacao	April 2006	281,80			281,80
VII	Repuestos y mantenimiento vehículos	December 2005-May 2006	1.197,00			1.197,00
VII	Servicio telefónico	December 2005-May 2006	56,71			56,71
VII	Servicio fotocopias	January 2006	88,25			88,25
VII	Permisos sanitarios	January - March 2006	200,00			200,00
VII	Combustible	December 2005-May 2006	1.288,20			1.288,20
VII	Material de Oficina	December-March 2006	381,50			381,50
VII	Servicios bancarios	December 2005-May 2206	30,45			30,45
VII	Servicios postales	May-06	314,85			314,85
Total VII	Operation		4.826,46			4.826,46
TOTAL (all categories)			12.311,40	8.750,80		21.061,76

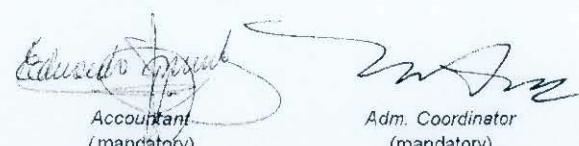
* Sub-totals to be presented for each Category of Expenses (local currency and US\$)

** Details to be presented on separate SOE sheets

*** Grouping of items with total group value not exceeding 500 US\$ is allowed

**** Invoices and SS3 forms to be attached separately for purchases with individual value > 500 US\$

Signatures (and dates):



Accountant
(mandatory)

Adm. Coordinator
(mandatory)



Techn. Coordinator
(mandatory)

Yearly Counterpart (INIAP) Expenses SOE (Project CFC/ICCO/26)

Institute (abbr.): INIAP Project year of reporting: Year 2 (May 2005-April 2006)

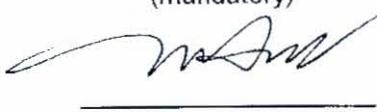
Category Code	ITEM	Expenses (local currency)	Total value in US\$ *	Observations
I				
I				
I	Total Capital Expenditure			
II	Use of offices, storehouses, labs, greenhouse facilities and land		5.000,00	
II	Total Infrastructure		5.000,00	
III	Total Consumables			
IV	Scientific staff (INIAP)			
IV	Amores Freddy		4.000,00	
IV	Vasco Alfonso		5.000,00	
IV	James Quiroz		3.000,00	
IV	Carmen Suárez		3.000,00	
IV	Technical assistants (INIAP)			
IV	Teran Milton		2.500,00	
IV	Quijano Grisnel		2.500,00	
IV	Total Personal		20.000,00	
V	Manual labour		2.500,00	
V	Total Labour **		2.500,00	
VI	Viaticos y subsistencias		300,00	
VI	Total Travel Exp. **		300,00	
VIII	Gastos de Guardiania		8.500,00	
VIII	Gastos de energia electrica		7.500,00	
VIII	Gastos de telefonía		700,00	
VIII	Total Operational Costs		16.700,00	
	Total		44.500,00	

Signatures:

Accountant
(mandatory)



Adm. Coordinator
(mandatory)



Techn. Coordinator
(mandatory)

