Table C.4.2 Average Farm Size per Farmer

Item / Area	Less than 10ha				Average Farm Size per Farmer
	No. of Farmers	Percentage (%)	Hectarage of Farmland	Percentage (%)	
San Pedro de Iguaque	778 Farm	85 %	2,322.8 ha	37 %	3.0 ha
Santa Sofia	2,006	95	4,818.7	69	2.4
Caqueza	738	97	1,024.4	72	1.4
Tibacuy	423	89	849.4	42	2.0

Table C.4.3 Planted Area of Model Farm

Unit : ha

Area / Crops	San Pedro de Iguaque			Santa Sofia	Caqueza	Tibacuy
	A	B	Total			
Potato	0.6	0.4	1.0			0.1
Wheat		0.1	0.1	0.1		
Maize & Broadbean	0.15	0.1	0.25			
Maize & Kidneybean				0.1		
Maize & Pumkin						0.1
Maize, Kidneybean & Pumkin					0.22	
Broadbean	0.15	0.4	0.55			
Kidneybean				0.4		0.2
Pea	0.3	0.2	0.5	0.3	0.22	
Snapbean					0.44	0.3
Onion				0.4	0.44	0.2
Welsh onion	0.3		0.3			
Garlic				0.2		
Tomato					0.22	0.1
Cucumber						0.1
Beet	0.3		0.3			
Carrot	0.15		0.15			
Arracacha					0.22	
Total	1.95	1.2	3.15	1.5	1.76	1.1

A : Application : Cropping Calendar of Fig.C.1.1-A.1
B : Applicalton : Cropping Calender of Fig.C.1.2-B.1

Table C.4.4 Recommended Varieties

Crops	Varieties	San Pedro de Iguaque	Santa Sofia	Caqueza	Tibacuy
Potato	Parda Pastusa	○	○		○
	ICA-Purace				○
	Diacol Nonserrate	○			
	ICA-San Jorge		○		
	ICA-Tequendama	○			
	Yema de Huevo (Criolla)	○			
Maize	ICA-V 506	○			
	ICA-V 508	○	○		
	ICA-H 556	○	○		
	ICA-V 402			○	○
	ICA-V 453			○	○
	ICA-H 302				○
	ICA-V 303				○
	ICA-DV 351				○
	ICA-H 353				○
	ICA-Hoya			○	
	PORVA		○		
Wheat	Tiba	○			
	Bonza 63	○	○		
	ICA-Suganuxi	○	○		
	ICATA	○	○		
Onion	Red Bermuda			○	○
	Yellow Granex			○	○
	Red Creole		○		○
	Crystal White Wax				○
	Red Tropicana			○	
	Red Granex			○	
Welsh Onion	Allica (Sancona)	○			
	Junca		○		
	Regional	○			
Garlic	Cardenal		○		

Crops	Varieties	San Pedro de Iguaque	Santa Sofia	Caqueza	Tibacuy
Kidneybean	Frijolica LS33		○		○
	ICA 302				○
	ICA 304				○
	ICA 305				○
	ICA 306				○
	Diacol Andino		○		
	Cargamento			○	○
	Bola Roja		○	○	○
	Sabanero				○
	Tundama			○	
Pea	ICA Gojaca	○			
	ICA Teusaca	○			
	Piquinegra	○			
	Guatecana	○	○	○	○
	Oji Negra	○	○	○	○
	Pontena			○	
	Santa Isabel	○			
Snapbean	Blue-Lake			○	○
Tomato	Chonto			○	○
	Manalucie			○	○
	Chonto Santa Cruz				○
	Chonto Licato				○
	Lipacal 21				○
	Rio Grande			○	
Beet	Crosby Egyptian	○			
Carrot	Chantenay	○	○		

Table C.4.5 Main deseases and insects

(1) Diseases

Spanish (Scientific name)	English	Japanese
◎ Patato		
Rhizotocnia canker (*Rhizoctonis sp.*)	Black scurt	黒あざ病
Tizon tardio (*Phytophtora sp.*)	Late blight	疫　病
◎ Leguminosae		
Pudriciones radiculares (*Rhizoctonia sp.* *Fusarium sp.* *Sclerotium sp.*)	Damping off	立枯病
Roya (*Uromyces sp.*)	Rust	銹　病
Antracnosis (*Colletrotichum sp.*)	Anthrasnose	炭疽病
Mildeo polvoso (*Erysiphe sp.*)	Powdery mildow	うどんこ病
Mustia hilachosa (*Thanataphorus sp.*)	Leaf bligth	萎凋病
Mancha de Ascochyta (*Ascochyta sp.*)	Leaf spot	褐斑病

Spanish (Scientific name)	English	Japanese
◎ Onions		
Mancha purpura *(Alternaria sp.)*	Alternaria leaf spot	黒 斑 病
Podredumbre del cuello *(Botrytis sp.)*	Gray mold	灰色カビ病
Raiz rosada *(Pyrenochaeta sp.)*	Pink root rot	赤 根 病
Pudricion blonda *(Erwinea sp.)*	Bacterial soft rot	軟 腐 病
◎ Tomato		
Sancocho *(Phytophthora sp. Phytium sp. Rhizoctonia sp.)*	Damping off	立 枯 病
Marchitez *(Fusarium sp. Pseudomonas sp.)*	Wilt	萎 凋 病 (青 枯 病)
Antracnosis *(Colletrotrichum sp.)*	Anthracnose	炭 疽 病
Tizon temprano *(Alternaria sp.)*	Early blight	輪 紋 病
Tizon tardio o gotera *(Phytophthora sp.)*	Late blight	疫 病

Spanish (Scientific name)	English	Japanese
Hildeu velloso *(Cladosporuim sp.)*	Leaf mold	うどんこ病
Pudricion suave *(Erwinia sp.)*	Bacterial soft rot	軟 腐 病

(2) Insects

Spanish (Scientific name)	English	Japanese
◎ Potato		
Gusano trozador *(Agratis sp.)*	Black cutworm	タマナヤガ（ヨトウムシ）
Palomilla del tuberculo de la papa *(Phthorimaea sp.)*	Potato tuberworm	ジャガイモ
Toston de la papa *(Liriomyza sp.)*	Leafminer	ハモグリバエ
Gusano blanco del tuberculo de la papa *(Premonotrypes sp.)*	Weevil	ゾウムシ
◎ Leguminosae		
Gusano trozador *(Agrotis sp. Spodatera sp. Prodenia sp.)*	Black cutworm (Armyworm)	ヨトウムシ
Barrenador del tallo *(Melanogromiza sp.)*	?	クキモグリバエ
Mosca blanca *(Trialeurodes sp. Bemicia sp.)*	Whitefly	コナジラミ
Chiza o Majojoy *(Ancognatha sp.)*	White grub	コガネムシ（幼虫）

Spanish (Scientific name)	English	Japanese
Cucarroncitos de las hojas *(Cerotoma sp. Diabrotica sp.)*	Beetle	ハ ム シ
Afidos *(Macrosiphum sp. Aphis sp.)*	Aphid	アブラムシ
◎ Onions		
Mosca de la cebolla *(Hylemia sp.)*	Onion maggot	タマネギバエ
Trips *(Thrips sp.)*	Thrips	スリンプス
Acaros *(Aceria sp.)*	Bulb mite	ダ ニ
◎ Tomato		
Gusano trozador *(Agrotis sp.)*	Black cutworm	タマナヤガ (ヨトウムシ)
Gusano cogollero *(Scrobiaphpula sp.)*	—	—
Barrenador del tallo *(Melanogromiza sp.)*	Stem miner	クキモグリバエ
Minador *(Lyriomyza sp.)*	Leabminer	ハモグリバエ

Spanish (Scientific name)	English	Japanese
Perforador del fruto *(Heliothis sp.)*	Caterpiller	タバコガ
Afidos *(Macrosiphum sp.)*	Aphid	アブラムシ

Table C.4.6 Application Volume of Insecticide and Fungicide per crop (Each time per Ha)

	Patato	Kidneybean	Pea	Snapbean	Onion	Welsh Onion	Tomato	Beet	Carrot	Arracacha	Pumkin
Insecticide											
Furadan	30 kg		20 kg		1 kg		1 Lts				
Lannate	3 Lts	3 Lts or				3 kg	3 kg			3 Lts	
Sevin		2 kg		3 kg		2 kg		2 kg	2 kg		2 kg
Dimecron			3 Lts	3 Lts							
Roxion		2 Lts	3 Lts	2 Lts	2 Lts	2 Lts	2 Lts	2 Lts	2 Lts	2 Lts	2 Lts
Fungicide											
Manthate	2 kg or	2 kg or			2 kg			2 kg	2 kg	2 kg	2 kg
Dithane	2 kg	2 kg	5 kg	5 kg			2 kg				
Benlate		1 kg	1.5kg	1 kg	1 kg						
Breslanid						1 kg					
Duter						1 kg					
Brestan							1 kg				
Playvax				3 kg							
Elosal				2 kg							

Note : Heaving from ICA (Tibaitata)

Table C.4.7 Production Inputs

	Potato		Maize		Wheat		Kidneybean	
	Without	With	Without	With	Without	With	Without	With
Seed kg/ha	1200	1000	30	25	130	120	80	70
Calfos kg/ha	500	1000		–		–		
Organic matters kg/ha	2000	3000						
Fertilizer kg/ha	800	1200	200	250	130	200	200	250
Insecticide (Appliding times)	1~2	2~3	0~1	1~2	–	0~1	1~2	2~3
Fungicide (Appliding times)	2~3	2~3	–	0~1	0~1	0~1	0~1	1~2
Packing Materials								
Iguaque	96	144	10	13	10	12		
Santa Sofia	96	144	8	13	11	15	5	8
Caqueza			18	20			11	16
Tibacuy	96	144	8	15			10	14
Others								
Pole								
String								
Wire								
Needle wire								

	Broadbeans		Pea		Snapbean		Onion	
	Without	With	Without	With	Without	With	Without	With
Seed kg/ha	40	35	70	60	35	30	2.5	2.5
Calfos kg/ha							500	1000
Organic Matters kg/ha							2000	3000
Fertilizer kg/ha	200	250	250	300	250	300	350	450
Insecticide (Appliding times)	1~2	2~3	1~2	2~3	1~2	2~3	1~2	2~3
Fungicide (Appliding times)	0~1	1~2	0~1	1~2	1~2	1~2	2~3	2~3
Packing Materials								
Iguaque	10	15	20	28				
Santa Sofia	10	15	20	28			120	160
Cagueza			24	32	100	120	160	200
Tibacuy			20	28	100	120	112	160
Others								
Pole			pcs 2000	pcs 2000	pcs 2000	pcs 2000		
String			rolls 6	rolls 6	rolls 6	rolls 6		
Wire			kg 90	kg 90	kg 70	kg 70		
Needle wire			—	—	kg 90	kg 90		

	Tomato		Welsh onion	Garlic	Cucumber	Beet	Carrot	Arracacha	Pumkin
	Without	With							
Seed kg/ha	0.3	0.3	Bultos 60	kg 900	kg 4	kg 5	kg 5	kg 500	kg 1.5
Calfos kg/ha		1000							
Organic Matters kg/ha	2000	3000		3000					
Fertilizer kg/ha	350	450	450	450	450	400	400	400	400
Insecticide (Appliding times)	3~4	3~4	5~6	2~3	3~4	2~3	2~3	2~3	1~2
Fungicide (Appliding times)	5~6	5~6	5~6	2~3	5~6	2~3	2~3	2~3	1~2
Packing Materials									
Iguaque			160			144	160		
Santa Sofia				56		188	160		
Cagueza	1400	1860			1330			96	120
Tibacuy	1200	1660			1330			96	120
Others									
Pole	pcs. 2000	PCS. 2000			pcs 2000				
String	rolls 6	rolls 6			rolls 6				
Wire	kg 180	kg 180			kg 180				
Needle wire					—				

Table C.4.8 (1) Labor Requirements per Crop

Day/ha

Cropping Activities	Power	Potato		Maize & Kidneybean		Wheet		Onion		Broadbean		Kidneybean		Pea		Snapbean		Tomato	
		without	with	without	with	without	with	without	with	without	with	without	with	without	with	without	with	without	with
Nursery Preparation	Manual	—	—	—	—	—	—	10	10	—	—	—	—	—	—	—	—	10	10
Plowing	draft Animal	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Harrowing	"	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Manual							12	12			—	—	—	—	—	—	12	12
Application:calfos	"	*	2	—	—	—	—	*	2	—	—	—	—	—	—	—	—	*	2
Application:Organic Natters	"	*	2	—	—	—	—	*	2	—	—	—	—	—	—	—	—	*	2
Application : 1 Time	"	8	10	5	6	3	4	5	6	4	5	4	5	4	5	4	5	5	6
Fertilizer 2 "	"	—	4	—	—	—	—	—	2	—	—	—	—	—	—	—	2	—	2
Sowing/Transplanting	"	15	15	(M) 4	(M) 4	4	4	30	30	8	8	8	8	8	8	10	10	30	30
Resowing	"			(K) 8	(K) 8	—	—	2	2	—	—	—	—	—	—	—	—	2	2
Weeding 1 Time	"	15	15	15	15	10	10	15	15	15	15	15	15	15	15	15	15	15	15
2 "	"	15	15	15	15	—	10	15	15	15	15	15	15	15	15	15	15	15	15
3 "	"	15	15	—	15	—	—	15	15	—	15	—	15	—	15	—	15	—	15
Water Management	"	—	25	—	6	—	6	—	22	—	20	—	20	—	20	—	14	—	14
Application : 1 Time	"	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Insecticide & y 2 "	"	3	3		3		3	3	3	3	3	3	3	3	3	3	3	3	3
Fungicide 3 "	"	3	3		3			3	3		3		3		3		3	3	3
4 "	"		3						3									3	3
5 "	"																	3	3
6 "	"																	3	3
Agro-Materials	"	—	—	—	—	—	—	—	—	—	—	—	—	20	20	20	20	35	35
Harvesting	"	30	38	(M) 6	(M) 8	15	20	25	33	9	10	8	10	15	20				
				(K) 8	(K)10											50	65	55	77
Selection/Packing	"	6	8	(M) 4	(M) 5	8	10	10	13	8	10	8	10	12	16				
				(K) 8	(K)10														
Transporting	"	6	8	(M) 2	(M) 3	2	3	8	10	2	3	2	3	10	13	10	13	10	14
				(K) 2	(K) 3														
Total	draft Animal	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	Manual	119	169	80	117	45	73	156	201	67	117	66	110	105	156	130	183	207	275

Note : 1) * means "applied sometimes"
2) (M) : maize, (K) : kidneybean

(2) Labor Requirements per Crop

Day/ha

Cropping Activities	Power	Welsh Onion	Garlic	Cucumber	Beet	Carrot	Arracacha	Maize , Kidney-bean & pumkin	Maize & Broadbean	Maize & Pumkin	Cassava	Sugarcaney	
												1st year	2nd year
Nursery Preparation	Manual	—	10	—	—	—	—	—	—	—	—	—	—
Plowing	draft Animal	4	4	4	4	4	4	4	4	4	4	4	—
Harrowing	"	3	3	3	3	3	3	3	3	3	3	3	—
	Manual	30	12	12	12	12	—				12		
Application:calfos	"	2	2	—	—	—	—	—	—	—	—	—	—
Application:Organic Matters	"	2	2	—	—	—	—	—	—	—	—	—	—
Application : 1 Time	"	15	6	6	6	6	4	8	6	6	4	4	4
Fertilizer 2 "	"		2	2	2	2	2	—	—	—	2	—	—
Sowing/Transplanting	"	60	30	15	20	20	15	(M) 4 (K) 8 (P)10	(M) 4 (B) 8	(M) 4 (P)10	10	15	—
Resowing	"	—	2	—	—	—	—	—	—	—	—	—	—
Weeding 1 Time	"	15	15	15	15	15	15	15	15	15	15	15	15
2 "	"	15	15	15	15	15	15	15	15	15	15	15	15
3 "	"	15	15	15	15	15	15	15	15	15	15	15	
Water Management	"	50	22	20	17	22	6	6	6	6	—	—	—
Application : 1 Time	"	9	3	3	3	3	3	3	3	3	3	3	3
Insecticide & 2 "	"	9	3	3	3	3	3	3	3	3	3	3	
Fungicide 3 "	"		3	3	3	3		3	3	3			
4 "	"		3	3	3								
5 "	"			3									
6 "	"			3									
Agro-Materials	"	—	—	20	—	—	—						
Harvesting	"	40	33	65	30	40	36	(M) 8 (K)10 (P)13	(M) 8 (B)10	(M) 8 (P)13	40		30
Selection/Packing	"	20	13		20	10	8	(M) 5 (K)10 (P) 8 (M) 3	(M) 5 (B)10 (M) 3	(M) 5 (P) 8 (M) 3			
Transporting	"	6	10	13	6	6	6	(K) 3 (P) 7	(B) 3	(P) 7	4		30
Total	draft Animal	7	7	7	7	7	7	7	7	7	7	7	7
	Manual	288	201	216	170	172	107	157	119	124	123	70	97

Nate : (M) : Maize, (K) : Kidney bean, (B) : Broadbean, (P) : Pumkin

(3) Labor Requirements for Coffee Production Day/ha

Cropping Activities	Power	1st year	2nd	3rd	4th	5th
Nursery Preparation	Manual	30	—	—	—	—
Plowing						
Harrowing	Manual	30	—	—	—	—
Application : 1 Time	"	10	10	10	10	10
Fertilizer 2 "	"		10	10	10	10
Sowing/Transplanting	"	50	—	—	—	—
Resowing	"	10	—	—	—	—
Weeding 1 Time	"	15	15	15	15	15
2 "	"	15	15	15	15	15
3 "	"	15	15	15	15	15
Water Management	"					
Application : 1 Time	"	3	3	3	3	3
Insecticide & y 2 "	"	3	3	3	3	3
Fungicide 3 "	"		3	3	3	3
4 "	"		3	3	3	
Harvesting	"		14	47	69	90
Selection/Packing	"					
Transporting	"		1	2	4	5
Total	Manual	181	89	122	150	172

Table C.4.9 (1) MONTHLY LABOR BALANCE

(Unit: Man-day/month)

	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
San Pedro de Iguaque													
i) Total Labor	124	112	124	120	124	120	124	124	120	124	120	124	1,460
ii) Actual Labor													
a. Without Project	71	63	69	49	46	61	58	32	22	22	32	55	580
b. With Project	84	77	96	87	83	72	100	86	80	76	76	68	985
iii) Balance (b-a)	13	14	27	38	37	11	42	54	58	54	44	13	405
Santa Sofia													
i) Total Labor	93	84	93	90	93	90	93	93	90	93	90	93	1,095
ii) Actual Labor													
a. Without Project	27	35	41	32	35	30	37	36	27	28	26	24	378
b. With Project	42	50	58	50	45	53	58	56	47	50	42	55	606
iii) Balance (b-a)	15	15	17	18	10	23	21	20	20	22	16	31	228

Table C.4.9 (2) MONTHLY LABOR BALANCE

(Unit: Man-day/month)

	Month												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Caqueza													
i) Total Labor	93	84	93	90	93	90	93	93	90	93	90	93	1,095
ii) Actual Labor													
a. Without Project	23	22	32	47	49	44	41	36	38	31	24	26	413
b. With Project	28	29	39	47	60	58	54	66	67	49	50	66	613
iii) Balance (b-a)	5	7	7	0	11	14	13	30	29	18	26	40	200
Tibacuy													
i) Total Labor	93	84	93	90	93	90	93	93	90	93	90	93	1,095
ii) Actual Labor													
a. Without Project	40	33	51	58	60	50	52	36	45	47	47	40	559
b. With Project	55	52	63	57	57	52	57	44	59	56	60	54	666
iii) Balance (b-a)	15	19	12	-1	-3	2	5	8	14	9	13	14	107

Table C.4.10 PRODUCTION VOLUME

(1) San Pedro de Iguaque

Unit : ton

Crops	Without Project	With Project
Potato	16.8	19.0
Wheat	0.39	0.21
Maize	0.65	0.44
Broadbean		1.57 *
Pea		1.42
Welsh onion		9.0
Beet		4.5
Carrot		2.3

* Production of Broadbean mixed maize is included

(2) Santa Sofia

Unit : ton

Crops	Without Project	with Project
Potato	2.6	
Wheat	0.04	0.21
Maize	0.22	0.18
Kidneybean	0.22 *	0.48 *
Pea	0.26	1.0
Onion		6.8
Garlic		1.4
Cassava	0.8	
Sugar cane	1.5	

* Production of Broadbean mixed maize is included

(3) Caqueza

Unit : ton

Crops	Without Project	With Project
Maize	0.88	0.46
Kidneybean	0.6 *	0.23 *
Pea	0.45	0.25
Snepbean	0.9	4.4
Onion	1.4	7.04
Tomato	1.7	4.4
Arracacha		2.2
Pumkin		2.29

* Production of Kidneybean and pumkin mixed maize are included

(4) Tibacuy

Unit : ton

Crops	Without Project	With Project
Potato	0.65	1.9
Maize	0.13	0.18
Kidneybean	0.2 *	0.28
Pea	0.31	
Snapbean	1.2	3.3
Onion		3.4
Tomato	1.5	2.1
Cucumber		1.7
Pumkin		1.12 *
Coffee	0.9	1.17

* Production of Kidneybean and pumkin mixed maize are included

Table C.4.11 (1) FARM BUDGET OF MODEL FARM UNDER WITH PROJECT AND WITHOUT PROJECT CONDITION

Sub-Project Area: San Pedro de Iguaque (Unit: 1,000 Col.$/year)

		Without Project	With Project
I.	Gross Farm Income		
	Potato	285	323
	Maize	20	
	Maize/Bean		20
	Wheat	11	9
	Welsh Onion		153
	Broad Bean		23
	Pea		93
	Beet		95
	Carrot		32
	Sub-Total	316	748
	Livestock and Others	110	110
	Total	426	858
II.	Gross Outgo		
	1) Production Cost /1	210	443
	2) Living Expenses	210	210
	Total	420	653
III.	Net Reserve	6	205
IV.	Net Farm Input	106	305

Remarks) /1: Excluding family labor

Note) See Table C.4.14

Table C.4.11 (2) FARM BUDGET OF MODEL FARM UNDER WITH PROJECT AND WITHOUT PROJECT CONDITION

Sub-Project Area: Santa Sofia (Unit: 1,000 Col.$/year)

		Without Project	With Project
I.	Gross Farm Income		
	potato	44	
	Maize/Kidny Bean	29	20
	Wheat	1	9
	Onion		211
	Garlic		144
	Kidny Bean	20	78
	Pea	15	56
	Sugar Cane	7	
	Cassava	6	
	Sub-Total	122	518
	Livestock and Others	150	150
	Total	272	668
II.	Gross Outgo		
	1) Production Cost/1	65	168
	2) Living Expenses	203	203/2
	Total	268	371
III.	Net Reserve	4	297
IV.	Net Farm Income	57	350

Remarks) /1: Excluding family labor

/2: Average low level of living expenses in Bogata D.E, July 1986, DANE

Note) See Table C.4.14

Table C.4.11 (3) FARM BUDGET OF MODEL FARM UNDER WITH PROJECT WITHOUT PROJECT CONDITION

Sub-Project Area: Caqueza (Unit: 1,000 Col.$/year)

		Without Project	With Project
I.	Gross Farm Income		
	Maize/Kidny Bean/Pumpkin		15
	Maize/Kidny Bean	109	
	Onion	43	218
	Kidny Bean	32	
	Pea	26	42
	Snap Bean	37	180
	Tomato	56	138
	Peruvian Carrot		48
	Total	303	721
II.	Gross Outgo		
	1) Production Cost	93	290
	2) Living Expenses	203	203
	Total	296	433
III.	Net Reserve	7	288
IV.	Net Farm Income	210	491

Note) See Table C.4.14

Table C.4.11 (4) FARM BUDGET OF MODEL FARM UNDER WITH PROJECT AND WITHOUT PROJECT CONDITION

Sub-Project Area: Tibacuy (Unit: 1,000 Col.$/year)

	Without Project	With Project
I. Gross Farm Income		
Potato	11	32
Maize/Kedny Bean	22	
Maize/Pumpkin		25
Onion		105
Kidny Bean	21	54
Pea	18	
Snap Bean	49	135
Tomato	50	69
Cucumber		26
Sugar Cane	7	
Cassava	4	
Coffee	158	222
Total	340	668
II. Gross Outgo		
1) Production Cost	80	201
2) Living Expenses	240	240
Total	320	441
III. Net Reserve	20	227
IV. Net Farm Income	260	467

Note) See Table C.4.14

Table C.4.12 (a) PROFIT AND LOSS STATEMENT OF MODEL FARMER
SUB-PROJECT AREA: SAN PEDRO DE IQUAQUE

(Unit: 1,000 Col.$)

	Without Project	With Project (Year)									
		1	2	3	4	5	6	7	8	9	10
Income											
Farm Income	316	491	670	696	748	748	748	748	748	748	748
Sundry Income	110	110	110	110	110	110	110	110	110	110	110
Sub-total (A)	426	601	780	806	858	858	858	858	858	858	858
Outgo											
Production Cost	210	443	443	443	443	443	443	443	443	443	443
O/M Cost	-	30	30	30	30	30	30	30	30	30	30
Interest	-	75	75	75	75	75	75	75	75	75	75
Living Expenses	210	210	210	210	210	210	210	210	210	210	210
Sub-total (B)	420	758	758	758	758	758	758	758	758	758	758
Net Reserve (A-B)	6	-157	22	48	100	100	100	100	100	100	100
Depreciation Cost	-	-	-	-	-	-	3	3	3	3	3
Profit after depreciation	6	-157	22	48	100	100	97	97	97	97	97
Repayment amount	-	(419)	(419)	(419)	(419)	(419)	(419)	(419)	(419)	(419)	(419)
Balance	6	-157	22	48	100	100	97	97	97	97	97
Profit and Loss (Accumulative)	-	-157	-135	-87	13	113	210	307	404	501	598

Table C.4.12 (b) PROFIT AND LOSS STATEMENT OF MODEL FARMER
SUB-PROJECT AREA: SANTA SOFIA

(Unit: 1,000 Col.$)

	Without Project	With Project (Year)									
		1	2	3	4	5	6	7	8	9	10
Income											
Farm Income	122	362	471	487	518	518	518	518	518	518	518
Sundry Income	150	150	150	150	150	150	150	150	150	150	150
Sub-total (A)	272	512	621	637	668	668	668	668	668	668	668
Outgo											
Production Cost	65	168	168	168	168	168	168	168	168	168	168
O/M Cost	-	19	19	19	19	19	19	19	19	19	19
Interest	-	28	28	28	28	28	28	28	28	28	28
Living Expenses	203	203	203	203	203	203	203	203	203	203	203
Sub-total (B)	268	418	418	418	418	418	418	418	418	418	418
Net Reserve (A-B)	4	94	203	219	250	250	250	250	250	250	250
Depreciation Cost	-	-	-	-	-	-	2	2	2	2	2
Profit after depreciation	4	94	203	219	250	250	248	248	248	248	248
Repayment amount	-	(156)	(156)	(156)	(156)	(156)	(156)	(156)	(156)	(156)	(156)
Balance	4	94	203	219	250	250	248	248	248	248	248
Profit and Loss (Accumulative)	-	94	297	516	766	1,016	1,264	1,512	1,760	2,008	2,256

Table C.4.12 (c) PROFIT AND LOSS STATEMENT OF MODEL FARMER
SUB-PROJECT AREA: CAQUEZA

(Unit: 1,000 Col.$)

	Without Project	With Project (Year)									
		1	2	3	4	5	6	7	8	9	10
Income											
Farm Income	303	614	688	700	721	721	721	721	721	721	721
Sundry Income	-	-	-	-	-	-	-	-	-	-	-
Sub-total (A)	303	614	688	700	721	721	721	721	721	721	721
Outgo											
Production Cost	93	230	230	230	230	230	230	230	230	230	230
O/M Cost	-	10	10	10	10	10	10	10	10	10	10
Interest	-	39	39	39	39	39	39	39	39	39	39
Living Expenses	203	203	203	203	203	203	203	203	203	203	203
Sub-total (B)	296	482	482	482	482	482	482	482	482	482	482
Net Reserve (A-B)	7	132	206	218	239	239	239	239	239	239	239
Depreciation Cost	-	-	-	-	-	-	1	1	1	1	1
Profit after depreciation	-	132	206	218	239	239	238	238	238	238	238
Repayment amount	-	(215)	(215)	(215)	(215)	(215)	(215)	(215)	(215)	(215)	(215)
Balance	7	132	206	1218	239	239	238	238	238	238	238
Profit and Loss (Accumulative)	-	132	338	556	795	1,034	1,272	1,510	1,748	1,986	2,224

Table C.4.12 (d) PROFIT AND LOSS STATEMENT OF MODEL FARMER
SUB-PROJECT AREA: TIBACUY

(Unit: 1,000 Col.$)

	Without Project	With Project (Year)									
		1	2	3	4	5	6	7	8	9	10
Income											
Farm Income	340	458	606	625	668	668	668	668	668	668	668
Sundry Income	-	-	-	-	-	-	-	-	-	-	-
Sub-total (A)	340	458	606	625	668	668	668	668	668	668	668
Outgo											
Production Cost	80	201	201	201	201	201	201	201	201	201	201
O/M Cost	-	14	14	14	14	14	14	14	14	14	14
Interest	-	33	33	33	33	33	33	33	33	33	33
Living Expenses	240	240	240	240	240	240	240	240	240	240	240
Sub-total (B)	320	488	488	488	488	488	488	488	488	488	488
Net Reserve (A-B)	20	-30	118	137	180	180	180	180	180	180	180
Depreciation Cost	-	-	-	-	-	-	2	2	2	2	2
Profit after depreciation	20	-30	118	137	180	180	178	178	178	178	178
Repayment amount	-	(186)	(186)	(186)	(186)	(186)	(186)	(186)	(186)	(186)	(186)
Balance	20	-30	118	137	180	180	178	178	178	178	178
Profit and Loss (Accumulative)	-	-30	88	225	405	585	763	941	1,119	1,297	1,475

Table C.4.13 (a) CASH FLOW OF MODEL FARMER
SUB-PROJECT AREA: SAN PEDRO DE IQUAQUE

(Unit: 1,000 Col.$)

	Without Project	With Project (Year)									
		1	2	3	4	5	6	7	8	9	10
Inicial Fund											
Opening Balance	-	-	-157	-135	-87	13	113	198	298	398	498
Farm Credit (short period)	-	419	419	419	419	419	419	419	419	419	419
Sub-total (A)	-	419	262	284	332	432	532	617	717	817	917
Fund Required											
Production Cost	210	443	443	443	443	443	443	443	443	443	443
O/M Cost	-	30	30	30	30	30	30	30	30	30	30
Replacement Cost	-	-	-	-	-	-	15	-	-	-	-
Living Expenses	210	210	210	210	210	210	210	210	210	210	210
Sub-total (B)	420	683	683	683	683	683	693	683	683	683	683
Income											
(A)-(B)	-420	-264	-421	-399	-351	-251	-166	-66	34	134	234
Farm Income	316	491	670	696	748	748	748	748	748	748	748
Sundry Income (livestock and others)	110	110	110	110	110	110	110	110	110	110	110
Sub-total (C)	6	337	359	407	507	607	692	792	892	992	1,092
Term-end Fund											
Repayment	-	419	419	419	419	419	419	419	419	419	419
Interest	-	75	75	75	75	75	75	75	75	75	75
Sub-total (D)	-	494	494	494	494	494	494	494	494	494	494
(C)-(D)											
Balance Carried Forward	(6)	-157	-135	-87	13	113	198	298	398	498	598

Table C.4.13 (b) CASH FLOW OF MODEL FARMER
SUB-PROJECT AREA: SANTA SOFIA

(Unit: 1,000 Col.$)

	Without Project	With Project (Year)									
		1	2	3	4	5	6	7	8	9	10
Inicial Fund											
Opening Balance	-	-	94	297	516	766	1,016	1,254	1,504	1,754	2,004
Farm Credit (short period)	-	156	156	156	156	156	156	156	156	156	156
Sub-total (A)	-	156	250	453	672	922	1,172	1,410	1,660	1,910	2,160
Fund Required											
Production Cost	65	168	168	168	168	168	168	168	168	168	168
O/M Cost	-	19	19	19	19	19	19	19	19	19	19
Replacement Cost	-	-	-	-	-	-	12	-	-	-	-
Living Expenses	203	203	203	203	203	203	203	203	203	203	203
Sub-total (B)	268	390	390	390	390	390	402	390	390	390	390
Income											
(A)-(B)	-268	-234	-140	63	282	532	770	1,020	1,270	1,520	1,770
Farm Income	122	362	471	487	518	518	518	518	518	518	518
Sundry Income (livestock and others)	150	150	150	150	150	150	150	150	150	150	150
Sub-total (C)	4	278	481	700	950	1,200	1,438	1,688	1,938	2,188	2,438
Term-end Fund											
Repayment	-	156	156	156	156	156	156	156	156	156	156
Interest	-	28	28	28	28	28	28	28	28	28	28
Sub-total (D)	-	184	184	184	184	184	184	184	184	184	184
(C)-(D)											
Balance Carried Forward	(4)	94	297	516	766	1,016	1,254	1,504	1,754	2,004	2,254

Table C.4.13 (c) CASH FLOW OF MODEL FARMER
SUB-PROJECT AREA: CAQUEZA

(Unit: 1,000 Col.$)

	Without Project	With Project (Year)									
		1	2	3	4	5	6	7	8	9	10
Inicial Fund											
Opening Balance	-	-	132	338	556	795	1,034	1,266	1,505	1,744	1,983
Farm Credit (short period)	-	215	215	215	215	215	215	215	215	215	215
Sub-total (A)	-	215	347	553	771	1,010	1,249	1,481	1,720	1,959	2,198
Fund Required											
Production Cost	93	230	230	230	230	230	230	230	230	230	230
O/M Cost	-	10	10	10	10	10	10	10	10	10	10
Replacement Cost	-	-	-	-	-	-	7	-	-	-	-
Living Expenses	203	203	203	203	203	203	203	203	203	203	203
Sub-total (B)	296	443	443	443	443	443	450	443	443	443	443
Income											
(A)-(B)	-296	-228	-96	110	328	567	799	1,038	1,277	1,516	1,755
Farm Income	303	688	700	721	721	721	721	721	721	721	721
Sundry Income (livestock and others)	-	-	-	-	-	-	-	-	-	-	-
Sub-total (C)	7	386	592	810	1,049	1,288	1,520	1,759	1,998	2,237	2,476
Term-end Fund											
Repayment	-	215	215	215	215	215	215	215	215	215	215
Interest	-	39	39	39	39	39	39	39	39	39	39
Sub-total (D)	-	254	254	254	254	254	254	254	254	254	254
(C)-(D)											
Balance Carried Forward	(7)	132	338	556	795	1,034	1,266	1,505	1,744	1,983	2,222

Table C.4.13 (d) CASH FLOW OF MODEL FARMER
SUB-PROJECT AREA: TIBACUY

(Unit: 1,000 Col.$)

	Without Project	With Project (Year)									
		1	2	3	4	5	6	7	8	9	10
Inicial Fund											
Opening Balance	-	-	-30	88	225	405	585	741	921	1,101	1,281
Farm Credit (short period)	-	186	186	186	186	186	186	186	186	186	186
Sub-total (A)	-	186	156	274	411	591	771	927	1,107	1,287	1,467
Fund Required											
Production Cost	80	201	201	201	201	201	201	201	201	201	201
O/M Cost	-	14	14	14	14	14	14	14	14	14	14
Replacement Cost	-	-	-	-	-	-	24	-	-	-	-
Living Expenses	240	240	240	240	240	240	240	240	240	240	240
Sub-total (B)	320	455	455	455	455	455	479	455	455	455	455
Income											
(A)-(B)	-320	-269	-299	-181	-44	136	292	472	652	832	1,012
Farm Income	340	458	606	625	668	668	668	668	668	668	668
Sundry Income (livestock and others)	-	-	-	-	-	-	-	-	-	-	-
Sub-total (C)	20	189	307	444	624	804	960	1,140	1,320	1,500	1,680
Term-end Fund											
Repayment	-	186	186	186	186	186	186	186	186	186	186
Interest	-	33	33	33	33	33	33	33	33	33	33
Sub-total (D)	-	219	219	219	219	219	219	219	219	219	219
(C)-(D)											
Balance Carried Forward	(20)	-30	88	225	405	585	741	921	1,101	1,281	1,461

Table C.4.14 (1) GROSS AND NET PRODUCTION VALUE OF FARM PRODUCTS IN MODEL FARM

A) San Pedro de Iguaque (2.0 ha) (Unit: 1,000 Col.$)

	Without Project	With Project	Incremental
I. Gross Production Value			
Potato	285	323	
Maize	20	-	
Wheat	11	9	
Maize/Beans /1	-	12	
Welsh Onion	-	161	
Beans /2	-	116	
Beet	-	95	
Carrot	-	32	
Total	316	748	432
II. Gross Production Cost			
Potato	196	247	
Maize	10	-	
Wheat	4	3	
Maize/Beans /1	-	13	
Welsh Onion	-	85	
Beans /2	-	64	
Beet	-	20	
Carrot	-	11	
Total	210	443	233
III. Net Production Value	106	305	199

Remarks) /1: Broad Bean is proposed.
/2: Adopted to Kidny Bean, Pea, Snap Bean and Broad Bean

Note) See Table C.4.16 and C.4.17

Table C.4.14 (2) GROSS AND NET PRODUCTION VALUE OF FARM PRODUCTS IN MODEL FARM

B) Santa Sofia (0.8 ha) (Unit: 1,000 Col.$)

	Without Project	With Project	Incremental
I. Gross Production Value			
Potato	44	-	
Maize/Beans /1	29	20	
Wheat	1	9	
Onion	-	211	
Garlic	-	144	
Beans /2	35	134	
Others /3	13	-	
Total	122	518	396
II. Gross Production Cost			
Potato	29	-	
Maize/Beans /1	13	8	
Wheat	1	3	
Onion	-	60	
Garlic	-	45	
Beans /2	17	52	
Others /3	5	-	
Total	65	168	103
III. Net Production Value	57	350	293

Remarks) /1: Kidny Bean is proposed.
/2: Adopted to Kidny Bean, Pea, etc.
/3: Included with Cassava, Sugar Cane, etc.

Note) See Table C.4.16 and C.4.17

Table C.4.14 (3) GROSS AND NET PRODUCTION VALUE OF FARM PRODUCTS IN MODEL FARM

C) Caqueza (1.1 ha) (Unit: 1,000 Col.$)

	Without Project	With Project	Incremental
I. Gross Production Value			
Maize/beans/Pumpkin /1	-	95	
Maize/Beans /1	109	-	
Onion	43	218	
Beans	95 /3	222 /2	
Tomato	56	138	
Peruvian Carrot	-	48	
Total	303	721	418
II. Gross Production Cost			
Maize/Beans/Pumpkin /1	-	21	
Maize/Beans /1	33	-	
Onion	11	66	
Beans	33 /3	84 /2	
Tomato	16	48	
Peruvian Carrot	-	11	
Total	93	230	137
III. Net Production Value	210	491	281

Remarks) /1: Kidny Bean is proposed.
/2: Adopted to Pea, Snap Bean, etc.
/3: Adopted to Pea, Snap Bean, Kidny Bean, etc.

Note) See Table C.4.16 and C.4.17

Table C.4.14 (4) GROSS AND NET PRODUCTION VALUE OF FARM PRODUCTS IN MODEL FARM

D) Tibacuy (0.5 ha + Coffee) (Unit: 1,000 Col.$)

	Without Project	With Project	Incremental
I. Gross Production Value			
Potato	11	32	
Maize/Beans /2	22	-	
Maize/Pumpkin	-	25	
Beans	88 /3	189 /1	
Onion	-	105	
Tomato	50	69	
Cucumber	-	26	
Others /4	11	-	
Coffee	158	222	
Total	340	668	328
II. Gross Production Cost			
Potato	7	25	
Maize/Beans /2	8	-	
Maize/Pumpkin	-	6	
Beans	27 /3	54 /1	
Onion	-	30	
Tomato	16	22	
Cucumber		14	
Others /4	4	-	
Coffee	18	50	
Total	80	201	121
III. Net Production Value	260	467	207

Remarks) /1: Adopted to Kidny Bean, Snap Bean, etc.
/2: Kidny Bean is proposed.
/3: Adopted to Kidny Bean, Pea, Snap Bean
/4: Included with Cassava, Sugar Cane, etc.

Note) See Table C.4.16 and C.4.17

Table C.4.15 INPUT AMOUNT OF FARM INPUTS IN MODEL FARM

(Unit: ton)

	Fertilizer	Organic Matter	Soil Conditioning Material
Iguaque			
Without	1.2	1.4	0.7
With	2.0	3.9	1.3
Santa Sofia			
Without	0.3	0.2	0.1
With	0.6	2.2	0.6
Caqueza			
Without	0.2	0.1	0.1
With	0.8	2.0	0.6
Tibacuy			
Without	0.5	0.1	0.1
With	1.4	1.2	0.4

Table C.4.16(1/20) FINANCIAL NET RETURN PER HECTARE FOR POTATO UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: San Pedro de Iguague

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	17	12000	204
II. Farm Input				
1. Seed	kg/ha	17	1200	20
2. Calfos	kg/ha	10	500	5
3. Organic Matters	kg/ha	20	2000	40
4. Fertilizer	kg/ha	50	900	45
5. Insecticide	times		2	8
6. Fungicide	times		2	2
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	96	13
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		15	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		8	0
g. Appli. of Agro-Chemical	Man-Day		9	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		30	0
m. Selection/Packing	Man-Day		6	0
n. Transplanting	Man-Day		6	0
Sub-Total			119	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				7
Total				140
III. Net Income				64

Table C.4.16(2/20) FINANCIAL NET RETURN PER HECTARE FOR MAIZE UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: San Pedro de Iqueque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	26	1300	34
II. Farm Input				
1. Seed	kg/ha	150	30	5
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	200	10
5. Insecticide	times		1	1
6. Fungicide	times			0
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	10	1
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preperation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		4	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		5	0
g. Appli. of Agro-Chemical	Man-Day		3	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		30	0
k. Waterr Management	Man-Day		0	0
l. Harvesting	Man-Day		10	0
m. Selection/Packing	Man-Day		0	0
n. Transplanting	Man-Day		2	0
Sub-Total			54	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				1
Total				18
III. Net Income				16

Table C.4.16(3/20) FINANCIAL NET RETURN PER HECTARE FOR WHEAT UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: San Pedro de Iqueque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	43	1300	56
II. Farm Input				
1. Seed	kg/ha	70	130	9
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	130	7
5. Insecticide	times			0
6. Fungicide	times		1	2
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	10	1
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		4	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		3	0
g. Appli. of Agro-Chemical	Man-Day		3	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		10	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		15	0
m. Selection/Packing	Man-Day		8	0
n. Transplanting	Man-Day		2	0
Sub-Total			45	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				1
Total				20
III. Net Income				36

Table C.4.16(4/20) FINANCIAL NET RETURN PER HECTARE FOR MAIZE/KIDNY BEAN UNDER WITHOUT PROJECT CONDITION

Sub Project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product -Maize	kg/ha	26	1100	29
- kidny Bean		192	600	115
II. Farm Input				
1. Seed - Maize	kg/ha	150	30	5
- kidny Bean		330	80	26
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	400	20
5. Insecticide	times		2	4
6. Fungicide	times		3	5
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	14	2
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		12	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		5	0
g. Appli. of Agro-Chemical	Man-Day		3	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		30	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		26	0
m. Selection/Packing	Man-Day		0	0
n. Transplanting	Man-Day		4	0
Sub-Total			80	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				3
Total				65
III. Net Income				79

Table C.4.16(5/20) FINANCIAL NET RETURN PER HECTARE FOR WHEAT UNDER WITHOUT PROJECT CONDITION

Sub Project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	43	1400	60
II. Farm Input				
1. Seed	kg/ha	70	130	9
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	130	7
5. Insecticide	times			0
6. Fungicide	times		1	2
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	11	2
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		4	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		3	0
g. Appli. of Agro-Chemical	Man-Day		3	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		10	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		15	0
m. Selection/Packing	Man-Day		8	0
n. Transplanting	Man-Day		2	0
Sub-Total			45	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				1
Total				21
III. Net Income				39

Table C.4.16(6/20) FINANCIAL NET RETURN PER HECTARE FOR POTATO UNDER WITHOUT PROJECT CONDITION

Sub Project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	17	13000	221
II. Farm input				
1. Seed	kg/ha	17	1200	20
2. Calfos	kg/ha	10	500	5
3. Organic Matters	kg/ha	20	2000	40
4. Fertilizer	kg/ha	50	900	45
5. Insecticide	times		2	9
6. Fungicide	times		2	2
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	104	15
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		15	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		8	0
g. Appli. of Agro-Chemical	Man-Day		9	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		30	0
m. Selection/Packing	Man-Day		6	0
n. Transplanting	Man-Day		6	0
Sub-Total			119	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				7
Total				143
III. Net Income				78

Table C.4.16(7/20) FINANCIAL NET RETURN PER HECTARE FOR KIDNY BEAN UNDER WITHOUT PROJECT CONDITION

Sub Project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	192	700	134
II. Farm Input				
1. Seed	kg/ha	330	80	26
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	200	10
5. Insecticide	times		1	2
6. Fungicide	times		2	3
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	6	1
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		8	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		4	0
g. Appli. of Agro-Chemical	Man-Day		6	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		30	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		8	0
m. Selection/Packing	Man-Day		8	0
n. Transplanting	Man-Day		2	0
Sub-Total			66	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				2
Total				44
III. Net Income				90

Table C.4.16(8/20) FINANCIAL NET RETURN PER HECTARE FOR PEA UNDER WITHOUT PROJECT CONDITION

Sub Project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	56	2200	123
II. Farm Input				
1. Seed	kg/ha	550	70	39
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	250	13
5. Insecticide	times		1	2
6. Fungicide	times		2	3
7. Agro-Material	/ha	1	20000	20
8. Packing Materials	/ha	140	18	3
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		8	0
e. Agro-Materials	Man-Day		20	0
f. Appli. of Fertilizer	Man-Day		4	0
g. Appli. of Agro-Chemical	Man-Day		6	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		30	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		15	0
m. Selection/Packing	Man-Day		12	0
n. Transplanting	Man-Day		10	0
Sub-Total			105	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				4
Total				84
III. Net Income				39

Table C.4.16(9/20) FINANCIAL NET RETURN PER HECTARE FOR MAIZE/BEAN KIDNY UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: Caqueza

		Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income					
Agro-Product	- Maize	kg/ha	26	1800	47
	- Kidny Bean		192	900	173
II. Farm Input					
1. Seed	- Maize	kg/ha	150	30	5
	- Kidny Bean		330	80	26
2. Calfos		kg/ha	0	0	0
3. Organic Matters		kg/ha	0	0	0
4. Fertilizer		kg/ha	50	400	20
5. Insecticide		times		2	4
6. Fungicide		times		3	5
7. Agro-Material		/ha	0	0	0
8. Packing Materials		/ha	140	22	3
9. Labour Force					
a. Plowing		Man-Day		0	0
b. Harrowing		Man-Day		0	0
c. Nursery Preparation		Man-Day		0	0
d. Sowing/Transplanting		Man-Day		12	0
e. Agro-Materials		Man-Day		0	0
f. Appli. of Fertilizer		Man-Day		5	0
g. Appli. of Agro-Chemical		Man-Day		3	0
h. Appli. of Herbicide		Man-Day		0	0
i. Appli. of Calfos		Man-Day		0	0
j. Weeding		Man-Day		30	0
k. Water Management		Man-Day		0	0
l. Harvesting		Man-Day		26	0
m. Selection/Packing		Man-Day		0	0
n. Transplanting		Man-Day		4	0
Sub-Total				80	0
10. Animal Power		Animal Day		7	0
11. Miscellaneous					3
Total					66
III. Net Income					154

Table C.4.16(10/20) FINANCIAL NET RETURN PER HECTARE FOR ONION UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: Cequeza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	31	14000	434
II. Farm Input				
1. Seed	kg/ha	7710	2.5	19
2. Calfos	kg/ha	10	500	5
3. Organic Matters	kg/ha	20	2000	40
4. Fertilizer	kg/ha	50	350	18
5. Insecticide	times		1	2
6. Fungicide	times		4	5
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	112	16
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		8	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		4	0
g. Appli. of Agro-Chemical	Man-Day		6	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		30	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		8	0
m. Selection/Packing	Man-Day		8	0
n. Transplanting	Man-Day		2	0
Sub-Total			66	0
10. Animal Power	Animal Day		7	0
11. Miscelleneous				5
Total				110
III. Net Income				324

Table C.4.16(11/20) FINANCIAL NET RETURN PER HECTARE FOR KIDNY BEAN UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: Cequeza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	192	1100	211
II. Farm Input				
1. Seed	kg/ha	330	80	26
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	200	10
5. Insecticide	times		1	2
6. Fungicide	times		2	3
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	9	1
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		8	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		4	0
g. Appli. of Agro-Chemical	Man-Day		6	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		30	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		8	0
m. Selection/Packing	Man-Day		8	0
n. Transplanting	Man-Day		2	0
Sub-Total			66	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				2
Total				44
III. Net Income				167

Table C.4.16(12/20) FINANCIAL NET RETURN PER HECTARE FOR PEA UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: Caqueza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	56	3000	168
II. Farm Input				
1. Seed	kg/ha	550	70	39
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	250	13
5. Insecticide	times		2	2
6. Fungicide	times		2	4
7. Agro-Material	/ha	1	20000	20
8. Packing Materials	/ha	140	24	3
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		8	0
e. Agro-Materials	Man-Day		20	0
f. Appli. of Fertilizer	Man-Day		4	0
g. Appli. of Agro-Chemical	Man-Day		6	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		30	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		15	0
m. Selection/Packing	Man-Day		12	0
n. Transplanting	Man-Day		10	0
Sub-Total			105	0
10. Animal Power	Animal Day		7	0
11. Miscelleneous				4
Total				85
III. Net Income				83

Table C.4.16(13/20) FINANCIAL NET RETURN PER HECTARE FOR SNAP BEAN UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: Caqueza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	41	9000	369
II. Farm Input				
1. Seed	kg/ha	1280	35	45
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	250	13
5. Insecticide	times		3	9
6. Fungicide	times		3	6
7. Agro-Material	/ha	1	42000	42
8. Packing Materials	/ha	140	64	9
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		10	0
e. Agro-Materials	Man-Day		20	0
f. Appli. of Fertilizer	Man-Day		4	0
g. Appli. of Agro-Chemical	Man-Day		6	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		30	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		50	0
m. Selection/Packing	Man-Day		0	0
n. Transplanting	Man-Day		10	0
Sub-Total			130	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				6
Total				130
III. Net Income				239

Table C.4.16(14/20) FINANCIAL NET RETURN PER HECTARE FOR TOMATO UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: Cequeza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	33	17000	561
II. Farm Input				
1. Seed	kg/ha	12110	0.3	4
2. Calfos	kg/ha	10	0	0
3. Organic Matters	kg/ha	20	2000	40
4. Fertilizer	kg/ha	50	350	18
5. Insecticide	times		3	5
6. Fungicide	times		12	21
7. Agro-Material	/ha	1	25000	25
8. Packing Materials	/ha	35	1133	40
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		12	0
c. Nursery Preparation	Man-Day		10	0
d. Sowing/Transplanting	Man-Day		32	0
e. Agro-Materials	Man-Day		35	0
f. Appli. of Fertilizer	Man-Day		5	0
g. Appli. of Agro-Chemical	Man-Day		18	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		30	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		55	0
m. Selection/Packing	Man-Day		10	0
n. Transplanting	Man-Day		7	0
Sub-Total			214	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				8
Total				161
III. Net Income				400

Table C.4.16(15/20) ECONOMIC NET RETURN PER HECTARE FOR POTATO UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: Tibacuy

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	17	13000	221
II. Farm Input				
1. Seed	kg/ha	17	1200	20
2. Calfos	kg/ha	10	500	5
3. Organic Matters	kg/ha	20	2000	40
4. Fertilizer	kg/ha	50	900	45
5. Insecticide	times		2	9
6. Fungicide	times		2	2
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	104	15
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		15	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		8	0
g. Appli. of Agro-Chemical	Man-Day		9	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		30	0
m. Selection/Packing	Man-Day		6	0
n. Transplanting	Man-Day		6	0
Sub-Total			119	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				7
Total				143
III. Net Income				78

Table C.4.16(16/20) FINANCAIL NET RETURN PER HECTARE FOR MAIZE/KIDNY BEAN UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: Tibacuy

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product - Maize	kg/ha	26	1100	29
- Kidny Bean		192	800	154
II. Farm Input				
1. Seed - Maize	kg/ha	150	30	5
- Kidny Bean		330	80	26
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	400	20
5. Insecticide	times		2	4
6. Fungicide	times		3	5
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	15	2
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		12	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		5	0
g. Appli. of Agro-Chemical	Man-Day		3	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		30	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		26	0
m. Selection/Packing	Man-Day		0	0
n. Transplanting	Man-Day		4	0
Sub-Total			80	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				3
Total				65
III. Net Income				118

Table C.4.16(17/20) FINANCIAL NET RETURN PER HECTARE FOR PEA UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: Tibacuy

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	56	2600	146
II. Farm Input				
1. Seed	kg/ha	550	70	39
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	250	13
5. Insecticide	times		1	2
6. Fungicide	times		2	4
7. Agro-Material	/ha	1	20000	20
8. Packing Materials	/ha	140	21	3
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preperation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		8	0
e. Agro-Materials	Man-Day		20	0
f. Appli. of Fertilizer	Man-Day		4	0
g. Appli. of Agro-Chemical	Man-Day		6	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		30	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		15	0
m. Selection/Packing	Man-Day		12	0
n. Transplanting	Man-Day		10	0
Sub-Total			105	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				4
Total				85
III. Net Income				61

Table C.4.16(18/20) ECONOMIC NET RETURN PER HECTARE FOR KIDNY BEAN UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: Tibacuy

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	192	1000	192
II. Farm Input				
1. Seed	kg/ha	330	80	26
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	200	10
5. Insecticide	times		1	2
6. Fungicide	times		2	2
7. Agro-Material	/ha		0	0
8. Packing Materials	/ha	140	8	1
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		8	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		4	0
g. Appli. of Agro-Chemical	Man-Day		6	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		30	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		8	0
m. Selection/Packing	Man-Day		8	0
n. Transplanting	Man-Day		2	0
Sub-Total			66	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				2
Total				43
III. Net Income				149

Table C.4.16(19/20) FINANCIAL NET RETURN PER HECTARE FOR SNAP BEAN UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: Tibacuy

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	41	8000	328
II. Farm Input				
1. Seed	kg/ha	10	35	0
2 .Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	250	13
5. Insecticide	times		3	10
6. Fungicide	times		3	4
7. Agro-Material	/ha	1	42000	42
8. Packing Materials	/ha	140	64	9
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preperation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		10	0
e. Agro-Materials	Man-Day		20	0
f. Appli. of Fertilizer	Man-Day		4	0
g. Appli. of Agro-Chemical	Man-Day		6	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		30	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		50	0
m. Selection/Packing	Man-Day		0	0
n. Transplanting	Man-Day		10	0
Sub-Total			130	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				4
Total				82
III. Net Income				246

Table C.4.16(20/20) FINANCIAL NET RETURN PER HECTARE FOR TOMATO UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: Tibacuy

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	33	15000	495
II. Farm Input				
1. Seed	kg/ha	12110	0.3	4
2. Calfos	kg/ha	10	0	0
3. Organic Matters	kg/ha	20	2000	40
4. Fertilizer	kg/ha	50	350	18
5. Insecticide	times		3	6
6. Fungicide	times		12	22
7. Agro-Material	/ha	1	25000	25
8. Packing Materials	/ha	35	1000	35
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		12	0
c. Nursery Preparation	Man-Day		10	0
d. Sowing/Transplanting	Man-Day		32	0
e. Agro-Materials	Man-Day		35	0
f. Appli. of Fertilizer	Man-Day		5	0
g. Appli. of Agro-Chemical	Man-Day		18	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		30	0
k. Water Management	Man-Day		0	0
l. Harvesting	Man-Day		55	0
m. Selection/Packing	Man-Day		10	0
n. Transplanting	Man-Day		7	0
Sub-Total			214	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				8
Total				158
III. Net Income				337

Table C.4.17(1/26) FINANCIAL NET RETURN PER HECTARE FOR POTATO UNDER WITH PROJECT CONDITION

Sub-Project Area: San Pedro de Iguaque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	17	19000	323
II. Farm Input				
1. Seed	kg/ha	17	1000	17
2. Calfos	kg/ha	10	1000	10
3. Organic Matters	kg/ha	20	5000	100
4. Fertilizer	kg/ha	50	1300	65
5. Insecticide	times		3	18
6. Fungicide	times		4	4
7. Agro-Material	/ha			
8. Packing Materials	/ha	140	152	21
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		15	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		14	0
g. Appli. of Agro-Chemical	Man-Day		12	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		4	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		25	0
l. Harvesting	Man-Day		38	0
m. Selection/Packing	Man-Day		8	0
n. Transplanting	Man-Day		8	0
Sub-Total			169	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				12
Total				247
III. Net Income				76

Table C.4.17(2/26) FINANCIAL NET RETURN PER HECTARE FOR MAIZE/BROAD BEAN UNDER WITH PROJECT CONDITION

Sub-Project Area: San Pedro de Iguaque

		Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income					
Agro-Product	-Maize	kg/ha	26	1800	47
	-Broad Bean	kg/ha	20	1700	34
II. Farm Input					
1. Seed	-Maize	kg/ha	150	25	4
	-Broad Bean	kg/ha	20	35	1
2. Calfos		kg/ha			
3. Organic Matters		kg/ha			
4. Fertilizer		kg/ha	50	500	25
5. Insecticide		times		5	14
6. Fungicide		times		1	1
7. Agro-Material		/ha			
8. Packing Materials		/ha	140	29	4
9. Labour Force					
a. Plowing		Man-Day		0	0
b. Harrowing		Man-Day		0	0
c. Nursery Preparation		Man-Day		0	0
d. Sowing/Transplanting		Man-Day		12	0
e. Agro-Materials		Man-Day		0	0
f. Appli. of Fertilizer		Man-Day		6	0
g. Appli. of Agro-Chemical		Man-Day		9	0
h. Appli. of Herbicide		Man-Day		0	0
i. Appli. of Calfos		Man-Day		0	0
j. Weeding		Man-Day		45	0
k. Waterr Management		Man-Day		6	0
l. Harvesting		Man-Day		20	0
m. Selection/Packing		Man-Day		15	0
n. Transplanting		Man-Day		6	0
Sub-Total				119	0
10. Animal Power		Animal Day		7	0
11. Miscellaneous					2
Total					51
III. Net Income					30

Table C.4.17(3/26) FINANCIAL NET RETURN PER HECTARE FOR WELSH ONION UNDER WITH PROJECT CONDITION

Sub-Project Area: San Pedro de Igueque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	17	30000	510
II. Farm Input				
1. Seed	kg/ha	17	3800	65
2. Calfos	kg/ha	11	1000	11
3. Organic Matters	kg/ha	20	5000	100
4. Fertilizer	kg/ha	50	450	23
5. Insecticide	times		9	23
6. Fungicide	times		12	14
7. Agro-Material	/ha			
8. Packing Materials	/ha	140	240	34
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		30	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		60	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		15	0
g. Appli. of Agro-Chemical	Man-Day		18	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		4	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		50	0
l. Harvesting	Man-Day		40	0
m. Selection/Packing	Man-Day		20	0
n. Transplanting	Man-Day		6	0
Sub-Total			288	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				14
Total				284
III. Net Income				226

Table C.4.17(4/26) FINANCIAL NET RETURN PER HECTARE FOR BROAD BEAN UNDER WITH PROJECT CONDITION

Sub-Project Area: San Pedro de Iguaque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	20	2100	42
II. Farm Input				
1. Seed	kg/ha	20	35	1
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	250	13
5. Insecticide	times		3	9
6. Fungicide	times			0
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	17	2
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		8	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		5	0
g. Appli. of Agro-Chemical	Man-Day		9	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		25	0
l. Harvesting	Man-Day		12	0
m. Selection/Packing	Man-Day		10	0
n. Transplanting	Man-Day		3	0
Sub-Total			117	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				1
Total				26
III. Net Income				16

Table C.4.17(5/26) FINANCIAL NET RETURN PER HECTARE FOR PEA UNDER WITH PROJECT CONDITION

Sub-Project Area: San Pedro de Iquaque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	56	3300	185
II. Farm Input				
1. Seed	kg/ha	550	60	33
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	300	15
5. Insecticide	times		5	15
6. Fungicide	times		4	8
7. Agro-Material	/ha	1	20000	20
8. Packing Materials	/ha	140	27	4
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		8	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		5	0
g. Appli. of Agro-Chemical	Man-Day		9	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		20	0
l. Harvesting	Man-Day		20	0
m. Selection/Packing	Man-Day		16	0
n. Transplanting	Man-Day		13	0
Sub-Total			136	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				5
Total				100
III. Net Income				85

Table C.4.17(6/26) FINANCIAL NET RETURN PER HECTARE FOR BEET UNDER WITH PROJECT CONDITION

Sub-Project Area: San Pedro de Iguaque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	21	15000	315
II. Farm Input				
1. Seed	kg/ha	2400	5	12
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	400	20
5. Insecticide	times		6	12
6. Fungicide	times		4	4
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	120	17
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		12	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		20	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		8	0
g. Appli. of Agro-Chemical	Man-Day		12	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		17	0
l. Harvesting	Man-Day		30	0
m. Selection/Packing	Man-Day		20	0
n. Transplanting	Man-Day		6	0
Sub-Total			170	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				3
Total				68
III. Net Income				247

Table C.4.17(7/26) FINANCIAL NET RETURN PER HECTARE FOR CARROT UNDER WITH PROJECT CONDITION

Sub-Project Area: San Pedro de Iguaque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	14	15000	210
II. Farm Input				
1. Seed	kg/ha	3700	5	19
2 .Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	400	20
5. Insecticide	times		6	12
6. Fungicide	times	3	6	3
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	120	17
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		12	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		20	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		8	0
g. Appli. of Agro-Chemical	Man-Day		9	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		22	0
l. Harvesting	Man-Day		40	0
m. Selection/Packing	Man-Day		10	0
n. Transplanting	Man-Day		6	0
Sub-Total			172	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				4
Total				75
III. Net Income				135

Table C.4.17(8/26) FINANCIAL NET RETURN PER HECTARE FOR MAIZE/KIDNY BEAN UNDER WITH PROJECT CONDITION

Sub-Project Area: Santa Sofia

		Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income					
Agro-Product	- Maize	kg/ha	26	1800	47
	- Kidny Bean	kg/ha	192	800	154
II. Farm Input					
1. Seed	- Maize	kg/ha	150	25	4
	- Kidny Bean	kg/ha	330	70	23
2. Calfos		kg/ha	0	0	0
3. Organic Matters		kg/ha	0	0	0
4. Fertilizer		kg/ha	50	500	25
5. Insecticide		times		5	14
6. Fungicide		times		4	6
7. Agro-Material		/ha	0	0	0
8. Packing Materials		/ha	140	21	3
9. Labour Force					
a. Plowing		Man-Day		0	0
b. Harrowing		Man-Day		0	0
c. Nursery Preparation		Man-Day		0	0
d. Sowing/Transplanting		Man-Day		12	0
e. Agro-Materials		Man-Day		0	0
f. Appli. of Fertilizer		Man-Day		6	0
g. Appli. of Agro-Chemical		Man-Day		9	0
h. Appli. of Herbicide		Man-Day		0	0
i. Appli. of Calfos		Man-Day		0	0
j. Weeding		Man-Day		45	0
k. Water Management		Man-Day		6	0
l. Harvesting		Man-Day		18	0
m. Selection/Packing		Man-Day		15	0
n. Transplanting		Man-Day		6	0
Sub-Total				117	0
10. Animal Power		Animal Day		7	0
11. Miscellaneous					4
Total					79
III. Net Income					122

Table C.4.17(9/26) FINANCIAL NET RETURN PER HECTARE FOR WHEAT UNDER WITH PROJECT CONDITION

Sub-Project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	43	2100	90
II. Farm Input				
1. Seed	kg/ha	70	120	8
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	200	10
5. Insecticide	times		1	1
6. Fungicide	times		2	4
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	17	2
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		4	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		4	0
g. Appli. of Agro-Chemical	Man-Day		6	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		20	0
k. Water Management	Man-Day		6	0
l. Harvesting	Man-Day		20	0
m. Selection/Packing	Man-Day		10	0
n. Transplanting	Man-Day		3	0
Sub-Total			73	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				1
Total				26
III. Net Income				64

Table C.4.17(10/26) FINANCIAL NET RETURN PER HECTARE FOR ONION UNDER WITH PROJECT CONDITION

Sub-Project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	31	17000	527
II. Farm Input				
1. Seed	kg/ha	7710	2.5	19
2. Calfos	kg/ha	10	1000	10
3. Organic Matters	kg/ha	20	3000	60
4. Fertilizer	kg/ha	50	500	25
5. Insecticide	times		4	3
6. Fungicide	times		5	8
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	136	19
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		12	0
c. Nursery Preparation	Man-Day		10	0
d. Sowing/Transplanting	Man-Day		32	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		8	0
g. Appli. of Agro-Chemical	Man-Day		12	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		4	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		22	0
l. Harvesting	Man-Day		33	0
m. Selection/Packing	Man-Day		13	0
n. Transplanting	Man-Day		10	0
Sub-Total			201	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				7
Total				151
III. Net Income				376

Teble C.4.17(11/26) FINANCIAL NET RETURN PER HECTARE FOR GARLIC UNDER WITH PROJECT CONDITION

Sub-Project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	103	7000	721
II. Farm Input				
1. Seed	kg/ha	103	900	93
2. Calfos	kg/ha	10	1000	10
3. Organic Matters	kg/ha	20	3000	60
4. Fertilizer	kg/ha	50	500	25
5. Insecticide	times		4	10
6. Fungicide	times		5	8
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	56	8
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		12	0
c. Nursery Preparation	Man-Day		10	0
d. Sowing/Transplanting	Man-Day		32	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		8	0
g. Appli. of Agro-Chemical	Man-Day		12	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		4	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		22	0
l. Harvesting	Man-Day		33	0
m. Selection/Packing	Man-Day		13	0
n. Transplanting	Man-Day		10	0
Sub-Total			201	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				11
Total				225
III. Net Income				496

Table C. 4. 17(12/26) FINANCIAL NET RETURN PER HECTARE FOR KIDNY BEAN UNDER WITH PROJECT CONDITION

Sub-Project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	192	1000	192
II. Farm Input				
1. Seed	kg/ha	330	70	23
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	250	13
5. Insecticide	times		3	9
6. Fungicide	times		3	5
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	8	1
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		8	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		5	0
g. Appli. of Agro-Chemical	Man-Day		9	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		20	0
l. Harvesting	Man-Day		10	0
m. Selection/Packing	Man-Day		10	0
n. Transplanting	Man-Day		3	0
Sub-Total			110	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				3
Total				54
III. Net Income				138

Table C.4.17(13/26) FINANCIAL NET RETURN PER HECTARE FOR PEA UNDER WITH PROJECT CONDITION

Sub-Project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	56	3300	185
II. Farm Input				
1. Seed	kg/ha	550	60	33
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	300	15
5. Insecticide	times		5	15
6. Fungicide	times		4	8
7. Agro-Material	/ha	1	20000	20
8. Packing Materials	/ha	140	26	4
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		8	0
e. Agro-Materials	Man-Day		20	0
f. Appli. of Fertilizer	Man-Day		5	0
g. Appli. of Agro-Chemical	Man-Day		9	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		20	0
l. Harvesting	Man-Day		20	0
m. Selection/Packing	Man-Day		16	0
n. Transplanting	Man-Day		13	0
Sub-Total			156	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				5
Total				100
III. Net Income				85

Table C.4.17(14/26) FINANCIAL NET RETURN PER HECTARE FOR MAIZE/ BEAN/PUMPKIN UNDER WITH PROJECT CONDITION

Sub-Project Area: Caqueza

		Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income					
Agro-Product	-Maize	kg/ha	26	2100	55
	-Kidny Bean		192	1000	192
	-Pumpkin		18	10400	187
II. Farm Input					
1. Seed	-Maize	kg/ha	150	25	4
	-Kidny Bean		330	1.5	0
	-Pumpkin		18	70	1
2. Calfos		kg/ha			0
3. Organic Matters		kg/ha			0
4. Fertilizer		kg/ha	50	900	45
5. Insecticide		times		8	18
6. Fungicide		times		5	8
7. Agro-Material		/ha			0
8. Packing Materials		/ha	140	108	15
9. Labour Force					
a. Plowing		Man-Day		0	0
b. Harrowing		Man-Day		0	0
c. Nursery Preparation		Man-Day		0	0
d. Sowing/Transplanting		Man-Day		22	0
e. Agro-Materials		Man-Day		0	0
f. Appli. of Fertilizer		Man-Day		6	0
g. Appli. of Agro-Chemical		Man-Day		9	0
h. Appli. of Herbicide		Man-Day		0	0
i. Appli. of Calfos		Man-Day		0	0
j. Weeding		Man-Day		45	0
k. Water Management		Man-Day		25	0
l. Harvesting		Man-Day		54	0
m. Selection/Packing		Man-Day		0	0
n. Transplanting		Man-Day		13	0
Sub-Total				174	0
10. Animal Power		Animal Day		7	0
11. Miscellaneous					5
Total					96
III. Net Income					338

Table C.4.17(15/26) FINANCIAL NET RETURN PER HECTARE FOR ONION UNDER WITH PROJECT CONDITION

Sub-Project Area: Coqueza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	31	16000	496
II. Farm Input				
1. Seed	kg/ha	7710	2.5	19
2. Calfos	kg/ha	10	1000	10
3. Organic Matters	kg/ha	20	3000	60
4. Fertilizer	kg/ha	50	500	25
5. Insecticide	times		4	3
6. Fungicide	times		5	8
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	128	18
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		12	0
c. Nursery Preparation	Man-Day		10	0
d. Sowing/Transplanting	Man-Day		32	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		8	0
g. Appli. of Agro-Chemical	Man-Day		12	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		4	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		22	0
l. Harvesting	Man-Day		33	0
m. Selection/Packing	Man-Day		13	0
n. Transplanting	Man-Day		10	0
Sub-Total			201	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				7
Total				150
III. Net Income				346

Table C.4.17(16/26) FINANCIAL NET RETURN PER HECTARE FOR PEA UNDER WITH PROJECT CONDITION

Sub-Project Area: Caqueza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	56	3400	190
II. Farm Input				
1. Seed	kg/ha	550	60	33
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	300	15
5. Insecticide	times		5	15
6. Fungicide	times		4	8
7. Agro-Material	/ha	1	20000	20
8. Packing Materials	/ha	140	27	4
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		8	0
e. Agro-Materials	Man-Day		20	0
f. Appli. of Fertilizer	Man-Day		5	0
g. Appli. of Agro-Chemical	Man-Day		9	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		20	0
l. Harvesting	Man-Day		20	0
m. Selection/Packing	Man-Day		16	0
n. Transplanting	Man-Day		13	0
Sub-Total			156	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				5
Total				100
III. Net Income				90

Table C.4.17(17/26) FINANCIAL NET RETURN PER HECTARE FOR SNAP BEAN UNDER WITH PROJECT CONDITION

Sub-Project Area: Caqueza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	41	10000	410
II. Farm Input				
1. Seed	kg/ha	1280	30	38
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	300	15
5. Insecticide	times		6	17
6. Fungicide	times		5	11
7. Agro-Material	/ha	1	42000	42
8. Packing Materials	/ha	140	80	11
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		10	0
e. Agro-Materials	Man-Day		20	0
f. Appli. of Fertilizer	Man-Day		7	0
g. Appli. of Agro-Chemical	Man-Day		9	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		14	0
l. Harvesting	Man-Day		65	0
m. Selection/Packing	Man-Day		0	0
n. Transplanting	Man-Day		13	0
Sub-Total			183	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				7
Total				141
III. Net Income				269

Table C.4.17(18/26) FINANCIAL NET RETURN PER HECTARE FOR TOMATO UNDER WITH PROJECT CONDITION

Sub-Project Area: Cequeza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	33	19000	627
II. Farm Input				
1. Seed	kg/ha	12110	0.3	4
2. Calfos	kg/ha	10	1000	10
3. Organic Matters	kg/ha	20	3000	60
4. Fertilizer	kg/ha	50	500	25
5. Insecticide	times		5	10
6. Fungicide	times		12	22
7. Agro-Material	/ha	1	25000	25
8. Packing Materials	/ha	35	1462	51
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		12	0
c. Nursery Preparation	Man-Day		10	0
d. Sowing/Transplanting	Man-Day		32	0
e. Agro-Materials	Man-Day		35	0
f. Appli. of Fertilizer	Man-Day		8	0
g. Appli. of Agro-Chemical	Man-Day		24	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		4	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		14	0
l. Harvesting	Man-Day		77	0
m. Selection/Packing	Man-Day		0	0
n. Transplanting	Man-Day		14	0
Sub-Total			275	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				10
Total				217
III. Net Income				410

Table C.4.17(19/26) FINANCIAL NET RETURN PER HECTARE FOR PERUVISH CARROT UNDER WITH PROJECT CONDITION

Sub-Project Area: Caqueza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	22	10000	220
II. Farm Input				
1. seed	kg/ha	22	500	11
2.Calfos	kg/ha			0
3. Organic Matters	kg/ha			0
4. fertilizer	kg/ha	50	400	20
5. Insecticide	times		3	4
6. Fungicide	times		2	2
7. Agro-Material	/ha			0
8. Packing Materials	/ha	140	80	11
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		15	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		6	0
g. Appli. of Agro-Chemical	Man-Day		6	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		25	0
l. Harvesting	Man-Day		36	0
m. Selection/Packing	Man-Day		0	0
n. Transplanting	Man-Day		6	0
Sub-Total			139	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				2
Total				50
III. Net Income				170

Table C.4.17(20/26) FINANCIAL NET RETURN PER HECTARE FOR POTATO UNDER WITH PROJECT CONDITION

Sub-Project Area: Tibacuy

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	17	19000	323
II. Farm Input				
1. Seed	kg/ha	17	1000	17
2. Calfos	kg/ha	10	1000	10
3. Organic Matters	kg/ha	20	5000	100
4. Fertilizer	kg/ha	50	1300	65
5. Insecticide	Times		3	18
6. Fungicide	Times		4	4
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	149	21
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		15	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		14	0
g. Appli. of Agro-Chemical	Man-Day		12	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		4	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		25	0
l. Harvesting	Man-Day		38	0
m. Selection/Packing	Man-Day		8	0
n. Transplanting	Man-Day		8	0
Sub-Total			169	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				12
Total				247
III. Net Income				76

Table C.4.17(21/26) FINANCIAL NET RETURN PER HECTARE FOR MAIZE/PUMPKIN UNDER WITH PROJECT CONDITION

Sub-Project Area: Tibacuy

		Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income					
Agro-Product	-Maize	kg/ha	26	1800	47
	-Pumpkin		18	11200	202
II. Farm Input					
1. Seed	-Maize	kg/ha	150	25	4
	-Pumpkin		18	1.5	0
2. Calfos		kg/ha		0	0
3. Organic Matters		kg/ha		0	0
4. Fertilizer		kg/ha	50	650	33
5. Insecticide		times		3	4
6. Fungicide		times		3	2
7. Agro-Material		/ha			0
8. Packing Materials		/ha	140	104	15
9. Labour Force					
a. Plowing		Man-Day		0	0
b. Harrowing		Man-Day		0	0
c. Nursery Preparation		Man-Day		0	0
d. Sowing/Transplanting		Man-Day		14	0
e. Agro-Materials		Man-Day		0	0
f. Appli. of Fertilizer		Man-Day		6	0
g. Appli. of Agro-Chemical		Man-Day		9	0
h. Appli. of Herbicide		Man-Day		0	0
i. Appli. of Calfos		Man-Day		0	0
j. Weeding		Man-Day		45	0
k. Water Management		Man-Day		6	0
l. Harvesting		Man-Day		21	0
m. Selection/Packing		Man-Day		13	0
n. Transplanting		Man-Day		10	0
Sub-Total				124	0
10. Animal Power		Animal Day		7	0
11. Miscellaneous					3
Total					61
III. Net Income					188

Table C. 4. 17(22/26) FINANCIAL NET RETURN PER HECTARE FOR ONION UNDER WITH PROJECT CONDITION

Sub-Project Area: Tibacuy

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	31	17000	527
II. Farm Input				
1. Seed	kg/ha	7710	2.5	19
2. Calfos	kg/ha	10	1000	10
3. Organic Matters	kg/ha	20	3000	60
4. Fertilizer	kg/ha	50	500	25
5. Insecticide	times		4	3
6. Fungicide	times		5	8
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	136	19
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		12	0
c. Nursery Preparation	Man-Day		10	0
d. Sowing/Transplanting	Man-Day		32	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		8	0
g. Appli. of Agro-Chemical	Man-Day		12	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		4	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		22	0
l. Harvesting	Man-Day		33	0
m. Selection/Packing	Man-Day		13	0
n. Transplanting	Man-Day		10	0
Sub-Total			201	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				7
Total				151
III. Net Income				376

Table C.4.17(23/26) FINANCIAL NET RETURN PER HECTARE FOR KIDNY BEAN UNDER WITH PROJECT CONDITION

Sub-Project Area: Tibacuy

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	192	1400	269
II. Farm Input				
1. Seed	kg/ha	330	70	23
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	250	13
5. Insecticide	times		3	9
6. Fungicide	times		3	5
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	12	2
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		8	0
e. Agro-Materials	Man-Day		0	0
f. Appli. of Fertilizer	Man-Day		5	0
g. Appli. of Agro-Chemical	Man-Day		9	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		20	0
l. Harvesting	Man-Day		10	0
m. Selection/Packing	Man-Day		10	0
n. Transplanting	Man-Day		3	0
Sub-Total			110	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				3
Total				55
III. Net Income				214

Table C.4.17(24/26) FINANCIAL NET RETURN PER HECTARE FOR SNAP BEAN UNDER WITH PROJECT CONDITION

Sub-Project Area: Tibacuy

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	41	11000	451
II. Farm Input				
1. Seed	kg/ha	1280	30	38
2 .Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	50	300	15
5. Insecticide	times		6	17
6. Fungicide	times		5	11
7. Agro-Material	/ha	1	42000	42
8. Packing Materials	/ha	140	88	12
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		0	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		10	0
e. Agro-Materials	Man-Day		20	0
f. Appli. of Fertilizer	Man-Day		7	0
g. Appli. of Agro-Chemical	Man-Day		9	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		14	0
l. Harvesting	Man-Day		65	0
m. Selection/Packing	Man-Day		0	0
n. Transplanting	Man-Day		13	0
Sub-Total			183	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				7
Total				142
III. Net Income				309

Table C.4.17(25/26) FINANCIAL NET RETURN PER HECTARE FOR TOMATO UNDER WITH PROJECT CONDITION

Sub-Project Area: Tibacuy

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	33	21000	693
II. Farm Input				
1. Seed	kg/ha	12110	0.3	4
2. Calfos	kg/ha	10	1000	10
3. Organic Matters	kg/ha	20	3000	60
4. Fertilizer	kg/ha	50	500	25
5. Insecticide	times		5	10
6. Fungicide	times		12	22
7. Agro-Material	/ha	1	25000	25
8. Packing Materials	/ha	35	1400	49
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		12	0
c. Nursery Preparation	Man-Day		10	0
d. Sowing/Transplanting	Man-Day		32	0
e. Agro-Materials	Man-Day		35	0
f. Appli. of Fertilizer	Man-Day		8	0
g. Appli. of Agro-Chemical	Man-Day		24	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		4	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		14	0
l. Harvesting	Man-Day		77	0
m. Selection/Packing	Man-Day		0	0
n. Transplanting	Man-Day		14	0
Sub-Total			275	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				10
Total				215
III. Net Income				478

Table C.4.17(26/26) FINANCIAL NET RETURN PER HECTARE FOR CUCUMBER UNDER WITH PROJECT CONDITION

Sub-Project Area: Tibacuy

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	15	17000	255
II. Farm Input				
1. Seed	kg/ha	4070	4	16
2. Calfos	kg/ha	10	0	0
3. Organic Matters	kg/ha	20	0	0
4. Fertilizer	kg/ha	50	450	23
5. Insecticide	times		7	17
6. Fungicide	times		6	11
7. Agro-Material	/ha	1	25000	25
8. Packing Materials	/ha	35	1134	40
9. Labour Force				
a. Plowing	Man-Day		0	0
b. Harrowing	Man-Day		12	0
c. Nursery Preparation	Man-Day		0	0
d. Sowing/Transplanting	Man-Day		15	0
e. Agro-Materials	Man-Day		20	0
f. Appli. of Fertilizer	Man-Day		8	0
g. Appli. of Agro-Chemical	Man-Day		18	0
h. Appli. of Herbicide	Man-Day		0	0
i. Appli. of Calfos	Man-Day		0	0
j. Weeding	Man-Day		45	0
k. Water Management	Man-Day		20	0
l. Harvesting	Man-Day		65	0
m. Selection/Packing	Man-Day		0	0
n. Transplanting	Man-Day		13	0
Sub-Total			216	0
10. Animal Power	Animal Day		7	0
11. Miscellaneous				7
Total				139
III. Net Income				116

Table C.5.1 PRODUCTION PLAN UNDER IRRIGATED AREA

(1) San Pedro de Iguaque (Irrigable Area : 162ha)

Crops	Cropped Area (ha)		Production Volume (ton)	
	Without Project	With Project	Without Project	With Project
Patato	113	81	1,356	1,539
Wheat	24		31	
Maize	41		53	
Maize(& Broadbean)		20		35
Broabean		20		76 *
Pea		41		135
Welsh onion		41		1,230
Beet		41		615
Carrot		20		300
Total	178	264		

* Production of broadbean mixed maize is included.

(2) Santa Sofia (Irrigable Area : 239ha)

Crops	Cropped Area (ha)		Production Volume (ton)	
	Without Project	With Project	Without Project	With Project
Patato	60		780	
Wheat	9	30	13	63
Maize(& Kidneybean)	60	30	67	53
Kidneybean	45	119	65 *	143 *
Pea	36	90	79	297
Onion		119		2,023
Garlic		60		420
Cassava	24		240	
Sugarcane	30		450	
Total	264	448		

* Production of Kidneybean mixed maize is included.

(3) Cagueza (Irrigable Area : 417ha)

Crops	Cropped Area (ha)		Production Volume (ton)	
	Without Project	With Project	Without Project	With Project
Maize(& Kindeybean)	190		334	
Maize, (Kidneybean & Pumkin)		83		173
Kidneybean	57		230 *	86 *
Pea	57	83	171	282
Snapbean	38	167	342	1,670
Onion	38	167	532	2,672
Tomato	38	84	646	1,680
Arracacha		83		830
Pumkin				863 *
Total	418	667		

* Production of kidneybean and pumkin mixed maize are included.

(4) Tibacuy

(Irrigable Area : Withaount project 48ha, With48ha coffee Area : 210ha

Crops	Cropped Area (ha)		Production Volume (ton)	
	Without Project	With Project	Without Project	With Project
Patato	4	10	52	190
Maize(& Kidneybean)	10		11	
Maize(& Pumkin)		10		18
Kidneybean	10	19	18 *	27
Pea	10		26	
Snapbean	13	29	104	319
Onion		19		323
Tomato	9	10	135	210
Cucumber		9		153
Pumkin				112 *
Cassava	4		40	
Sugarcane	9		135	
Total	69	106		
Coffee	210	210	210	273

* Production of Kidneybean & pumkin mixed maize are included.

Table C.5.2(1/ 9) ECONOMIC NET RETURN PER HECTARE FOR POTATO UNDER WITHOUT PROJECT CONDITION

Sub-project Area: San Pedro de Iguaque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	17	12000	204
II. Farm Input				
1. Seed	kg/ha	17	1200	20
2. Calfos	kg/ha	11	500	6
3. Organic Matters	kg/ha	24	2000	48
4. Fertilizer	kg/ha	54	800	43
5. Insecticide	times		2	9
6. Fungicide	times		2	2
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	96	13
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	0	0
c. Nursery Preparation	Man-Day	300	0	0
d. Sowing/Transplanting	Man-Day	300	15	5
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	8	2
g. Appli. of Agro-Chemical	Man-Day	300	9	3
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	0	0
j. Weeding	Man-Day	300	45	14
k. Water Management	Man-Day	300	0	0
l. Harvesting	Man-Day	300	30	9
m. Selection/Packing	Man-Day	300	6	2
n. Transplanting	Man-Day	300	6	2
Sub-Total			119	37
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				9
Total				198
III. Net Income				6

Table C.5.2(2/ 9) ECONOMIC NET RETURN PER HECTARE FOR MAIZE UNDER WITHOUT PROJECT CONDITION

Sub-project Area: San Pedro de Iguaque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	28	1300	36
II. Farm Input				
1. Seed	kg/ha	150	30	5
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	54	200	11
5. Insecticide	times		1	1
6. Fungicide	times			0
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	10	1
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	0	0
c. Nursery Preparation	Man-Day	300	0	0
d. Sowing/Transplanting	Man-Day	300	4	1
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	5	2
g. Appli. of Agro-Chemical	Man-Day	300	3	1
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	0	0
j. Weeding	Man-Day	300	30	9
k. Waterr Management	Man-Day	300	0	0
l. Harvesting	Man-Day	300	10	3
m. Selection/Packing	Man-Day	300	0	0
n. Transplanting	Man-Day	300	2	1
Sub-Total			54	17
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				2
Total				48
III. Net Income				-12

Table C.5.2(3/ 9) ECONOMIC NET RETURN PER HECTARE FOR WHEAT UNDER WITHOUT PROJECT CONDITION

Sub-project Area: San Pedro de Iquaque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	35	1300	46
II. Farm Input				
1. Seed	kg/ha	70	130	9
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	54	130	7
5. Insecticide	times			0
6. Fungicide	times		1	3
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	10	1
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	0	0
c. Nursery Preparation	Man-Day	300	0	0
d. Sowing/Transplanting	Man-Day	300	4	1
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	3	1
g. Appli. of Agro-Chemical	Man-Day	300	3	1
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	0	0
j. Weeding	Man-Day	300	10	3
k. Water Management	Man-Day	300	0	0
l. Harvesting	Man-Day	300	15	5
m. Selection/Packing	Man-Day	300	8	2
n. Transplanting	Man-Day	300	2	1
Sub-Total			45	14
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				2
Total				47
III. Net Income				-1

Table C.5.2(4/ 9) ECONOMIC NET RETURN PER HECTARE FOR WHEAT UNDER WITHOUT PROJECT CONDITION

Sub-project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	35	1400	49
II. Farm Input				
1. Seed	kg/ha	70	130	9
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	54	130	7
5. Insecticide	times			0
6. Fungicide	times		1	3
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	11	2
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	0	0
c. Nursery Preparation	Man-Day	300	0	0
d. Sowing/Transplanting	Man-Day	300	4	1
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	3	1
g. Appli. of Agro-Chemical	Man-Day	300	3	1
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	0	0
j. Weeding	Man-Day	300	10	3
k. Water Management	Man-Day	300	0	0
l. Harvesting	Man-Day	300	15	5
m. Selection/Packing	Man-Day	300	8	2
n. Transplanting	Man-Day	300	2	1
Sub-Total			45	14
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				2
Total				48
III. Net Income				1

Table C.5.2(5/ 9) ECONOMIC NET RETURN PER HECTARE FOR POTATO UNDER WITHOUT PROJECT CONDITION

Sub-project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	17	13000	221
II. Farm Input				
1. Seed	kg/ha	17	1200	20
2. Calfos	kg/ha	11	500	6
3. Organic Matters	kg/ha	24	2000	48
4. Fertilizer	kg/ha	54	800	43
5. Insecticide	times		2	9
6. Fungicide	times		2	2
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	104	15
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	0	0
c. Nursery Preparation	Man-Day	300	0	0
d. Sowing/Transplanting	Man-Day	300	15	5
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	8	2
g. Appli. of Agro-Chemical	Man-Day	300	9	3
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	0	0
j. Weeding	Man-Day	300	45	14
k. Water Management	Man-Day	300	0	0
l. Harvesting	Man-Day	300	30	9
m. Selection/Packing	Man-Day	300	6	2
n. Transplanting	Man-Day	300	6	2
Sub-Total			119	37
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				10
Total				201
III. Net Income				20

Table C.5.2(6/ 9) ECONOMIC NET RETURN PER HECTARE FOR ONION UNDER WITHOUT PROJECT CONDITION

Sub-project Area: Caqueza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	31	14000	434
II. Farm Input				
1. Seed	kg/ha	7710	2.5	19
2. Calfos	kg/ha	11	500	6
3. Organic Matters	kg/ha	24	2000	48
4. Fertilizer	kg/ha	54	350	19
5. Insecticide	times		1	0
6. Fungicide	times		4	5
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	112	16
9. Labour Force				
a. Plowing	Man-Day	300	6	2
b. Harrowing	Man-Day	300	6	2
c. Nursery Preperation	Man-Day	300	10	3
d. Sowing/Transplanting	Man-Day	300	32	10
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	5	2
g. Appli. of Agro-Chemical	Man-Day	300	9	3
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	0	0
j. Weeding	Man-Day	300	45	14
k. Water Management	Man-Day	300	0	0
l. Harvesting	Man-Day	300	25	8
m. Selection/Packing	Man-Day	300	10	3
n. Transplanting	Man-Day	300	8	2
Sub-Total			156	49
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				9
Total				182
III. Net Income				252

Table C.5.2(7/ 9) ECONOMIC NET RETURN PER HECTARE FOR TOMATO UNDER WITHOUT PROJECT CONDITION

Sub-project Area: Caqueza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	33	17000	561
II. Farm Input				
1. Seed	kg/he	12110	0.3	4
2. Calfos	kg/he	11	0	0
3. Organic Matters	kg/he	24	2000	48
4. Fertilizer	kg/he	54	350	19
5. Insecticide	times		3	6
6. Fungicide	times		12	22
7. Agro-Material	/he	1	25000	25
8. Packing Materials	/ha	35	1134	40
9. Labour Force				
a. Plowing	Man-Day	300	6	2
b. Harrowing	Man-Day	300	6	2
c. Nursery Preparation	Man-Day	300	10	3
d. Sowing/Transplanting	Man-Day	300	32	10
e. Agro-Materials	Man-Day	300	35	11
f. Appli. of Fertilizer	Man-Day	300	5	2
g. Appli. of Agro-Chemical	Man-Day	300	18	5
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	0	0
j. Weeding	Man-Day	300	30	9
k. Water Management	Man-Day	300	0	0
l. Harvesting	Man-Day	300	55	17
m. Selection/Packing	Man-Day	300	10	3
n. Transplanting	Man-Day	300		0
Sub-Total			207	64
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				12
Total				251
III. Net Income				310

Table C.5.2(8/ 9) ECONOMIC NET RETURN PER HECTARE FOR POTATO UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: Tibacuy

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	17	13000	221
II. Farm Input				
1. Seed	kg/ha	17	1200	20
2. Calfos	kg/ha	11	500	6
3. Organic Matters	kg/ha	24	2000	48
4. Fertilizer	kg/ha	54	800	43
5. Insecticide	times		2	9
6. Fungicide	times		2	2
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	104	15
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	0	0
c. Nursery Preparation	Man-Day	300	0	0
d. Sowing/Transplanting	Man-Day	300	15	5
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	8	2
g. Appli. of Agro-Chemical	Man-Day	300	9	3
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	0	0
j. Weeding	Man-Day	300	45	14
k. Water Management	Man-Day	300	0	0
l. Harvesting	Man-Day	300	30	9
m. Selection/Packing	Man-Day	300	6	2
n. Transplanting	Man-Day	300	6	2
Sub-Total			119	37
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				10
Total				201
III. Net Income				20

Table C.5.2(9/ 9) ECONOMIC NET RETURN PER HECTARE FOR TOMATO UNDER WITHOUT PROJECT CONDITION

Sub-Project Area: Tibacuy

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	33	15000	495
II. Farm Input				
1. Seed	kg/ha	12110	0.3	4
2. Calfos	kg/ha	11	0	0
3. Organic Matters	kg/ha	24	2000	48
4. Fertilizer	kg/ha	54	350	19
5. Insecticide	times		3	6
6. Fungicide	times		12	22
7. Agro-Meterial	/ha	1	25000	25
8. Packing Materials	/ha	35	1000	35
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	12	4
c. Nursery Preparation	Man-Day	300	10	3
d. Sowing/Transplanting	Man-Day	300	32	10
e. Agro-Materials	Man-Day	300	35	11
f. Appli. of Fertilizer	Man-Day	300	5	2
g. Appli. of Agro-Chemical	Man-Day	300	18	5
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	0	0
j. Weeding	Man-Day	300	30	9
k. Water Management	Man-Day	300	0	0
l. Harvesting	Man-Day	300	55	17
m. Selection/Packing	Man-Day	300	10	3
n. Transplanting	Man-Day	300		0
Sub-Total			207	64
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				12
Total				246
III. Net Income				249

Table C.5.3(1/15) ECONOMIC NET RETURN PER HECTARE FOR POTATO UNDER WITH PROJECT CONDITION

Sub-Project Area: San Pedro de Iquaque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	17	19000	323
II. Farm Input				
1. Seed	kg/ha	17	1000	17
2. Calfos	kg/ha	11	1000	11
3. Organic Matters	kg/ha	24	3000	72
4. Fertilizer	kg/ha	54	1200	65
5. Insecticide	times		3	18
6. Fungicide	times		4	4
7. Agro-Material	/ha			
8. Packing Materials	/ha	140	152	21
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	0	0
c. Nursery Preparation	Man-Day	300	0	0
d. Sowing/Transplanting	Man-Day	300	15	5
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	14	4
g. Appli. of Agro-Chemical	Man-Day	300	12	4
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	4	1
j. Weeding	Man-Day	300	45	14
k. Water Management	Man-Day	300	25	8
l. Harvesting	Man-Day	300	38	11
m. Selection/Packing	Man-Day	300	8	2
n. Transplanting	Man-Day	300	8	2
Sub-Total			169	51
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				14
Total				284
III. Net Income				39

Table C.5.3(2/15) ECONOMIC NET RETURN PER HECTARE FOR WELSH ONION UNDER WITH PROJECT CONDITION

Sub-Project Area: San Pedro de Iguaque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	17	30000	510
II. Farm Input				
1. Seed	kg/ha	17	3800	65
2. Calfos	kg/ha	11	1000	11
3. Organic Matters	kg/ha	24	5000	120
4. Fertilizer	kg/ha	54	450	24
5. Insecticide	times		9	23
6. Fungicide	times		12	14
7. Agro-Material	/ha			
8. Packing Materials	/ha	140	240	34
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	30	9
c. Nursery Preparation	Man-Day	300	0	0
d. Sowing/Transplanting	Man-Day	300	60	18
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	15	5
g. Appli. of Agro-Chemical	Man-Day	300	18	5
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	4	1
j. Weeding	Man-Day	300	45	14
k. Water Management	Man-Day	300	50	15
l. Harvesting	Man-Day	300	40	12
m. Selection/Packing	Man-Day	300	20	6
n. Transplanting	Man-Day	300	6	2
Sub-Total			288	87
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				19
Total				408
III. Net Income				102

Table C.5.3(3/15) ECONOMIC NET RETURN PER HECTARE FOR BEET UNDER WITH PROJECT CONDITION

Sub-Project Area: San Pedro de Iquaque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	15	15000	225
II. Farm Input				
1. Seed	kg/ha	2400	5	12
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	54	400	22
5. Insecticide	times		6	12
6. Fungicide	times		4	4
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	120	17
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	12	4
c. Nursery Preparation	Man-Day	300	0	0
d. Sowing/Transplanting	Man-Day	300	20	6
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	8	2
g. Appli. of Agro-Chemical	Man-Day	300	12	4
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	0	0
j. Weeding	Man-Day	300	45	14
k. Water Management	Man-Day	300	17	5
l. Harvesting	Man-Day	300	30	9
m. Selection/Packing	Man-Day	300	20	6
n. Transplanting	Man-Day	300	6	2
Sub-Total			170	52
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				7
Total				137
III. Net Income				88

Table C.5.3(4/15) ECONOMIC NET RETURN PER HECTARE FOR CARROT UNDER WITH PROJECT CONDITION

Sub-Project Area: San Pedro de Iguaque

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	14	15000	210
II. Farm Input				
1. Seed	kg/ha	3700	5	19
2 .Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	54	400	22
5. Insecticide	times		6	12
6. Fungicide	times	3	6	3
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	120	17
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	12	4
c. Nursery Preparation	Man-Day	300	0	0
d. Sowing/Transplanting	Man-Day	300	20	6
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	8	2
g. Appli. of Agro-Chemical	Man-Day	300	9	3
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	0	0
j. Weeding	Man-Day	300	45	14
k. Water Management	Man-Day	300	22	7
l. Harvesting	Man-Day	300	40	12
m. Selection/Packing	Man-Day	300	10	3
n. Transplanting	Man-Day	300	6	2
Sub-Total			172	53
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				7
Total				144
III. Net Income				66

Table C.5.3(5/15) ECONOMIC NET RETURN PER HECTARE FOR WHEAT UNDER WITH PROJECT CONDITION

Sub project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	35	2100	74
II. Farm Input				
1. Seed	kg/ha	70	120	8
2. Calfos	kg/ha	0	0	0
3. Organic Matters	kg/ha	0	0	0
4. Fertilizer	kg/ha	54	200	11
5. Insecticide	times		1	1
6. Fungicide	times		2	4
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	17	2
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	0	0
c. Nursery Preparation	Man-Day	300	0	0
d. Sowing/Transplanting	Man-Day	300	4	1
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	4	1
g. Appli. of Agro-Chemical	Man-Day	300	6	2
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	0	0
j. Weeding	Man-Day	300	20	6
k. Water Management	Man-Day	300	6	2
l. Harvesting	Man-Day	300	20	6
m. Selection/Packing	Man-Day	300	10	3
n. Transplanting	Man-Day	300	3	1
Sub-Total			73	22
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				3
Total				62
III. Net Income				12

Table C.5.3(6/15) ECONOMIC NET RETURN PER HECTARE FOR ONION UNDER WITH PROJECT CONDITION

Sub project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	31	17000	527
II. Farm Input				
1. Seed	kg/ha	7710	2.5	19
2. Calfos	kg/ha	11	1000	11
3. Organic Matters	kg/ha	24	3000	72
4. Fertilizer	kg/ha	54	450	24
5. Insecticide	times		4	3
6. Fungicide	times		5	8
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	136	19
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	12	4
c. Nursery Preparation	Man-Day	300	10	3
d. Sowing/Transplanting	Man-Day	300	32	10
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	8	2
g. Appli. of Agro-Chemical	Man-Day	300	12	4
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	4	1
j. Weeding	Man-Day	300	45	14
k. Water Management	Man-Day	300	22	7
l. Harvesting	Man-Day	300	33	10
m. Selection/Packing	Man-Day	300	13	4
n. Transplanting	Man-Day	300	10	3
Sub-Total			201	62
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				11
Total				240
III. Net Income				287

Table C.5.3(7/15) ECONOMIC NET RETURN PER HECTARE FOR GARLIC UNDER WITH PROJECT CONDITION

Sub project Area: Santa Sofia

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	103	7000	721
II. Farm Input				
1. Seed	kg/ha	103	900	93
2. Calfos	kg/ha	11	1000	11
3. Organic Matters	kg/ha	24	3000	72
4. Fertilizer	kg/ha	54	450	24
5. Insecticide	times		4	10
6. Fungicide	times		5	8
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	56	8
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	12	4
c. Nursery Preparation	Man-Day	300	10	3
d. Sowing/Transplanting	Man-Day	300	32	10
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	8	2
g. Appli. of Agro-Chemical	Man-Day	300	12	4
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	4	1
j. Weeding	Man-Day	300	45	14
k. Water Management	Man-Day	300	22	7
l. Harvesting	Man-Day	300	33	10
m. Selection/Packing	Man-Day	300	13	4
n. Transplanting	Man-Day	300	10	3
Sub-Total			201	62
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				15
Total				314
III. Net Income				407

Table C.5.3(8/15) ECONOMIC NET RETURN PER HECTARE FOR ONION UNDER WITH PROJECT CONDITION

Sub Project Area: Caqueza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	31	16000	496
II. Farm Input				
1. Seed	kg/ha	7710	2.5	19
2. Calfos	kg/ha	11	1000	11
3. Organic Matters	kg/ha	24	3000	72
4. Fertilizer	kg/ha	54	450	24
5. Insecticide	times		4	3
6. Fungicide	times		5	8
7. Agro-Material	/ha	0	0	0
8. Packing Materials	/ha	140	128	18
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	12	4
c. Nursery Preparation	Man-Day	300	10	3
d. Sowing/Transplanting	Man-Day	300	32	10
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	8	2
g. Appli. of Agro-Chemical	Man-Day	300	12	4
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	4	1
j. Weeding	Man-Day	300	45	14
k. Water Management	Man-Day	300	22	7
l. Harvesting	Man-Day	300	33	10
m. Selection/Packing	Man-Day	300	13	4
n. Transplanting	Man-Day	300	10	3
Sub-Total			201	62
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				11
Total				239
III. Net Income				257

Table C.5.3(9/15) ECONOMIC NET RETURN PER HECTARE FOR TOMATO UNDER WITH PROJECT CONDITION

Sub Project Area: Caqueza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	33	20000	660
II. Farm Input				
1. Seed	kg/ha	12110	0.3	4
2. Calfos	kg/ha	11	1000	11
3. Organic Matters	kg/ha	24	3000	72
4. Fertilizer	kg/ha	54	450	24
5. Insecticide	times		5	10
6. Fungicide	times		12	22
7. Agro-Material	/ha	1	25000	25
8. Packing Materials	/ha	35	1267	44
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	12	4
c. Nursery Preparation	Man-Day	300	10	3
d. Sowing/Transplanting	Man-Day	300	32	10
e. Agro-Materials	Man-Day	300	35	11
f. Appli. of Fertilizer	Man-Day	300	8	2
g. Appli. of Agro-Chemical	Man-Day	300	24	7
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	4	1
j. Weeding	Man-Day	300	45	14
k. Water Management	Man-Day	300	14	4
l. Harvesting	Man-Day	300	77	23
m. Selection/Packing	Man-Day	300	0	0
n. Transplanting	Man-Day	300	14	4
Sub-Total			275	83
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				15
Total				321
III. Net Income				339

Table C.5.3(10/15) ECONOMIC NET RETURN PER HECTARE FOR PERUVISH CARROT UNDER WITH PROJECT CONDITION

Sub Project Area: Caqueza

	Unit	Unit Price (col.$)	Quantity	Amount (1000Col.$)
I. Income				
Agro-Product	kg/ha	22	10000	220
II. Farm Input				
1. seed	kg/ha	22	500	11
2.Calfos	kg/ha			0
3. Organic Matters	kg/ha			0
4. fertilizer	kg/ha	54	400	22
5. Insecticide	times		3	4
6. Fungicide	times		2	2
7. Agro-Material	/ha			0
8. Packing Materials	/ha	140	80	11
9. Labour Force				
a. Plowing	Man-Day	300	0	0
b. Harrowing	Man-Day	300	0	0
c. Nursery Preparation	Man-Day	300	0	0
d. Sowing/Transplanting	Man-Day	300	15	5
e. Agro-Materials	Man-Day	300	0	0
f. Appli. of Fertilizer	Man-Day	300	6	2
g. Appli. of Agro-Chemical	Man-Day	300	6	2
h. Appli. of Herbicide	Man-Day	300	0	0
i. Appli. of Calfos	Man-Day	300	0	0
j. Weeding	Man-Day	300	45	14
k. Water Management	Man-Day	300	25	8
l. Harvesting	Man-Day	300	36	11
m. Selection/Packing	Man-Day	300	0	0
n. Transplanting	Man-Day	300	6	2
Sub-Total			139	44
10. Animal Power	Animal Day	1500	7	11
11. Miscellaneous				5
Total				110
III. Net Income				110