

Supplementary Table S1: Direct costs for cocoa management and maintenance in the area of research intervention

Criteria for calculating the production and maintenance costs of the farm					Base year	Year 1	Year 2	Year 3	Year 4	Year 5
A. Productivity Kg of cocoa/year					94,811	94,811	94,811	94,811	94,811	94,811
B. Total area of intervention (ha)					104	104	104	104	104	104
C. Unit cost per unit PEN/kg of dry cocoa					3.91	3.91	3.91	3.91	3.91	3.91
					Base year	Year 1	Year 2	Year 3	Year 4	Year 5
Items	Unit of measurement	Quantity per ha (F)	Total (B*F)	Unit price PEN (G)	Total cost PEN (G*B*F)	Total cost PEN (G*B*F)	Total cost PEN (G*B*F)	Total cost PEN (G*B*F)	Total cost PEN (G*B*F)	Total cost PEN (G*B*F)
Direct costs (D+E)					371,110.33	371,110.33	371,110.33	371,110.33	371,110.33	371,110.33
D. Labor					258,520.33	258,520.33	258,520.33	258,520.33	258,520.33	258,520.33
Pruning	Wage	11	1164.45	50.00	58,222.64	58,222.64	58,222.64	58,222.64	58,222.64	58,222.64
Weed control	Wage	12	1251	50.00	62,550.00	62,550.00	62,550.00	62,550.00	62,550.00	62,550.00
Shade management	Wage	4	417.00	50.00	20,850.00	20,850.00	20,850.00	20,850.00	20,850.00	20,850.00
Fertilizer application	Wage	4	437.85	50.00	21,892.50	21,892.50	21,892.50	21,892.50	21,892.50	21,892.50
Pest and disease control	Wage	5	521.25	50.00	26,062.50	26,062.50	26,062.50	26,062.50	26,062.50	26,062.50
Harvest	Wage	13	1378.85	50.00	68,942.69	68,942.69	68,942.69	68,942.69	68,942.69	68,942.69
E. Supplies					112,590.00	112,590.00	112,590.00	112,590.00	112,590.00	112,590.00
Island guano	Sack x 50 kg	18	1877	60.00	112,590.00	112,590.00	112,590.00	112,590.00	112,590.00	112,590.00

Supplementary Table S2. Indirect costs for cocoa production

Concept	Unit of measurement	Quantity	Unit cost PEN	Total cost PEN	Base year PEN	Year 1 PEN	Year 2 PEN	Year 3 PEN	Year 4 PEN	Year 5 PEN
A. Tools				15,105.00	10,600.00	6,890.00	6,890.00	15,105.00	6,890.00	6,890.00
Machetes	Unidad	53.00	25.00	1,325.00	1,325.00	0.00	0.00	1,325.00	0.00	0.00
Spikes	Unidad	53.00	30.00	1,590.00	1,590.00	0.00	0.00	1,590.00	0.00	0.00
Shovels	Unidad	53.00	30.00	1,590.00	1,590.00	0.00	0.00	1,590.00	0.00	0.00
Pruning shears	Unidad	53.00	35.00	1,855.00	1,855.00	0.00	0.00	1,855.00	0.00	0.00
Pod	Unidad	53.00	35.00	1,855.00	1,855.00	0.00	0.00	1,855.00	0.00	0.00
Ear protection	Unidad	53.00	45.00	2,385.00	2,385.00	2,385.00	2,385.00	2,385.00	2,385.00	2,385.00
Helmet	Unidad	53.00	50.00	2,650.00	0.00	2,650.00	2,650.00	2,650.00	2,650.00	2,650.00
Leather gloves	Unidad	53.00	35.00	1,855.00	0.00	1,855.00	1,855.00	1,855.00	1,855.00	1,855.00
A. Machinery				95,400.00	0.00	0.00	95,400.00	0.00	0.00	0.00
motor mower	Unidad	53	1,800.00	95,400.00			95,400.00			
TOTAL (A+B)				110,505.00	10,600.00	6,890.00	102,290.00	15,105.00	6,890.00	6,890.00

Supplementary Table S3. Administrative costs for cocoa production

Concept	Unit of measurement	Quantity	Value monthly PEN	Total annual PEN	Year 0 PEN	Year 1 PEN	Year 2 PEN	Year 3 PEN	Year 4 PEN	Year 5 PEN
A. Human Resources			89,200.00	49,600.00	89,200.00	89,200.00	89,200.00	89,200.00	89,200.00	89,200.00
Manager	Month	12	3,000.00	36,000.00	36,000.00	36,000.00	36,000.00	36,000.00	36,000.00	36,000.00
Administrative Assistant	Month	12	1,100.00	13,200.00	13,200.00	13,200.00	13,200.00	13,200.00	13,200.00	13,200.00
Field technician	Month	12	1,800.00	21,600.00	0.00	21,600.00	21,600.00	21,600.00	21,600.00	21,600.00
Responsible for collection	Month	12	1,500.00	18,000.00	0.00	18,000.00	18,000.00	18,000.00	18,000.00	18,000.00
B. Stationery			400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00
Desk supplies	Gbl	1	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00
C. Basic services					3,360.00	3,360.00	3,360.00	3,360.00	3,360.00	3,360.00
Water	Month	12	100.00	1,200.00	1,200.00	1,200.00	1,200.00	1,200.00	1,200.00	1,200.00
Light	Month	12	80.00	960.00	960.00	960.00	960.00	960.00	960.00	960.00
Phone	Month	12	100.00	1,200.00	1200	1,200.00	1,200.00	1,200.00	1,200.00	1,200.00
Totals (A+B+C)				52,960.00	92,560.00	92,560.00	92,560.00	92,560.00	92,560.00	52,960.00