Table 1. A comprehensive inventory data for the plantain production that included all stages. Source: own elaboration.

Stage	Subsystem	Activity	Time (months)	Name or composition	Value (USD)	Unit	Machinery type	Diesel consumption (kg ha^{-1})
1	Germination	Thermal camera construction	0.5	Wood	1500	kg ha^{-1}	Manual	
				Rice husk camera	1104	kg ha^{-1}	Manual	
				Greenhouse plastic high density	80	kg ha^{-1}	Manual	
		Nursery	2	Sodium hypochlorite	20	kg ha^{-1}	Manual	
				Fungicide (Tiabendazol)	250	kg ha^{-1}	Manual	
				Rice husk - bags (low density polyethylene)	800	kg ha^{-1}	Manual	
				Poultry manure	800	kg ha^{-1}	Manual	
				LDPE bags (2000 plants ha^{-1})	160	kg ha^{-1}	Manual	
				Soil	2400	kg ha^{-1}	Manual	
2	Site preparation and planting	Semi-heavy harrow maquila	3	Semi-Heavy Disc Harrow SD-35-T				41.60
		Leveling maquila		Smooth roll cultivator Agrator AR 2300				11.65
		Construction of drains		Backhoe Komatsu PC130-8			Manual	4.72
		Drainage rehabilitation					Manual (Shovel)	
		Vegetative material planting					Manual	
		Grooved maquila		Grooved maquila				23.712
		Fertilizing 1 18-46-00 (dap)		18-46-00 (dap)	300	kg ha^{-1}	Manual	
		Plantation trace					Manual	
3	Vegetative growth stage, irrigation and cultural work on plantation	Remove corms	8				Manual (Shovel)	
		Defoliation					Manual	
		Sanitization					Manual	
		Deflower					Manual	
		Remove outer layers of pseudostem					Manual	
		Bunch bagging polyethylene 0.08m.m.		Bags	48	kg ha^{-1}	Manual	

Stage	Subsystem	Activity	Time (months)	Name or composition	Value (USD)	Unit	Machinery type	Diesel consumption (kg ha^{-1})
		Mooring		String	70	kg ha^{-1}	Manual	
		Bamboo shoring		Bamboo	2000	kg ha^{-1}	Manual	
		Residue recolection					Manual	
		Electric power pump for irrigation		Irrigation Equipment 13.5 HP EVANS 7IMG1350BS	36.241	MJ h^{-1}		
		Irrigation laborer			13500	m^3 ha^{-1}	Manual	
		Pests, weeds and diseases control		Karmex 1 lt (Diuron) herbicide	0.64	kg ha^{-1}	Knapsack sprayer (Stihl SG 71)	
				Laborer application of pesticides 4 jor			Knapsack sprayer (Stihl SG 71)	
				Laborer application of pesticides 5 jor			Knapsack sprayer (Stihl SG 71)	
				Benomyl (methyl 1-benzimidazo l-2-ylcarbamate) pesticide	0.40	kg ha^{-1}	Knapsack sprayer (Stihl SG 71)	
				Citroline 12 lt (fungicide)	22.44	kg ha^{-1}	Knapsack sprayer (Stihl SG 71)	
				Bavistin 0.4 lt (fungicide)	0.58	kg ha^{-1}	Knapsack sprayer (Stihl SG 71)	
				Laborer pesticide application			Knapsack sprayer (Stihl SG 71)	
				1 ha tracing			Knapsack sprayer (Stihl SG 71)	
				Peren herbicide application 8 jor			Knapsack sprayer (Stihl SG 71)	
				Glyphosate 6 lt (herbicide)	10.20	kg ha^{-1}	Knapsack sprayer (Stihl SG 71)	
				Laborer application of pesticides 4 jor			Knapsack sprayer (Stihl SG 71)	
				Mancozeb 8 kg (fungicide)	15.81	kg ha^{-1}	Knapsack sprayer (Stihl SG 71)	
				Citroline 15 lt (fungicide)	28.1	kg ha^{-1}	Knapsack sprayer (Stihl SG 71)	
				Calixin 1 lt	1.3	kg ha^{-1}	Knapsack sprayer (Stihl SG 71)	
				Prozycar 0.4 kg (fungicide) carbendazym	0.2	kg ha^{-1}	Knapsack sprayer (Stihl SG 71)	

Stage	Subsystem	Activity	Time (months)	Name or composition	Value (USD)	Unit	Machinery type	Diesel consumption (kg ha^{-1})
				Weeding 2 jor			Manual (hoe)	
				Weeding 2 jor			Manual (hoe)	
				Phosphonitrate	200	kg ha^{-1}	Manual	
				Potassium sulfate	100	kg ha^{-1}	Manual	
				18-46-00 (dap)	180	kg ha^{-1}	Manual	
		Fertilizing 2 18-46-00 (dap)		Phosphonitrate	200	kg ha^{-1}	Manual	
				Potassium sulfate	100	kg ha^{-1}	Manual	
				Phosphonitrate	200	kg ha^{-1}	Manual	
				Laborer application fertilizer 6 days			Manual	
				Compost + humus	3600	kg ha^{-1}	Manual	
4	Production stage	Harvesting and packaging	2	Rejected plantain for process	5500	kg ha^{-1}	Manual	