

Land-use Planner

Engage in participatory land-use planning



Perennial crop

Currency Euro (EUR)
Date 25-11-2020

Land use **Cocoa / Conventional practices, Côte d'Ivoire & West Africa**

Description Conventional practices for farming cocoa in Côte d'Ivoire

PRODUCTION

Maximum production in tons per hectare (productivity at peak year) .63 Tons
Year of first harvest 1 Year
Year of highest production (peak year) 14.0 Year
Last year of harvest (end of production) 50 Year
After the last year of harvest, the plantation is replanted No

The reference year (Year 1) is the year of plantation. The last year of harvest is when the crop stops producing or when the farmer decides it is no longer worth to harvest the land use.

Yield profile, in tons per hectare for each year over the lifetime of the plantation

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	
0.0	0.15	0.2	0.3	0.42	0.45	0.48	0.5	0.51	0.53	0.57	0.59	0.61	0.63	0.63	0.63	0.63	Tons
Year 18	Year 19	Year 20	Year 21	Year 22	Year 23	Year 24	Year 25	Year 26	Year 27	Year 28	Year 29	Year 30	Year 31	Year 32	Year 33	Year 34	
0.63	0.56	0.5	0.45	0.44	0.44	0.44	0.44	0.35	0.35	0.35	0.35	0.35	0.3	0.3	0.3	0.3	Tons
Year 35	Year 36	Year 37	Year 38	Year 39	Year 40	Year 41	Year 42	Year 43	Year 44	Year 45	Year 46	Year 47	Year 48	Year 49	Year 50		
0.3	0.3	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.2	0.2	0.2	0.2		Tons

VALUE

In currency per ton 1,067.00 EUR

This corresponds to the local price for the raw produce, in the local market, unless specified differently in the comments section below. In case the raw produce is transformed locally, the price of the processed product may be used to better reflect its local value. Note that the estimated value in Euros may have changed with evolving exchanged rates since the creation date of this worksheet.

COSTS

Costs to establish the plantation (land preparation, seeds & seedlings...) excluding labour costs, per ha 900.00 EUR

Costs to maintain the plantation during unproductive years (weeding, fertilizers, insurance...), per ha and per year 152.00 EUR

Costs during production years (including harvest costs), per hectare and per year, excluding labour 200.00 EUR

These are the average non-labour costs supported by farmers. Costs related to the processing of the raw produce are only included in production years if the price indicated above was that of the processed commodity.

LABOUR

Days of work per hectare to establish the plantation (planting year) 50.00 Days (F)

Days of work to maintain the plantation during unproductive years, per ha and per year 40.00 Days (F)

Days of work during production years, per hectare and per year 45.00 Days (F)

TREES ON FARMS

Average number of trees on farmland per hectare 0.0 Trees

This is particularly relevant for shade-grown cultivation and agro-forestry systems

CARBON

Carbon stock in the biomass of the perennial crop in tons of carbon per hectare 63.0 tC

The average carbon stock found in this perennial crop over the lifetime of the crop plantation

BIODIVERSITY

Relative biodiversity value estimate expressed in % of the biodiversity value found in local intact natural forests 11.00 %

OTHER INFORMATION

Source: EFI, 2016.

Acknowledgement: . Compiled by the European Forest Institute through the Land-use Planner website.

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