

Holistic diagnosis

Coffee supply chain

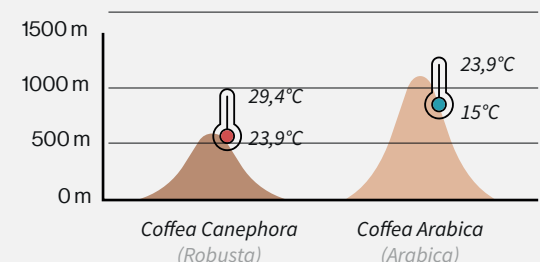
An analysis of the coffee supply chain of the coffee industry taking into consideration Colombia and Italy as principal territories.



Also, there is an environmental impact analysis and outputs on the most critical phases.

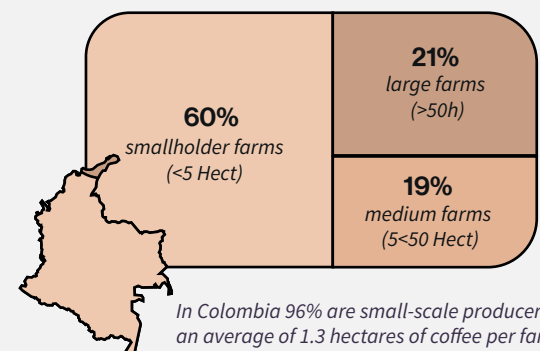
Coffee planting altitude

Ideal planting conditions for main coffee varieties

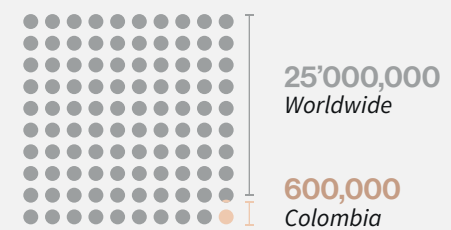


Coffee farms dimension

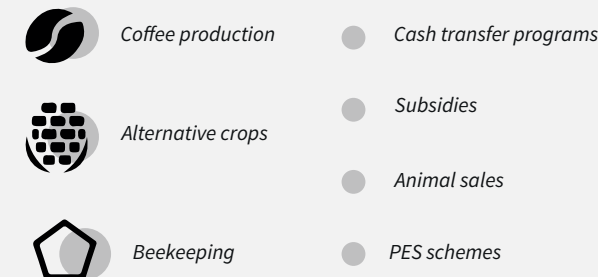
There are around 12.5 million farms mainly dedicated to coffee worldwide (Enveritas & Carto, 2019)



Number of farmers

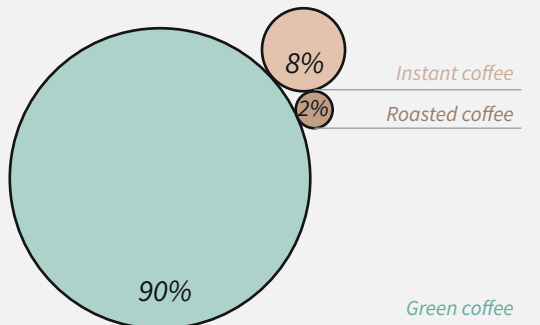


Incomes



Products

Colombia's coffee exports by typology in 2022



Source: Latiendadelcafe

Import and export relation

World's major exporters of coffee in revenue(dollars)

World top exports (2022)

- Brazil: US\$8.5 billion (18.4% of total coffee exports)
- Colombia: \$4.1 billion (8.8%)
- Switzerland: \$3.4 billion (7.4%)
- Germany: \$3.39 billion (7.3%)
- Vietnam: \$3.23 billion (7%)
- Italy: \$2.4 billion (5.1%)

Exported coffee sacks (2022)



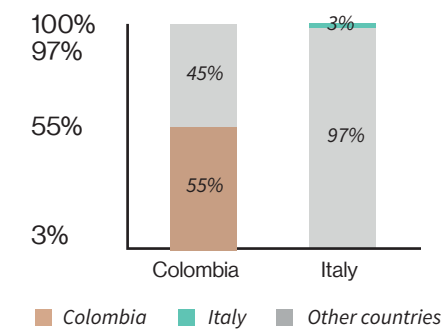
Importing coffee value (2022)



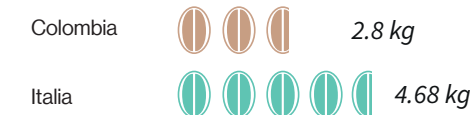
Coffee Geography Magazine (2023)

Consumed coffee

Origin of consumed coffee

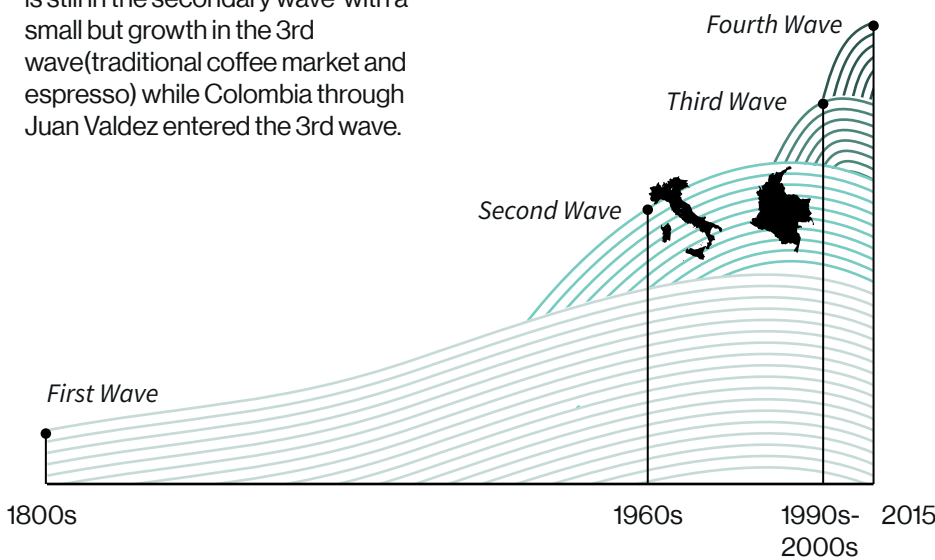


Consumption per capita



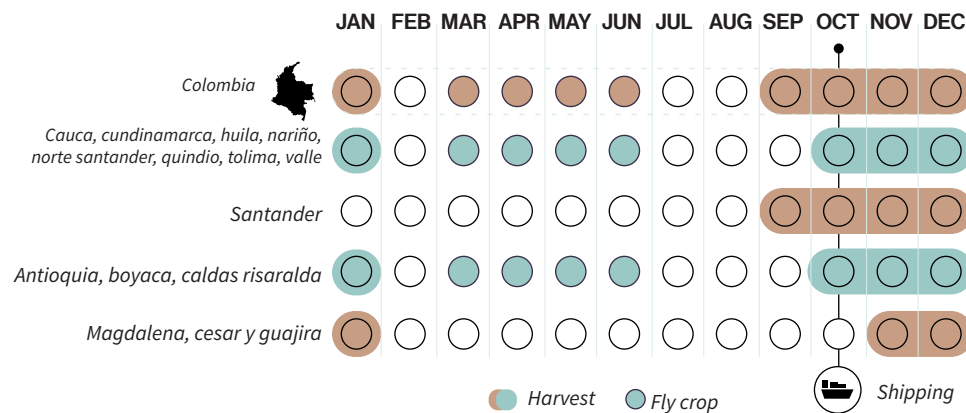
Coffee waves

The coffee evolution has been characterized in four waves, and Italy is still in the secondary wave with a small but growth in the 3rd wave(traditional coffee market and espresso) while Colombia through Juan Valdez entered the 3rd wave.



Calendar for harvesting

Colombia's diverse morfology extends the range for the harvesting, having in general 5 months of harvest and 4 of fly crops



Source from: Trabocca.com

Coffee productive process

Price distribution

Per 1 lb of organic coffee
Thurston, R (2013)

Stakeholder

Inputs

Supply chain

Subactivities

Material flow

Outputs

Impacts

★ Agricultural system

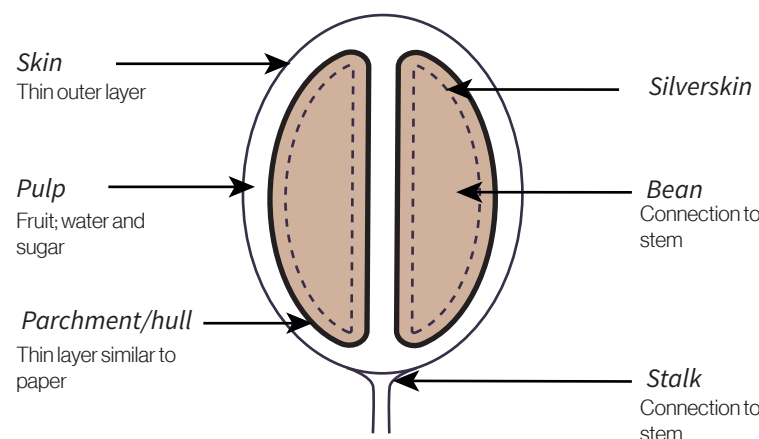
There are two predominant agricultural systems for planting and harvesting coffee, sun grown and shade grown in Colombia



Source from: Café de Colombia & Colombian coffee hub

Coffee cherry's anatomy

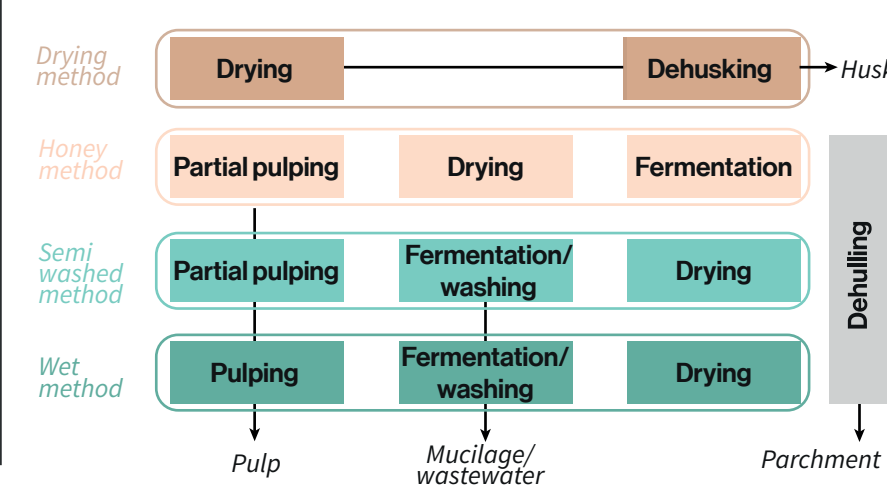
Components of the coffee cherry



https://www.semanticscholar.org/reader/7f89296b961fc33c540b12b2c152a26f222e0206

• Processing types

Most used processing methods for the coffee cherry



▲ Environmental impacts

Environmental impacts in the ground coffee production

