



## **SECTOR SERIES #6 - SOYBEAN**

**FACT SHEET** 



Soybean (Glycine max) is considered initially from China







365 mio ton in 2021



Global Demand 364 mio ton in 2021

**SOYBEAN PLANT ANATOMY** 

Source: Our World in Data, 2023 | MacroMicro, n.d.

## **Good Agriculture Practices**

Soybeans thrive in dry and swampy areas, preferring flat to undulating terrain with monthly precipitation of 100 mm to 400 mm, ideally below 600 m in elevation.



The population ranges from 350,000 to 500,000 plants/ha



Fertilizer dosage:



Seed is the most used planting material.

> 50 -75 kg of SP-36/ha

50-100 kg

Common pest & disease (P&D):

Aphis glycines Whitefly (Bermisia tebaci) Leaf beetle (Phaedonia inclusa) Gram pod borer (Herlicorva spp.) **Fusarium** Soybean cyst nematode

Common weeds:

Common cocklebur (Xanthium pensylvanicum) Giant foxtail (Setaria faberii) Lamb squatters (Chenopodium album) Amaranthus spinosus

P&D and weeds are controlled by pesticides, herbicides, and biological control methods (natural enemies).

Soybean can be harvested 70 to 90 days after planting.

**Potential** maximum yield: up to 6.7 tonnes of dry beans/ha



Average global yield: 1.1 – 2.8 tonnes of dry beans/ha



Soybean Oil Soy based-Lubricants

## **Current Issues**



The European Union Deforestation-Free Regulation (EUDR) mandates that all products made from soybeans entering or produced within the EU must be verifiably free of deforestation and degradation, effective December 31, 2024\*

\*The European Commission has proposed a one-year delay to the implementation of the EUDR, but the decision is still under review

The expansion of soybean plantations often involves converting forests into agricultural land, leading to biodiversity loss and ecosystem disruption.



**Prolerra** 



Soybean certification is vital for sustainable

soya production, with

options like RTRS, CRS,

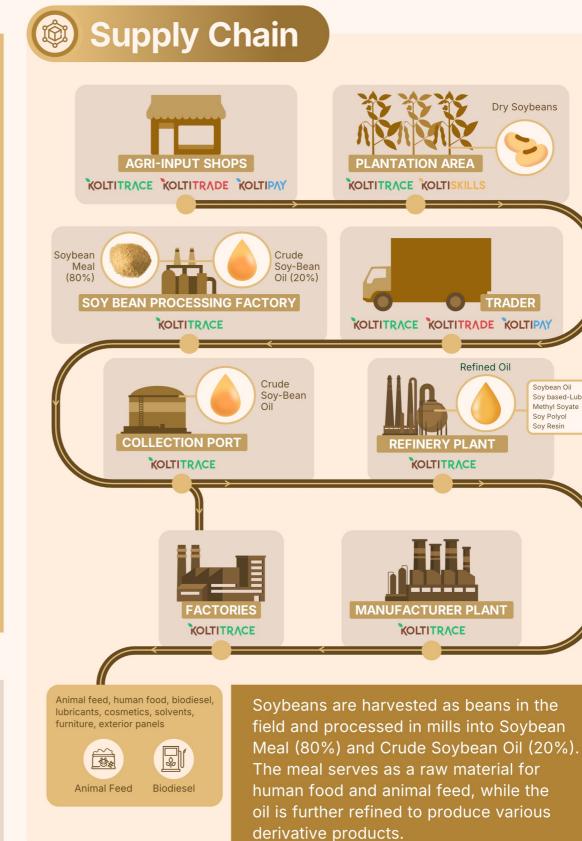
ProTerra, RA, Organic,

Fair Trade,

and ISCC.



## Rising temperatures, erratic The increasing rainfall patterns, and increased demand for sustainable pests and diseases due to soybeans highlights the climate change impact necessity of traceability soybean production systems. in soybean products. Soybeans significantly contribute to greenhouse gas emissions in the global $CO_2$ food system, releasing 4.25 kg CO2e per kilogram of refined oil-more than other vegetable oils. Certification



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