



🏠 Locality: MACHADO-MG / CAMPESTRE-MG
📅 Data: 30/04/2024
👤 Coffee farmer: Agro Fonte Alta (Mantissa)

MANTISSA, FONTE ALTA and SUBASIO ESTATE

VISIT REPORT

The farms are in the municipalities of Campestre-MG and Machado-MG, cities in the Southern region of Minas Gerais, globally renowned to produce specialty coffees. Both belong to the Fonte Alta Group, which began its journey in 2009 with the dream of planting, cultivating, harvesting, and commercializing a coffee that stands out for its quality. Over the years, the company has specialized in producing fine and specialty coffees through continuous research and process development.



All the beans come from three properties, two farms located in the city of Campestre and one in Machado at approximately 1,280 meters above sea level. The region is characterized by daytime heat and nighttime cold, which concentrates sugars in the beans. Additionally, the coffee is 100% arabica and has controlled origins. The coffee fields are interspersed with strips of Atlantic Forest, with fertile and clayey soil.

Fazenda Subasio is located amidst beautiful mountains in the municipality of Machado-MG, Southern Minas Gerais, at altitudes ranging from 1120 to 1220m, and produces the following varieties: Yellow Bourbon, Mundo Novo, Yellow Catuaí, and Yellow Catucaí. It has a total area of 306



🏠 Locality: MACHADO-MG / CAMPESTRE-MG
📅 Data: 30/04/2024
👤 Coffee farmer: Agro Fonte Alta (Mantissa)

MANTISSA, FONTE ALTA and SUBASIO ESTATE

hectares, with 203 hectares in crops, 21 hectares in permanent preservation areas (APPs), and 70 hectares in forest reserves.

Currently, they have three certifications in coffee production: Rainforest Alliance, Certifica Minas Café, and BSCA. Their current average productivity revolves around 32 bags per hectare. The farm's strategy involves planting cultivars with moderate tolerance to coffee leaf rust, which is an excellent strategy for disease control and minimizes the use of agricultural chemicals. They also employ Integrated Pest and Disease Management, with constant monitoring of plots. Currently, they benefit from technical support from renowned consultant Guy Carvalho.

During our visit to the fields, we observed good health and adequate nutrition. Annual leaf and soil analysis are conducted, weed control is carried out through mechanized mowing and chemical herbicides. Organic fertilizers are supplied by returning coffee husks to the fields and occasionally using organomineral fertilizers. Since the planting of the crops, they have also opted for cultivars that improve beverage quality, productivity, and disease resistance/tolerance. This practice optimizes land and resource use while reducing chemical inputs, leading to greater profitability in the same area and minimizing the need for opening new areas, which can be directed towards conserving fauna, flora, water, and soil.

Among the highlighted positive points is the organization and care in coffee post-harvesting, prioritizing the cleaning of structures and equipment, as well as daily traceability of coffee lots, with volumes separated by crop each day.

In terms of the environment, they prioritize protecting springs through conservation and tree planting around them, soil and water conservation through wells, and soil protection through plants in the inter-rows. Additionally, coffee was planted respecting the terrain level. They maintain a list of endangered species on the farm, demonstrating care, respect for nature, and the importance of preservation.

There is also constant presence of a workplace safety technician and dedicated employees to meet certification requirements.

In conclusion, among the various attributes required in the sustainability report, it can be considered satisfactory, as a large part is met, always requiring attention and adaptation to the



🏠 Locality: MACHADO-MG / CAMPESTRE-MG
📅 Data: 30/04/2024
👤 Coffee farmer: Agro Fonte Alta (Mantissa)

MANTISSA, FONTE ALTA and SUBASIO ESTATE

constant changes in the technical, environmental, and social aspects of agriculture in our country. Below are points to be observed and actions to be taken:

1. ENVIRONMENTAL PILLAR



Use of windbreaks: Although there are trees nearby, it is recommended that windbreaks be included when renewing coffee crops; This measure reduces the impact of winds on coffee plant leaves; Reduces the impact of hail rain; Reduces fungal diseases, which have higher infestation due to leaf injuries; Increases producer revenue through the intercropping of coffee with crops such as avocado and banana. These two fruit trees are excellent windbreaks, already used.

Use of organomineral fertilizers: Although they return coffee husks to the fields and occasionally use organo-minerals, we recommend adopting their use frequently, as they promote greater sustainability in agricultural production, as their use reduces the use of chemical fertilizers by up to 30%. Additionally, they contribute to carbon replenishment, with a cumulative effect over the years where the farmer adds this carbon to the soil, which also improves fertility levels and the presence of beneficial microorganisms.

Use of biological products: Implement the biological products project, increasingly inserting different products, such as bioinsecticides, bionematicides, and phosphorus solubilizers. The use of biological products in agriculture contributes to the balance of agricultural systems and provides, for example, the preservation of insects of interest, such as natural enemies of pests and bees - currently threatened in various regions of the planet.





 Locality: MACHADO-MG / CAMPESTRE-MG
 Data: 30/04/2024
 Coffee farmer: Agro Fonte Alta (Mantissa)


MANTISSA, FONTE ALTA and SUBASIO ESTATE

Below are some images that highlight our visit.

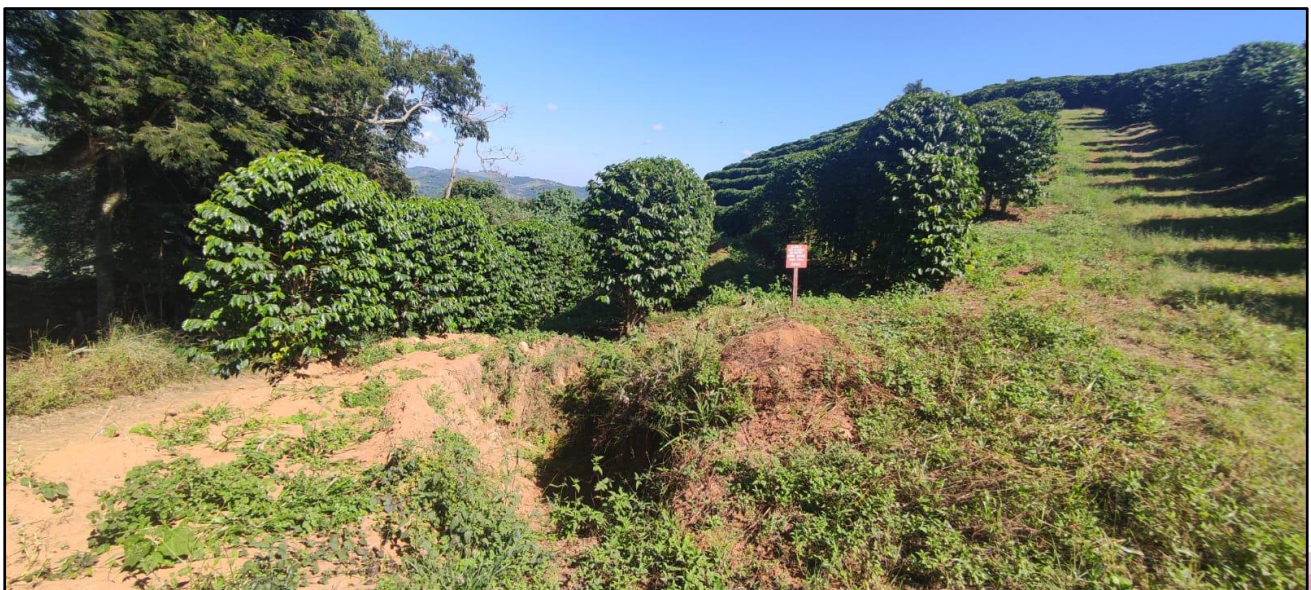
Biodiversity and Conservation

Animais em extinção nas Regiões das fazenda

Agro Fonte Alta		
Nome Popular	Espécies	Ordem
Logo guará	Canis jubatus	Carnívoros
Azulão	Cyanoloxia brissonii	Passeriformes
Lontra	L. neotropical	Carnívora
Perereca hilldeos	Pithecopus ayeaye	Anfibios
Arara-canindé	A. ararauna	Pittaciformes
Mantissa		
Nome Popular	Espécie	Ordem
Bugios	Simia belzebul	Primates
Lebre	Lepus	Lagomorfos
Quatis	Nasua	Carnívora
Jaguatirica	L. pardalis	Carnívora
Lontra	Lontra neotropical	Carnívora
Sabiá	T. amaurochalinus	Passeriformes
Subasio		
Nome Popular	Espécie	Ordem
Beija-flor-de-gravata Verde	Augastes scutatus	Apodiformes
Lontra	Lontra-neotropical	Carnívora
Corujas	Strigiformes	Saurischia
Tucano do bico verde	R. dicolorus	Piciformes
Tamanduá bandeira	M. tridactyla	Pilosa



Soil and Nutrient Management

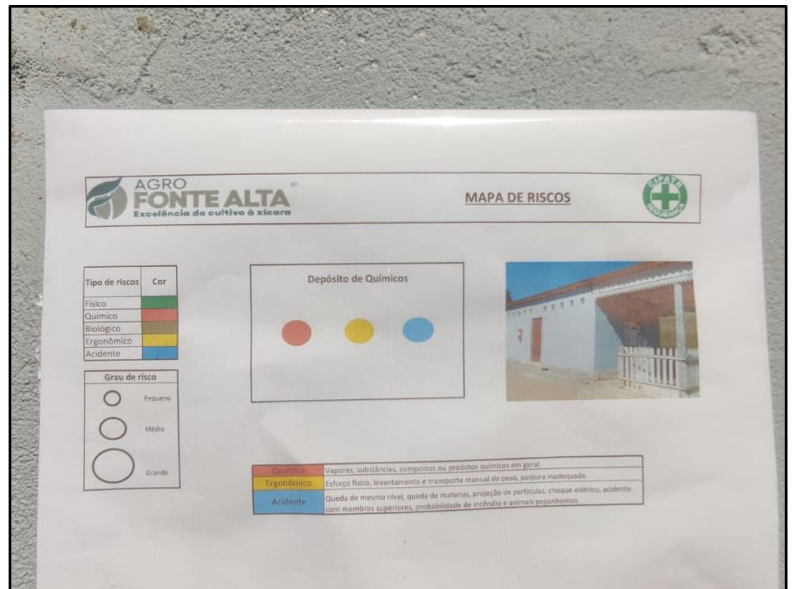




🏠 Locality: MACHADO-MG / CAMPESTRE-MG
📅 Data: 30/04/2024
👤 Coffee farmer: Agro Fonte Alta (Mantissa)

MANTISSA, FONTE ALTA and SUBASIO ESTATE

Crop Protection Agrochemicals





🏠 Locality: MACHADO-MG / CAMPESTRE-MG
📅 Data: 30/04/2024
👤 Coffee farmer: Agro Fonte Alta (Mantissa)

MANTISSA, FONTE ALTA and SUBASIO ESTATE





🏠 Locality: MACHADO-MG / CAMPESTRE-MG
📅 Data: 30/04/2024
👤 Coffee farmer: Agro Fonte Alta (Mantissa)

MANTISSA, FONTE ALTA and SUBASIO ESTATE

Health, Well-being, and Safety





🏠 Locality: MACHADO-MG / CAMPESTRE-MG
📅 Data: 30/04/2024
👤 Coffee farmer: Agro Fonte Alta (Mantissa)

MANTISSA, FONTE ALTA and SUBASIO ESTATE

Other visit photos





🏠 Locality: MACHADO-MG / CAMPESTRE-MG
📅 Data: 30/04/2024
👤 Coffee farmer: Agro Fonte Alta (Mantissa)

MANTISSA, FONTE ALTA and SUBASIO ESTATE





🏠 Locality: MACHADO-MG / CAMPESTRE-MG
📅 Data: 30/04/2024
👤 Coffee farmer: Agro Fonte Alta (Mantissa)

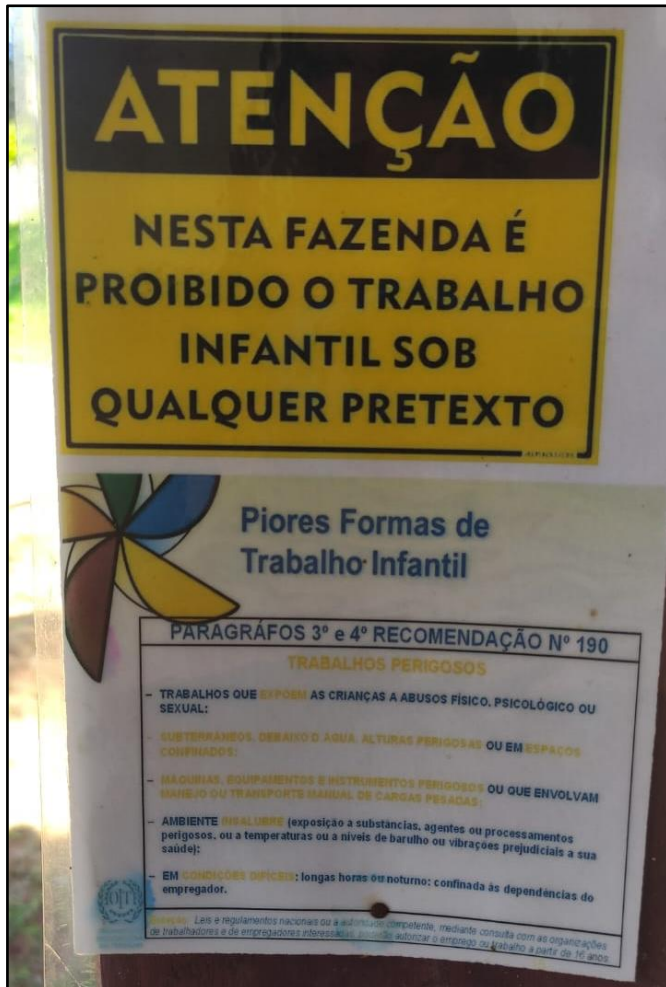
MANTISSA, FONTE ALTA and SUBASIO ESTATE





🏠 Locality: MACHADO-MG / CAMPESTRE-MG
📅 Data: 30/04/2024
☕ Coffee farmer: Agro Fonte Alta (Mantissa)

MANTISSA, FONTE ALTA and SUBASIO ESTATE





🏠 Locality: MACHADO-MG / CAMPESTRE-MG
📅 Data: 30/04/2024
👤 Coffee farmer: Agro Fonte Alta (Mantissa)

MANTISSA, FONTE ALTA and SUBASIO ESTATE





🏠 Locality: MACHADO-MG / CAMPESTRE-MG
📅 Data: 30/04/2024
👤 Coffee farmer: Agro Fonte Alta (Mantissa)

MANTISSA, FONTE ALTA and SUBASIO ESTATE



Flávio Meneses Soares
Responsible Agronomist Engineer
CREA: 14946D