



Hope



COFFEE



INFORMATIONS TECHNIQUES:

Common name:	Coffee
Scientific name:	<i>Coffea Arabica</i>
Family:	Rubiaceae
Genetic group:	Arabica, Caturra group
Variety:	Hope
Category:	Caturra
Height:	1.5 - 2 m
Production cycle:	
Susceptibility:	Coffee rust (<i>Hemileia vastatrix</i>), coffee nematode (<i>Meloidogyne exigua</i>)
Resistance/Tolerance:	Good resistance to harsh climatic conditions and bacterial diseases.
Average yield:	3 - 4 t/ha
Elevation:	600 - 1.800 MASL
Optimal temperature:	18° C - 24° C
Ripening season:	200 - 300 days from flowering
Additional information:	Esperanza coffee is known for its resistance to diseases and harsh climatic conditions, making it a robust variety for various regions. It is also appreciated for its smooth and balanced flavor, making it an excellent choice for quality coffee producers



Qualities of the grain:

Color:	Bright red
Acidity:	Medium
Flavor:	Smooth, pleasant, and slightly sweet
Brix degrees:	18° - 20°
Grain size:	Medium-sized beans



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Pollination:	Self-pollination
Self-compatibility:	Compatibility
Care:	Esperanza coffee requires well-drained, organic-rich soil. It is important to protect it from frost and water it regularly, without overwatering
Soil:	The soil for Esperanza coffee should be well-drained, slightly acidic, with a pH between 6 and 6.5, and rich in organic matter
Sprout Color:	Green
Preferred Climate:	Tropical, subtropical
Quality in Altitude:	Good (balanced, smooth, fruity and sweet notes)
Nutritional Requirements:	It requires adequate levels of nitrogen and potassium for optimal yield
History:	Esperanza coffee was developed to offer a variety resistant to diseases and adaptable to various climatic conditions. Its origin comes from selection programs aimed at improving the quality and productivity of arabica coffee



***Morphology:** Remontants: Produce fruit all year, on new shoots of the same year. **Non-remontant:** They fruit only once a year, in summer-autumn, on stems of the previous year.

***Pollination:** By biotic agents, it is the result of the transfer of pollen by living beings from one flower to another. Biotic agents: are physical elements that transport pollen from one flower to another, such as wind or water. **Self-pollination:** Pollen is transferred from the stamens to the stigma of the same flower, common in plants with closed flowers or that bloom is unfavorable times for pollinators. **Cross-pollination:** When pollen is transferred from the stamens to the stigmas of a different individual of the same species. It increases genetic variability and reduces the possibility of self-fertilization. **Autogamy:** also known as self-fertilization, is a process of sexual reproduction in plants where the fusion of male (pollen) and female (ovules) gametes occurs within the same flower or within the same plant individual. **Hercogamy:** In hercogamous plants, the male and female reproductive organs are physically separated, which prevents self-pollen from reaching the stigma. However, environmental factors or changes in plant morphology can bring these organs into contact, facilitating self-pollination.

***Self-compatibility:** The fusion of male and female gametes from the same flower or different plant individual, involving pollen transfer between different plants, allows them to reproduce sexually without the need for suitable pollinators or favorable environmental conditions. Many plants have self-incompatibility systems that prevent self-fertilization by recognizing and rejecting pollen from the same plant or closely related individuals.



Note: The data and results presented in these data sheets are for reference only. They were obtained under ideal and controlled conditions that are not always replicated in the real world. Plants are living beings, and their development depends on many factors. Therefore, GreenLab cannot guarantee that you will get the same results as shown, even if you follow the directions to the letter. Schedule an appointment with our GreenLab sales team. We can help you evaluate whether the variety you are interested in is right for your project. At GreenLab we want you to succeed in your production and that's why we provide you with all the information and support you need, so you can bet on high quality seedlings with GreenLab!



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