



# COFFEE VARIETIES

## of Mesoamerica and the Caribbean



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## **Perú**

Junta Nacional de Café (JNC)

# ABOUT THE CATALOG

Information is power. This catalog brings urgently needed information to coffee farmers to help them decide which coffee is best for their situation. Coffee producers who make good planting decisions are at much less risk from disease or pests. Choosing the right type of coffee also has consequences for quality in the cup. Planting coffee that is well-adapted to the local environment is one critical factor in ensuring the highest possible quality.

The coffee leaf rust crisis of 2012 affected nearly 600,000 thousand acres of Central American coffee farmland. Nearly 300,000 coffee farmers need to replant coffee because of it. To make the best possible decision about what kind of coffee to plant on a farm, producers need to know which varieties will be best adapted to their locations and farming approaches.

Because the life of a coffee tree is 20-30 years, the decision producers make about which variety to plant will have consequences until the next generation. The lack of a comprehensive, up-to-date coffee catalog puts farmers at risk.

World Coffee Research, with support from USAID and PROMECAFE, has created this catalog of *Coffea arabica* coffees for Central America, Mexico, Peru, the Dominican Republic, and Jamaica. The catalog gathers in one place the essential information on 33 major cultivars in the region.

This catalog was developed in consultation with coffee experts from across Central America. It is the result of visits to each of the eight PROMECAFE countries and the interviews of nearly 120 people from some 70 private and public bodies involved in their national or regional coffee sectors.

Major funding for this project was provided by USAID.

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Photo credits: David Laughlin, Thompson Owen, Christophe Montagnon, Benoit Bertrand.

# USING THE CATALOG

This catalog aims to present information for coffee producers and anyone working with coffee plants about how different varieties can be expected to perform under ideal conditions.

Of course, coffee is not always grown under ideal conditions. Factors such as environment, altitude, soil nutrition, weather, the age of the tree, and farm management practices can significantly affect a coffee's yield, quality, and health.

Because of this, it is impossible to give absolute data about certain aspects of a variety's performance (for example, cup quality or yield). In those cases, we use Caturra, a common variety across Central America, as a reference. If a farmer knows how Caturra would perform on their farm, given their particular climate, soil, and farm practices, they should be able to measure the relative performance of other varieties against that knowledge.

The intention of this catalog is that those working with coffee should be able to make informed decisions about which variety will work best for their situation and needs.

## VARIABLES

### Quality Potential at High Altitude (>1200m)

What is the potential for quality of this variety when grown at higher altitudes?

Very Low, Low, Good, Very Good, Exceptional



### Yield Potential

How much fruit will the coffee tree produce, as compared with Caturra?

Low, Medium, Caturra-like, High, Very high



### Stature

What is the growth habit of the plant (e.g., is the plant tall or dwarf)?



## Optimal Altitude

What is the altitude at which quality and agronomic performance potential is maximized? This especially takes into account the variety's expected cup quality and tolerance of coffee leaf rust. During the Central American leaf rust outbreak of 2012, the disease began showing up at higher altitudes than had previously been observed. Suggested altitudes for most leaf-rust-susceptible varieties have therefore been revised higher.

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## Coffee Leaf Rust

Is the plant susceptible to leaf rust?

Resistant, tolerant, susceptible



*Coffee rust is a foliar disease of coffee caused by the fungus Hemileia vastatrix that cause defoliation and may result in severe crop losses.*

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## CBD (Coffee Berry Disease)

Is the plant susceptible to CBD?

Resistant, tolerant, susceptible



*CBD is a coffee disease that affects the fruit. It is caused by the fungus Colletotrichum kahawae. Currently, CBD is not present in Central America. However, it is included here because it will be important for farmers to have should the disease spread to the region.*

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## Nematodes (*Meloidogyne spp.* or *Pratylenchus spp.*)

Is the plant susceptible to nematodes (specifically the species Meloidogyne and/or Pratylenchus)?

Resistant, tolerant, susceptible



*Nematodes are microscopic animals which infect the plant roots and can cause wilting and death of the plant.*

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## Bean Size

How big are the coffee beans, as compared with Caturra?

Small, Average (=Caturra), Large, Very Large



## Leaf Tip Color

What color are the tips of new leaves?

Green, Light Bronze, Bronze, Dark Bronze, Green or Bronze



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## **Year of First Production**

When will the tree produce its first fruit, as compared with Caturra?

Early, Average (=Caturra), Late

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## **Nutrition Requirement**

How much nutrition (e.g., compost, fertilizer) does this plant require?

Low, Medium, High, Very High

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## **Ripening of Fruit**

At what time in the harvest season will the tree fruit ripen, as compared with Caturra?

Early, Average (=Caturra), Late, Very late

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## **Cherry to Green Bean Ratio (*Outturn*)**

What is the size of the bean in relation to the fruit, as compared with Caturra?

Low, Average (=Caturra), High, Very High

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## **Planting Density**

What spacing should you use for planting this variety?

Bourbon-like (3000-4000 a/ha), F1 hybrid-like (4000-5000 a/ha), Caturra-like (5000-6000 a/ha)

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## **Intellectual Property Rights**

Is the variety registered in the international database of varieties, called the International Union for the Protection of New Varieties of Plants (UPOV), or in the public domain?

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## **Breeder**

If the variety was created by a breeder, what is the name of the breeder?

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## **Genetic Group**

Traditional American (descendant from Typica or Bourbon), Ethiopian landrace, Introgressed (Catimor/Sarchimor), F1 hybrid

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## **Parentage**

What are the parents of this variety (when known)?

# ABOUT COFFEE VARIETIES

*C. arabica* is one of two species of coffee plants that are in wide cultivation globally. (The other is *C. canephora*, commonly called Robusta.) Arabica is by far the dominant species in Central America, and is considered to produce the highest cup quality. The Arabica species is made up of many varieties or cultivars—distinct types that are able to sexually reproduce with one another.

To be considered a distinct Arabica variety for inclusion in this catalog, varieties must meet the following standards (based on the definition of a variety as given by the International Union for the Protection of New Varieties of Plants (UPOV)):

- **The variety is homogenous.** It can be precisely described by a set of characteristics and all the plants of this type look the same.
- **The variety is different.** It is distinguishable from other varieties based on the above set of characteristics.
- **The variety is stable.** The variety can be reproduced in such a manner that its characteristics are unchanged in the next generation.

Most commonly known varieties meet the above criteria. However, some do not. For example, Catimor and Sarchimor are not distinct varieties according to this definition (see below). Three coffees included in this catalog—T5175, T5296, and Pacamara—do not meet the above definition because they are neither uniform nor stable from one generation to the next. They are included here because they are commonly known to farmers and grown widely in the region, but it's important to know they lack uniformity and stability and therefore do not meet the definition of variety laid out here.

## Main Types

### Traditional American

These are varieties that originate from Typica or Bourbon parentage (Typica and Bourbon are two distinct varieties within the Arabica species). *Coffea arabica* is native of Ethiopia, where the major genetic diversity of the species is found. In the 15th and 16th century, coffee trees were introduced from Ethiopia to Yemen. Then, in the early 18th century, a few seeds or trees were introduced from Yemen to Java, which gave rise to the “Typica” lineage (also called Arabigo or Indio). Typica plants reached the Caribbean and then spread across the American continent during the 18th century. Seeds were also introduced from Yemen to the island of Bourbon, which gave rise to the “Bourbon” lineage. The first Bourbon plants reached the American continent through Brazil after 1850. They are associated with standard or high cup quality, but are susceptible to the major coffee diseases.

### Ethiopian Landrace

These are varieties that evolved in the forests of Ethiopia, where *C. arabica* originated, through a process of human-led domestication. They are generally associated with very high cup quality, but are susceptible to the major coffee diseases.

### Introgessed (Catimor/Sarchimor)

Introgressed varieties are those that possess some genetic traits from another species—in this case, *C. canephora* or Robusta. (“Introgressed” means “brought over.”) In the 1920s, a *C. arabica* and a *C. robusta* plant on the island of East Timor sexually reproduced to create a new coffee now known as the Timor Hybrid. This Arabica variety contains Robusta genetic material that allowed the plant to resist coffee leaf rust. Coffee experts realized the value of this disease resistance and began using the Timor Hybrid in experiments to create new varieties that could resist leaf rust. They selected many different “lines” of Timor Hybrid, and then crossed them with the high-yielding, dwarf Arabica varieties Caturra and Villa Sarchi. These crosses

(Timor Hybrid x Caturra, and Timor Hybrid x Villa Sarchi) led to the creation of the two main groups of introgressed Arabica varieties: Catimors and Sarchimors. It's important to note that, contrary to common belief, neither Catimors nor Sarchimors are themselves distinct varieties. Instead, they are groups of many different distinct varieties with similar parentage. Many of those varieties are covered in this catalog. These varieties have traditionally been associated with lower cup quality than others, but they have been essential for coffee farmers in the region for whom coffee leaf rust is a major threat.

## F1 Hybrid

Hybrids generally are offspring resulting from the breeding of two genetically distinct individuals. For the purposes of this catalog, "hybrids" refers to F1 hybrids, a new group of varieties created by crossing genetically distinct Arabica parents and using the first-generation offspring. Many of these relatively new varieties were created to combine the best characteristics of the two parents, including high cup quality, high yield, and disease resistance. F1 hybrids are notable because they tend to have significantly higher production than non-hybrids.

*An important note about F1 hybrids:* Seeds taken from F1 hybrid plants will not have the same characteristics as the parent plants. This is called "segregation." It means that the child plant will not look or behave the same as the parent, with potential losses of yield, disease resistance, quality, or other agronomic performance traits. The variety should only be reproduced through clonal propagation. It is therefore important for farmers to know that F1 hybrids seedlings should be purchased from trusted nurseries.

# OBTAINING THE RIGHT PLANTS

Finding the right type of coffee is a critical first step. But it is also crucial to make sure that when a producer is buying seeds or seedlings, they are getting what they paid for: a healthy plant that is the correct type. A plant that isn't healthy is not a good plant. Some plants can look healthy at a young age, but have hidden problems, like bent roots, that prevent the buyer from achieving economic success with it.

## The WCR Verified Program: How it Works

In order to ensure that producers have access to genetically pure, disease-free, vigorous seeds and plants that conform to the variety standard, WCR began a program of seed and nursery verification in 2016.

Through the program, WCR verifies the health and genetic purity of seed lots at participating nurseries.

World Coffee Research Verified nurseries are evaluated on the following criteria:

- Good nursery practices are followed to ensure healthy plants
- Nursery is aware of the different agronomic performance of different coffees and this information is made available to farmers, e.g., through a coffee catalog like this one, so that they can make informed choices
- Verified seedlings or seeds are genetically pure and conform to the variety standard as checked through WCR's DNA fingerprinting technology
- Breeders (if there are any) of the coffee can be named and their rights (if any) are respected

## Become a Verified Nursery

If you operate a nursery and would like to sell WCR Verified planting material, please contact us at [info@worldcoffeeresearch.org](mailto:info@worldcoffeeresearch.org).

## Where to Get Verified Varieties

For up-to-date information on whether it's possible to obtain a variety through the World Coffee Research Verified program, please visit our website: [varieties.worldcoffeeresearch.org](http://varieties.worldcoffeeresearch.org).

# World Coffee Research Verified

Ensuring healthy, genetically pure plants



A World Coffee Research Verified coffee plant is healthy and genetically pure. The Verified program helps coffee farmers make informed decisions about which plants are best for them, so they can lower their risk and grow a healthy and sustainable crop. Verified plants can only be sold at nurseries that follow the four pillars of our program.



## Nursery Standards

The nursery follows best practices for raising healthy, disease-free plants.



## Genetic Purity

The coffee variety has been identified using World Coffee Resources DNA fingerprinting so farmers can be certain they are buying the correct variety.



## Education

The nursery makes information about the agronomic performance of different varieties available to farmers so they can make an informed choice.



## Breeder's Rights

The nursery gives credit to breeders and their rights are respected.

## CHOOSING THE RIGHT VARIETY BASED ON ALTITUDE

600-800m	800-1000m	1000-1200m	1200-1300m	1300-1500m	>1500m
T5175, IHCAFE 90					
T5296					
	Costa Rica 95, Catisic, Lempira, Obata, Marellesa, Cuscatleco, Parainema, IAPAR 59, Limani, Oro Azteca				
	Centroamericano, Milenio, Mundo Maya				
	Venecia				
			Java, Geisha, H3, Casiopea, Evaluna, Nayarita		
				Bourbon, Tekisic, Caturra, Villa Sarchí, Pacas, Pacamara, Tipica, Catuai, Magarogipe	

# CHOOSING THE RIGHT VARIETY BASED ON AGRONOMIC PERFORMANCE

	<b>Tall variety</b>	<b>Dwarf variety</b>
<b>Highest quality potential</b> Very good or exceptional or above if grown at 1200 meters or above	Bourbon Tekisic Typica Java Geisha Maragogipe	Pacamara Centroamericano Milenio Mundo Maya H3 Casiopea Evaluna Nayarita
<b>Highest yielding potential</b> High or very high		Obata Marsellesa Catisic Costa Rica 95 Lempira Oro Azteca T5175 IHCAFE 90 Casiopea Centroamericano Evaluna H3 Millenio Mundo Maya Nayarita
<b>Resistant to coffee leaf rust</b>		Oro Azteca CR 95 Catisic Lempira T5175 IHCAFE 90 Obata T5296 Marsellesa Cuscatleco Parainema IAPAR 59 Limani Centroamericano Milenio Mundo Maya
<b>Tolerant to CBD</b>	Java	Marsellesa Cuscatleco Parainema Centroamericano Milenio Mundo Maya
<b>Resistant to nematodes</b> Nemaya rootstock is highly resistant to nematodes. Any variety can be grafted onto Nemaya.		Cuscatleco Parainema IAPAR 59
<b>Good for smallholder farmers</b> Low nutrition requirement	Java Magarogipe	

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## BOURBON

One of the most culturally and genetically important *C. arabica* varieties in the world, known for excellent quality in the cup at the highest altitudes.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Very Good



### YIELD POTENTIAL

Medium



### STATURE

Tall



### OPTIMAL ALTITUDE

>1300 meters

### COFFEE LEAF RUST

Susceptible



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Susceptible



### YEAR OF FIRST PRODUCTION

Late

### NUTRITION REQUIREMENT

Medium

### BEAN SIZE

Average



### LEAF TIP COLOR

Green



RIPENING OF FRUIT	Early
CHERRY-TO-GREEN-BEAN OUTTURN	Average
PLANTING DENSITY	3000-4000 a/ha
ADDITIONAL AGRONOMIC INFORMATION	

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	None
GENETIC DESCRIPTION	Americana Tradicional/Borbón-relacionada
PARENTAGE	

### WHERE TO FIND

For up-to-date information on whether it's possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/bourbon>

### UPDATED

Jun 09, 2016



## CATURRA

A compact plant with good yielding potential of standard quality in Central America. Very high susceptibility to coffee leaf rust.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Good



### YIELD POTENTIAL

Caturra-like



### STATURE

Dwarf



### OPTIMAL ALTITUDE

>1300 meters

### COFFEE LEAF RUST

Susceptible



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Susceptible



### YEAR OF FIRST PRODUCTION

Average

### NUTRITION REQUIREMENT

High

### BEAN SIZE

Average



### LEAF TIP COLOR

Green



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Average
PLANTING DENSITY	5000-6000 a/ha
ADDITIONAL AGRONOMIC INFORMATION	

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Instituto Agronômico (IAC), Brazil
GENETIC DESCRIPTION	Traditional American/Bourbon-related
PARENTAGE	Natural mutation of the Bourbon variety

### WHERE TO FIND

For up-to-date information on whether it's possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/caturra>

### UPDATED

Jun 07, 2016

# PACAS

Standard quality in Central America. Very high susceptibility to coffee leaf rust.

## QUALITY POTENTIAL AT HIGH ALTITUDES

Good



## YIELD POTENTIAL

Caturra-like



## STATURE

Dwarf



## OPTIMAL ALTITUDE

>1300 meters

## COFFEE LEAF RUST

Susceptible

## NUTRITION REQUIREMENT

Medium



## NEMATODES

Susceptible

## BEAN SIZE

Average



## COFFEE BERRY DISEASE (CBD)

Susceptible

## LEAF TIP COLOR

Green



## YEAR OF FIRST PRODUCTION

Average

RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Average
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Instituto Salvadoreño de Investigaciones del Café (ISIC)
GENETIC DESCRIPTION	Traditional American/Bourbon-related
PARENTAGE	A natural mutation of Bourbon.

## WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/pacas>

## UPDATED

Jun 07, 2016



## TEKISIC IMPROVED BOURBON

A variety selected in El Salvador, and known for excellent cup quality in the highest altitudes.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Very Good



### YIELD POTENTIAL

Medium



### STATURE

Tall



### OPTIMAL ALTITUDE

>1300 meters

### COFFEE LEAF RUST

Susceptible



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Susceptible



### YEAR OF FIRST PRODUCTION

Late

### NUTRITION REQUIREMENT

Medium

### BEAN SIZE

Average



### LEAF TIP COLOR

Green



RIPENING OF FRUIT	Early
CHERRY-TO-GREEN-BEAN OUTTURN	Average
PLANTING DENSITY	Bourbon-like (3000-4000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Instituto Salvadoreño de Investigaciones del Café (ISIC)
GENETIC DESCRIPTION	Traditional American/Bourbon-related
PARENTAGE	A selection of the Bourbon variety

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/tekisic>

### UPDATED

Jun 07, 2016

# VENECIA

Very high susceptibility to coffee leaf rust. Well-adapted to rainy zones due to late harvest during dry season.

## QUALITY POTENTIAL AT HIGH ALTITUDES

Good



## YIELD POTENTIAL

Caturra-like



## STATURE

Dwarf



## OPTIMAL ALTITUDE

>800 meters

## COFFEE LEAF RUST

Susceptible



## NEMATODES

Susceptible



## COFFEE BERRY DISEASE (CBD)

Susceptible



## YEAR OF FIRST PRODUCTION

Average

## NUTRITION REQUIREMENT

High

## BEAN SIZE

Large



## LEAF TIP COLOR

Green



RIPENING OF FRUIT	Late
CHERRY-TO-GREEN-BEAN OUTTURN	Average
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Instituto del Café de Costa Rica (ICAFE)
GENETIC DESCRIPTION	Traditional American/Bourbon-related
PARENTAGE	A natural mutation of Bourbon

## WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/venecia>

## UPDATED

Jun 06, 2016



## VILLA SARCHI

Well-adapted to highest altitude conditions and tolerant of strong winds.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Good



### YIELD POTENTIAL

Caturra-like



### STATURE

Dwarf



### OPTIMAL ALTITUDE

>1300 meters

### COFFEE LEAF RUST

Susceptible



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Susceptible



### YEAR OF FIRST PRODUCTION

Average

### NUTRITION REQUIREMENT

High



### BEAN SIZE

Small



### LEAF TIP COLOR

Green



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Average
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Well-adapted to highest altitude conditions and tolerant of strong winds.

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Instituto del Café de Costa Rica (ICAFE)
GENETIC DESCRIPTION	Traditional American/Bourbon-related
PARENTAGE	A natural mutation of Bourbon

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/villa-sarchi>

### UPDATED

Jun 07, 2016



## CATUAI

A compact plant with high yielding potential of standard quality in Central America. Very high susceptibility to coffee leaf rust.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Good



### YIELD POTENTIAL

Caturra-like



### STATURE

Dwarf



### OPTIMAL ALTITUDE

>1300 meters

### COFFEE LEAF RUST

Susceptible



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Susceptible



### YEAR OF FIRST PRODUCTION

Average

### NUTRITION REQUIREMENT

High

### BEAN SIZE

Average



### LEAF TIP COLOR

Green



### RIPENING OF FRUIT

Average

### CHERRY-TO-GREEN-BEAN OUTTURN

Average

### PLANTING DENSITY

Caturra-like (5000-6000 a/ha)

### ADDITIONAL AGRONOMIC INFORMATION

RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Average
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	

### INTELLECTUAL PROPERTY RIGHTS

Public domain

### BREEDER

Instituto Agrônômico (IAC), Brazil

### GENETIC DESCRIPTION

Traditional American/Typica and Bourbon-related

### PARENTAGE

Mundo Novo x Caturra

### WHERE TO FIND

For up-to-date information on whether it's possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/catuai>

### UPDATED

Jun 07, 2016



## PACAMARA

Standard quality in Central America. Very high susceptibility to coffee leaf rust. Variety not homogenous; plants are not stable from one generation to the next.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Very Good



### YIELD POTENTIAL

Caturra-like



### STATURE

Dwarf



### OPTIMAL ALTITUDE

>1300 meters

### COFFEE LEAF RUST

Susceptible



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Susceptible



### YEAR OF FIRST PRODUCTION

Average

### NUTRITION REQUIREMENT

Medium

### BEAN SIZE

Very Large



### LEAF TIP COLOR

Green or Bronze



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Average
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Instituto Salvadoreño de Investigaciones del Café (ISIC)
GENETIC DESCRIPTION	Traditional American (Bourbon and Typica-related)
PARENTAGE	Pacas x Maragogype

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/pacamara>

### UPDATED

Jun 07, 2016

# MARAGOGIPE

Good to very good cup quality in Central America, but highly susceptible to rust. Very low yielding, large leaves and large internodes.

## QUALITY POTENTIAL AT HIGH ALTITUDES

Very Good



## YIELD POTENTIAL

Low



## STATURE

Tall



## OPTIMAL ALTITUDE

>1300 meters

## COFFEE LEAF RUST

Susceptible



## NEMATODES

Susceptible



## COFFEE BERRY DISEASE (CBD)

Susceptible



## YEAR OF FIRST PRODUCTION

Late

## NUTRITION REQUIREMENT

Low

## BEAN SIZE

Very Large



## LEAF TIP COLOR

Bronze



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Very High
PLANTING DENSITY	Bourbon-like (3000-4000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Due to the low productivity of Maragogipe, Pacamara is considered a better option.

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	None.
GENETIC DESCRIPTION	Traditional American/Typica-related
PARENTAGE	A natural mutation of Typica

## WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/magarogipe>

## UPDATED

Jun 06, 2016



## TYPICA

One of the most culturally and genetically important *C. arabica* coffees in the world, with high quality in Central America. Very high susceptibility to coffee leaf rust, well-adapted to the coldest conditions.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Very Good



### YIELD POTENTIAL

Low



### STATURE

Tall



### OPTIMAL ALTITUDE

>1300 meters

### COFFEE LEAF RUST

Susceptible



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Susceptible



### YEAR OF FIRST PRODUCTION

Late

### NUTRITION REQUIREMENT

Medium

### BEAN SIZE

Large



### LEAF TIP COLOR

Bronze



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Average
PLANTING DENSITY	Bourbon-like (3000-4000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	None
GENETIC DESCRIPTION	Traditional American/Typica-related
PARENTAGE	

### WHERE TO FIND

For up-to-date information on whether it's possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/typica>

### UPDATED

Jun 07, 2016



## GEISHA (PANAMA)

Panamanian Geisha has exceptionally high quality at high altitudes. The term "Geisha" is often applied to other coffees that do not share the distinct genetics of Panamanian Geisha.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Exceptional



### YIELD POTENTIAL

Medium



### STATURE

Tall



### OPTIMAL ALTITUDE

>1200 meters

### COFFEE LEAF RUST

Tolerant



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Susceptible



### YEAR OF FIRST PRODUCTION

Late

### NUTRITION REQUIREMENT

Medium

### BEAN SIZE

Average



### LEAF TIP COLOR

Green



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Average
PLANTING DENSITY	Bourbon-like (3000-4000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	None
GENETIC DESCRIPTION	Ethiopian landrace
PARENTAGE	

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/geisha>

### UPDATED

Jun 07, 2016



## JAVA

High quality in Central America. Tolerant to major diseases, with low fertilizer requirement. Good choice for smallholder farmers.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Very Good



### YIELD POTENTIAL

Medium



### STATURE

Tall



### OPTIMAL ALTITUDE

>1200 meters

### COFFEE LEAF RUST

Tolerant



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Tolerant



### NUTRITION REQUIREMENT

Low

### BEAN SIZE

Large



### LEAF TIP COLOR

Bronze



### YEAR OF FIRST PRODUCTION

Average

RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Average
PLANTING DENSITY	Bourbon-like (3000-4000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	None
GENETIC DESCRIPTION	Ethiopian landrace
PARENTAGE	

### WHERE TO FIND

For up-to-date information on whether it's possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/java>

### UPDATED

Jun 07, 2016

# CATISIC CATIMOR

Adapted to warmest zones and acidic soils. High yielding.

QUALITY POTENTIAL AT HIGH ALTITUDES	YIELD POTENTIAL	STATURE	OPTIMAL ALTITUDE
Very Low	High	Dwarf	600–1200 meters
			
COFFEE LEAF RUST	NEMATODES	COFFEE BERRY DISEASE (CBD)	YEAR OF FIRST PRODUCTION
Resistant	Susceptible	Susceptible	Average
			
NUTRITION REQUIREMENT	BEAN SIZE	LEAF TIP COLOR	
High	Average	Bronze	
			

RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Low
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Susceptible to Ojo de Gallo. Adapted to warmest zones and acidic soils.

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Instituto Salvadoreño de Investigaciones del Café (ISIC)
GENETIC DESCRIPTION	Introgressed (Catimor)
PARENTAGE	Timor Hybrid 832/1 x Caturra

## WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/catisic>

## UPDATED

Jun 01, 2016



## COSTA RICA 95 CATIMOR

High yielding variety adapted to warmest zones and acidic soils.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Low



### YIELD POTENTIAL

High



### STATURE

Dwarf



### OPTIMAL ALTITUDE

600–1200 meters

### COFFEE LEAF RUST

Resistant



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Susceptible



### YEAR OF FIRST PRODUCTION

Average

### NUTRITION REQUIREMENT

High



### BEAN SIZE

Average



### LEAF TIP COLOR

Bronze



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Average
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Susceptible to Ojo de Gallo. Recommended for acidic soils and soils rich in aluminum. Recommended for warmest zones.

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Instituto del Café de Costa Rica (ICAFE)
GENETIC DESCRIPTION	Introgressed (Catimor)
PARENTAGE	Timor Hybrid 832/1 x Caturra

### WHERE TO FIND

For up-to-date information on whether it's possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/costa-rica-95>

### UPDATED

Jun 06, 2016



## IHCAFE 90 CATIMOR

High yielding plant adapted to lowest altitudes. Requires high fertilization.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Very Low



### YIELD POTENTIAL

High



### STATURE

Dwarf



### OPTIMAL ALTITUDE

600–1000 meters

### COFFEE LEAF RUST

Resistant



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Susceptible



### YEAR OF FIRST PRODUCTION

Early

### NUTRITION REQUIREMENT

Very High



### BEAN SIZE

Average



### LEAF TIP COLOR

Dark Bronze



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Low
PLANTING DENSITY	F1 hybrid-like (4000-5000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Highly susceptible to Ojo de Gallo

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Instituto Hondureño del Café (IHCAFE)
GENETIC DESCRIPTION	Introgressed (Catimor)
PARENTAGE	Timor Hybrid 832/1 x Caturra

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/ihcafe-90>

### UPDATED

Jun 09, 2016



## LEMPIRA CATIMOR

High yielding variety adapted to warmest zones and acidic soils.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Low



### YIELD POTENTIAL

High



### STATURE

Dwarf



### OPTIMAL ALTITUDE

600–1200 meters

### COFFEE LEAF RUST

Resistant



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Susceptible



### YEAR OF FIRST PRODUCTION

Average

### NUTRITION REQUIREMENT

High

### BEAN SIZE

Average



### LEAF TIP COLOR

Bronze



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Low
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Susceptible to Ojo de Gallo. Recommended for acidic soils and soils rich aluminium. Recommended for warmest zones.

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Instituto Hondureño del Café (IHCAFE)
GENETIC DESCRIPTION	Introgressed (Catimor)
PARENTAGE	Timor Hybrid 832/1 x Caturra

### WHERE TO FIND

For up-to-date information on whether it's possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/lempira>

### UPDATED

Jun 09, 2016

# ORO AZTECA CATIMOR

Adapted to warmest zones and acidic soils. High yielding.

QUALITY POTENTIAL AT HIGH ALTITUDES Good	YIELD POTENTIAL High	STATURE Dwarf	OPTIMAL ALTITUDE 600–1200 meters
			
COFFEE LEAF RUST Resistant	NEMATODES Susceptible	COFFEE BERRY DISEASE (CBD) Susceptible	YEAR OF FIRST PRODUCTION Average
			
NUTRITION REQUIREMENT High	BEAN SIZE Average	LEAF TIP COLOR Green	
			

RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Average
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Susceptible to Ojo de Gallo. Recommended for acidic soils, soils rich in aluminium, and for warmest zones.

INTELLECTUAL PROPERTY RIGHTS	Registered in the <a href="#">International Union for the Protection of New Varieties of Plants (UPOV)</a>
BREEDER	Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias (INIFAP), Mexico
GENETIC DESCRIPTION	Introgressed (Catimor)
PARENTAGE	Timor Hybrid 832/1 x Caturra

## WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/oro-azteca>

## UPDATED

Jun 07, 2016



## T5175 CATIMOR

High yielding plant adapted to lowest altitudes. Requires high fertilization. Variety not homogenous.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Very Low



### YIELD POTENTIAL

High



### STATURE

Dwarf



### OPTIMAL ALTITUDE

600–1000 meters

### COFFEE LEAF RUST

Resistant



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Susceptible

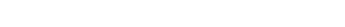


### YEAR OF FIRST PRODUCTION

Early

### NUTRITION REQUIREMENT

Very High



### BEAN SIZE

Average



### LEAF TIP COLOR

Dark Bronze



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Low
PLANTING DENSITY	F1 hybrid-like (4000-5000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Highly susceptible to Ojo de Gallo. T5175 is not homogeneous; plants are not stable from one generation to the next.

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Instituto del Café de Costa Rica (ICAFE)
GENETIC DESCRIPTION	Introgressed (Catimor)
PARENTAGE	Timor Hybrid 832/1 x Caturra

### WHERE TO FIND

For up-to-date information on whether it's possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/t5175>

### UPDATED

Jun 06, 2016



## CUSCATLECO SARCHIMOR

Well-adapted to medium altitudes. Resistant to coffee leaf rust and some nematodes.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Good



### YIELD POTENTIAL

Caturra-like



### STATURE

Dwarf



### OPTIMAL ALTITUDE

600–1200 meters

### COFFEE LEAF RUST

Resistant



### NEMATODES

Resistant



### COFFEE BERRY DISEASE (CBD)

Unknown



### YEAR OF FIRST PRODUCTION

Average

### NUTRITION REQUIREMENT

High



### BEAN SIZE

Large



### LEAF TIP COLOR

Green



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	High
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Nematode resistance: Not resistant to <i>Pratylenchus spp.</i> It is resistant to <i>Meloidogyne exigua</i> .

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Fundación Salvadoreña para Investigaciones del Café (PROCAFÉ)
GENETIC DESCRIPTION	Introgressed (Sarchimor)
PARENTAGE	Selection of T5296

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/cuscatleco>

### UPDATED

Jun 06, 2016

## IAPAR 59 SARCHIMOR

High yielding plant adapted to medium altitudes. Resistant to coffee leaf rust and some nematodes.

QUALITY POTENTIAL AT HIGH ALTITUDES	YIELD POTENTIAL	STATURE	OPTIMAL ALTITUDE
Low	Caturra-like	Dwarf	800–1200 meters
			
COFFEE LEAF RUST	NEMATODES	COFFEE BERRY DISEASE (CBD)	YEAR OF FIRST PRODUCTION
Resistant	Resistant	Susceptible	Average
			
NUTRITION REQUIREMENT	BEAN SIZE	LEAF TIP COLOR	
High	Average		
			

RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	High
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Nematodes: Not resistant to <i>Pratylenchus</i> spp. It is resistant to <i>Meloidogyne exigua</i> .

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Instituto Agronômico do Paraná (IAPAR), Brazil
GENETIC DESCRIPTION	Introgressed (Sarchimor)
PARENTAGE	Timor Hybrid 832/2 x Villa Sarchi

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/iapar-59>

### UPDATED

Jun 06, 2016

## LIMANI SARCHIMOR

Well-adapted to medium altitudes and resistant to coffee leaf rust.

QUALITY POTENTIAL AT HIGH ALTITUDES Good	YIELD POTENTIAL Caturra-like	STATURE Dwarf	OPTIMAL ALTITUDE 600–1200 meters
			
COFFEE LEAF RUST Resistant	NEMATODES Unknown	COFFEE BERRY DISEASE (CBD) Unknown	YEAR OF FIRST PRODUCTION Average
			
NUTRITION REQUIREMENT High	BEAN SIZE Average	LEAF TIP COLOR Unknown	
			

RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	High
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Unknown, in Puerto Rico
GENETIC DESCRIPTION	Introgressed (Sarchimor)
PARENTAGE	Timor Hybrid 832/2 x Villa Sarchi

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/limani>

### UPDATED

Jun 06, 2016



## MARSELLESA SARCHIMOR

High yielding plant adapted to medium altitudes. Notably high acidity in the cup.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Good



### YIELD POTENTIAL

High



### STATURE

Dwarf



### OPTIMAL ALTITUDE

600–1200 meters

### COFFEE LEAF RUST

Resistant



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Tolerant



### YEAR OF FIRST PRODUCTION

Average

### NUTRITION REQUIREMENT

High



### BEAN SIZE

Average



### LEAF TIP COLOR

Green



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	High
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	

INTELLECTUAL PROPERTY RIGHTS	Registered in the <a href="#">International Union for the Protection of New Varieties of Plants (UPOV)</a>
BREEDER	CIRAD-ECOM
GENETIC DESCRIPTION	Introgressed (Sarchimor)
PARENTAGE	Timor Hybrid 832/2 x Villa Sarchi CIFC 971/10

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/marsellesa>

### UPDATED

Jun 07, 2016



## OBATA ROJO SARCHIMOR

A high yielding, rust-resistant Brazilian variety recently introduced to Costa Rica.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Good



### YIELD POTENTIAL

High



### STATURE

Dwarf



### OPTIMAL ALTITUDE

600–1200 meters

### COFFEE LEAF RUST

Resistant



### NEMATODES

Unknown



### COFFEE BERRY DISEASE (CBD)

Unknown



### YEAR OF FIRST PRODUCTION

Average

### NUTRITION REQUIREMENT

High



### BEAN SIZE

Large



### LEAF TIP COLOR

Green



RIPENING OF FRUIT	Late
CHERRY-TO-GREEN-BEAN OUTTURN	Unknown
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	

INTELLECTUAL PROPERTY RIGHTS	Registered in the <a href="#">International Union for the Protection of New Varieties of Plants (UPOV)</a>
BREEDER	Instituto Agrônômico (IAC), Brazil
GENETIC DESCRIPTION	Introgressed (Sarchimor)
PARENTAGE	Timor Hybrid 832/2 x Villa Sarchi CIFC 971/10

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/obata-rojo>

### UPDATED

Jun 01, 2016



## PARAINEMA SARCHIMOR

Well-adapted to medium altitudes, resistant to coffee leaf rust and some nematodes.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Good



### YIELD POTENTIAL

Caturra-like



### STATURE

Dwarf



### OPTIMAL ALTITUDE

600–1200 meters

### COFFEE LEAF RUST

Resistant



### NEMATODES

Resistant



### COFFEE BERRY DISEASE (CBD)

Tolerant



### YEAR OF FIRST PRODUCTION

Average

### NUTRITION REQUIREMENT

High



### BEAN SIZE

Large



### LEAF TIP COLOR

Green



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	High
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Nematodes: Not resistant to <i>Pratylenchus spp.</i> Is resistant to <i>Meloidogyne exigua</i> .

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	Instituto Hondureño del Café (IHCAFE)
GENETIC DESCRIPTION	Introgressed (Sarchimor)
PARENTAGE	Selection of T5296

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/parainema>

### UPDATED

Jun 09, 2016

# T5296 SARCHIMOR

Well-adapted to medium altitudes. Variety not homogenous.

QUALITY POTENTIAL AT HIGH ALTITUDES	YIELD POTENTIAL	STATURE	OPTIMAL ALTITUDE
Good	Caturra-like	Dwarf	600–1200 meters
			
COFFEE LEAF RUST	NEMATODES	COFFEE BERRY DISEASE (CBD)	YEAR OF FIRST PRODUCTION
Resistant	Resistant	Tolerant	Average
			
NUTRITION REQUIREMENT	BEAN SIZE	LEAF TIP COLOR	
High	Large	Green	
			

RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	High
PLANTING DENSITY	Caturra-like (5000-6000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	T5296 not homogeneous; plants are not stable from one generation to the next. Farmers are better off using Parainema or Cucastleco. Nematodes: Not resistant to <i>Pratylenchus spp.</i> Is resistant of <i>Meloidogyne exigua</i> .

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	
GENETIC DESCRIPTION	Introgressed (Sarchimor)
PARENTAGE	Timor Hybrid CIFC 832/2 x Villa Sarchi

## WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/t5296>

## UPDATED

Jun 07, 2016



## CASIOPEA

High yielding variety, with exceptional quality at elevations above 1300 meters.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Exceptional



### YIELD POTENTIAL

High



### STATURE

Dwarf



### OPTIMAL ALTITUDE

>1200 meters

### COFFEE LEAF RUST

Susceptible



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Susceptible



### YEAR OF FIRST PRODUCTION

Average

### NUTRITION REQUIREMENT

High

### BEAN SIZE

Large



### LEAF TIP COLOR

Green



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Very High
PLANTING DENSITY	F1 hybrid-like (4000-5000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Seeds taken from hybrid plants <i>will not have the same characteristics as the parent plants</i> . This is called "segregation." It means that the child plant will not look or behave the same as the parent, with potential losses of yield, disease resistance, quality, or other agronomic performance traits. The variety should only be reproduced through clonal propagation.

INTELLECTUAL PROPERTY RIGHTS	This plant is in the public domain in Costa Rica, El Salvador, Guatemala and Honduras; outside of these countries, permission should be requested from PROMECAFE.
BREEDER	CIRAD-CATIE-ICAFE-IHCAFE-PROCAFE-ANACAFE
GENETIC DESCRIPTION	Hybrid (Ethiopian x Traditional American)
PARENTAGE	Caturra x Ethiopian wild accession "ET41" (CATIE collection)

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/casiopea>

### UPDATED

Jun 06, 2016



## H3

High yielding variety, with very good quality at elevations above 1300 meters.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Very Good



### YIELD POTENTIAL

High



### STATURE

Dwarf



### OPTIMAL ALTITUDE

>1200 meters

### COFFEE LEAF RUST

Susceptible



### NEMATODES

Susceptible



### COFFEE BERRY DISEASE (CBD)

Susceptible



### YEAR OF FIRST PRODUCTION

Average

### NUTRITION REQUIREMENT

High

### BEAN SIZE

Large



### LEAF TIP COLOR

Green



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Very High
PLANTING DENSITY	Bourbon-like (3000-4000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Stature is intermediate between dwarf and tall. Seeds taken from hybrid plants will <i>not have the same characteristics as the parent plants</i> . This is called "segregation." It means that the child plant will not look or behave the same as the parent, with potential losses of yield, disease resistance, quality, or other agronomic performance traits. The variety should only be reproduced through clonal propagation.

INTELLECTUAL PROPERTY RIGHTS	This plant is in the public domain in Costa Rica, El Salvador, Guatemala and Honduras; outside of these countries, permission should be requested from PROMECAFE.
BREEDER	CIRAD-CATIE-ICAFE-IHCAFE-PROCAFE-ANACAFE
GENETIC DESCRIPTION	Hybrid (Ethiopian x Traditional American)
PARENTAGE	Caturra x Ethiopian landrace accession "E531" (CATIE collection)

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/h3>

### UPDATED

Jun 07, 2016



## CENTROAMERICA H1

Very high yielding variety if planted in healthy soil, with very good quality at elevations above 1300 meters. Well-adapted to agroforestry conditions.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Very Good



### YIELD POTENTIAL

Very High



### STATURE

Dwarf



### OPTIMAL ALTITUDE

800–1500 meters

### COFFEE LEAF RUST

Resistant



### NEMATODES

Tolerant



### COFFEE BERRY DISEASE (CBD)

Tolerant



### YEAR OF FIRST PRODUCTION

Early

### NUTRITION REQUIREMENT

Very High



### BEAN SIZE

Large



### LEAF TIP COLOR

Green



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Very High
PLANTING DENSITY	Bourbon-like (3000-4000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Can have difficulty establishing roots in the first two years caused by desequilibrium between the growth of radicle roots and aerial roots. Requires careful nutrition for roots to become established, avoiding too much nitrogen (N). Note: Seeds taken from hybrid plants will not have the same characteristics as the parent plants. This is called "segregation." It means that the child plant will not look or behave the same as the parent, with potential losses of yield, disease resistance, quality, or other agronomic performance traits. The variety should only be reproduced through clonal propagation. Nematodes: Not tolerant to <i>Pratylenchus</i> spp. Is tolerant to <i>Meloidogyne exigua</i>

INTELLECTUAL PROPERTY RIGHTS	This plant is in the public domain in Costa Rica, El Salvador, Guatemala and Honduras; outside of these countries, permission should be requested from PROMECAFE.
BREEDER	CIRAD-CATIE-ICAFE-IHCAFE-PROCAFE-ANACAFE
GENETIC DESCRIPTION	Hybrid (Ethiopian x Catimor/Sarchimor)
PARENTAGE	T5296 x Rume Sudan

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/centroamerica>

### UPDATED

Jun 07, 2016

## EVALUNA EC18

Very high yielding variety at elevations at high altitudes.

QUALITY POTENTIAL AT HIGH ALTITUDES Very Good	YIELD POTENTIAL High	STATURE Dwarf	OPTIMAL ALTITUDE >1200 meters
			
COFFEE LEAF RUST Susceptible	NEMATODES Susceptible	COFFEE BERRY DISEASE (CBD) Tolerant	YEAR OF FIRST PRODUCTION Early
			
NUTRITION REQUIREMENT High	BEAN SIZE Large	LEAF TIP COLOR Green	
			

RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Very High
PLANTING DENSITY	F1 hybrid-like (4000-5000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	May have difficulty establishing roots in the first two years. Requires careful nutrition for the roots to become properly established; avoid excess of nitrogen. Can only be reproduced through clonal propagation. Note: Seeds taken from hybrid plants will <i>not have the same characteristics as the parent plants</i> . This is called "segregation." It means that the child plant will not look or behave the same as the parent, with potential losses of yield, disease resistance, quality, or other agronomic performance traits. The variety should only be reproduced through clonal propagation.

INTELLECTUAL PROPERTY RIGHTS	Registration in the <a href="#">International Union for the Protection of New Varieties of Plants (UPOV)</a> is currently in process
BREEDER	CIRAD-ECOM
GENETIC DESCRIPTION	Hybrid (Ethiopian x Catimor)
PARENTAGE	Naryelis (Catimor) x Ethiopian landrace accession "ET06" (CATIE collection)

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/evaluna>

### UPDATED

Jun 07, 2016



## MILENIO H10

Very high yielding variety if planted in healthy soil, with very good quality at elevations above 1300 meters. Well-adapted to agroforestry conditions.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Very Good



### YIELD POTENTIAL

Very High



### STATURE

Dwarf



### OPTIMAL ALTITUDE

800–1500 meters

### COFFEE LEAF RUST

Resistant



### NEMATODES

Tolerant



### COFFEE BERRY DISEASE (CBD)

Tolerant



### YEAR OF FIRST PRODUCTION

Early

### NUTRITION REQUIREMENT

Unknown



### BEAN SIZE

Large



### LEAF TIP COLOR

Green



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Very High
PLANTING DENSITY	F1 hybrid-like (4000-5000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Seeds taken from hybrid plants will <i>not have the same characteristics as the parent plants</i> . This is called “segregation.” It means that the child plant will not look or behave the same as the parent, with potential losses of yield, disease resistance, quality, or other agronomic performance traits. The variety should only be reproduced through clonal propagation. Nematodes: Not tolerant to <i>Pratylenchus spp.</i> Is tolerant to <i>Meloidogyne exigua</i>

INTELLECTUAL PROPERTY RIGHTS	This plant is in the public domain in Costa Rica, El Salvador, Guatemala and Honduras; outside of these countries, permission should be requested from PROMECAFE.
BREEDER	CIRAD-CATIE-ICAFE-IHCAFE-PROCAFE-ANACAFE
GENETIC DESCRIPTION	Hybrid (Ethiopian x Sarchimor)
PARENTAGE	T5296 x Rume Sudan

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/milenio>

### UPDATED

Jun 07, 2016



## MUNDO MAYA EC16

Very high yielding variety if planted in healthy soil, with very good quality at elevations above 1300 meters. Well-adapted to agroforestry conditions.

### QUALITY POTENTIAL AT HIGH ALTITUDES

Very Good



### YIELD POTENTIAL

High



### STATURE

Dwarf



### OPTIMAL ALTITUDE

800–1500 meters

### COFFEE LEAF RUST

Resistant



### NEMATODES

Tolerant



### COFFEE BERRY DISEASE (CBD)

Tolerant



### YEAR OF FIRST PRODUCTION

Early

### NUTRITION REQUIREMENT

High



### BEAN SIZE

Large



### LEAF TIP COLOR

Bronze



RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Very High
PLANTING DENSITY	F1 hybrid-like (4000-5000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Nematodes: Variety not resistant to <i>Pratylenchus</i> spp. Is tolerant to <i>Meloidogyne exigua</i> . Note: Seeds taken from hybrid plants will <i>not have the same characteristics as the parent plants</i> . This is called "segregation." It means that the child plant will not look or behave the same as the parent, with potential losses of yield, disease resistance, quality, or other agronomic performance traits. The variety should only be reproduced through clonal propagation.

INTELLECTUAL PROPERTY RIGHTS	Registration in the <a href="#">International Union for the Protection of New Varieties of Plants (UPOV)</a> is currently in process
BREEDER	CIRAD-ECOM
GENETIC DESCRIPTION	Hybrid (Ethiopian x Sarchimor)
PARENTAGE	T5296 x wild Ethiopian accession "ET01" (CATIE collection)

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/mundo-maya>

### UPDATED

Jun 07, 2016

## NAYARITA EC19

High yielding variety at high altitudes with very good cup quality.

QUALITY POTENTIAL AT HIGH ALTITUDES Very Good	YIELD POTENTIAL High	STATURE Dwarf	OPTIMAL ALTITUDE >1200 meters
			
COFFEE LEAF RUST Susceptible	NEMATODES Susceptible	COFFEE BERRY DISEASE (CBD) Tolerant	YEAR OF FIRST PRODUCTION Early
			
NUTRITION REQUIREMENT High	BEAN SIZE Large	LEAF TIP COLOR Green	
			

RIPENING OF FRUIT	Average
CHERRY-TO-GREEN-BEAN OUTTURN	Very High
PLANTING DENSITY	Bourbon-like (3000-4000 a/ha)
ADDITIONAL AGRONOMIC INFORMATION	Note: Seeds taken from hybrid plants will <i>not have the same characteristics as the parent plants</i> . This is called "segregation." It means that the child plant will not look or behave the same as the parent, with potential losses of yield, disease resistance, quality, or other agronomic performance traits. The variety should only be reproduced through clonal propagation.

INTELLECTUAL PROPERTY RIGHTS	Registration in the <a href="#">International Union for the Protection of New Varieties of Plants (UPOV)</a> is currently in process
BREEDER	CIRAD-ECOM
GENETIC DESCRIPTION	Hybrid (Ethiopian x Catimor/Sarchimor)
PARENTAGE	Naryelis x wild Ethiopian accession "ET26" (CATIE collection)

### WHERE TO FIND

For up-to-date information on whether its possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/nayarita>

### UPDATED

Jun 07, 2016

## NEMAYA ROOTSTOCK

A Robusta variety used for rootstock grafting because of its high resistance to nematodes. Arabica plants (any variety) can be grafted onto Nemaya rootstock to make the plant resistant to nematodes. Grafting Arabica onto Robusta rootstock has no effect on cup quality.

QUALITY POTENTIAL AT HIGH ALTITUDES	YIELD POTENTIAL	STATURE	OPTIMAL ALTITUDE
Not applicable	Not applicable		>600 meters
			
COFFEE LEAF RUST	NEMATODES	COFFEE BERRY DISEASE (CBD)	YEAR OF FIRST PRODUCTION
Not applicable	Resistant	Not applicable	Not applicable
			
NUTRITION REQUIREMENT	BEAN SIZE	LEAF TIP COLOR	
Not applicable	Not applicable	Not applicable	
			

RIPENING OF FRUIT	Not applicable
CHERRY-TO-GREEN-BEAN OUTTURN	Not applicable
PLANTING DENSITY	Not applicable
ADDITIONAL AGRONOMIC INFORMATION	Propagation by seeds produced in authorized fields. Nematodes: Tolerant to <i>Pratylenchus</i> spp. and resistant to <i>Meloidogyne exigua</i> , <i>M. arenaria</i> , and <i>M. paranaensis</i> .

INTELLECTUAL PROPERTY RIGHTS	Public domain
BREEDER	PROMECAFE-CIRAD-CATIE
GENETIC DESCRIPTION	Coffea canephora (Robusta)
PARENTAGE	C. canephora T3561 x C. canephora T3751

### WHERE TO FIND

For up-to-date information on whether it's possible to obtain this variety through the World Coffee Research Verified program, please visit our website:

<https://varieties.worldcoffeeresearch.org/varieties/nemaya>

### UPDATED

Jun 06, 2016