



























CATALOGUE OF CERRADO SOCIO-BIODIVERSITY PRODUCTS









IMPLEMENTATION WWF-Brazil

Executive Director Mauricio Voivodic

Engaged Society Director Gabriela Yamaguchi

Ecosystems Conservation and Restoration Director Edegar de Oliveira Rosa

CATALOGUE PREPARED BY

Conservation Analyst Ana Carolina Bauer

Conservation Specialist Kolbe Soares Santos

Conservation Intern Thaynara Godoi dos Santos

REVISION Conservation Specialist Octávio Nogueira

Conservation Specialist Ana Carolina Crisostomo

Conservation Specialist Helga Correa Wiederhecker

GRAPHIC AND EDITORIAL DESIGN AND PROOFREADING Laboota

EDITORIAL REVIEW Engagement Analyst Regiane Stella Guzzon

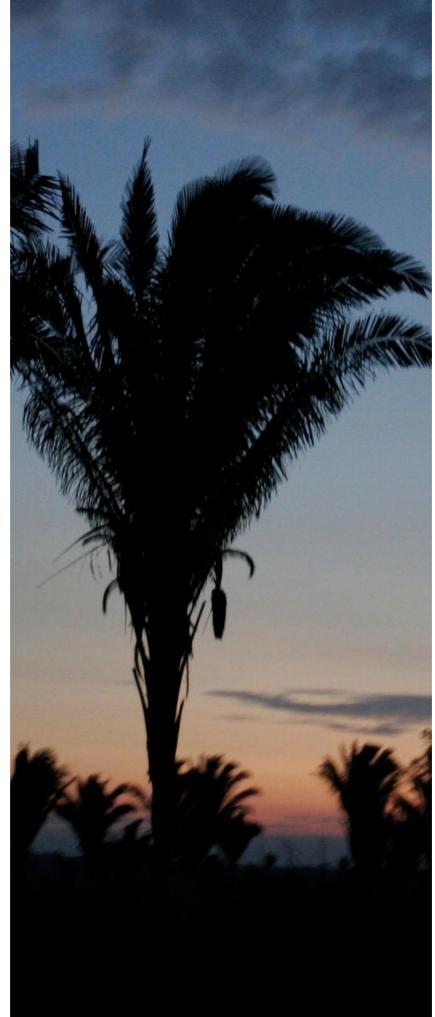
PHOTOGRAPHY

WWF-Brazil Collection ISPN Collection – Institute for Society, Population and Nature Cerrado Central Cooperative Collection Sertão Veredas Cooperative Collection Shuttertock Collection

Special thanks to the community-based organizations that shared their data to prepare this document.



WWF-Brazil is a Brazilian NGO that for 25 yeas has been working collectively with civil society partners, universities, governments and companies throughout the country to fight socio-environmental degradation and protect the lives of people and nature.



CONTENTS

Species of the Cerrado

Araticum PG. 07

A

Babassu B PG. 08 Bacuri PG. 09

Baru PG. 10 **Buriti** PG. 11

PG. 14

PG. 15

Capim dourado

Coquinho azedo

Cagaita PG. 12 ſ Cajui PG. 13

> Favad'anta PG. 16

6 PG. 17

Gueroba

Jatoba PG. 18

Licuri PG. 20

Jenipapo PG. 19

Murici

PG. 23

Macauba PG. 21 Mangaba PG. 22

Pequi PG. 24

Μ

Ρ

Pitomba PG. 25

Umbu PG. 26

Community ventures

Federal District | DF PG. 33

Goiás | GO PG. 35

Maranhão | MA PG. 40

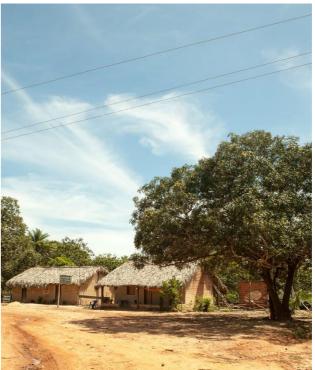
Mato Grosso | MT PG. 48

Mato Grosso do Sul - MS PG. 49

Minas Gerais | MG PG. 53

Piauí | Pl PG. 62

Tocantins | TO PG. 64



PRESENTATION



The **Cerrado is the second largest biome in the country**, occupying 2,036,448 km², which represents about 23.9% of the Brazilian territory, only surpassed, in extension, by the Amazon biome¹. Of all the savannas, the Cerrado is the richest region in species in the world, accounting for 5% of the planet's biodiversity and 30% of the national biodiversity². There are about 12 thousand plant species, among which we can find several delicious and nutritious fruits, not only with economic potential, but also source of food.

Native fruits can be traded *in natura* or as ingredients for different products,

such as liqueurs, sweets, jams, porridge, cakes, juices, ice cream and appetizers, as well as other articles for artisanal use. These products are traded directly by producers in different markets, such as local and regional fairs (permanent or free), supermarkets and shops specialized in natural foods, and institutional markets. It is also possible to find the native fruits in different industries, ranging from food to beverage, pharmaceutical and cosmetic³.

<u>Cerrado</u>

2nd LARGEST BIOME OF THE COUNTRY

-

OCCUPYING **23.9%** OF THE BRAZILIAN TERRITORRY

RESPONSIBLE FOR

5% OF THE PLANET 'S

BIODIVERSITY

30% OF THE NATIONAL BIODIVERSITY





This catalogue is an initiative of WWF-Brazil, a Brazilian non-governmental and non-profit organization working to change the current trajectory of environmental degradation and promote a fairer and healthier future for all, with society and nature living in harmony. This publication aims to **disseminate the potential of use of the Cerrado native products and community ventures involved in the extractive chains of the biome.**

In this sense, this catalogue is structured in two sections:

1) Catalogue of Cerrado Species – a

brief description of the main species used in food and marketing.

2) Catalogue of Community

Ventures – list of the main community enterprises that process and commercialize the products of the biome. In the first section, 20 Cerrado species are highlighted: araticum, babassu, bacuri, baru, buriti, cagaita, cajui, capim dourado (golden grass), coquinho-azedo, favad'anta, gueroba, jatoba, jenipapo, licuri, macauba, mangaba, murici, pequi, pitomba and umbu. The catalogue provides information such as scientific name, crop, area of occurrence, most common use and economic importance.

In the second section, 60 community enterprises are presented, among associations and cooperatives, which produce, process and trade the fruits of the Cerrado, aiming to give visibility to organizations that add value to native products and that benefit the traditional peoples and communities of the biome. The section also brings a map of the location of these community ventures, as well as data on the products offered by each organization, with commercial contacts and general information.

Enjoy the reading!

CATALOGUE OF CERRADO SPECIES

Araticum

FAMILY Annonaceae

SCIENTIFIC NAME Annona crassiflora

COMMON NAMES

Marolo, pine cone, papaya or brute, fruit of the count, head-of-thecerrado



General information

Araticum is widely **distributed in the Cerrado**, occurring in the states of Pará, Rondônia, Tocantins, Bahia, Ceará, Maranhão, Paraíba, Pernambuco, Piauí, Goiás, Mato Grosso do Sul, Mato Grosso, Minas Gerais, São Paulo, Paraná and the Federal District¹. On average, **an adult plant produces 5 to 30 fruits², and each fruit weighs around 2 kg**, with a pulp yield of 50%. Its fructification begins in November, with fruit maturation mainly between the months of January and April³.

Economic Potential

With emphasis on its aroma and flavor, araticum is widely known in its region of occurrence. It has **high food value** and can be consumed *in natura* or in the form of pulp. The **fruit is commercialized in regional markets**, with the production of sweets, ice creams, liqueurs, juices and jellies⁴. In addition to the food potential, different parts of araticum are used in **research to develop new products** such as medicines, food supplements and substances for agricultural pest control⁵.



Babassu

FAMILY

Arecaceae

SCIENTIFIC NAME Attalea speciosa

COMMON NAMES

Coconut palm tree, monkey coconut, pindoba-coconut, andaja, pindoba, pindobassu



General information

peel

Babassu mainly occurs in the **Northeast and North regions of the country.** The Northeast region has the highest production of chestnut and the largest area occupied by its trees, especially the state of Maranhão¹. **One plant produces on average 4 to 5 bunches, and each bunch has 300 to 500 fruits**². It blooms from January to April, and maturation occurs from August to January³.

Economic Potential

The fruit is **composed of four parts: epicarp**, **endocarp**, **almonds (chestnuts) and mesocarp**, **all with use value.** The fibers of the babassu epicarp can be used for the production of handicraft, such as tree fern fiber pots, upholstery, packaging, vases

and murals⁴. The endocarp, the most resistant layer of the fruit, is used in the production of coal, in the manufacture of fuel and in the treatment of water⁵. Chestnuts are crushed for the preparation of sweets and for oil manufacturing, with a great potential for use in cooking and in the cosmetic industry. From the fruit mesocarp, a flour is made, used in the mixture of doughs, such as cakes and breads⁶.

Uses Craftwork
Coal
production
from the
babassu 8

Bacuri

FAMILY Clusiaceae

SCIENTIFIC NAME *Platonia insignis*

COMMON NAMES

Bakuri, bacuriassu, bacuri, bacurizeiro, bacuri-grande



General information

Bacuri is present in the states of **Maranhão, Tocantins and Piauí**¹. The name of the fruit comes from the Tupi-Guarani language, in which "ba" means fall and "curi" means soon. It is also popular in the Amazon region, particularly frequent in the lower Amazon and Marajó Island. The tree **can produce up to 2,000 fruits, but the average is 400 per individual**². Fructification is seasonal and fruits fall, for the most part, from January to March³.

Economic Potential

Traditionally **used to feed the local population**, the fruit contains a white pulp, surrounding the seeds, protected by a yellowish green peel⁴. The pulp is normally consumed *in natura* or in the preparation of juices, creams, ice cream, sweets, liqueurs, popsicles etc. In addition, the bacuri seed oil is used to make soap and medicine, present in the cosmetics industry⁵.



Baru

FAMILY

Fabaceae

SCIENTIFIC NAME *Dipteryx alata*

COMMON NAMES

Baru, cumbaru, cumaru, donkey chestnut, cockroach coconut, bean coconut



General information

It is distributed in the Cerrado region, in the states of Mato Grosso, Mato Grosso do Sul, Goiás, Minas Gerais and in the Federal District. It occurs less frequently in the states of Maranhão, Tocantins, Pará, Rondônia, Bahia, Piauí and northern São Paulo. Fruits bloom from October to January and usually ripen between July and November. The collection of fruits can be done after their fall or on the tree when

they have already reached maturity¹. With only one seed per fruit weighing on average 1.2 grams, **an adult tree produces about 150 kg of fruit per crop**, which results in approximately 5% (7.5 kg) of chestnut².

Economic Potential

The seed, known as almond or chestnut, can be eaten *in natura* or roasted. The chestnut is also usually used in the making of cakes, breads or used in the preparation of sweets, such as peanut brittle. The baru oil is extracted from the seeds and used in gastronomy and In the cosmetics and medicine industries. Other parts of the fruit are also used, such as the pulp in the preparation of flour and the peel in the generation of energy and improvement of rural roads. In addition, the fruit is used for handicraft, in the making of pieces such as necklaces³.



BURITI

FAMILY

Arecaceae

SCIENTIFIC NAME Mauritia flexuosa

POPULAR NAMES

Buriti, miriti, muriti, swamp palm, moriche, carangucha and aguaje



General information

Present in pathways, it plays an important role in the maintenance of springs and watercourses in the Cerrado. It is widely distributed in the national territory, present in practically all states of the Cerrado and the Amazon. It has male and female plants, each with only one type of flower: males with bunches of flowers with pollen, females with bunches of flowers that generate fruits when pollinated. **Each palm tree produces 5 to 7 bunches per year, each with 400 to 500 fruits**¹. It flowers with greater intensity in the months of December to April, and fruit maturation occurs in the months of December to June².

Economic Potential

The fruit is used in several ways. The pulp is used in cooking, for sweets and pasta. The oil is used in several recipes and, due to its antioxidant power, it is also used in popular medicine and the cosmetic industry. In craftwork, the leaves are used to cover roofs, the stalk to create boxes of buriti candy, and the fibers (buriti silk) as sewing thread³.

Uses



Sweets and pasta



Cosmetics Roofing

Sewing thread

CAGAITA

FAMILY

CATALOGUE OF CERRADO SOCIO-BIODIVERSITY PRODUCTS

Myrtaceae

SCIENTIFIC NAME *Eugenia dysenterica*

COMMON NAMES Cagaita, cagaiteira



General information

Cagaita, known for its **laxative properties**, occurs in the states of Tocantins, Bahia, Ceará, Maranhão, Pernambuco, Piauí, Goiás, Mato Grosso do Sul, Mato Grosso, Minas Gerais, São Paulo and the Federal District¹. The species **can produce more than 2,000 fruits per tree**. It blossoms from August to September and bears fruit from October to November. Fruit maturation is relatively fast and occurs in the beginning of the rainy season. The ripe fruit is highly perishable, and its consumption is recommended soon after harvest².

Economic Potential

Due to the perishability of the ripe fruit, **production of frozen pulp stands out**, used for the preparation of liqueurs, refreshments, ice cream, juices, jellies and candy. When fermented, the fruit can be used to produce alcohol and vinegar³. The oils extracted from the leaves have different properties, with pharmaceutical potential for popular use⁴.



CAJUÍ

FAMILY Anacardiaceae

SCIENTIFIC NAME Anacardium humile

POPULAR NAMES

Cajuí, cajuzinho-do-cerrado (cerrado's cashew) or cajuzinho-do-campo (country cashew)



General information

Cajuí, in the Tupi language, means walnut that is produced. It has two parts: the chestnut, which is the true fruit, and the edible pulp, the pseudo fruit, with a sweet and slightly acid flavor¹. The fruit harvest occurs between September and December. Key areas of distribution are the states of Rondônia, Bahia, Piauí, Goiás, Mato Grosso, Mato Grosso do Sul, Minas Gerais, Tocantins, São Paulo, Paraná and the Federal District².

Economic Potential

Cajuí can be consumed *in natura* or in the preparation of juice, pulp and sweets. There are several ways to preserve the cashew, and the most common is in the form of jams. Cashew nuts are eaten roasted and peeled. From the chestnut it is also possible to produce oil, used for medicinal purposes due to its antiseptic and healing powers³.



1 (LIMA, 1988) | 2 (FLORA E FUNGA, 2022) | 3 (OLIVEIRA; SOARES JUNIOR, 2006 apud ALMEIDA et al., 1998)

CAPIM Dourado

FAMILY Eriocaulaceae

SCIENTIFIC NAME Syngonanthus nitens

POPULAR NAMES Golden Grass



General information

Known as Jalapão gold, it is widely distributed in the Cerrado, in the states of Mato Grosso, Mato Grosso do Sul, Minas Gerais, Goiás, Tocantins, Bahia and the Federal District¹. The plant is formed by a rosette, which produces 1 to 10 golden stems per year. At the top of the stems are the flowers, fruits and seeds. Flowering takes place from July to August, seed production between August and early September², and harvest in September. On average, an extractivist collects about 30 kg per day. The manual dispersion of seeds during harvest is an important strategy for the management of the species³.

Economic potential

Currently, **golden grass craftwork is famous throughout Brazil** and about 13 quilombola communities in Tocantins work in this arrangement⁴. Through craftwork, pieces such as hats, baskets, vases, mandalas, trays, biojewels and lamps are produced, sold at fairs and stores in the capitals or even abroad⁵.



COQUINHO-Azedo

FAMILY Arecaceae

SCIENTIFIC NAME *Butia capitata*

POPULAR NAMES Sour coconut, butia,

sour coconut, butia, big-headed coconut, small coconut



General information

Coquinho-azedo, a palm tree endemic to the Cerrado, is distributed in the states of Bahia, Goiás and Minas Gerais. The flowers occur mainly from March to September. Green fruit appears as of June and can be found in the plants until December. Ripe fruit occurs from October to January. **Each plant produces, on average, 3 bunches, ranging from 1 to 15 each year, with approximately 170 fruits per bunch**. Therefore, **a plant can produce up to 4 kg of fruit per year**¹. The palm tree is on the list of species of the Brazilian Flora Threatened with Extinction².

Economic Potential

The pulp is very nutritious, rich in vitamins A and C, potassium and oil, commonly used *in natura*, but also in the production of juice, popsicles, jam, liqueur, cakes and ice cream. **The seed is also edible,** rich in protein and minerals, and used for the production of cooking oil. Chestnuts are used in the production of sweets, bread, biscuits, canjica (a Brazilian type of porridge) and oils³.

Uses

In natura pulp





Jam, jelly, cakes





FAVA-D'ANTA

FAMILY Fabaceae

SCIENTIFIC NAME Dimorphandra mollis

POPULAR NAMES Favela, faveira, macaw's fava, false barbatimao



General information

Fava-d'anta is distributed in the states of Bahia, Ceará, Goiás, Maranhão, Minas Gerais, Pará, Pernambuco, Piauí, São Paulo, Tocantins and the Federal District. Within the Cerrado biome, it occurs in the phytophysiognomies of dirty fields, clean fields, dry and hillside forests. In certain regions, there are more than 70 individuals per hectare. The fava-d'anta fruit has a strong and sweet odor and contains an average of 15 seeds. Flowering takes place between September and January, and fruiting from January to August¹.

Economic Potential

Pretty **nutritious and with a sweet taste**, the fava-d'anta fruit is used in the preparation of juice and tea. For the local population, it is also used in home medicine for the treatment of diseases associated with blood circulation. Due to its bioactive compounds, fava-d'anta is constantly used in the food industry as flavoring, thickener and stabilizer². In the pharmaceutical industry, fava d'anta is used in the production of medicines related to blood circulation³.



GUEROBA

FAMILY

Arecaceae

SCIENTIFIC NAME Syagrus oleracea

POPULAR NAMES

Guariroba, guarirova, jaguaroba, bitter palm, catolé, pati and bitter coconut tree



General information

Gueroba has a **wide geographical distribution**, mainly in forest environments of the Cerrado, predominantly in the states of Bahia, Tocantins, Goiás, Mato Grosso, Mato Grosso do Sul, Minas Gerais, São Paulo and the Federal District. Its flowering and fructification occur all year round, and the fruit ripens from October to February¹. **The palm tree produces 4 to 8 bunches per year/crop, with an average of 217 fruits per bunch**. Therefore, an adult plant can produce an average of 1,300 coconuts per year, ranging from 870 up to 1,740².

Economic Potential

This palm tree **produces a heart of palm characterized mainly by its bitter taste** and can be used in different dishes, such as salads, sauces and side dishes. The pulp and chestnut are also used as food. The chestnut oil has medicinal and cosmetic properties. From the chestnut it is also possible to make the popular "taia candy"³.



JATOBÁ

FAMILY

Fabaceae

SCIENTIFIC NAME *Hymenaea spp.*

POPULAR NAMES

Jutaí, jutaí-açu, jataiba, jatobámirim, quebra-faca, farinheira



Dodesign-s / Cerra

General information

Jatobá is distributed in the Cerrado in the states of Bahia, Goiás, Maranhão, Mato Grosso, Piauí, São Paulo and the Federal District¹. Depending on the region, the tree blooms between November and January, and fruit ripens as of July². The production of jatobá also varies, and **some trees can reach 2,000 fruits per harvest**³. **Each fruit has 3 to 6 seeds**⁴. To extract the

pulp, a hammer or sledgehammer is used to break the peel. Then, the pulp is manually removed with the help of a knife to separate the seeds⁵.

Economic Potential

The jatobá flour is well known to the local population. Extractivists scrape the seeds to obtain the flour, used in the production of cakes, biscuits and bread. The pulp is used as food and can be consumed *in natura*, popularly known for its laxative effect, or in the preparation of cakes, bread, cookies and porridge⁶.



1 (ALMEIDA; SILVA; RIBEIRO, 1987) | 2 (LORENZI, 1992; 1998) | 3 (SHANLEY, 2005) | 4 (CARVALHO, 2007) | 5 (ALMEIDA; SILVA; RIBEIRO, 1987) | 6 (ALMEIDA; SILVA; RIBEIRO, 1987)

JENIPAPO

FAMILY

Rubiaceae

SCIENTIFIC NAME Genipa americana

POPULAR NAMES

Jenipapeiro, jenipapo, jenipa, jenipapinho, janipaba, janapabeiro, janipapo, janipapeiro



General information

Jenipapo, widely distributed throughout the Brazilian territory,

occurs in almost all biomes, except in the formations of Campos Sulinos, in the Pampa biome¹. It flowers from October to November and its fruit ripens mainly in July and August, and also in other seasons². Jenipapo is a large round fruit and **weighs between 200 and 400 grams**³. The tree produces a large number of seeds annually and **each fruit may have up to 500 seeds**⁴. The fruit is edible only when ripe and soft to the touch. Its taste is sweet, acidic and resembles that of dried apples⁵.

Economic Potential

All parts of Jenipapo can be used. Its fruit is consumed *in natura* or in the form of candies, sweets, juice, ice cream and, mainly, liquor. It is also of great importance as a colorant producing plant. When it is green, the fruit provides blue-colored juice, used by the native population since pre-Columbian times and, more recently, appreciated by chefs as ingredient and natural colorant. The seeds can be used in the preparation of juice and the peel has pharmaceutical properties⁶.



LICURI

FAMILY

Arecaceae

SCIENTIFIC NAME Syagrus coronata

POPULAR NAMES

Aricuri, big-headed coconut tree, licuri, licurizeiro, nicuri, ouricuri and urucuri



General information

Licuri is present in the transition zone between the Cerrado and the Caatinga, and is distributed in the states of Alagoas, Bahia, Sergipe, Pernambuco and North of Minas Gerais. **On average, fruit bunches have 1,350 units**, with **an annual production of 2,000 kg of coconut per hectare**¹. The palm tree blooms and bears fruit throughout the year, and licuri is most fruitful between the months of May and August, maturing in the period from October to December².

Economic Potential

The fruit has great importance in the municipalities where it is located, as it **represents a source of income for the population**. The chestnut is quite nutritious and provides 38% of a colorless oil used in food preparation³. The pulp is good for making pickles, flour and cereal bars. The fruit is also used in local craftwork, peeled and sold in the form of rosaries⁴.



MACAÚBA

FAMILY

Arecaceae

SCIENTIFIC NAME Acrocomia aculeata

POPULAR NAMES Bocaiúva, macaíba, coco-baboso and thorn coconut



General information

Macaúba is highly productive and has a wide geographical distribution, with dense natural populations mainly in areas of the Cerrado biome¹, in higher concentrations in the states of Minas Gerais, Goiás, Mato Grosso and Mato Grosso do Sul. Depending on the region, the species has 5 to 7 bunches, and can produce an average of 250 fruits per bunch². The flowers and fruit appear in different times, depending on the region, blooming from October to January, and fruit ripens mainly from September to January³.

Economic Potential

Macaúba has potential for several

uses. The pulp and flour taken from the fruit are rich in vitamins and can be used to make juice, ice cream, cakes, bread and sweets. The leaves are used to make nets and fishing lines. The chestnut oil is used in the production of soap, toilet soap, margarine and cosmetics. Also, macaúba is identified as a potential source for the production of vegetable oil and biofuels⁴.



MANGABA

FAMILY Apocynaceae

SCIENTIFIC NAME Hancornia speciosa

POPULAR NAMES Mangaba, mangabeira, mangabeira-do-cerrado, north mangabeira



General information

Mangaba has an area of occurrence in the Cerrado, Caatinga and coastal boards. The production is variable and, on average, **a plant produces about 800 fruits, with a soft and sweet flavor, weighing 20 to 260 grams.** Each fruit contains 2 to 15 seeds, up to 30. The flowering and fruiting of the species are irregular, varying according to the season. In general, it blooms during the months of September to November and matures between November and January¹.

Economic Potential

For many families, the production and commercialization of mangaba **is an important occupation and source of income**. Consumed *in natura*, the fruit has a high pulp yield, about 94%, important for the preparation of sweets, jam, liquor, vinegar, juice and ice cream. Seeds, on the other hand, are used to produce oils for cooking use². In addition, the latex of the mangaba tree is suitable for rubber production and has applications in the pharmaceutical industry due to its healing potential³.



MURICI

FAMILY Malpighiaceae

SCIENTIFIC NAME Byrsonima crassifolia

POPULAR NAMES Muruci, murici-do-campo



General information

In the Cerrado, murici is present in the states of Mato Grosso, Goiás, Minas Gerais and Bahia. With a **wide distribution throughout the Brazilian territory**, it is also possible to find it in the mountainous regions of the Southeast and in the North and Northeast coast, and also in the Brazilian Amazon¹. It blooms almost all year round, predominantly in the summer, from January to March. The ripening of the fruit also happens in most months, with greater intensity between April and June². **The average production is around 12 kg of fruit per tree, reaching up to 4,500 kg/ha**³.

Economic Potential

With a **characteristic aroma and flavor**, the murici pulp can be consumed *in natura* or in the production of juice, ice cream, liqueur, nectar, jam and sweets⁴. Due to the presence of **several bioactive compounds in its pulp**, its use has been increasingly explored for human health, with the production of extracts and supplements, with great potential for the pharmaceutical industry. From the seed it is also possible to extract oil for the food and cosmetic industries⁵.

Uses Uses Juice Ice cream Ice and jam Sweets, nectar and jam

PEQUI

FAMILY Caryocaraceae

SCIENTIFIC NAME *Caryocar brasiliense*

POPULAR NAMES Pequi, piqui

CATALOGUE OF CERRADO SOCIO-BIODIVERSITY PRODUCTS



General information

Pequi occurs in the states of Bahia, Ceará, Goiás, Maranhão, Mato Grosso, Mato Grosso do Sul, Minas Gerais, Pará, Piauí, São Paulo, Tocantins and the Federal District. In the Cerrado, it is common to see an average of 25 pequi trees per hectare, reaching 100 in more closed vegetation. The size of the pequi tree varies greatly between regions. On average, 110 fruits are produced per plant, but it can reach 420. Flowering takes place between May and October, and fruiting takes place from October to February¹.

Economic Potential

The pequi pulp is used as an ingredient in the composition of recipes in the central region of the country. It is usually used for the production of jam, sweets, liqueur, creams, ice cream and farofa (something like fried flour). Oil is extracted from the pulp and chestnut for cooking. The chestnut can also be eaten in natura or roasted, used in the preparation of paçoca (a type of candy), cakes, sweets and pamonha (a typical Brazilian dish). Some industries use the pequi oil for manufacturing cosmetics, such as moisturizers, shampoos, conditioners and toilet soap. It is also present in the pharmaceutical industry due to its antioxidant properties².

Uses Pharmaceutical Cakes, Food oil Sweets, Ice In natura Cosmetics industry jam and farofa, or roasted cream liqueur chestnuts and paçoca and creams pamonha

PITOMBA

FAMILY Sapindaceae

SCIENTIFIC NAME *Esculenta talisia*

POPULAR NAMES Pitomba, pitomba, bull 's-eye



General information

Pitomba has a wide occurrence in the Amazon, Caatinga, Cerrado and Atlantic Forest, in the states of Amazonas, Pará, Mato Grosso, Goiás, Minas Gerais, Rio de Janeiro and in the states of the Northeast region, except for Tocantins¹. The fruit has, in general, **one to two lumps coated by a thin and juicy layer, sweet and slightly acidic**. Fruiting occurs between the months of August and October. Fruit maturation occurs from January to March². **An adult plant can produce about 100 bunches with 10 to 20 fruits each³**.

Economic Potential

Much appreciated by the population of the North and Northeast regions, **consumed mainly** *in natura*, **pitomba is a great source of income for local communities.** The fruit is used in the preparation of jam, liqueur, juice, ice cream, pulp, jelly and sweets⁴. The seeds are also used in the preparation of tea, with antioxidant potential, and provide a series of nutrients that are important for health. The pitomba peel has great potential for the production of flour and toilet soap⁵.



UMBU

FAMILY Anacardiaceae

SCIENTIFIC NAME Spondias tuberosa

COMMON NAMES Umbu, imbu,

ambu and ombu



General information

It is symbol of the Brazilian Semiarid, and its tree, endemic to this region, can be found in the transition area between the Caatinga and the Cerrado¹. Its name has Tupi-Guarani origin, which means "tree that gives what to drink", and it is present in the states of Alagoas, Bahia, Ceará, Paraíba, Pernambuco, Piauí, Rio Grande do Norte, Sergipe, northern Minas Gerais and Espírito Santo². Its main flowering season runs from September to December. Fruit matures predominantly in January and February³. **An adult plant produces an average of 300 kg of fruit/crop and each fruit weighs between 10 and 20 grams**⁴.

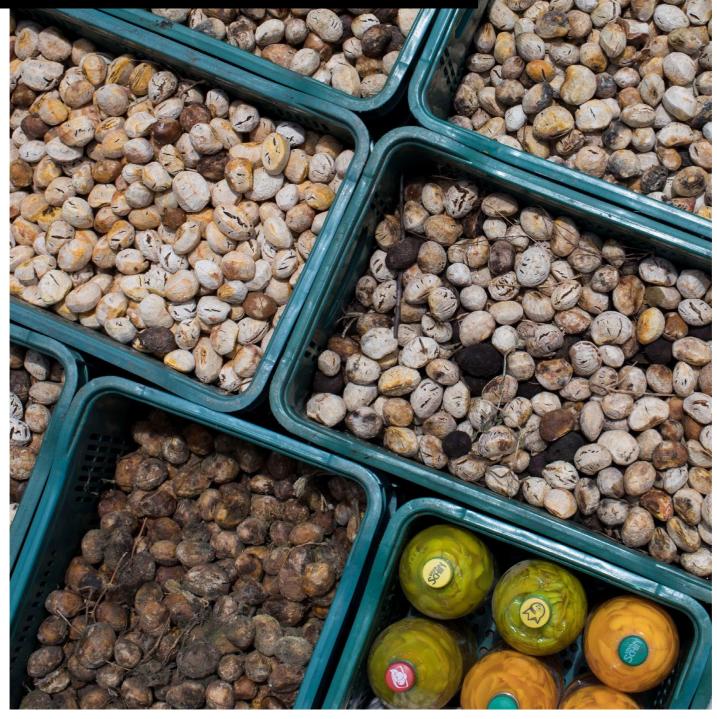
Economic Potential

The fruit is rich in vitamin C, with great natural antioxidant potential,

and is excellent for manufacturing cosmetics that act against skin aging, such as anti-wrinkle or antisagging creams⁵. Umbu *in natura* can be sold in street markets and supermarkets. Whereas the fruit pulp is used in the preparation of sweets, jam, jelly, ice cream, juice, liqueur, syrup, concentrated paste, pickles, creams, etc⁶. Some communities of farmers remove the tuberous roots (xylopodium) from the adult umbu trees to produce sweets and pickles⁷.



COMMUNITY VENTURES OF THE CERRADO



COMMUNITY VENTURES



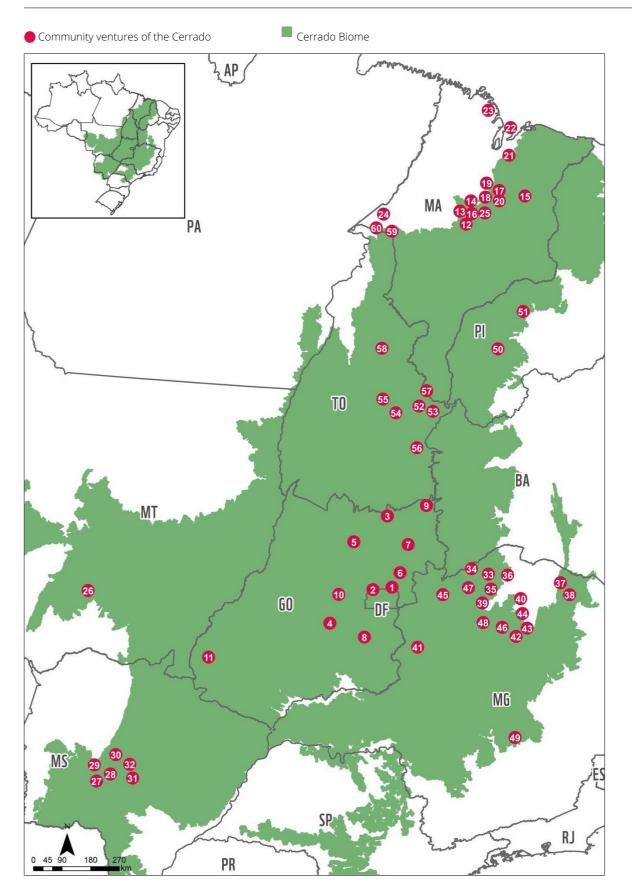
Community ventures involved with the extractivist chains of the Cerrado help **promote the conservation and sustainable use of biodiversity, thus improving the quality of life of communities and traditional peoples of the biome**, in addition to providing **income generation alternatives**. In its entirety, these organizations – which are mostly formed by indigenous leaders, women, and traditional communities – combine activities such as agriculture, plant collection, beekeeping/meliponiculture and handicraft¹.

The access to the market of sociobiodiversity and agroecology products is essential to benefit the agroextractivist production, as well as to expand the marketing channels for Cerrado products, in order to help a significant number of extractivists, who make sustainable use of the species diversity of the biome. Thus, **this publication is a way to publicize the community ventures which operate and market in the Cerrado**. By opting for sustainable consumption, consumers can purchase products from enterprises that contribute to environmental conservation and generate income for traditional peoples and communities.

The following pages record an initial effort to map some community ventures in the Cerrado. The information presented was obtained by consulting the organizations themselves.

Therefore, this section aims to disseminate the work of the organizations and encourage the commercialization of the cooperatives and associations products in order to value the work of the producers. 28

COMMUNITY Ventures by state



FEDERAL DISTRICT

DF

1. CENTRAL DO CERRADO (Sobradinho/DF)

2. COOPERCARAJÁS

Cooperative of Agroecological Production and Commercialization of Carajás (Plano Piloto/DF)

GOIÁS | GO

3. AQK

Quilombo Kalunga Association (Cavalcante/GO)

4. COOPCERRADO

Mixed Cooperative of Family Farmers, Extractivists, Fishermen, River Dwellers, Settlers, and Tourist Guides of the Cerrado (Goiânia/GO)

5. COOPEAG

Agroecological Cooperative of Family Producers of Niquelândia (Niquelândia/GO)

6. COOPERVAL

Mixed Cooperative of Vale da Esperança (Formosa/GO)

7. AMBRABOM

Association of Rural Women Producers of the Bom Sucesso Settlement (Flores de Goiás/GO)

8. COOMAFAB

Mixed Cooperative of Family Farmers of Buritizinho and Region (Orizona/GO)

9. ASSOCIAÇÃO QUILOMBOLA DA VAZANTE

(Divinópolis de Goiás/GO)

10. PROMESSA DE FUTURO

(Pirenópolis /GO)

11. COOPERMIN

Mixed Cooperative of Family Farmers of Mineiros (Mineiros/GO)

MARANHÃO

12. AMTR



Association of Rural Women Workers of Lago do Junco and Lago dos Rodrigues

(Lago do Junco/MA)

13. AJR

Association of Rural Youth (Lago do Junco/MA)

14. COPPALJ

Cooperative of Small Agroextractivist Producers of Lago do Junco (Lago do Junco/MA)

15. ACTBB

Community Association of Babassu Workers and Processing (Codó/MA)

16. AMOSSAJE

Association of Residents of Saudade, São José, and Encruzilhada (Trizidela do Vale/MA)

17. GRUPO DE MULHERES DE SANTANA

(São Luís Gonzaga do Maranhão/MA)

18. ACESA

Community Association for Health and Agriculture Education (Bacabal/MA)

19. AVESOL

Association Win Together in Solidarity Economy (Bacabal/MA)

20. ASSEMA

Association of Settlement Areas in the State of Maranhão (Pedreiras/MA)

21. COOBAVIDA

Cooperative Babassu means Life (Itapecuru Mirim/MA)

22. CIMQCB

Interstate Cooperative of Babassu Coconut Women Breakers (São Luís/MA)

23. AMOQUIF

Quilombo Frechal Residents Association (Mirinzal/MA)

24. ATARECO

Association of Agroextractivist Workers of RESEX Ciriaco (Cidelândia/MA)

25.COOPAESP

Cooperative of Small Agroextractivist Producers of Esperantinópolis (Esperantinópolis/MA)

MATO GROSSO

MT

26. CENTRAL DA BAIXADA CUIABANA

Central Cooperative of Family Agriculture of Baixada Cuiabana (Várzea Grande/MT)

MATO GROSSO DO SUL

MS

27. CEPPEC

Cerrado Production, Research and Training Center (Nioaque/MS)

28. GRUPO BARU

Association of Women of the São Manoel Settlement (Anastácio/MS)

29. COPRAN

Cooperative of Rural Producers of Pulador de Anastácio (Anastácio/MS)

30. COOPVERDE

Mixed Agricultural Cooperative (Terenos/MS)

31. COOPERANA

Cooperative of Rural Producers of the Nova Aliança Settlement (Terenos/MS)

32. ASSOCIAÇÃO FAMILIAR

BOA ESPERANÇA (Terenos/MS)

MINAS GERAIS

33. ASSUSBAC

Association of the Rio dos Cochos Sub-Basin Users (Januária/MG)

MG

34. COOPAE

Cooperative of Small Agroextractivist Producers of Pandeiros (Januária/MG)

35. COOPERUAÇU

Cooperative of Family and Agroextractivist Farmers of the Peruaçu Valley (Januária/MG)

36. SABORES DE AGRESTE

Association of Small Producers and Rural Family Farmers of Agreste (Januária/MG)

37. COOPAAB

Cooperative of Agroextractivist Family Farmers of Água Boa II (Rio Pardo de Minas/MG)

38. COOPAV

Cooperative of Agroextractivist Family Farmers of Vereda Funda (Rio Pardo de Minas/MG)

39. COOPANORTE

Cooperative of Agroextractivist Family Farmers and Fruit Processing Workers of the Northern Minas Cerrado (São Francisco/MG)

40. MULHERES DO CERRADO

Women of the Cerrado Agroextractivist Regional Cooperative (São João da Ponte/MG)

41. COOPERFAN

Mixed Cooperative of Settlers and Family Farmers of Northwest Minas Gerais (Paracatu/MG)

42. COOPERRIACHÃO

Cooperative of Family Farmers and Environmental Agroextractivists of the Riachão Valley (Montes Claros/MG)

43. COOPERATIVA GRANDE SERTÃO

Grande Sertão Family and Agroextractivist Farmers Cooperative (Montes Claros/MG)

44. NÚCLEO DO PEQUI

Cerrado Management Group of Pequi and other Fruits Production Chain (Montes Claros/MG)

45. COPABASE

Regional Base Cooperative of Family and Extractivist Farming (Arinos/MG)

46. DELÍCIAS DE SALTO

Association of Family Farmers of Salto and Surroundings (Coração de Jesus/MG)

47. COOPSERTÃO VEREDAS

Sertão Veredas Agrosilvopastoral Extractivist Producers Regional Cooperative (Chapada Gaúcha/MG)

48. ACOMAM

Association of Small Producers of Mariana and Manteiga (Ponto Chique/MG)

49. CONCENTRA

Central Peasant Cooperative of Minas Gerais (Contagem/MG)

PIAUÍ | PI

50. ATFAC

Association of Workers, Children and Friends of Currais do Piauí (Currais/PI)

51. ADRPA

Placa and Surroundings Rural Development Association (Bertolínia/Pl)

TOCANTINS | TO

52. ASSOC. DO POVOADO DO MUMBUCA

Association of Artisans and Extractivists of the Mumbuca Village (Mateiros/TO)

53. ACAPPM

Community Association of Artisans and Small Producers of Mateiros (Mateiros/TO)

54. ASSOC. LAGOA DO TOCANTINS

Development Community Association of Lagoa do Tocantins (Lagoa do Tocantins/TO)

55. BARRA DE AROEIRA

Community Association of the Quilombos of Barra de Aroeira (Santa Tereza Do Tocantins/TO)

56. AS DIANAS

Association of Artisans of Dianópolis (Dianópolis/TO)

57. ASSOC. POVOADO PRATA

Community Association of Extractivists, Artisans and Small Producers of the Prata Village (São Félix Do Tocantins/TO)

58. COOPERFRUTO

Northeast Tocantins Agroforestry Cooperative (Santa Maria do Tocantins/TO)

59. ASMUBIP

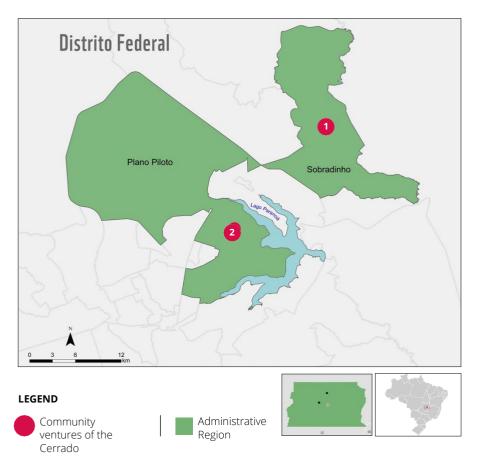
Regional Association of Rural Women Workers of Bico do Papagaio (São Miguel do Tocantins/TO)

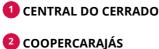
60. ARENT

Association of the Extreme North of Tocantins Extractivist Reserve (Carrasco Bonito/TO)



FEDERAL DISTRICT JDF





1. CENTRAL DO CERRADO

Created in 2004, Central do Cerrado (Cerrado Central) is a cooperative that brings together more than 250 products from the Cerrado and the Caatinga, from various organizations of agroextractivist family farmers who develop productive activities from the sustainable use of biodiversity. It promotes traditional lifestyles and the integration of community products for sustainable use in regional, national and international markets.

PRODUCTS SOLD

Baru nuts, oils (babassu coconut, pequi fruit, macauba nut, licuri, buriti, and others), native fruit pulps, sour coconut beer, umbu and other native fruits jams and jellies, pequi nut, pequi fruit pulp and paste, flours (babassu mesocarp, jatoba, cassava, and others), baru pesto, fruit jellies, pequi sauce, macauba coconut powder and bar soap, golden grass handicrafts, etc.

ADDRESS

SES, Quadra 14, Lote 02, Setor Econômico de Sobradinho Brasília/DF CEP: 73020-414

CONTACT



centraldocerrado.org.br

2. COOPERATIVE OF AGROECOLOGICAL PRODUCTION AND COMMERCIALIZATION OF CARAJÁS – COOPERCARAJÁS

The **Cooperative of Agroecological Production** and Commercialization of Carajás

(COOPERCARAJÁS) was created in 2016 and has experienced producers, rural youth and women, as well as urban consumers who support agroecological production. It aims to work with virtual commerce and solidarity economy from focus groups of 12 families in three settlements in the Federal District and Surroundings in order to generate income and support community organizations.

PRODUCTS SOLD

Baru *in natura*, baru beer, and production of agroecological vegetables.

ADDRESS

Quadra SCLRN, 712 bloco e entrada 10, SN, sala 201, Asa Norte Brasília/DF CEP: 70760-515

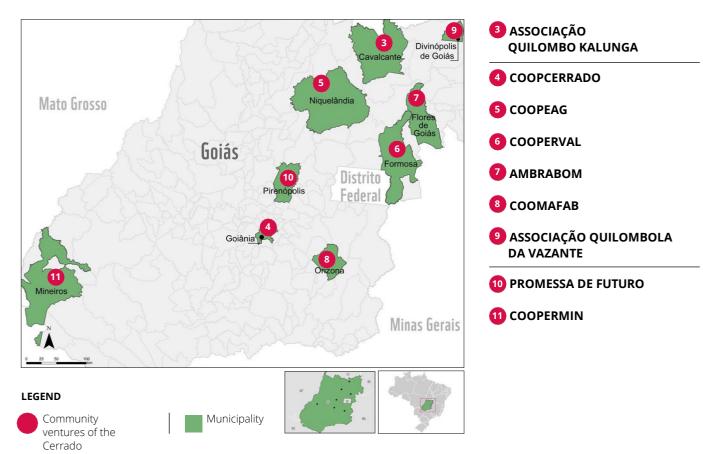
CONTACT

9 (61) 9 9619-6870

vicentalmeida@gmail.com



GOIAS | GO



3. ASSOCIAÇÃO QUILOMBO KALUNGA – AQK

Created in 1999, the **Kalunga Quilombo Association** (**AQK**), is a civil, non-profit entity, aiming at defending the rights, integrity and land regularization of the Kalunga people's territory and promoting their culture. The Kalunga people pioneered the International Registry of their Territory in Brazil as Conserved Areas by Indigenous and Local Communities (TICCAs) of the UN Environmental Program (UNEP-WCMC), strengthening the AQK and Kalunga community.

PRODUCTS SOLD

Oils of pequi, buriti and babassu; pulps of buriti, mangaba, acerola, cagaita and cashews; sweets of buriti and papaya, among other products, such as baru *in natura*, roasted baru, saffron, jatoba flour, rapadura, jenipapo wine, pequi seed, cassava flour, garrafadas (folk medicinal wine), natural community herbs and handmade products such as hats, baskets, carpets and brooms.

ADDRESS

Rua 05, quadra 72, lote 773, setor Cavalcantinho Cavalcante/GO CEP: 73790-000

CONTACT



⊕ guilombokalunga.org

4. MIXED COOPERATIVE OF FAMILY FARMERS, EXTRACTIVISTS, FISHERMEN, RIVER DWELLERS, SETTLERS, AND TOURIST GUIDES OF THE CERRADO – COOPCERRADO

CoopCerrado is a sociobiodiverse community network that involves more than 5,000 families of agroextractivists in the Cerrado, conducting agroecological, organic and sustainable management. Its products are recognized by the collective brand Emporium of the Cerrado, certified organically in a participatory way by CEDAC¹. CoopCerrado indirectly safeguards the welfare of 28,000 people through the sustainable use and conservation of biodiversity, managing 270 species in 124,000 hectares. For a systemic approach to biodiversity conservation, CoopCerrado received the UN award at the *12th Equator Prize 2021*.

PRODUCTS SOLD

Baru, pequi, buriti, jatoba, fava-d'anta, catuaba, mulungu, sucupira, babaçu, pau d 'arco, monkey's pepper, chestnuts, creams and sauces, wholemeal flours, teas, condiments and spices, vegetable oils, resins, dyes, phytopharmaceuticals, aromatic and medicinal plants.

ADDRESS

Rua JDA-2, s/nº, em frente a quadra 15, lote 35, Jardim das Aroeiras Goiânia/GO CEP: 74770-470

CONTACT



5. COOPERATIVA AGROECOLÓGICA DOS PRODUTORES Familiares de Niquelândia - Coopeag

The Agroecological Cooperative of Family Producers of Niquelândia (COOPEAG) was

founded from an initiative of students and teachers in the discipline of Cooperativism and Associativism of the technical course in Agriculture of the Tiradentes Educational Institute, in 2018. The organization commercializes agroecological products directly from rural producers in physical and virtual stores (coopeag.com.br). It also has agroforestry implementation incentive programs for its members and a policy of social inclusion of rural women.

PRODUCTS SOLD

Exotic and Cerrado fruit pulps, Cerrado honey, baked goods, dairy products, rapadura (a type of brown sugar bar), fruits, vegetables and sweets.

ADDRESS

Avenida Brasil, nº 310, setor Valparaíso, sala 3 Niquelândia/GO CEP: 76420-000

CONTACT





(62) 9 9959-3803



coopeagnig@gmail.com

coopeag.com.br

6. COOPERATIVA MISTA DO VALE DA ESPERANÇA – COOPERVAL

The Mixed Cooperative of Vale da Esperança (Valley of Hope) - COOPERVAL is within the Vale da Esperança Agrarian Reform settlement in the state of Goiás. The Cooperative works with institutional markets, such as the National School Food Program (PNAE), and participates in fairs and conferences. The organization has more than 70% of female participation, mainly in the development of agroextractivism, with the objective of generating income and promoting sustainability.

PRODUCTS SOLD

Fruits of the Cerrado such as baru, cagaita, mangaba and jatoba, as well as mango, cashew, guava, acerola and passion fruit jellies.

ADDRESS

Zona Rural, Área Projeto de Assentamento Colonização Vale da Esperança, lote 108 Formosa/GO CEP: 73801-970

CONTACT



gomespedro1347@gmail.com

€ cooperval.blogspot.com

7. ASSOCIAÇÃO DE MULHERES PRODUTORAS RURAIS DO ASSENTAMENTO BOM SUCESSO – AMBRABOM

The Association of Rural Women Producers of the

Bom Sucesso Settlement (AMBRABOM) is based in the community of the Bom Sucesso Settlement, located in the Northeast region of Goiás, an area of guilombola remnants. Consisting mainly of women, the association was formed as resistance and struggle for the socioeconomic development of their families. The source of income of these women is, to a large extent, the processing of fruits, peppers and vegetables sold at the institutional markets and Supply Centers of Goiás.

PRODUCTS SOLD

Baru, pequi, fruit pulps and agroecology products.

ADDRESS

Assentamento Bom Sucesso 1, Zona Rural. Flores de Goiás/GO CEP: 73890-000

CONTACT



8. COOPERATIVA MISTA DOS AGRICULTORES Familiares de Buritizinho e região - coomafab

The **Mixed Cooperative of Family Farmers of Buritizinho and Region (COOMAFAB)**, located in the center of Buritizinho, district of the city of Orizona, has more than 160 members, with the objective of improving their productivity and quality of life of their families. In 2017, the cooperative joined the extractive segment of the baru nut, very common in the region. *Castanha do Cerrado* is the name of the website that sells roasted baru nuts, produced by the cooperative members on their properties or from other producers in that region.

PRODUCTS SOLD

Roasted baru nuts and products from family farming.

ADDRESS

Rua 01, nº 10, Centro, Distrito de Buritizinho Orizona/GO CEP: 75280-000

CONTACT



@barucastanhadocerrado @coomafab

64) 3423-3023

(64) 9 9952-5348

🗹 coomafab@coomafab.com.br

9. ASSOCIAÇÃO QUILOMBOLA DA VAZANTE

The Vazante (ebb tide) Quilombola Association

represents the quilombola community recognized and certified by the Palmares Foundation in 2017, in the municipality of Divinópolis de Goiás. With a rich history of struggle and cultural traditions, the organization has 97 members and works in the promotion of community life for the free expression of cultural manifestations and dissemination of knowledge, as well as in the sustainable use of the native biodiversity, contributing to the economic and social development of the region.

PRODUCTS SOLD

Baru, pequi and cajuzinho-do-Cerrado.

ADDRESS

Rua 04 S/N, QD 01, Setor Central, Povoado Vazante Divinópolis de Goiás/GO CEP: 73865-000

CONTACT



(62) 9 9838-1677

assocvzt@mail.com



sites.google.com/view/assocvzt/home

10. PROMESSA DE FUTURO

The **Promise of Future**, created in 1988 by a group of women from the village of Caxambu, a rural area of Pirenópolis, aims to produce and trade vegetables and other crops in order to increase and diversify food for their families. It stands out for the production and marketing of Cerrado fruits without the use of pesticides. Currently, it is formed by members of the same family, who keep together the works of cultivation, extraction, processing and marketing of fruits and vegetables present in the rural area of Goiás.

PRODUCTS SOLD

Production of sweets, jellies (baru, cashew and cagaita) and roasted chestnuts.

ADDRESS

Fazenda Custódio dos Santos, Zona Rural Pirenópolis Pirenópolis/GO CEP: 72980-000

CONTACT



 \square

@promessadefuturo_

(62) 9 9107-1000

promessadefuturo@hotmail.com

11. COOPERATIVA MISTA DOS AGRICULTORES FAMILIARES DE MINEIROS - COOPERMIN

The Mixed Cooperative of Family Farmers of Mineiros (COOPERMIN) was founded in 2011, with the objective of promoting the consolidation of family farming in the municipalities of Mineiros and region, in the state of Goiás, initially aiming to serve the institutional markets of the National School Food Program (PNAE) and the Food Acquisition Program (PAA). With more than 10 years of experience, formed by more than 48 farmers, COOPERMIN provides food from family farming to municipal and state schools and philanthropic entities.

PRODUCTS SOLD

Baru crackers, fruit pulps, such as tamarind, grape, strawberry, cajá, mango cajá, graviola, guava, pineapple, cashew, passion fruit and acerola, organic products, such as cheese, fruits and vegetables (including tubercles), eggs and baked goods.

ADDRESS

Avenida 11, s/n, Santa Isabel - Qd. 14, Lt. 13 (Antiga Fundação Emas) Mineiros/GO CEP: 75830-002

CONTACT

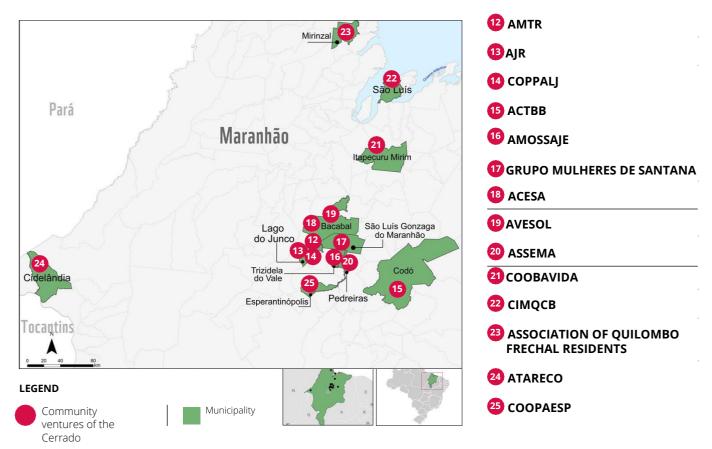


@coopermin_

(64) 9 9968-6516

✓ coopermincma@gmail.com

MARANHÃO | MA



12. ASSOCIAÇÃO DE MULHERES TRABALHADORAS RURAIS DE LAGO DO JUNCO E LAGO DOS RODRIGUES - AMTR

In 1989, babassu coconut women breakers created the **Association of Rural Women Workers of Lago do Junco and Lago dos Rodrigues (AMTR)** as a result of the resistance and as a political instrument to confront the latifundium that dominated babassu crops. This association is a symbol of fight and resistance for the preservation of the region. Currently, it is composed of more than 62 partners and has products derived from babassu.

PRODUCTS SOLD

Babassu soap.

ADDRESS

Povoado Ludovico Lago do Junco/MA CEP: 65710-000

CONTACT



13. Associação de Jovens Rurais - Ajr

The **Association of Rural Youth (AJR)** is an intermunicipal youth organization that has the participation of rural communities from Lago do Junco and Lago dos Rodrigues, in the state of Maranhão, and seeks the appreciation of rural youth identity and policies that meet their demands. The association, through a partner group, Rosalina Alves Artisanal Group (Núcleo Artesanal Rosalina Alves – NARA) produces and markets handmade pieces made of babassu palm and coconut waste.

PRODUCTS SOLD

Babassu bio jewels and accessories, such as necklaces, keychains, earrings, pen holders, rings, bracelets, cups, in addition to other ornamental objects.

ADDRESS

Povoado Ludovico, Zona Rural, s/n Lago do Junco/MA CEP: 65710-000

CONTACT



14. COOPERATIVA DE PEQUENOS PRODUTORES Agroextrativistas do lago do junco – coppalj

The **Cooperative of Small Agroextractivist Producers from Lago do Junco – COOPALJ** was founded in 1991 by agroextractivist farmers from the municipalities of Lago do Junco and Lago dos Rodrigues. COPPALJ is known for its production and commercialization in different markets, including refined organic oil for culinary use, crude organic oil for industrial use, and babassu pie for animal use. The organization has more than 264 members working in the solidarity economy context.

PRODUCTS SOLD

Refined organic babassu oil and babassu pie.

ADDRESS

Rua Nova Brasília, 200, Bairro Nova Brasilia, Lago do Junco/MA CEP: 65710-000

CONTACT



assema.org.br

15. ASSOCIAÇÃO COMUNITÁRIA DOS TRABALHADORES No beneficiamento do babaçu – Actbb

Created **in 1999, the Community Association of Babassu Processing Workers (ACTBB)** originated from women's fight for free access to babassu coconut and against numerous types of gender violence suffered in the Codó region of Maranhão. There are approximately 180 associated women breakers who sell babassu coconut.

PRODUCTS SOLD

Babassu straw (fish baskets, fans, mats, etc.), babassu mesocarp flour, babassu oil, and babassu soap.

ADDRESS

Rua do Puraque, 220 Codó/MA CEP: 65400-000

CONTACT

(99) 9 8469-4832

16. ASSOCIAÇÃO DOS MORADORES DE SAUDADE, São José e Encruzilhada — Amossaje

The Association of Residents from Saudade, São

José, and Encruzilhada (AMOSSAJE) is a group formed by residents of the municipality Trizidela do Vale, which aims to emphasize the social importance of babassu and environmental preservation. It is formed by more than 20 associates and fights against the devastation of babassu crops and for the full use of coconut to facilitate the extraction of babassu as a source of income for families.

PRODUCTS SOLD

Babassu derivatives, such as olive oil and hair oil.

ADDRESS

Povoado Saudade, S/N, Zona Rural Trizidela do Vale/MA CEP: 65727-000

CONTACT

(99) 9 9229-4252

17. GRUPO MULHERES DE SANTANA

The Women from Santana Group is located in the Santana quilombola community, in the municipality of São Luís Gonzaga do Maranhão. It is an informal group formed by 15 women farmers and babassu coconut breakers that self-values the traditional knowledge of women in the management of native fruits of the Cerrado for the production and commercialization of homemade liqueur and fruit jams, thus improving the food security of families and generating income.

PRODUCTS SOLD

Regional fruit liqueur such as tamarind, pineapple, acerola, genipap, and fruit jellies such as mango.

ADDRESS

Povoado Rural Santana, S/N, São Luís Gonzaga do Maranhão/MA CEP: 65708-000

CONTACT

()



assema.org.br

18. ASSOCIAÇÃO COMUNITÁRIA DE EDUCAÇÃO EM Em saúde e agricultura – acesa

The Community Association for Health and

Agriculture Education (ACESA) is a nongovernmental organization that was created in 2006, in the Territory of the Mearim Valley, to advise farmers and families in their processes of fighting for essential rights in the fields of agroecology, food and nutrition sovereignty, and security, education, health and public policies.

PRODUCTS SOLD

Promotion of babassu derivatives sale.

ADDRESS

Rua 10 de Novembro nº 143, Bairro da Esperança Bacabal/MA CEP: 65700-000

CONTACT



🙆 @acesa.eco

(99) 98173-4678
 (99) 98822- 4253
 (99) 992063831



🗹 acesa.coordenacao@gmail.com

acesa.eco.br

co.br

19. ASSOCIAÇÃO VENCER JUNTOS Em Economia Solidária – Avesol

The Association Vencer Juntos (Win Together) in Solidarity Economy (AVESOL) is a noneconomic and nonprofit civil society organization headquartered in the city of Bacabal. It promotes sustainable actions from socio-environmental projects by means of a Solidarity Revolving Fund and aims to impact the income generation of community groups through technical and political training of traditional communities and peoples (farmers, extractivists, artisans, and others) from the Médio Mearim microregion of Maranhão.

PRODUCTS SOLD

Babassu derivatives, such as oil and liqueur, besides handicrafts, such as coasters and bio jewels, and other products of family agriculture.

ADDRESS

Rua Frederico Leda, 1517 A, Centro Bacabal/MA CEP: 65700-000

CONTACT

 \odot



(98) 99176-7476

☑ avesolmaranhao@gmail.com

20. ASSOCIAÇÃO EM ÁREAS DE ASSENTAMENTO No estado do maranhão — Assema

The Association in Settlement Areas in the State of Maranhão (ASSEMA) is an

associative, non-profit organization. Founded 29 years ago, it is run by babassu coconut extractivist farmers, who make up and represent associations, quilombola communities, cooperatives, and rural unions.

PRODUCTS SOLD

Babassu derivatives produced by family agriculture: babassu mesocarp flour, soap, crude and refined organic oil, pie, and olive oil.

ADDRESS

Rua da Prainha, 551, Bairro São Benedito Pedreiras/MA CEP: 65725-000

CONTACT



@AssemaGentedeFibra



AssemaGentedeFibra

(99) 9 8843-2296 (99) 9 8537-8377



🗹 gentedefibra@assema.org.br

assema.org.br

21. COOPERATIVA BABAÇU É VIDA – COOBAVIDA

The Babaçu é Vida Cooperative (COOBAVIDA),

created in 2015 and located in the municipality of Itapecuru-Mirim, seeks to sensitize consumers about the threat to babassu crops. This cooperative consists of more than 80 women who use babassu coconut as a source of income for families in the region. Through the maintenance and reproduction of traditional ways of using the territories, the coconut breakers promote the production, commercialization, management, and preservation of babassu crops.

PRODUCTS SOLD

Babassu derivatives such as biscuits, olive oil, soap, ice cream and bread are examples of products sold.

ADDRESS

Rua Santa Cruz, 0, Povoado Vinagre Itapecuru Mirim/MA CEP: 65485-000

CONTACT



22. COOPERATIVA INTERESTADUAL DE MULHERES QUEBRADEIRAS DE COCO BABAÇU – CIMQCB

The Interstate Cooperative of Babassu Coconut Women Breakers (CIMQCB) is an

organization of community productive groups formed by women who collect and process babassu coconut in the states of Pará, Maranhão, Tocantins and Piauí. The organization was founded in 2009 and is headquartered in São Luís, Maranhão.

PRODUCTS SOLD

Olive oil, soap, flour, handicraft pieces, babassu mesocarp cake and cookie.

ADDRESS

Rua da Palma, 489 Centro São Luís/MA CEP: 65010-440

CONTACT



23. ASSOCIAÇÃO DE MORADORES Do Quilombo Frechal – Amoquif

The Frechal Quilombo is one of the oldest in the state of Maranhão, and the **Association of Frechal Quilombo Residents (AMOQUIF)** was created in 1985 as an instrument for organizing and claiming their rights for land, education, health, and agricultural production. Currently, AMOQUIF is composed of 125 families. They use Cerrado sociobiodiversity products as an important strategy for the quilombola community conservation and income generation.

PRODUCTS SOLD

Babassu straw and crafts of raw materials from extractivism, besides buriti, babassu, and bamboo.

ADDRESS

Quilombo Frechal Extractive Reserve, S/N Mirinzal/MA CEP: 65265-000

CONTACT

98) 9 8869-2417

✓ amoquif@gmail.com

24. ASSOCIAÇÃO DOS TRABALHADORES Agroextrativistas da resex ciriaco – atareco

The Association of Agroextractivist Workers of the Ciriaco Extractive Reserve (ATARECO) is an organization with more than 200 members present at the Ciriaco Extractive Reserve Federal Conservation Unit in the municipality of Cidelândia, Maranhão. The association was created to facilitate the extraction of babassu coconut to produce oil and market other products from the Cerrado biome.

PRODUCTS SOLD

Hog plum pulp, buriti pulp, bacuri pulp, cupuassu pulp, mango pulp, acaí pulp, babassu coconut mesocarp, babassu coconut olive oil, babassu coconut oil, babassu charcoal, and other family agriculture.

ADDRESS

Povoado Ciriaco S/N Cidelândia/MA CEP: 65000-000

CONTACT



25. COOPERATIVA DOS PEQUENOS PRODUTORES Agroextrativista de esperantinópolis – coopaesp

Founded in 1992, the **Cooperative of Small Agroextractivist Producers of Esperantinópolis** (**COOPAESP**) produces and markets babassu mesocarp in the national market, aiming to improve the income of more than 80 families associated with the cooperative, to strengthen associativism/cooperativism, solidarity economy and the ethical consumption of products from family-based agroextractivism.

PRODUCTS SOLD

Babassu mesocarp flour and jaborandi leaves.

ADDRESS

Rua Getúlio Vargas, 1.113, Bairro Laranjal Esperantinópolis/MA CEP: 65750-000

CONTACT

@AssemaGentedeFibra

@assema.gentedefibra

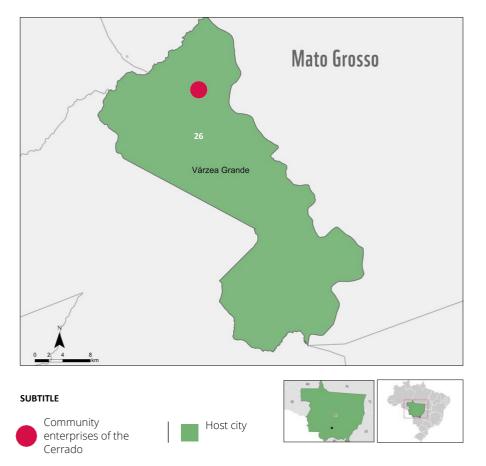
(99) 98831-4146 (99) 98537-8377

☑ assemacomercio@assema.org.br

↔ assema.org.br



MATO GROSSO | MT





26. COOPERATIVA CENTRAL DA AGRICULTURA FAMILIAR da baixada cuiabana – central da baixada cuiabana

The **Baixada Cuiabana Central Cooperative of Family Agriculture - CENTRAL DA BAIXADA CUIABANA** was created in 2014 to enable its members to have greater representation in the launch of products on the market. They develop other activities, such as technical assistance, emphasizing agroecological production and marketing incentive.

PRODUCTS SOLD

Baru nut and food from family farming.

ADDRESS

Rod. Mário Andreaza, Nova Esperança Várzea Grande/MT CEP: 3640-4302

CONTACT



@centraldabaixadacuiabana

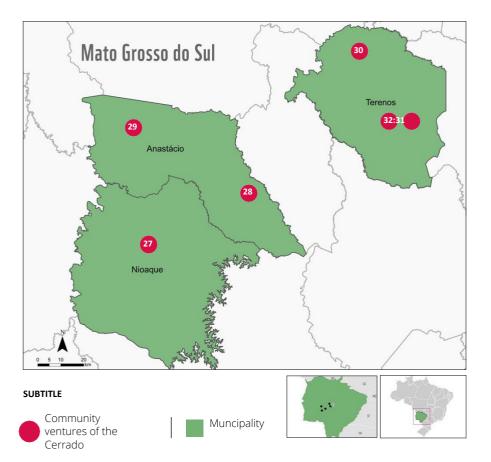
(65) 3043-3343

(65) 9 9305-6386



lulaponce2013@hotmail.com

MATO GROSSO DO SUL | MS



27	CEPPEC	
28	GRUPO BARU	
29	COPRAN	
30	COOPVERDE	
31	COOPERANA	•
32	ASSOCIAÇÃO BOA ESPERANÇA	

27. CENTRO DE PRODUÇÃO, PESQUISA E Capacitação do cerrado – ceppec

Founded in 2005, the **Cerrado Production, Research and Training Center - CEPPEC** is an organization composed of family farmers from the Andalucia settlement. Acknowledged on the national and international scenes, working with rural settlements, indigenous lands of the Terena peoples and quilombola territories of Mato Grosso do Sul, it aims to provide income generation and improve the quality of life of families through sustainable extraction.

PRODUCTS SOLD

Baru nut, jatobá and pequi flour and different handicraft.

ADDRESS

Assentamento Andalucia, lote 36, Área Rural

Nioaque/MS CEP: 79220-000

CONTACT



ceppec.cerrado@gmail.com

28. ASSOCIAÇÃO DE MULHERES DO Assentamento são manoel – grupo baru

The **São Manoel Settlement Association of Women - GRUPO BARU** is an association formed mostly by women, in the São Manoel Settlement, in the State of Mato Grosso do Sul. The creation of the association aims to generate income for these women, through the processing of native fruits of the Cerrado.

PRODUCTS SOLD

Baru nut, baru flour, jatobá, pequi and macaúba.

ADDRESS

Assentamento São Manoel Anastácio/MS

CEP: 79210-000

CONTACT



(67) 9 9949-6828

sitionature114@gmail.com

29. COOPERATIVA DOS PRODUTORES Rurais do Pulador de Anastácio – Copran

The **Pulador de Anastácio Cooperative of Rural Producers - COPRAN**, founded by the traditional farmers of Colônia Pulador, in 2005, aimed at the commercial organization of its main product: the Pulador Flour, known in the region for being produced in an artisanal way, in addition to being traditional and of good quality. The cooperative also operates in the production of Cerrado goods, with the objective of improving the socioeconomic conditions of the workers in the region.

PRODUCTS SOLD

Baru, cassava flour and other agroecological products.

ADDRESS

Rua João Câncio Alves, 152, Setor Anastácio/MS

CEP: 79210-000

CONTACT



(67) 3245-1982

(67) 9 9918-1036

🖸 copran_pulador@hotmail.com

www.copran.com.br

30. COOPERATIVA MISTA AGROPECUÁRIA – COOPVERDE

The Mixed Agricultural Cooperative - COOPVERDE

was established in 2010 under a board 40% composed of women, with the objective of organizing farmers and family farmers in the Campo Verde settlement, Mato Grosso do Sul. It aims to support and increase production to improve the quality of life of its more than 30 associates who aim to produce for different markets, such as the National School Food Program (PNAE), fairs, stores etc.

PRODUCTS SOLD

Baru, macaúba, gueroba and agroecological products.

ADDRESS

Assentamento Campo Verde, S/N Lote 61, Zona rural

Terenos/MS CEP: 79190-000

CONTACT

(67) 9 9939-0113

coopverdeterenos@hotmail.com

31. COOPERATIVA DOS PRODUTORES RURAIS Do Assentamento Nova Aliança – Cooperana

The **Cooperative of the Nova Aliança Settlement Rural Producers - COOPERANA** was founded in 2011, with the objective of promoting the consolidation of family farming and the solidarity economy in the municipality of Terenos, initially aiming to serve the institutional markets of the National School Food Program (PNAE) and the Food Acquisition Program (PAA). Created over 10 years ago, the cooperative provides food from family farming to municipal and state schools and philanthropic entities.

PRODUCTS SOLD

Baru in natura and agroecological products.

ADDRESS

Loteamento Assentamento Nova Aliança, L.67, Zona Rural

Terenos/MS CEP: 79190-000

CONTACT



cooperanaterenos@gmail.com

32. ASSOCIAÇÃO FAMILIAR BOA ESPERANÇA

The **Boa Esperança (Good Hope) Family Association**, located in the Nova Aliança settlement, in the municipality of Terenos, is a non-profit association that works with more than 110 associated families in social projects with Cerrado fruits and the rural housing project registered in the city ministry. Its objective is the valorization of traditional practices and environmental preservation.

PRODUCTS SOLD

Baru in natura and agroecological products.

ADDRESS

Loteamento Assentamento Nova Aliança, L.67, Zona Rural

Terenos/MS CEP: 79190-000

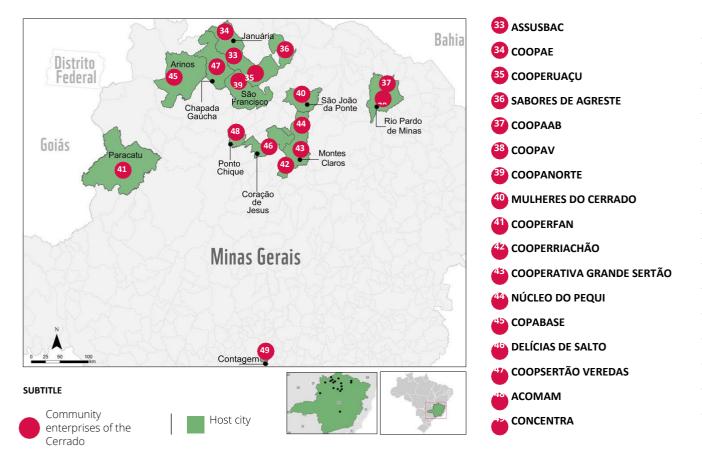
CONTACT

(67) 9 9698-3982

cooperanaterenos@gmail.com



MINAS GERAIS | MG



33. ASSOCIAÇÃO DOS USUÁRIOS DA SUB-BACIA Do Rio dos cochos — Assusbac

The **Association of Users of Rio dos Cochos Sub-Basin - ASSUSBAC**, created in 2003, is formed by more than 20 people, mainly women, and presents a history of resistance and use of community mobilization strategies through the creation of groups of articulators and multipliers for raising environmental, political, cultural and social awareness in the basin of Rio dos Cochos.

PRODUCTS SOLD

Pequi nut, frozen pequi, pickled pequi pulp, bee honey, jams and jellies.

ADDRESS

Comunidade Rural de Sambaíba, Distrito de Brejo do Amparo Januária/MG

CEP: 39480-000

CONTACT

(38) 9 9205-8141



CATALOGUE OF THE CERRADO SOCIO-BIODIVERSITY PRODUCT

34. COOPERATIVA DOS PEQUENOS PRODUTORES Agroextrativistas de Pandeiros – Coopae

The **Cooperative of Small Agroextractive Producers of Pandeiros - COOPAE** brings together more than 30 families that live on the products of the Cerrado. The products are made from the collection and sustainable management of native fruits of the Cerrado, respecting their seasonality and processing them using natural techniques and products. Recognized for its production of honey and derivatives, it is an ally to the preservation of vegetation.

PRODUCTS SOLD

Babassu *in natura*, babassu oil, babassu nut, crystallized pequi nut, native fruit pulps (araticum, coquinho-azedo, araçá, murici, buriti, cajuí and umbu) and honey.

ADDRESS

Área de Proteção Ambiental da Bacia do Rio Pandeiros Januária/MG

CEP: 39480-000

CONTACT



35. COOPERATIVA DOS AGRICULTORES FAMILIARES E Agroextrativistas do vale do peruaçu – cooperuaçu

The **Peruaçu Valley Cooperative of Family Farmers and Agroextractivists – COOPERUAÇU** was founded in 2016, with the objective of improving the living conditions of the communities of the region and is located near the Cavernas do Peruaçu (Peruaçu Caves) National Park, Minas Gerais. With more than 60 agroextractivists, the cooperative stands out for being a pioneer in the implementation of the CSA (Community that Sustains Agriculture) of the North of Minas Gerais.

PRODUCTS SOLD

Pequi and derivatives, jatobá flour, sweets, jellies, araçá, coquinho-azedo, native guava, Cerrado passion fruit, xiriri and jams and Cerrado fruit pulps.



36. ASSOCIAÇÃO DOS PEQUENOS PRODUTORES E AGRICULTORES Familiares rurais de agreste – sabores de agreste

The Association of Small Farmers and Rural Family Farmers of Agreste - SABORES DE AGRESTE (FLAVOURS OF AGRESTE) was created in 1989, with the objective of promoting the work of women in the rural community of Agreste, in the far north of Minas Gerais. The organization has established a commitment to promote and encourage women to be in action towards full, egalitarian, fraternal and free citizenship, in addition to redesigning history for the future, in a collective but independent way, conquering different spaces in local history.

PRODUCTS SOLD

The use and processing of fruits such as umbu, tamarind, acerola, pink mango, red guava, banana, jams, jellies and sweets.

ADDRESS

Rodovia João Silva Maia (BR 135), KM 36 Distrito de Levinópolis Januária/MG

CEP: 39400-498

CONTACT



9930-3244 (38) 9

(38) 9 9994-1898

(38) 9 9943-9232

unidosdeagreste@yahoo.com.br

37. COOPERATIVA DE AGRICULTORES FAMILIARES Agroextrativista de Água Boa II – Coopaab

The creation of the **Água Boa (Good Water) II Cooperative of Agroextractivist Family Farmers -COOPAAB**, in 2009, made possible a promising path for local development based on the principles of solidarity economy and agrobiodiversity. Located in the buffer zone of the Nascentes (Springs) Geraizeiras Sustainable Development Reserve, the cooperative's main objective is the processing and marketing of products made of native fruits from the Cerrado biome.

PRODUCTS SOLD

Frozen and cultivated fruit pulps, such as cagaita, mangaba, araçá, native passion fruit, coquinho, pequi, murici, araticum, mango, guava, umbu, acerola, orange, passion fruit. Other products, such as cooked pequi pulp, pequi oil, rufão oil and jatobá flour, in addition to *in natura* Cerrado fruits, seedlings of the biome species, seed cultivation and family farming products.

ADDRESS

Comunidade Água Boa II, Zona Rural

Rio Pardo de Minas/MG CEP: 39530-000

CONTACT



(38) 9 9144-9549

(38) 9 9179-8401

(38) 9 9200-7075

➡ coopaab.aguaboa2@gmail.com

38. COOPERATIVA DE AGRICULTORES FAMILIARES AGROEXTRATIVISTAS VEREDA FUNDA – COOPAV

The Cooperative of Agroextractive Family Farmers Vereda Funda (COOPAV), founded in 2010, aims to strengthen the production and commercialization of agroextractive products from families residing in the upper Rio Pardo region, northern Minas Gerais. Composed of more than 32 producers from gerazeiras families, they work with native fruits of the Cerrado, harvested respecting seasonality and proper management, as well as producing banana chips and agroecological coffee.

PRODUCTS SOLD

Pequi pulp, coffee, bread, biscuit, banana raisin, banana chips, banana flour, gum/powder, cassava flour, dye and sugar cane syrup.

ADDRESS

Fazenda Vereda Funda, S/N, Zona Rural Rio Pardo de Minas/MG CEP: 39530-000

CONTACT



(38) 9 9112-2281 (38) 9 9962-2055

39. COOPERATIVA DE AGRICULTORES FAMILIARES AGROEXTRATIVISTA E DOS TRABALHADORES NO PROCESSAMENTO DOS FRUTOS DO CERRADO DO NORTE DE MINAS – COOPANORTE

The Agroextractivist Cooperative of Family Farmers and Fruit Processing Workers of the Northern Minas Cerrado (COOPANORTE) was founded in 2017. Based on mutual cooperation, its social objective is to bring together family farmers, extractivists, guilombolas and geraizeiros involved in the management, cultivation, and processing of native plants and fruits. The cooperative seeks to promote the conservation of natural resources and social inclusion through activities that allow seed processing, production of native and exotic seedlings, and in the manufacture of sociobiodiversity products.

PRODUCTS SOLD

Buriti and banana jam, in natura baru and roasted baru nut, fruit pulps (tamarind, acerola, coquinhoazedo, umbu, passion fruit), fava-d'anta, cagaita, sweets, jellies, ice cream and preserves.

ADDRESS

Avenida Perimetral, 790, bairro João Aguiar São Francisco/MG CEP: 39300-000

CONTACT





(38) 9 9965-1841 coopanorte@outlook.com

40. COOPERATIVA REGIONAL AGROEXTRATIVISTA MULHERES DO CERRADO – MULHERES DO CERRADO

The **Women of Cerrado Regional Agroextractivist Cooperative**, headquartered in São João da Ponte, brings together several municipalities in the northern macro-region of Minas Gerais. In order to meet the demands of the Cerrado extractivist and farmer women, stimulating the organization and commercialization of collective agroecology production. They mobilize and articulate traditional knowledge practices for the preservation of the culture of women, benzedeiras and raizeiras of the North of Minas, by means of home remedies production and preservation of medicinal plants and native plants of the Cerrado.

PRODUCTS SOLD

Natural remedies of native plants and fruit seeds, jellies, fruit pulps, medicinal and native plant seedlings, products of family farming and extractivism in general.

ADDRESS

Rua Bom Jardim, 76 Povoado Bom Jardim São João da Ponte/MG CEP: 39430-000

CONTACT

(38) 9 9179-8922

🗹 mulheresdocerrado@yahoo.com.br

41. COOPERATIVA MISTA DOS ASSENTADOS E AGRICULTORES Familiares do noroeste de minas – cooperfan

The Mixed Cooperative of Settled People and Family Farmers of the Northwest of Minas

(COOPERFAN) was founded in 2010 and is headquartered in the Municipality of Paracatu. It was created from the need to organize the production and marketing of the products of the agrarian reform settled people and family farmers in the region. Its main objective is to carry out actions to strengthen family farming in six municipalities in the Northwest of Minas Gerais and the administration of the economic interests of its 180 associates.

PRODUCTS SOLD

Baru *in natura*, baru chestnut and Cerrado fruit pulps, such as mangaba.

ADDRESS

Rodovia BR 040 km 44, S/N Vila Alvorada Paracatu/MG CEP: 38600-000

CONTACT



42. COOPERATIVA DE AGRICULTORES FAMILIARES E AGROEXTRATIVISTA AMBIENTAL DO VALE DO RIACHÃO – COOPERRIACHÃO

The Riachão Valley Family Farmers and Environmental Agroextractivist Cooperative (COOPERRIACHÃO) is located at the Santa Cruz Farm, Community of Riacho D'antas (also known as Riachão), municipality of Montes Claros, Northern Minas Gerais. It was created in 2009 with the purpose of helping the Association of Small Rural Producers of Riacho D'Antas and surroundings in the processing of macaúba, income generation and environmental preservation. About 450 families from four municipalities are directly benefited by the cooperative, and more than 1,000 people are indirectly favored by the macaúba chain.

PRODUCTS SOLD

Products derived from macaúba, such as oil, chestnut, pulp, endocarp, charcoal, pie, seed, bar soap, soap powder, toilet soap and paste.

ADDRESS

Fazenda Santa Cruz, Comunidade de Riacho D'antas, Zona rural Montes Claros/MG CEP: 39409-899

CONTACT



(38) 9 98157306 (38) 9 99601589



cooperriachao@hotmail.com

cocomacauba.com.br

43. COOPERATIVA DOS AGRICULTORES FAMILIARES E AGROEXTRATIVISTAS GRANDE SERTÃO – COOPERATIVA GRANDE SERTÃO

The Cooperative of Family Farmers and Agroextractivists Grande Sertão (Grande Sertão Cooperative), established in 2003, is an organization of farmers, family farmers and agroextractivists whose principle is the appreciation of traditional crops and natural ecosystems. It operates in

more than 30 municipalities in Northern Minas Gerais, directly or indirectly involving over 2,000 families in the construction of a sustainable model of production, processing and marketing of socio-biodiversity products.

PRODUCTS SOLD

Frozen fruit pulps of various flavors (such as pineapple, acerola, cajá, coconut, native passion fruit, ubá mango, mangaba, umbu and tamarind), pequi derivatives (such as oil, fruit and its frozen pulp, vacuum-packed), buriti oil, cassava flour, roasted baru nut, rapadura and several native products from the Cerrado and Caatinga biomes.

ADDRESS

R. H Andersen, 400, Distrito Industrial Montes Claros/MG CEP: 39404-627

CONTACT



@cooperativagrandesertao

Cooperativa Grande Sertão

(38) 3223-2285

(38) 9 9805-5469

 \sim

cooperativagrandesertao@gmail.com

cooperativagrandesertao.com.br

44. NÚCLEO GESTOR DA CADEIA PRODUTIVA DO PEQUI E OUTROS FRUTOS DO CERRADO - NÚCLEO DO PEQUI

The Management Center of Pequi and Other Cerrado Fruits (PEQUI CENTER) is a network formed by agroextractivist associations, cooperatives and support institutions. It was formed in 2008 by means of the Federal Government Sociobiodiversity National Plan, which promoted the Pequi Production Chain Participatory workshop in Northern Minas Gerais, in Montes Claros. Its objective is to strengthen its members with regard to leadership, management and production, and to foster the marketing of pequi and other Cerrado fruits by its members.

PRODUCTS SOLD BY THE NETWORK VENTURES

Pequi and its derivatives, Cerrado fruit pulps, fava d'anta, honey, jatobá flour, buriti and its derivatives, Cerrado fruit sweets and jams, chestnut, macaúba coconut and its derivatives, coffee, mine rapadura, cachaça and other family farming products.

ADDRESS

Av. Deputado Esteves Rodrigues, 97 A Bairro Melo Montes Claros/MG CEP: 39401-851

CONTACT

@nucleodopequieoutrosfrutosdocerrado

@nucleodopequi

(38) 9 9754-7757

nucleodopequi@gmail.com

45. COOPERATIVA REGIONAL DE BASE NA AGRICULTURA FAMILIAR E EXTRATIVISTA – COPABASE

The Base Regional Cooperative in Family and

Extractive Agriculture (COPABASE), founded in 2008 in the municipality of Arinos, Northwest of Minas Gerais, has the main objective of strengthening, benefiting and marketing products of family farming and Cerrado fruit extractivism. The cooperative also seeks to generate income, empowerment, appreciation of local flavors and preservation of the Cerrado.

PRODUCTS SOLD

Baru, honey, fruit pulps, saffron, brown sugar, rapadura, manioc flour and other agroextractive products.

ADDRESS

Rodovia MG 202, kM 406, Gleba 21D, Arinos CEP: 38680-000

CONTACT

f @copabase

@cooperativacopabase

(38) 9 9110-0091

🗹 copabase@gmail.com

copabase.org

46. ASSOCIAÇÃO DOS AGRICULTORES FAMILIARES DE SALTO E ADJACÊNCIAS – DELÍCIAS DE SALTO

The **Association of Family Farmers of Salto and Surroundings** was created in 1995 by the family farmers of the Salto community. In 2018, the brand **Delícias de Salto** (Delights from Salto) was created for the processing and improvement of pequi and other Cerrado fruits. Associates participated in several training courses on good manufacturing practices in order to improve the processing techniques and add value to the products, to transform the Cerrado fruits into real delights.

PRODUCTS SOLD

Pequi cream, frozen pequi pit, pickled pequi, pequi *in natura*, jatobá flour, farofa with pequi, jams, sweets, pulps and truffles of Cerrado fruits.

ADDRESS

Comunidade do Salto, Zona rural Coração de Jesus/MG CEP: 39340-000

CONTACT

@delicias.docamponortemineiro

(38) 9 9984-0323

 \square

lene_soares_nunes@yahoo.com.br

47. COOPERATIVA REGIONAL DE PRODUTORES Agrissilviextrativistas sertão veredas – coopsertão veredas

The **Regional Cooperative of Agrosilvoextractivists Sertão Veredas (COOPSERTÃO VEREDAS)** was created in 2006 with the objective of organizing the sustainable agroextractivist production in the Chapada Gaúcha and surrounding regions. The cooperative has more than 110 members of traditional communities, agrarian reform settlements and quilombola communities that increase their income with the improvement and appreciation of the Cerrado. It directly serves 28 families and over 300 indirectly.

PRODUCTS SOLD

Pequi oil and flour, buriti oil and zest, frozen fruit pulps of various flavors: guava, mango, acerola, tamarind, coquinho-azedo, Caatinga passion fruit, passion fruit, tamarind, guava, acerola and mango. In addition to the production of cashew sweets and jellies, cagaita, brown sugar, honey, baru and other products.

ADDRESS

Rua São Francisco, Nº 305 Bairro Jardim da Paz Chapada Gaúcha/MG CEP: 38689-000

CONTACT

 \sim



@coopsertaoveredas

🔘 (38) 9 9961-0821

coopsertaoveredas@gmail.com

coopsertaoveredas.blogspot.com

48. ASSOCIAÇÃO PEQUENOS PRODUTORES De mariana e manteiga – Acomam

The Small Producers Association of Mariana and

Manteiga was created with the objective of constituting a viable and accessible alternative to small extractive producers in the North of Minas Gerais, in order to bypass barriers and occupy space in the market. With more than 80 families benefiting from the extraction of Cerrado products, the association respects seasonal cycles with a proper management of biodiversity.

PRODUCTS SOLD

Fruit pulps, such as mango, tamarind, acerola, cashew, guava, umbu and others. Derivatives of pequi *in natura*, preserves, liqueur and pulp. Other products, such as orange liqueur, milk jam and milk. Baru, fava d'anta, achiote, hibiscus, chia, sesame, monkey pepper, etc.

ADDRESS

Fazenda Mariana, Área Rural Ponto Chique/MG CEP: 39328-000

CONTACT



(38) 9 9922-4852



mcmmelo@yahoo.com.br

49. COOPERATIVA CAMPONESA CENTRAL DE MINAS GERAIS – CONCENTRA

Founded in 2018, the **Central Peasant Cooperative of Minas Gerais - CONCENTRA** brings together nine affiliated cooperatives and partners present in the Triângulo Mineiro territory, Sul de Minas, Zona da Mata, Metropolitan Region of Belo Horizonte, Norte de Minas, Alto Paranaíba, Rio Doce, Jequitinhonha and Mucuri. In order to expand the history and culture of Minas Gerais, the cooperative works in the struggle for family farming, with the aim of bringing consumers closer to agroecological products, artisanally made.

PRODUCTS SOLD

More than 90 products, including: baru nut, umbu and tamarind jellies, achiote, saffron seasoning, antipasti such as bamboo shoot, ora-pro-nobis and banana heart, pickled bamboo shoot and jurubeba, banana, guava, milk jam, honey, propolis, native seed beans and red rice, grown between generations.

ADDRESS

Av. General David Sarnoff, 117 Cidade Industrial Contagem/MG CEP: 32260-272

CONTACT

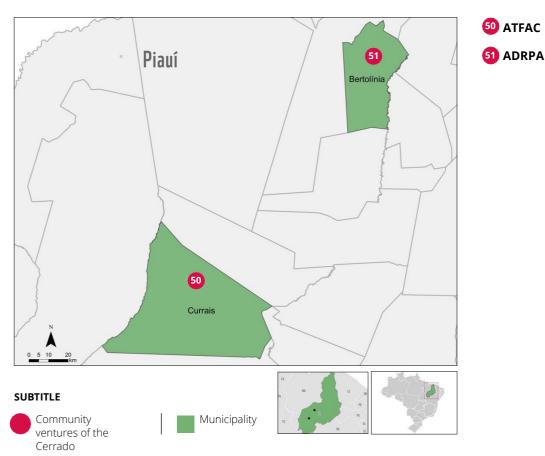
 \sim



(31) 9682-7582

concentra.comercial@gmail.com

PIAUÍ | PI



50. ASSOCIAÇÃO DOS TRABALHADORES FILHOS E amigos de currais do piauí – Atfac

The Association of Workers Children and Friends of Currais of Piauí - ATFAC, created in 2017, is located in the community of Poços de Morada Nova, in the municipality of Currais. The association is formed mainly by peasant and indigenous women, with the objective of strengthening, through their local knowledge, the sustainable agroextractivism of buriti, babassu and family farming, as well as income generation and environmental conservation.

PRODUCTS SOLD

Derivatives of buriti, such as sweets, pulps and oils, soap and babassu oil, as well as products from family farming, such as corn and beans.

ADDRESS

Poços Community, 00 Morada Nova Corrais/PI CEP: 64905-000

CONTACT



✓ claudiarces@gmail.com

51. ASSOCIAÇÃO DE DESENVOLVIMENTO RURAL PLACA E ADJACÊNCIAS – ADRPA

The Association for Rural Development of Placa and Surroundings - ADRPA is headquartered in the Placa community, rural area of the municipality of Bertolínia. Established in 2012, with the main objective of promoting actions aimed at the benefit of family farming by encouraging income generation and improvement in the quality of life of its members. Currently, it has about 80 associates, representing 15 communities in Bertolínia, seeking to promote food and nutritional security, and encourage the strengthening of rural associativism and environmental preservation.

PRODUCTS SOLD

Babassu coconut oil, fruit pulps such as cashew, guava, mango, acerola, buriti, tamarind, buriti sweets and products from family farming.

ADDRESS

Comunidade Placa, S/N Zona Rural Bertolínia/PI CEP: 64870-000

CONTACT

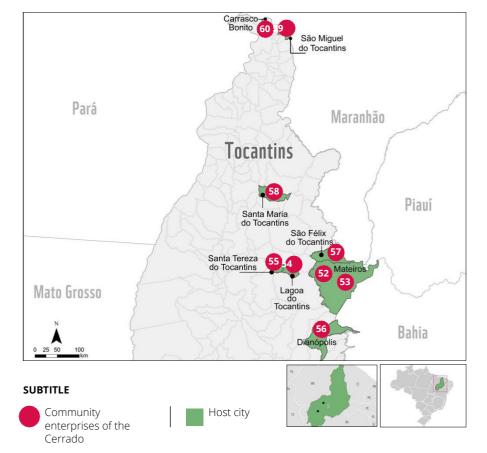


(89) 9 9420-2268





TOCANTINS | TO





52. ASSOCIAÇÃO DE ARTESÃOS E Extrativistas do povoado do mumbuca

The Association of Artisans and Extractivists of the Mumbuca Village, a

quilombola community, was the first to create handicraft from golden grass. Founded in 2000, the female presence is remarkable in leadership and organization. Women are responsible for the production of handicrafts, sale and distribution of earnings, bringing together about 300 people.

PRODUCTS SOLD

Products derived from golden grass, such as hats, baskets, vases, mandalas, trays and biojewels.

ADDRESS

Zona Rural, Povoado de Mumbuca, Mateiros/TO CEP: 77593-000

CONTACT



(63) 9 9222-5768

☑ railaneuniversitaria@gmail.com

53. ASSOCIAÇÃO COMUNITÁRIA DOS ARTESÃOS E PEQUENOS PRODUTORES DE MATEIROS – ACAPPM

The **Community Association of Artisans and Small Producers of Mateiros - ACAPPM**, formed mainly by women, has more than 70 artisans and craftsmen who found their main source of income in the work with the golden grass. In addition to golden grass, it also supports family farming and agroextractivism in the Mateiros region. Founded in 2001, it establishes partnerships with public and private institutions to strengthen the production and marketing of its associates products.

PRODUCTS SOLD

Handicrafts of golden grass and buriti, such as biojewels, bags, hats, wallets, fruit baskets, jewelry boxes, lamps, baskets, vases, mandalas, trays, sousplat and others. Products of agroextractivism, such as oils, nuts, zest, flours and sweets produced with Cerrado fruits, such as cashew, baru, buriti, jatobá, macaúba, mangaba, pequi, piassava and others.

ADDRESS

Avenida Tocantins, Quadra 14, Lote 8 Centro Mateiro/TO CEP: 77593-000

CONTACT



(63) 3534-1054

(63) 9 9139-2172

acappmjalapao@gmail.com

54. ASSOCIAÇÃO COMUNITÁRIA DE DESENVOLVIMENTO DE LAGOA DO TOCANTINS

The Community Development Association of Lagoa

do Tocantins was created for the marketing and production of golden grass handicrafts in the municipality of Lagoa do Tocantins, in 2000. In order to preserve and generate income for their families, artisans produce different types of golden grass pieces for commercialization at local and regional fairs.

PRODUCTS SOLD

Products derived from golden grass, such as hats, baskets, vases, mandalas, trays, biojewels, prayer beads, pot holders and cup holders.

ADDRESS

Av. Novo Acordo, s/n Lagoa do Tocantins/TO CEP: 77613-000

CONTACT





55. ASSOCIAÇÃO COMUNITÁRIA DOS **QUILOMBOS DE BARRA DE AROEIRA**

The Community Association of the Barra de Aroeira Quilombos was created in 2004, with the objective of seeking recognition as a quilombola community, which happened in 2006 through the Palmares Cultural Foundation. The presence of women in the group is an important mark that reflects their involvement with community and collective issues.

PRODUCTS SOLD

Golden grass pieces, such as hats, baskets, vases, mandalas, trays and biojewels. Other handicrafts are also produced by the association, such as viola and buriti fabric baskets. They also sell buriti, mangaba and baru sweets, various fruit pulps (buriti, acerola and bacaba), baru in natura and other products, such as flour, paçoca, pie and candy.

ADDRESS

Povoado Barra de Aroeira, S/N, Barra de Aroeira Santa Tereza do Tocantins/TO CEP: 77615-000

CONTACT



@comunidade_quilombola

 \odot

barra de aroeira quilombola community

(63) 9 9113-3279

56. ASSOCIAÇÃO DIANAPOLINA DE ARTESÃOS – AS DIANAS

In the historic center of Dianópolis, from 2001, with the access facilitation of Jalapão region communities to the nearest cities, the state of Tocantins government, through the Secretariat of Culture, began to encourage golden grass handicraft. That way, a group of women created the Artisans Association of Dianópolis with the objective of articulating and producing golden grass pieces to improve the income of their families.

PRODUCTS SOLD

Golden grass pieces, such as hats, baskets, vases, mandalas, trays and biojewels.

ADDRESS

Rua José Amâncio, 85, quadra 12, lote 3 Dianópolis/TO CEP: 77300-000

CONTACT



f @asdianasada



elienebispo01@hotmail.com

57. ASSOCIAÇÃO COMUNITÁRIA DOS EXTRATIVISTAS, ARTESÃOS E PEQUENOS PRODUTORES DO POVOADO DO PRATA

The Community Association of Extractivists, **Artisans and Small Producers of the Prata** Village, created in 2004 in the Jalapão region, was conceived as a response to the growth of golden grass handicraft, the main source of income for the families of the village. Through the government assistance from the state of Tocantins, the professionals built and structured the Casa do Artesão (House of the Artisan), a place for selling the golden grass handicraft pieces.

PRODUCTS SOLD

Biojewels, artifacts, necklaces made of golden grass, as well as sucupira, barbatimão, copaíba, buriti in natura, buriti jam, dehydrated buriti, rapadura, honey, cassava flour, tropeiro beans and saffron.

ADDRESS

Povoado do Prata São Félix do Tocantins, Zona Rural São Félix do Tocantins/TO CEP: 77605-000

CONTACT



(63) 9107-8056



osirene.sousa@gmail.com luziapassosribeiro2@gmail.com

58. COOPERATIVA AGROFLORESTAL NORDESTE DO TOCANTINS – COOPERFRUTO

The Northeastern Tocantins Agroforestry Cooperative

- COOPERFRUTO, located in the municipality of Santa Maria do Tocantins, is formed by extractivists and family farmers from the region, and its mission is to improve the quality of life of its members through the generation of income and conservation of local vegetation. COOPERFRUTO has more than 40 members.

PRODUCTS SOLD

Buriti jam, honey and frozen fruit pulps (acerola, pineapple, guava, papaya and cashew), manioc flour, candied sweets, preserves, oils and honey from exotic and native bees.

ADDRESS

Rua 14, nº 41 Galpão Fruto do Cerrado Santa Maria do Tocantins/TO CEP: 77710-000

CONTACT



🗹 frutoscerrado@yahoo.com.br

59. ASSOCIAÇÃO REGIONAL DAS MULHERES Trabalhadoras rurais do bico do papagaio – Asmubip

The Regional Association of Rural Women Workers of Bico do Papagaio (Parrot Beak) - ASMUBIP,

created in 1992, aims to articulate the various identities of rural women workers, including in its social base, also, women who are not babassu coconut breakers. The association seeks to implement actions aimed at the organization and training of women for income generation, mainly from the extraction of babassu and environmental preservation. It registers approximately 800 members, organized in 11 municipalities located in the Bico do Papagaio region.

PRODUCTS SOLD

Babassu derivatives such as oil, pie, sweets, flour and crafts.

ADDRESS

Setor Central, Rua Osvaldo Cruz, 503 São Miguel do Tocantins/TO CEP: 77925-000

CONTACT



60. ASSOCIAÇÃO DA RESERVA EXTRATIVISTA Do extremo norte do tocantins – Arent

The Association of the Far North of Tocantins

Extractive Reserve was created in 2001 to represent the extractivists before issues related to the Extractive Reserve of the Far North of Tocantins. Located in the city of Carrasco Bonito (Pretty Executioner), it also operates in adjacent areas, such as the cities of Sampaio and Buriti do Tocantins. With more than 220 families, it aims at trading babassu and conserving the environment through their traditional knowledge. Through ARENT and other groups of coconut breakers in the region, they declared November 7 as the Day of Coconut Breakers in Tocantins.

PRODUCTS SOLD

Products derived from babassu coconut, such as oil, mesocarp, cooking oil, charcoal, chestnut and flour.

ADDRESS

Rua do Colégio S/N Povoado Centro do Firmino Carrasco Bonito/TO CEP: 77985-000

CONTACT



BIBLIOGRAPHICAL REFERENCES

AGUIAR, L.M.; CAMARGO, A.J.A. **Cerrado: ecologia e caracterização.** Planaltina, DF: Embrapa Cerrados, p.249, 2004.

ALMEIDA, S.P.; SILVA, J.A.; RIBEIRO, J.F. **Aproveitamento alimentar de espécies nativas dos cerrados: araticum, baru, cagaita e jatobá.** Planaltina. DF: EMBRAPA – CPAC, p.83, 1987.

ALMEIDA, S. P.; PROENÇA, C. E. B.; SANO, S. M.; RIBEIRO, J. F. **Cerrado: espécies vegetais úteis.** Planaltina – DF: EMBRAPA-CPAC, p.178, 1998.

ANDRADE, F.A. *et al.* **Boas práticas de manejo para o extrativismo sustentável da gueroba.** Instituto Sociedade, População e Natureza, Brasília, p. 84, 2013.

ARAÚJO, A.C. **Obtenção do óleo de sementes dos frutos do cerrado pequi (***Caryocar brasiliense Camb***) e murici (***Byrsonima crassifolia***) utilizando diferentes solventes no processo de extração.** Dissertação (mestrado acadêmico) – Universidade Federal de Lavras, Lavras: UFLA, p.118, 2016.

AROUCHA, E. L. P; AROUCHA LINS, M. **Boas práticas de manejo para o extrativismo sustentável do çicuri.** Brasília: Instituto Sociedade, População e Natureza (ISPN), p. 92, 2013.

BARRETO, S. L.; CASTRO, S.M. **Boas práticas de manejo para o extrativismo sustentável do umbu.** Brasília – DF: Embrapa Recursos Genéticos e Biotecnologia, p.72, 2010.

BENTES, S.A. **Avaliação do potencial de obtenção de pigmento azul partir de frutos de jenipapo (***Genipa americana L.***) verdes.** Dissertação de Mestrado, Universidade Federal do Pará, Belém, f. 314, 2010.

BONDAR, G. Palmeiras do Brasil. São Paulo: Instituto de Botânica, n. 2, p. 50-554, 1964.

CARRAZZA, L. R.; ÁVILA, J. C. **Manual Tecnológico de Aproveitamento Integral do Fruto do Baru.** Brasília – DF: Instituto Sociedade, População e Natureza (ISPN), v.2, p.56, 2010.

CARRAZZA, L.R; ÁVILA, J.C. **Manual Tecnológico de Aproveitamento Integral do Fruto do Pequi.** Brasília – DF. Instituto Sociedade, População e Natureza (ISPN), p.56, 2010.

CARRAZZA, L.R; SILVA, M. L.; ÁVILA, J C. **Manual Tecnológico de Aproveitamento Integral do Fruto do Babaçu.** 2 ed. Brasília – DF: Instituto Sociedade, População e Natureza (ISPN), p.68, 2012.

CARVALHO, I. S.H. **Potenciais e limitações do uso sustentável da biodiversidade do Cerrado: um estudo de caso da Cooperativa Grande Sertão no Norte de Minas.** Dissertação (Mestrado em Desenvolvimento Sustentável) – Universidade de Brasília, Brasília, f.165, 2007.

CARVALHO, K.J.; SOUZA, A.L.; MACHADO, C.C. **Ecologia, Manejo, Silvicultura e Tecnologia da Macaúba.** Biblioteca Florestal Digital UFV, p. 38, 2011.

CARVALHO, I. S.H. **Potenciais e limitações do uso sustentável da biodiversidade do Cerrado: um estudo de caso da Cooperativa Grande Sertão no Norte de Minas.** 2007. 165 f., il. Dissertação (Mestrado em Desenvolvimento Sustentável) – Universidade de Brasília, Brasília, 2007.

CAVALCANTI, N. de B.; SANTOS, C. A. F.; BRITO, L. T. de L.; ANJOS, J. B. dos **Picles de xilopódio do umbuzeiro** (*Spondias tuberosa Arruda*). Petrolina, PE: Embrapa Semiárido, 2004.

DIÁRIO OFICIAL DO TOCANTINS. Ocorrência de Comunidades Quilombolas no estado do Tocantins. Available at: https://central.to.gov.br/download/5718>. Accessed on: 18/05.

EMBRAPA. Babaçu: Programa Nacional de Pesquisa. Brasília: EMBRAPA-DDT, 89p. 1984.

EMBRAPA. *Talisia esculenta* (A. St. Hil) Radlk. Brasilia: Embrapa, 2012.

FEITOSA, C.; MELO, C.; SANTOS, F.; SILVA, V. Atividades biológicas, farmacológicas e nutricionais de Annona crassiflora Mart. (Araticum) – estado da arte. **Rev. Bras. Pl. Med**, v.19, n.3, p.374-381, 2017.

FERREIRA, M G. Murici (Byrsonima crassifolia) (L.) Rich. Embrapa: Por Velho, Tocantins, 2005.

FLORA E FUNGA DO BRASIL. Jardim Botânico do Rio de Janeiro. Available at: < http://floradobrasil.jbrj.gov.br/ >. Accessed on: 18 mai. 2022.

FILIZOLA, C.B. **Boas práticas de manejo para o extrativismo sustentável da fava d'anta.** Brasília: Instituto Sociedade, População e Natureza (ISPN), p.76, 2013.

GOMES, R.P. Fruticultura brasileira. 2.ed. São Paulo: Nobel, 1975. 446p.

IBGE. Mapa de biomas do Brasil. Escala 1:5.000.000. Rio de Janeiro: IBGE, 2004. Available at: http://mapas.ibge.gov.br/biomas2/ viewer.htm. Accessed on: 13 fev. 2022.

JUNQUEIRA, V. T. N.; CONCEIÇÃO, C.S.; ANTONIASSI, A.; BRAGA, F.M.; MALAQUIAS, V.F. **Caracterização de populações naturais de macaúba e avaliação do potencial produtivo. Planaltina,** DF: Embrapa Cerrados, p.32, 2019.

LEDÓ, A.S.; NETO, V.D.R.; SILVA JUNIOR, F.J. SILVA, C. V., et al. **A cultura da mangaba.** Brasília, DF: Embrapa, p.84, 2015.

LIMA, V. P. M. S. Botânica. **A cultura do cajueiro no nordeste do Brasil**. In: LIMA, V. P. M. S. Fortaleza: Banco do Nordeste do Brasil, p. 15-61, 1988.

LIMA, I.L.P.; SCARIOT, A. **Boas práticas de manejo para o extrativismo sustentável da Mangaba.** Brasília: Embrapa Recursos Genéticos e Biotecnologia, p. 68, 2015.

LIMA, V.V.; SILVA, D. A.P.; SCARIOT, A. **Boas práticas de manejo para o extrativismo sustentável do coquinho azedo.** Brasília: Embrapa Recursos Genéticos e Biotecnologia, p.60, 2010.

LORENZI, H. **Árvores brasileiras: manual de identificação e cultivo de plantas arbóreas nativas do Brasil.** Editora Plantarum Ltda. Nova Odessa, São Paulo, 1992.

LORENZI, H. **Árvores brasileiras: manual de identificação e cultivo de plantas arbóreas nativas do Brasil.** Editora Plantarum Ltda. Nova Odessa, São Paulo, 1998.

MELO, T. J.; SALVIANO, A.; SILVA, A. J. **Produção de mudas e Plantio de Araticum.** Planaltina: EMBRAPA: Recomendações técnicas, nº.21, P.2, 2000.

MEDINA, G; FERREIRA, M.S. Bacuri (platonialnsignis Martius): O fruto Amazônico que virou ouro. In: ALEXIADES, M. N.; SHANLEY, P. (Ed.). **Productos forestales, medios de subsistencia y conservación: estudios de caso sobre sistemas de manejo de productos forestales no maderables.** Bogor Barat: CIFOR, p. 203-218, 2004.

MMA – Ministério do Meio Ambiente. Lista Nacional das Espécies da Fauna Brasileira Ameaçadas de Extinção. Portaria MMA nº 148, de 07 de junho de 2022.

MUNIZ, S.V. A; SILVA JUNIOR, F.J. Jenipapo. Embrapa: tabuleiros costeiros, p.10 2009.

NETO, R.A. **Superação da Dormência em Sementes de Macaúba** *[Acrocomia aculeata (Jacq.) Loodiges ex Mart.].* Dissertação apresentada ao Programa de Pós-graduação em Agronomia da Universidade Federal de Goiás, Goais, f 356, 2010.

PEREIRA, F.T. Otimização do processo de extração de óleo de licuri. **Anais dos Seminários de Iniciação Científica,** n. 22, 2019.

PEREIRA, A. *et al. Hancornia speciosa:* mangaba. IN: VIEIRA, R. F.; CAMILLO, J.; CORADIN, L. **Espécies nativas da flora brasileira de valor econômico atual ou potencial: plantas para o futuro: Região Centro-Oeste.** Brasília, DF: MMA, p. 1.160, cap. 5: gupos de usos e as espécies prioritárias, 2016.

PIRES, V. R., et al. Desenvolvimento de um sabonete líquido a partir do extrato da casca do fruto da pitomba *(Talisia esculenta)*. **Research, Society and Development,** v. 10, n. 15, p.1-9, 2021.

OLIVEIRA, G. F. R.; SOARES JÚNIOR, M.S. CAJUZINHO-DO-CERRADO (*Anacardium humile St. Hil.*) MINIMAMENTE PROCESSADO. **Projetos Extras**, p.57-80, 2006.

SAMPAIO, M.B; CARRAZA R. L. **Manual Tecnológico de Aproveitamento Integral do Fruto e da Folha do Buriti (***Mauritia flexuosa***). Brasília – DF: Instituto Sociedade, População e Natureza (ISPN). Brasil, p.76, 2012.**

SAMPAIO, B.M.; SCHMIDT, B.I.; FIGUEIREDO, B.I.; SANO, T, P. **Boas práticas de manejo para o extrativismo sustentável do capim dourado e buriti.** Brasília – DF: Embrapa Recursos Genéticos e Biotecnologia, p.72, 2010.

SCHMIDT, B.I; SAMPAIO, B.M; FIGUEIREDO, B.I. TICKTIN, T. **Fogo e Artesanato de Capimdourado no Jalapão – Usos Tradicionais e Consequências Ecológicas.** Biodiversidade Brasileira, ano I, n°2, p. 67-85, 2011.

SANTOS, S.L.; ALVES, C.C.F.; ESTEVEM, B.B.E. Chemical Composition, in vitro Trypanocidal and Antibacterial Activities of the Essential Oil from the Dried Leaves of *Eugenia dysenterica* DC from Brazil. **Journal of Essential Oil Bearing Plants,** p. 728-745, 2019.

SANTOS, E. A. M. **Obtenção de rutina de Dimorphandra sp.: do processamento dos frutos à obtenção de extrato enriquecido.** 2006. 78 f. Dissertação (Mestrado em Engenharia de Materiais) – Universidade Federal de Ouro Preto, Ouro Preto, 2006.

SARTORELLI, P. A. R; CAMPOS FILHO, M.E. Guia de plantas da regeneração natural do Cerrado e da Mata Atlântica. São Paulo: Agroícone, p.140, 2017.

SCARIOT, A.; RIBEIRO, F.J. **Boas práticas de manejo para o extrativismo sustentável da Cagaita.** Embrapa Recursos Genéticos e Biotecnologia, Brasília, p.72, 2015.

SILVA. M.L.M. **Biologia reprodutiva e maturação de sementes de Talisia esculenta** (Cambess.) Radlk. Tese de Doutorado. Areia-PB, UFPB, f.97, 2019.

SILVA, S. J. et al. Produção de carvão ativado da casca do babaçu e sua eficiência no tratamento de água para o consumo humano. **Engenharia Florestal: desafios, Limites e Potencialidade**, cap. 52, p. 654 - 685, 2020.

SHANLEY, P.; MEDINA, P. Bacuri. In: SHANLEY, P.; MEDINA, P. **Frutíferas e Plantas Úteis na Vida Amazônica.** Belém: CIFOR, Imazon, cap.7, p.300, 2005.

SHANLEY, P. Jatobá: Hymenaea courbaril L. In:SHANLEY, P.; MEDINA, P. **Frutíferas e Plantas Úteis na Vida Amazônica.** Belém: CIFOR, Imazon, p.300, 2005.

SCHMIDT, B.I; SAMPAIO, B.M; FIGUEIREDO, B.I. TICKTIN, T. Fogo e Artesanato de Capim-dourado no Jalapão – Usos Tradicionais e Consequências Ecológicas. **Biodiversidade Brasileira,** ano I, n°2, p. 67-85, 2011.

SOUZA, A. F.; ANDRADE, A. C. S.; RAMOS, F. N.; LOUREIRO, M. B. **Ecophysiology and morphology of seed germination of the neotropical lowland tree Genipa americana (Rubiaceae).** Journal of Tropical Ecology, v. 15, n. 667–680, 1999.

ZERAIK, M.L. et. al. Antioxidants, quinone reductase inducers and acetylcholinesterase inhibitors from Spondias tuberosa fruits. **Journal of Functional Foods.** v. 21, p. 396-405, 2016.

OUR MISSION IS TO PRESERVE NATURE AND REDUCE THE MOST URGENT THREATS TO THE DIVERSITY OF LIFE ON EARTH.



Trabalhamos pela conservação da natureza, pelas pessoas e pela vida selvagem.

#JuntosÉpossível panda.org

© 1

© 2022

© 1986 Panda Symbol WWF World Wide Fund for Nature (formerly World Wildlife Fund) ® "WWF" is a WWF Registered Trademark. WWF, Avenue du Mont-Bland, 1196 Gland, Switzerland. Tel. +41 22 364 9111. Fax. +41 22 364 0332.

For contacts and further information, please visit our webpage at **wwf.org.br**