

Illustrated, Botanical Guide To The Gran Tescual Indigenous Reservation









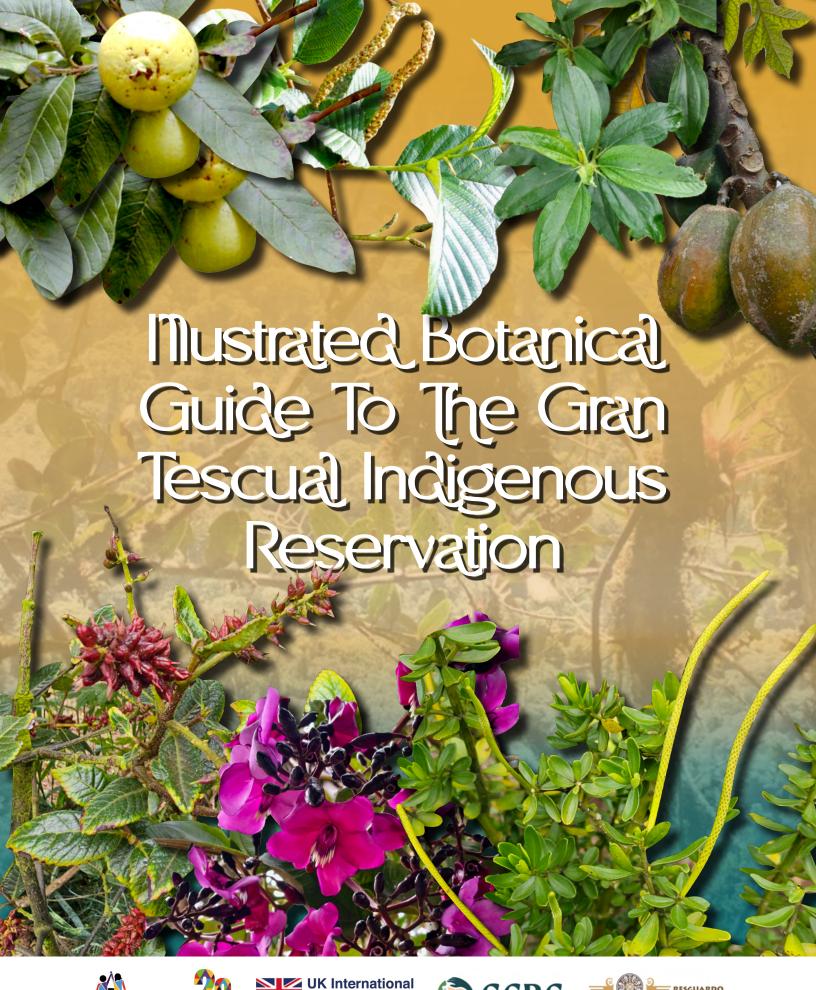




















Illustrated Botanical Guide to the Gran Tescual Indigenous Reservation

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Introduction

umanity is facing a global civilizational crisis that threatens the harmony of ecosystems. health of the planet, and existence of multiple species, including humans. Interconnected problems such as pollution, biodiversity loss, ocean acidification, and climate change require an urgent and coordinated global response. In this context, the relationship between climate change and biodiversity is crucial: climate change results in the alteration or modification of natural environments and potentially in a drastic reduction of biological diversity. This loss in turn intensifies climate change by weakening the capacity of ecosystems to regulate climate and absorb carbon¹. In short, predicting ecosystemic alterations is complex, which is compounded by the disturbances and imbalances that these alterations entail; yet, there is no doubt that the structure. dynamics, and composition of ecosystems will undergo drastic changes compared to how we know them today. This underscores the importance of holistically addressing these challenges.

Colombia is recognized for its megadiversity and is home to approximately 10% of the world's biodiversity over less than 0.7% of the earth's surface.

This rich variety of species is the result of a strategic geographic location and exceptional ecosystemic diversity². However, this wealth faces significant threats due to the country's vulnerability to the aforementioned climate change, which exacerbates the loss of biodiversity and causes extreme weather events that challenge the survival of numerous species and conservation efforts.

In southwestern Colombia, in the department of Nariño, the Gran Tescual Indigenous Reservation is notable for its extraordinary cultural and biological diversity, as well as the preservation of the ancestral cultural practices of the Pastos Indigenous People. This territory, which includes ecosystems as diverse as páramos (high-altitude bogs), sub-Andean and Andean forests, and tropical rainforest, faces serious threats from various anthropogenic pressures such as: deforestation, the expansion of the agricultural frontier, cattle ranching, the introduction of exotic species, an oil pipeline that passes through the paramo ecosystem, and the extraction of lumber for charcoal production. With myriad pressures on the territory, sustainable management of the reservation is essential to protect both its natural wealth and cultural heritage.

SIDE

¹ United Nations. (2022). Biodiversity: our strongest natural defense against climate change. Retrieved from: https://www.un.org/en/climatechange/science/climate-issues/biodiversity

² Periódico UNAL. (2024). Biodiversidad de Colombia: entre los imaginarios y las amenazas reales. Retrieved from: https://periodico.unal.edu.co/articulos/biodiversidad-de-colombia-entre-los-imaginarios-y-las-amenazas-reales

Recognizing the crucial importance of local biodiversity for life, this document is the result of initial research and documentation efforts. Thus, we present the Illustrated Botanical Guide of the Pan Amazon Gran Tescual Indigenous Reservation, which complements the reservation's Participatory Biodiversity Diagnosis, which was carried out in the context of the "Gran Tescual Indigenous Reservation Climate Plan" This guide is part of an initiative to research and recognize the territory and its elements, and was carried out by the Indigenous community, based on their ancestral knowledge in dialogue with other sources. The guide documents, describes, and highlights the diversity of plant species present in the extensive Atuczara territory.

This guide prioritizes the most important species identified by the Pasto Indigenous People of the Gran Tescual Reservation, classifying them by the following community uses: A) ornamental, B) timber, C) medicinal-spiritual, D) edible, and E) ecologically important.

Each plant includes its common name in the reservation/territory and scientific

name (with its respective authorship). A later section includes the common names used in other regions of Colombia and Latin America, as well as detailing associated uses, cultural value, geographic location, and the level of threat or vulnerability faced by a given plant. Priority is given to native species. Even though many food and medicinal plants are part of our culture and traditional knowledge, the species were nonetheless introduced. Likewise, species that are at risk are also highlighted.

The aim of this guide is twofold: it serves as an educational and conservation tool, helping to preserve traditional knowledge about local vegetation; it also promotes respect and appreciation of ancestral knowledge by documenting how these plants are an integral part of our community life and worldview.

Foreword³

Ir nam Pastuker, ackuasatar ac tupue, ackuasatar nam puram, ir nam un an tupue, tu tupue, chil tupue, ac muel, kumuel, actupue; mitmal, mites pastaran, kalpuedal, quilis mit mal pued puram, actupue pa qwastu pananquer, alpala es, chiles, pa qwastu embilquer, embilpud pa, percuar, pacuar, chapaqwastu Pastuquer chapuram.

Cha kumuel Juan Chiles pa qwastu, tac chal kumuel, past cha kal caguande, past ir chalapud, pas cha quechua, past nam fuel, pas nam acuda, pas nam che, past nam pingal. pa qwastu actupue, guan ampa, pag per. (Miguel Angel Quilismal)

We, the Pastos, love Mother Earth as our own life. Our ancestors, men and women from the world below, the middle, and above learned from her, walking the territory in minga (collective work), walking the spiral of life. Mother Earth teaches me, through her sacred sites, the cosmos, stars, lagoons with enchanted cities, volcanoes, lunisolar calendars, and the wisdom of the land, how to live life.

The wise Cacique Juan Chiles tells us maxims of wisdom, how to be guided by the path, how to read the thoughts of others, to untie the Quechua, to be like river water, like stone, like foam, to be like a rainbow. To talk about the earth is to have a beautiful sunrise every time (Miguel Angel Quilismal).

AD MAIN

Introduction To The Gran Tescual Reservation

he Gran Tescual Indigenous Reservation, located in Atuczara (where the heart of water is found), includes the ancestral settlements of Chapal, Puerres, Canchala, Tescual, and Alpichaque. This territory is part of the great Pasto Knot or Waka Knot (Nudo de Los Pastos or Nudo de la Waka), extending from the Andean region to the eastern slopes of the Amazon. The territory is surrounded by ancestral sacred sites and natural borders.

This territory has a deep spiritual and cultural value for ancestral wisdom. According to the Law of Origin, the territory is a living being that feels, falls ill, is restored and, if polluted or destroyed, can die. It is a "Territory of Origin" that protects the cosmic forces and vital spirits of all life forms, in harmony with the rhythms of the Sun and Moon.

The Gran Tescual territory is conceived from a Pan-Amazonian perspective, with a diversity that ranges from the Pacific Coast and Amazon Piedmont to the Andean region, standing out as a fluvial star and an ancestral territory with rich water production.

Geographically, the reservation is in the municipality of Puerres, Nariño, in southwestern Colombia. The municipality, one of the 15 largest in the department, covers an area of 478 km², with an average altitude of 2,700 meters above sea level and an average temperature of 12°C. The Reservation is comprised of two large lots and 41 individual properties distributed among several rural communities within the townships of Monopamba, El Páramo, and San Mateo.

Illustration 1. Map of the Gran Tescual Indigenous Reservation ⁴



Source: Gran Tescual Indigenous Reservation.

⁴ The map shows a recovery zone that is in the colonial ancestral title 509 but was not adjudicated by the National Land Agency due to social and economic conflicts.

Climatological and geographical context

ith an average altitude of 2,700 meters above sea level, Puerres encompasses both the Central-Eastern Mountain range on its western edge and the Amazon Piedmont to the east.

The municipality's topography creates a clear climatic distinction between the two slopes. On the western flank, influenced by the intra-Andean zone, there are valleys and canyons such as those of the Guáitara River, with relatively dry conditions. In contrast, the eastern flank is significantly influenced by the Amazon basin, with higher humidity due to the "flying rivers" Flying rivers are moisture-laden air currents that originate in the Amazon basin and move eastward, impacting the region's climate.

As the moist winds meet the mountains, additional precipitation is produced through a phenomenon known as orographic rainfall. Orographic rainfall occurs when trade winds from the southeast, which carry moisture, rise as they reach the mountains. This causes the air to cool and

release its moisture in the form of rain. The interaction between the currents and topography contributes to the fact that the eastern slope has increased precipitation, ranging from 50 and 80 mm per month.

The municipality covers part of the La Cocha - Patascoy páramo complex, a strategic ecosystem that acts as a biological corridor between the high mountains and the lowlands of the Amazon Piedmont. This corridor, which includes the Cerro Negro (Black Mountain) area, connects key conservation areas and is vital to the preservation of both biodiversity and the territory's ecological function.

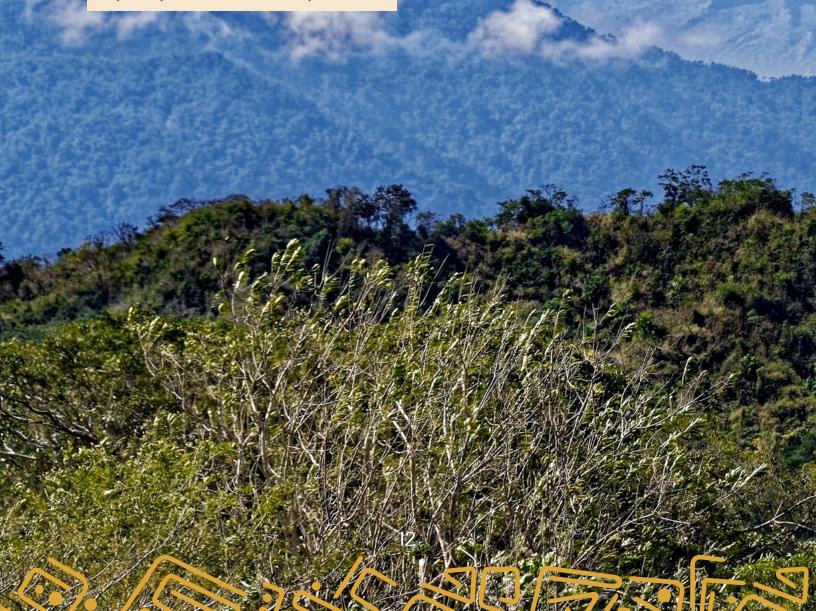
The corridor is part of the Pasto Knot (Nudo de los Pastos), known as the Nudo de la Waka or Massif of Waka. This is an important mountain massif that extends from the province of Carchi in Ecuador to the Colombian departments of Nariño and Putumayo. The massif includes notable elevations such as the Cumbal, Chiles,

and Azufral volcanoes, and is a vital intersection point between the Andes Mountain range and the Amazon region. Furthermore, its importance resides not only in its geography, but also the cultural and spiritual value held by the Indigenous people who inhabit the region.

According to the cosmogony of the Pasto People, the Pasto Knot is considered a magnetic center that unites and condenses energies and natural forces, reflecting the interconnection of the ecosystems in this area. The region is not only a key area for biodiversity due to its

interaction between the Andean páramos, the coastal foothills, and the Amazon, but also plays a crucial role in the water cycle and climate regulation of these ecosystems.

The integration of highlands diversity, such as the paramos, with the Amazon and coastal foothills into a single ecosystemic unit is for the Pasto constitutive of the Pan Amazon, thus displaying the vast wealth of the territory's biological and cultural diversity and the importance of its holistic use.



Methodological clarifications

Reservation Climate Plan" project, a participatory research initiative was carried out. This resulted in a participatory diagnosis focused on biodiversity and livelihoods, complemented by this illustrated botanical guide based on community and ancestral use. A holistic methodology that follows the 'perceive, feel, think, dialogue, and validate' model was employed, with the objective of fostering transformative resilience through practice and a collective validation of ideas.

The research was structured in several phases. In preparation, data collection instruments were designed to integrate local knowledge, samples were recorded in the iNaturalist application, and secondary bibliographic sources were reviewed. During field data collection, community guided tours were conducted, prioritizing species based on biological and spiritual importance, among other relevant considerations. These tours were conducted in both the Andean and Amazon areas.

The participatory action research has also included a dialogical feminist perspective, recognizing the diversity of women's experiences, valuing the situated place from which they speak, and recognizing emotions, practices, and experiences as fundamental elements to construct knowledge. Dialogue has been an ongoing and central method to construct collective knowledge that challenges dominant power structures and opens a space to validate women's knowledge, based on the principles of inclusion and justice.

In the analysis and systematization phase, a database of 264 recorded species was consolidated and a species guide was created, categorizing uses according to those identified by the community: a) ornamental, b) medicinal-spiritual, c) edible, and d) ecologically important. Finally, information validation sessions were held with the Gran Tescual community, which included focus groups with authorities from the Indigenous Reservation, farmers, women, and youth, to identify key botanical species and construct this illustrated guide. Ten species were selected for each category and are highlighted in this document. Prioritization



couide use

This guide contains species grouped in five community use categories, defined in consensus with the community:

- I. Ornamental: Plants that are valued mainly for their beauty and are used to decorate spaces such as gardens, paths, and common areas. These plants beautify the surroundings and often have a special cultural or spiritual significance for the community.
 - 2. Timber: Tree species that are used to obtain lumber, whether to build houses, furniture, tool manufacturing, or as firewood for cooking. Their responsible use helps to sustain community resources in the long term.
- 3. Edible: Plants that are essential to the community's diet. They include fruits, seeds, roots, and other plant parts that are consumed as food, often being an essential source of nutrition and part of the traditional food heritage.
 - 4. Ecological importance: Plants that play a key role keeping the ecosystem in balance. They help protect the soil, keep water clean, and provide homes for many animal species. Their conservation is vital to the health of the natural environment.
- 5. Medicinal: Plants that are used to prevent or cure diseases and to maintain the physical and spiritual health of the community. They are part of the traditional knowledge transmitted from generation to generation and have a profound value in the Indigenous worldview.

The threat level faced by each species is also included, using the acronyms defined by the IUCN (International Union for Conservation of Nature). The IUCN classification assesses the extinction risk of species and is determined by a rigorous analysis of criteria such as population decline, geographic range, habitat fragmentation, and quality of the surroundings. The levels of threat include categories such as Vulnerable (VU), Endangered (EN), and Critically Endangered (CR), among others (see illustration 2). This guide also indicates the threat level for species according to the IUCN classification, helping the community to identify which plants are endangered and need increased protection.

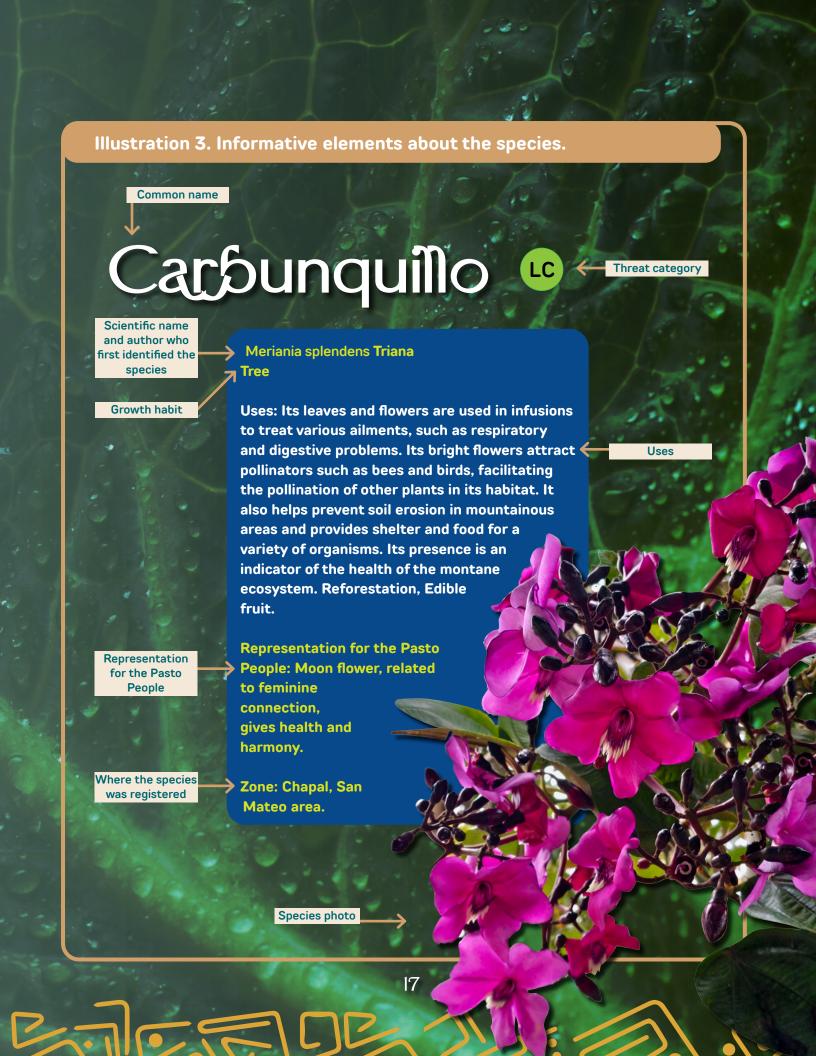
Illustration 2. Categories of the IUCN Red List of Threatened Species



Source: Biodiversidad.co. (2024). Categories of the IUCN Red List of Threatened Species. https://biodiversidad.co/post/2024/lista-especies-amenazadas-colombia/

It is important to mention that this guide includes several species that share the same common name, probably due to similarities in appearance or use. Nevertheless, they are different species. For example, we have two species of congon, two species of encenillo, two species of "cucharo" or Andean Blueberry, two species of mortino, two species of "cerote" and two species of oak. Attention should be paid to these differences to better understand the biodiversity and specific uses of each plant.

Lastly, if you are interested in learning the common names of some of the species present in the territory and recorded in this guide or the names used in other regions of the country, please reference the appendix at the end of the guide called: Common names according to the regions where they grow in Colombia.



Let's learn about the ecosystems where the species in this guide grow

his illustrated botanical guide offers a selection of species that are an integral part of the diverse ecosystems in the Gran Tescual territory. Located in the high mountains, these ecosystems include the high Andean forest, the ecotone forest or shrubland transition, and the paramo or high-altitude bog ecosystem. In addition to these formations, some of the selected plants also come from chagras, cultivated areas that are essential for the subsistence and well-being of the Indigenous community.

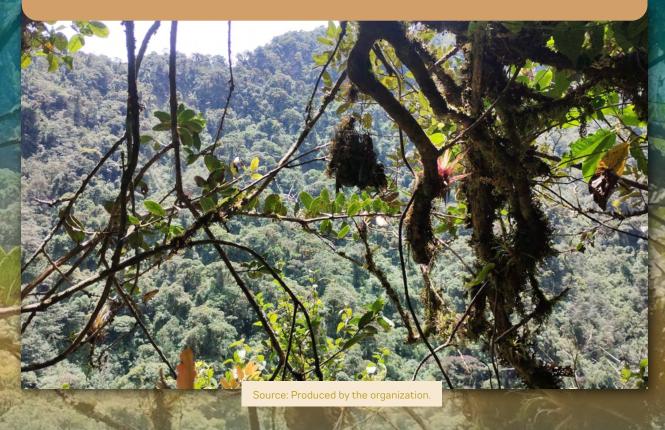
Chagras are spaces where native and traditional species are grown. They not only

provide food but are also fundamental for biodiversity conservation and to maintain a natural balance. These community food gardens reflect the harmonious relationship between Indigenous peoples and their environment, promoting sustainable practices and respect for nature.

Through this guide, we invite you to participate in a deep exploration of plants that not only beautify the landscape but are also essential for the life and equilibrium of our sacred surroundings, thus strengthening the cultural identity and connection between communities and their territory.

THE SACRED INTERCONNECTEDNESS BETWEEN THE PLANT ECOLOGY OF THE HIGH ANDEAN FOREST AND THE WORLDVIEW OF THE PASTOS PEOPLE

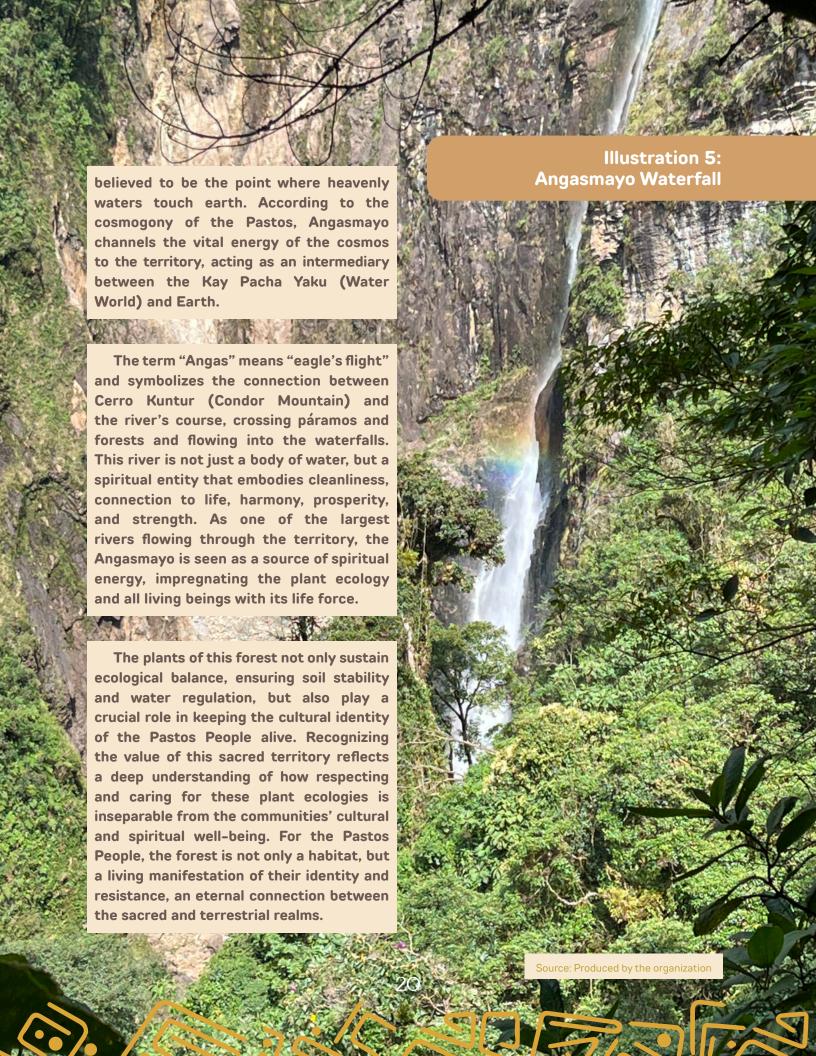
Illustration 4. High Andean hillside forest in Chapal, San Mateo.



The plant ecology of the high Andean forest in the Gran Tescual Indigenous Reservation represents groupings of plant species that interact with each other and their environment, creating a complex and dynamic system. This ecology, dominated by species such as Clusia multiflora (Guandera), Axinaea sp., Myrsine guianensis (Cucharo), Weinmannia rollotii (Oak), Hedyosmum cumbalense (Granizo or Guayusa), and Miconia sp. not only form the ecosystem's structural and functional foundation, but

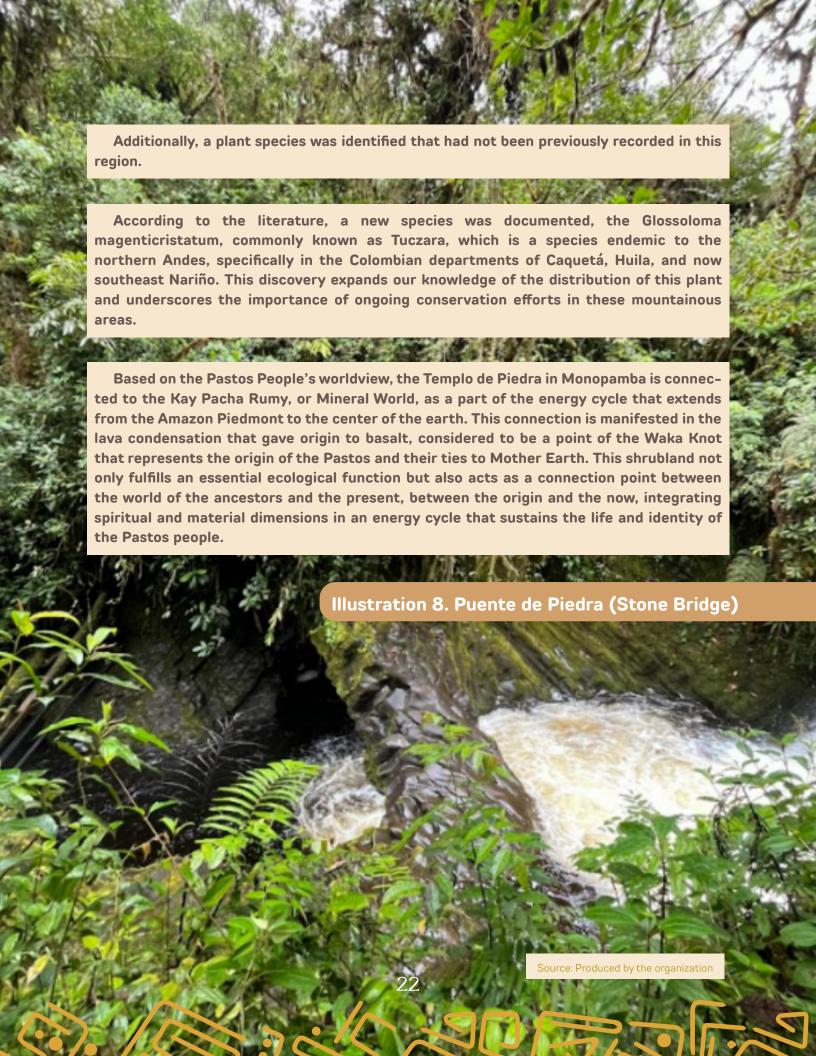
also have a profound spiritual and cultural significance.

From the Pastos worldview, territory is more than a physical space; it is a living entity that maintains a balance between the material and the spiritual. In the high Andean forests of our lands, we find the Angasmayo Waterfall, which bathes the territory and is intimately tied to the myth of Angasmayo. This sacred waterfall is



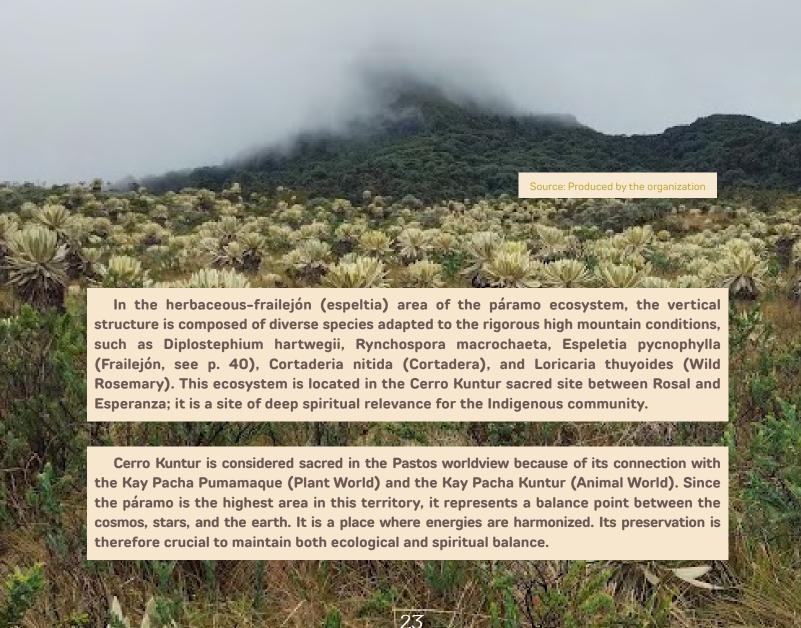
THE SACRED SHRUBLAND OF THE TEMPLO DE PIEDRA (STONE TEMPLE): THE CONNECTION BETWEEN ECOSYSTEMS AND SPIRITUALITY AMONG THE PASTOS PEOPLE

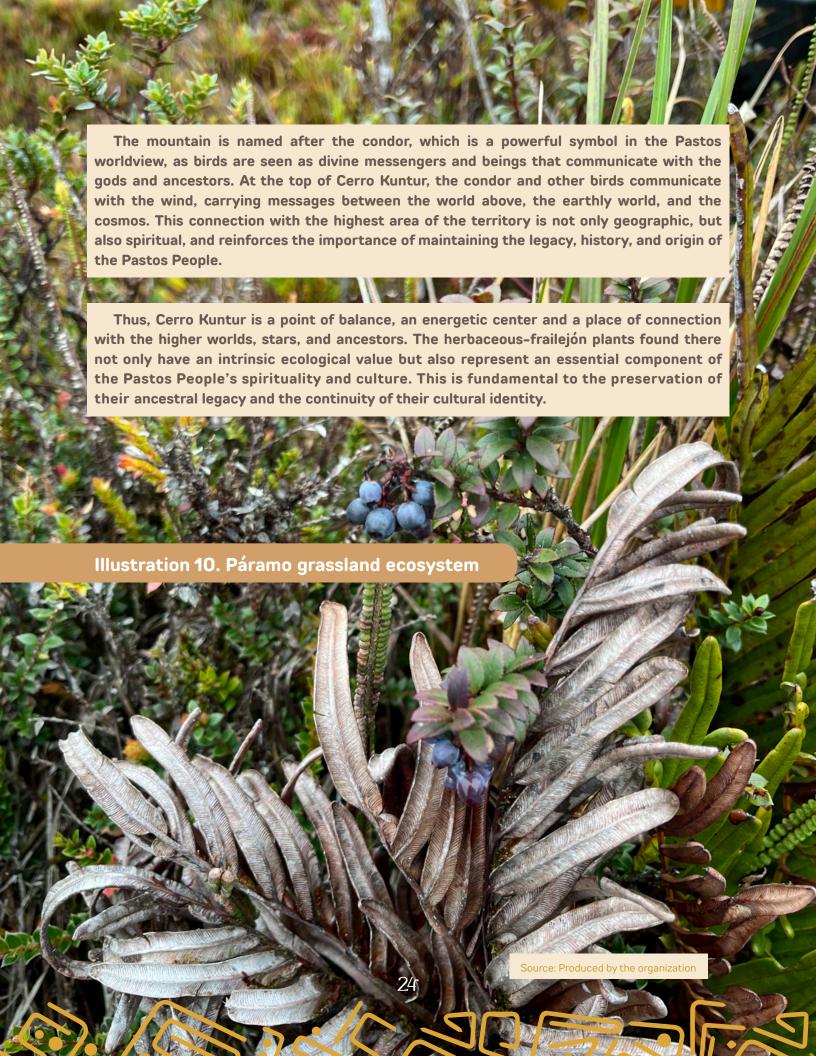




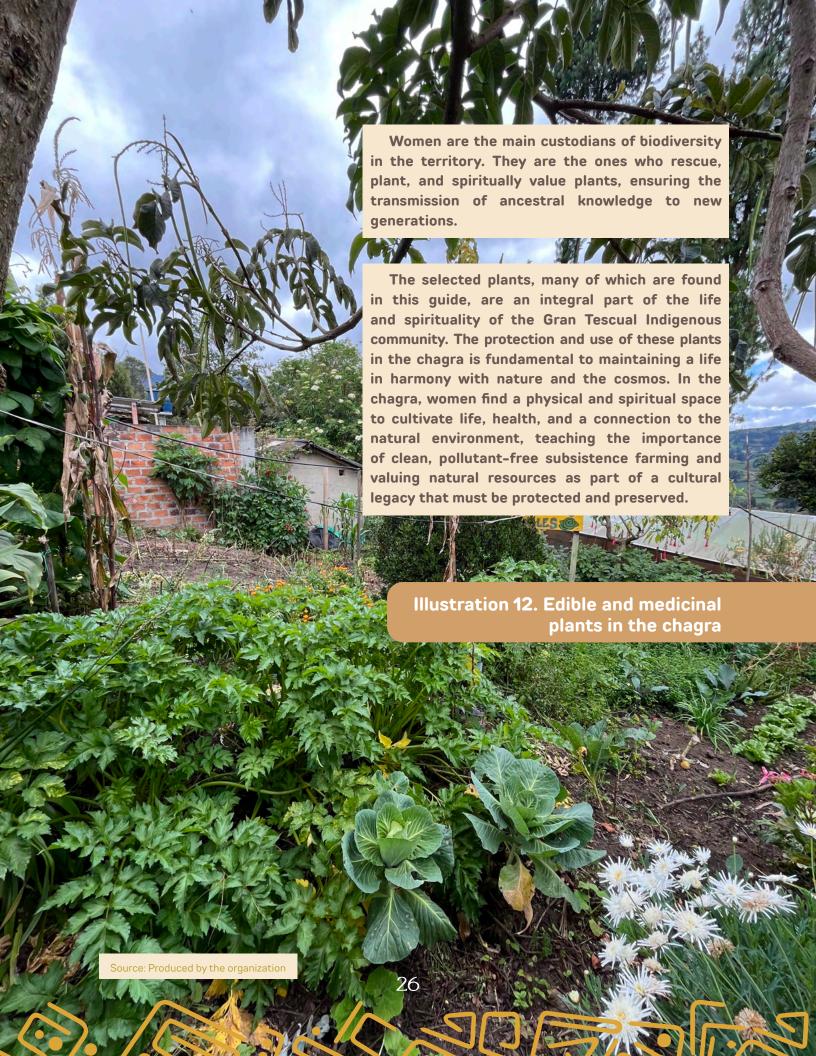
THE HERBACEOUS-FRAILEJÓN AREA OF CERRO KUNTUR: PÁRAMO, A SACRED ECOSYSTEM

Illustration 9. Cerro Kuntur









Mustrated Botanical Guide

Ornamental Plants

The Andean world is circular, like a big bowl that unites us. Therefore, each species shared in this guide has a reason to be and to exist. Everything that has life, starting with the cell, is circular, united in a spiral by a greater cyclical force. Our world is like a big spider web. Everything is tied together, in connection with the womb, with the deep heart of the earth and the cosmos.

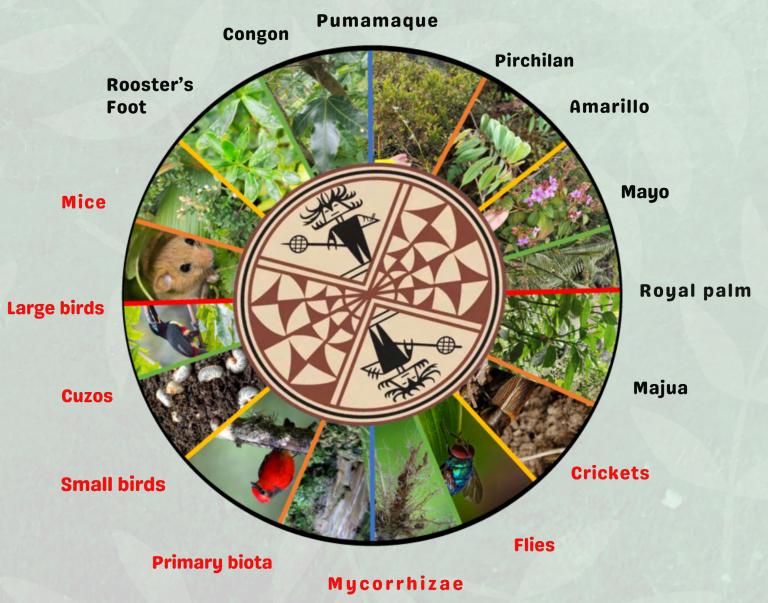
This category is related to the outside world and its beauty. In the inside world it is tied to that which is dynamic, to the interrelation with the microorganisms that maintain natural balance.

Pasto depiction: Lightning God of fertility for the Andean regions.

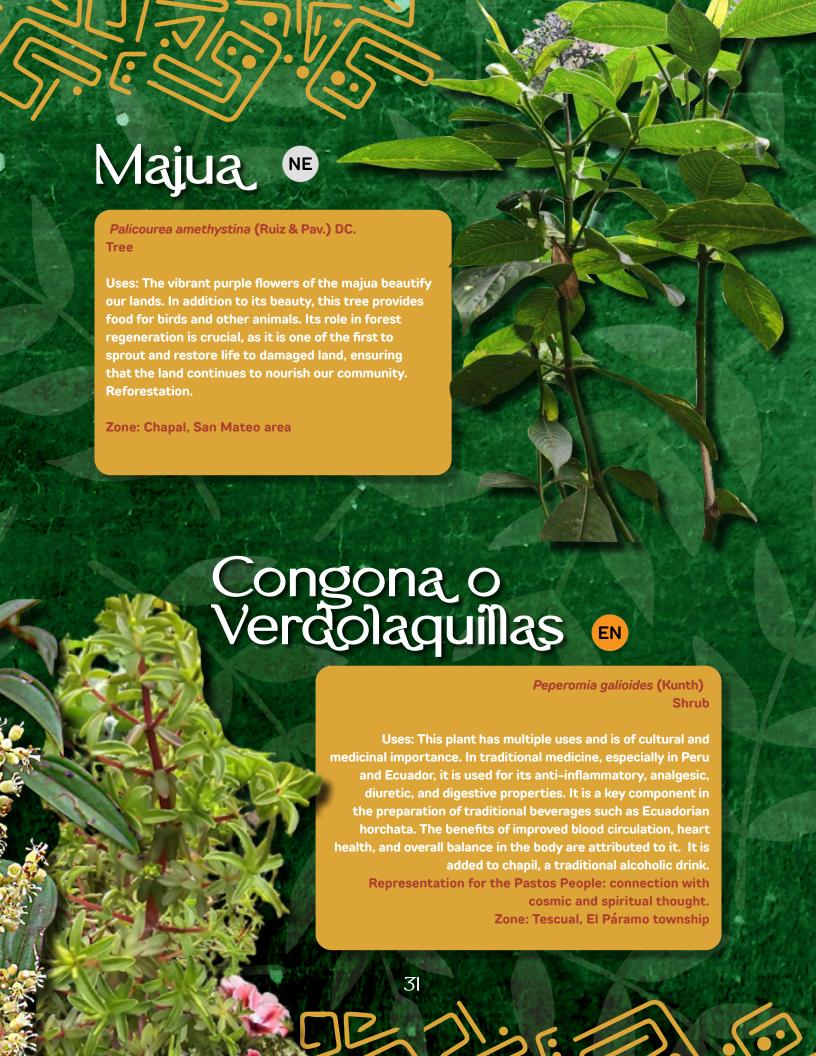
Pasto memorial depictions have marked the history of the communities, which is transmitted through ceramics, wood and stone carvings, baskets, gold work, and other methods to hold and communicate memory in simple, everyday language. The depictions show a life cycle in balance with the solar, lunar, and stellar worlds of the dimensional whole, in harmony and connection, with the unity of concentric figures or parallel lines, in sequences that demonstrate how the territory is seen, felt, experienced, and narrated.

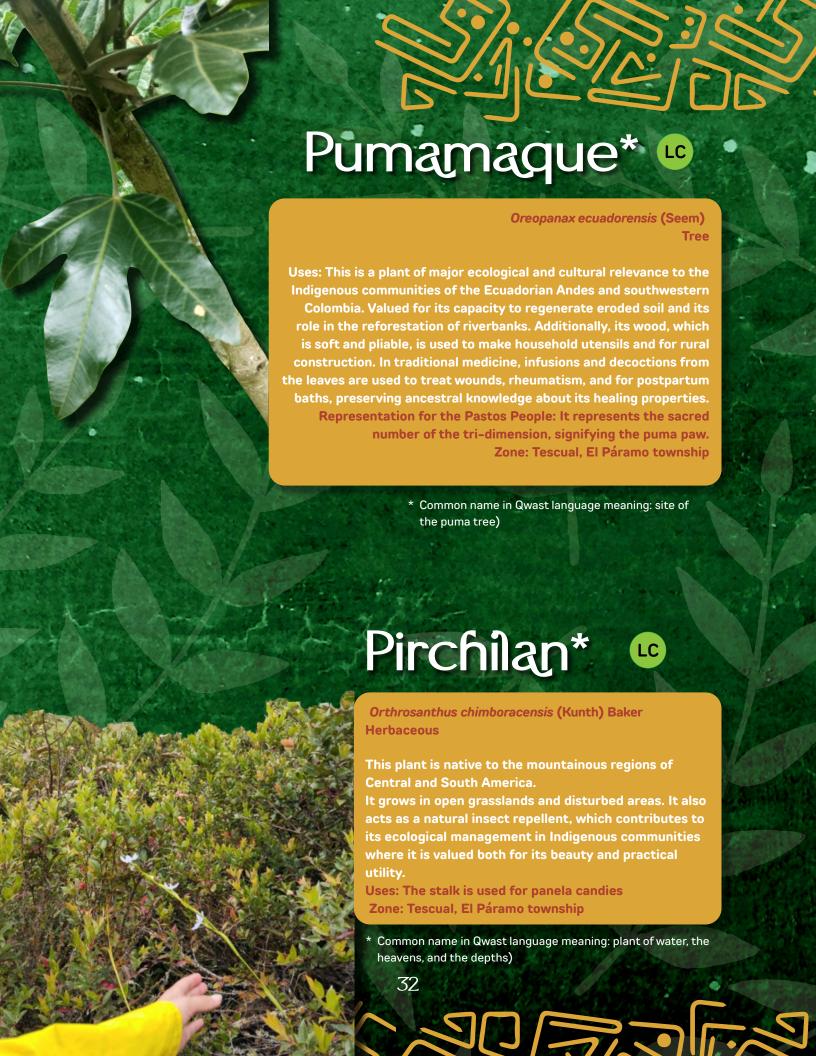
A reading of different symbolic elements, interweaves additional voices, senses, and meanings and this allows us to narrate a story about the origin of our peoples. Hence the connection with the rays of father sun and mother moon, connecting with the visible and invisible worlds. This demonstrates a deep relationship with the earth, fertility, and the flowering of life in all its manifestations of existence, expressed in the different natural and spiritual worlds—the origin of the Pastos People in the Andean Amazon region.





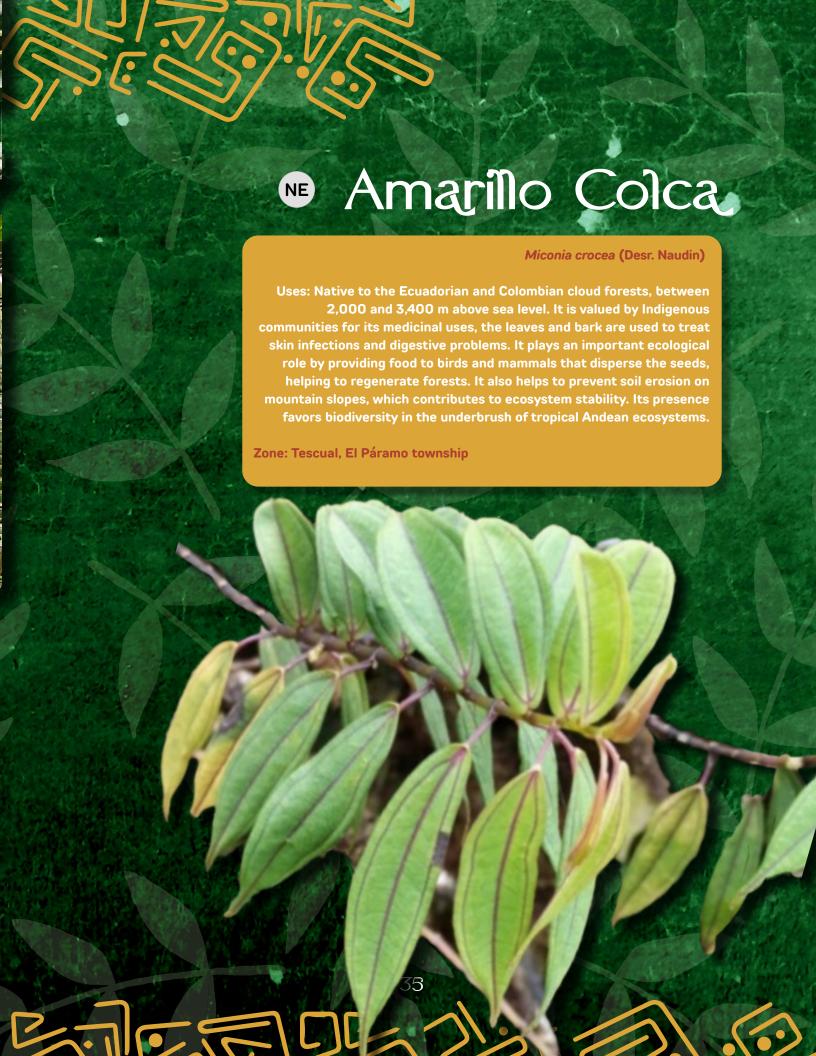












Timber Trees

The symbolic depictions that hold the memory of the origin of the Pasto People's territory demonstrate the connection between plants and the earth, the origin myth of the Tescuales, and their connection with human, spiritual, and energetic life. The world above and the world below dance in a continuous and incessant creation of worlds. When they meet they transform the thoughts and words of those who walk the shaquiñanes (paths) of life, that is why everything is interconnected, say the elders.

These plants are related to the mineralization that has formed the planet. These plants aid mineral transformation and use.

The mineralization process is proportional to the level of carbon sequestration and is a bioindicator of ecosystem health.

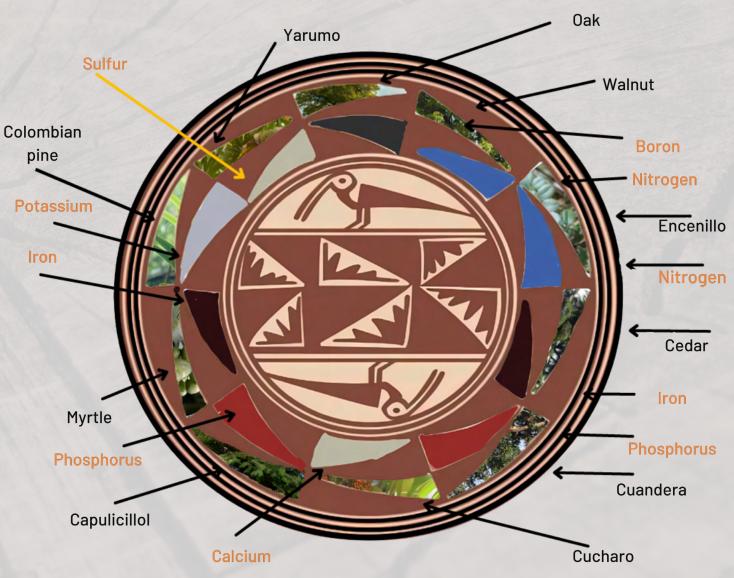
Pasto depiction: The dynamic between fertility and seeds

The representations depict the life cycles of natural species on

the mountain, their relationship with minerals, which is the deep connection with the center of the earth, the origin, which represents energy, the cycles of our existence in movement.

The earth is a living organism that feels, speaks, communicates, and cries. There is no doubt about that, however there is also a diversity of knowledge, feelings, and actions that have generated a cultural, political, environmental, and economic crisis. It is important to reflect on this while exploring the memory of our people and reading the present.



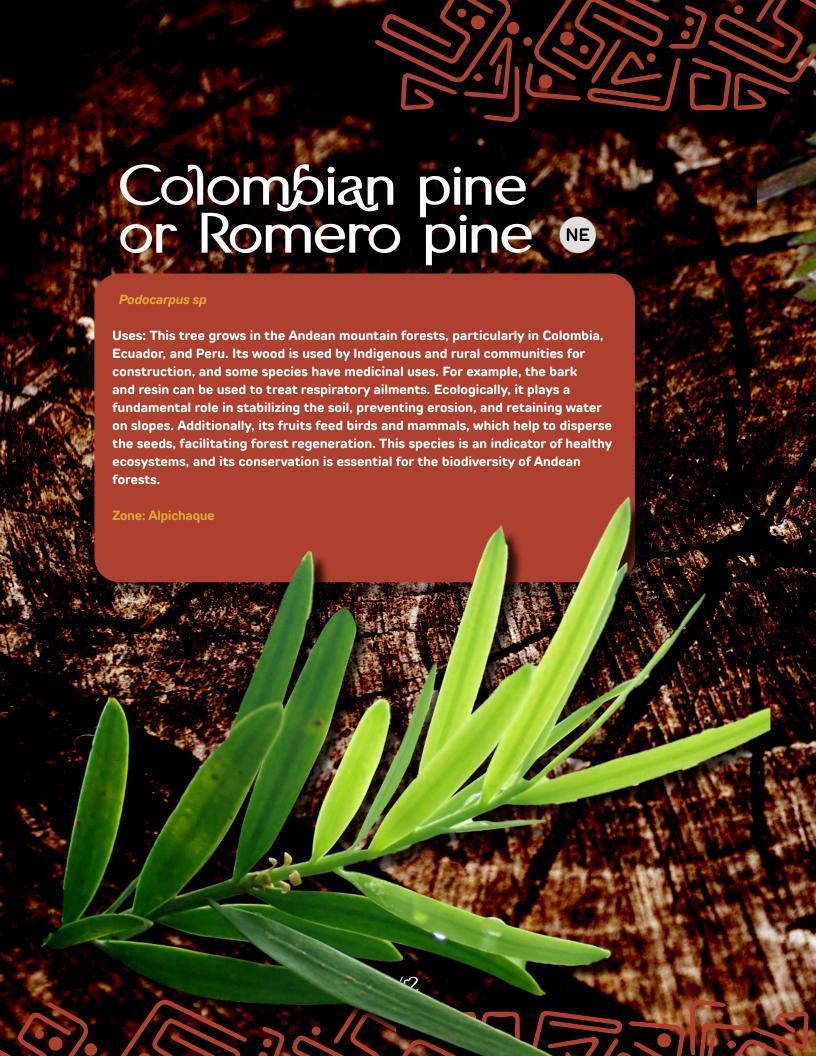
















Edible plants

The symbolic and graphical depictions are demonstrative of different knowledge relations. So, too, of the depth of the Pasto world vision, marking the dynamics of time and space that become memory activated through the journey. This exterior world is represented by the variety of terrestrial life. The present world is manifested through the flavors, colors, and food of all species, marking an intimate relationship. For thousands of years, our cultural DNA, knowledge, thought, and action that have been connected to our origin and the dynamic process of our existence. Food,

Although this category relates to food, it forever leads to or generates wellness.

These plants are related to the balance of the mind, body, and spirit and uses may not always be via ingestion.

It may be that their scent or "air" is medicinal.

Pasto Depiction: Vibrations

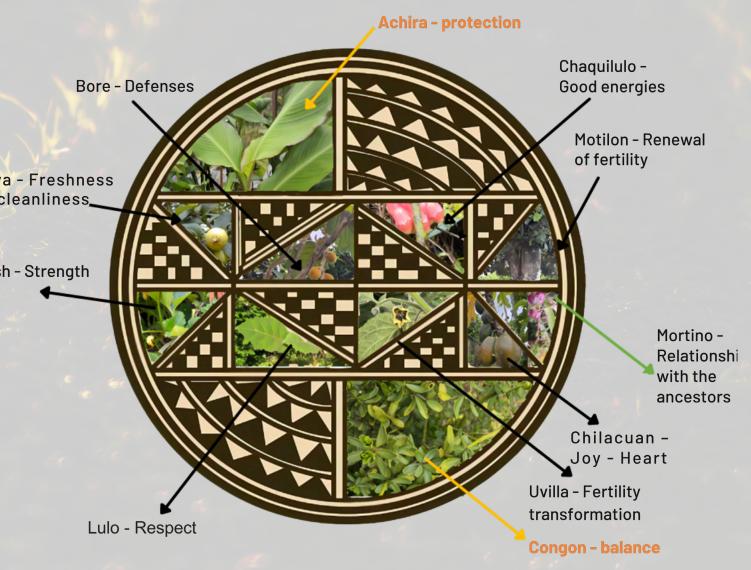
like life, is a connection to our ancestors, but also to the hope of keeping alive our bodies and the territory, as one, today and tomorrow.

It is from this process of reading the pictorial worlds that stories and methods of territorial organization can be interwoven. In this sense, territorial planning is directly tied to the constant interpretation of our sacred and spiritual origin in order to survive in a harmonious relationship with nature.

Guav and

Squas













Achira or Indian Shot Canna indica L **Herbaceous** Uses: Ornamental, medicinal use as a diuretic, antiseptic. analgesic, and for its healing properties. Its edible roots were part of the basic diet. The leaves are used to wrap tamales and Representation for the Pastos People: A sacred plant associated with medicine, protection, and nutrition. It preserves flavors and marries well with food. Zone: Tescual, El Páramo township Chilacuan* Vasconcellea pubescens A.DC. **Shrub** Uses: With its naturally acidic flavor, the fruit is used widely to prepare jams, juices, and ice creams, in addition to being eaten stewed or in soups. Medicinally, the plant is valued for its papain content, a digestive enzyme used to treat stomach problems, and for its anti-inflammatory properties, which have been shown to be useful to treat ulcers and wounds. This plant is not only key to the gastronomy of the Andean regions, but also contributes to the local economy and the preservation of ancestral practices related to health and wellness. Representation for the Pastos People: Water dense plant with nutritional and refreshing powers. It is a symbol of the renewal of the sacred waters of transformation. Chila (plant) yaku (water) an (deep), carrier of the sacred water of transformation. Zone: Tescual, El Páramo township *Common name in Qwastu language meaning: center of man - woman of the sky)



Ecologically import plants

The interpretation of Andean thought in relation to the elemental aspects of life is an expression of the balance between forms of territorial and spiritual governance to guide the movement of the sacred, the power of representation between the visible and invisible, and the materiality of the invisible manifested through the staff or rod of justice, in exercise of its authority, which maintains order and harmony with Mother Earth.

The elemental aspects of life for the Pasto people represent an ordering and transformation of the world, which leaves behind a legacy, organizing the disorder and guiding the journey of Indigenous peoples. In this category we prioritized plants related to the life elements (water, air, fire, and earth). These plants are very important in the production or protection of water, oxygen, or air, and for soil protection and the cosmosenvironmental relationship.

The well-being of biodiversity is important as it provides habitats and resources for other species and their ecological interactions such as pollination and seed dispersal, strengthening the resilience of ecosystems to climate change.

Pasto depiction: dual quadrature

In this sense, earth, air, fire, and water bring order to Indigenous territories, but at the same time, immerses them in dimensions of thought that allow for and understanding of their origin, of movement for the preservation of harmony in the life cycle of the visible and invisible, and of the connection between the inner and outer world.



Earth Cerote Cojin



Water

Alder

Weeping willow

Carbunquillo

Air Frailejón Cerote

Fire Red Oak
Chilco
White Oak













Medicinal plants

Medicine, a part of the wisdom, knowledge, and practice of Indigenous peoples, goes beyond physical health; it is based on observation of and interaction with the territory, the natural environment, and the holistic relationship between beings. This allows us to use what is under our care rationally.

Medicine is fundamental to our identity. It is part of our collective memory, shared for thousands of years through an oral tradition that transmits knowledge about the plants, rituals, and healing that are essential to our survival. It is the medicine that connects us with our

This category is linked to our body – territory.

Native medicine connects

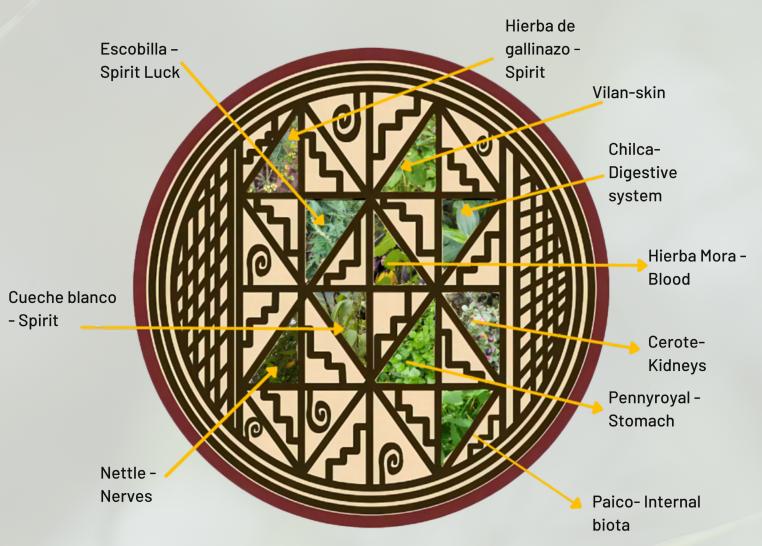
Native medicine connects traditional knowledge and territory.

The physical environment influences our health, the territory conditions our habits, and the natural environment is connected to our mental health.

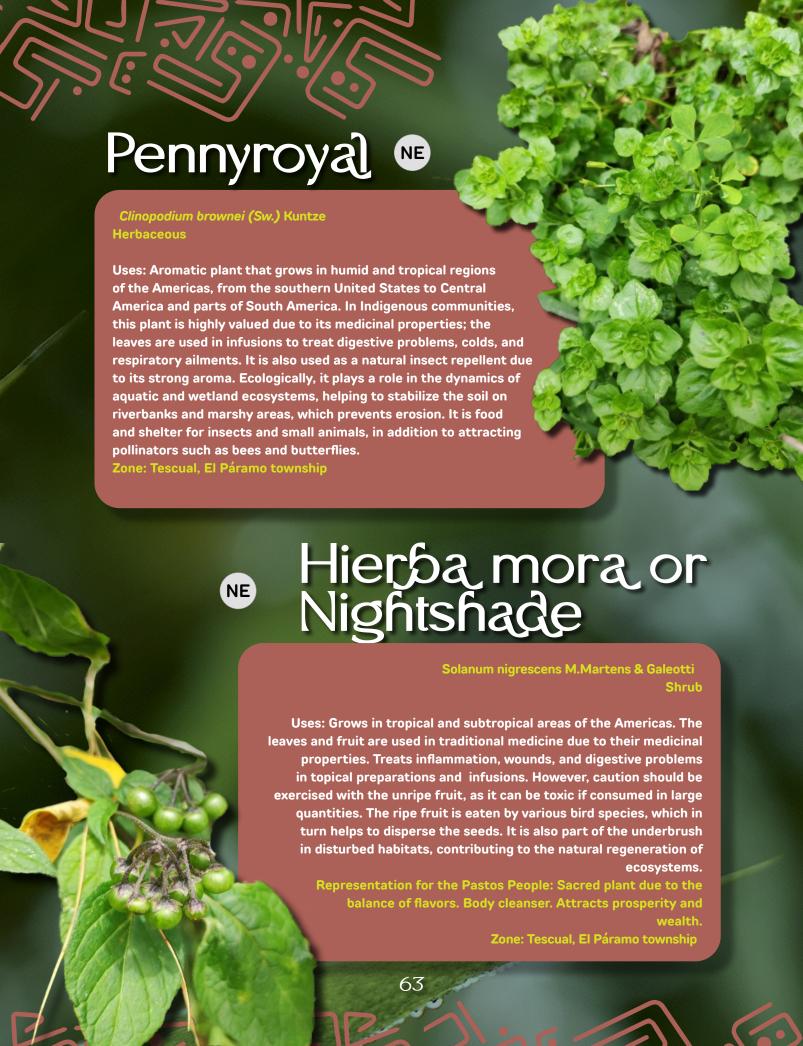
Pasto depiction: Cyclical chumbe weaving.

origin, showing us time and again the path, how fleeting we are, and the need to cleanse our body, mind, and spirit using the plants that surround us.













Uses: Attributed with medicinal properties as a digestive, carminative, and anti-abortive. An infusion made with its leaves is used to relieve gastric pain, and the decoction of its flowers and fresh leaves to relieve colds and bronchitis. An essential oil used in perfumery and aromatherapy is extracted from its leaves. In gastronomy, it is used as a condiment in sauces and traditional dishes, providing a distinctive flavor. It is also used as a natural insecticide due to its ability to repel crop pests.

Zone: Tescual, El Páramo township



Concluding Remarks

he Pan Amazon Gran Tescual Indigenous Reservation is a living testimony to the deep bond that the community has cultivated with its natural environment. The botanical wealth of this territory not only represents a unique biodiversity, but also an invaluable cultural heritage that reflects the ancestral wisdom of the Pastos People and their harmonious relationship with nature. This connection is collectively woven and sustained; the dynamic and transformative role of women is particularly noteworthy, as they have been the guardians of the botanical, and spiritual medicinal. knowledge transmitted over generations.

This guide has documented the main species ranging from ornamental plants and timber trees to edible species. and those of ecological, medicinal, and spiritual importance. Each plant included in the guide has an integral part in the Pastos People's worldview, highlighting the essential role the species play in the day-to-day life of the Gran Tescual community and in its ability to adapt to environmental challenges. This ancestral knowledge plays a crucial role in territorial resilience, revealing how sustainable-use practices with these plants have been a pillar of our response to the challenges of climate change. The knowledge of those who live in Gran Tescual reflects a close and respectful connection with the environment, where sustainability and care are key aspects of our vision of the world.

It is important to understand that the Gran Tesqual's climate adaptation and resilience have been collectively constructed with a gender approach. The women of Gran Tescual are protagonists and leaders in these processes, as they have traditionally cared for the land, transmitted knowledge about medicinal plants, and maintained sustainable agriculture through the chagras. Historically the women's contributions been rendered invisible conservation and land management narratives. However. Gran Tescual assumed the task of recognizing this role to advance towards transformative resilience with climate change adaptation.

In a global context marked by this phenomenon and unprecedented crisis, the native and endemic species of the Gran Tescual are living adaptations to the changing conditions of their environment. The selection of resistant varieties, sustainable agricultural and spiritual practices linked to land use—where women play a key role—demonstrates

how Indigenous wisdom can offer environmentally friendly solutions. These solutions are not only ecological, but also have a profound social and gender approach, integrating the experiences and knowledge of women, men, youth, and other wise people from the community.

The research also underscores the urgent need to address the challenges facing the Gran Tescual territory, such as habitat loss, biodiversity degradation, extractivism, and a devaluation of traditional knowledge, practices, and identity, as well as excessive resource exploitation. The preservation of plant life in the Gran Tescual not only contributes to the health of the Andean and Amazon ecosystems but also strengthens the identity community's cultural and social and environmental resilience. Agroecology, traditional medicine, and habitat conservation are practices that are intrinsic to the Pastos' worldview and are intertwined with the gender roles and social relations that sustain these practices. These are in turn enriched by intergenerational experiences. The practices demonstrate that the Gran Tescual model can be replicated in other regions of the world, taking into account the specificities of each territory.

The connection between botany and climate resilience is clear: each plant documented in this guide not only represents a resource, but also symbolizes a history, a tradition, and a way of life that must be protected. By educating about the importance of these species, we seek to inspire a sense of responsibility towards the conservation of the natural and cultural heritage of the Gran Tescual territory and more broadly in the department of Nariño, promoting development that respects biodiversity and the cultural practices that sustain that diversity, with recognition for women's contributions and central role in these processes.

Finally, Gran Tesqual is not just a territory; it is a home full of life, history, and teachings that should be shared and protected. It is a symbol of resistance and adaptation, where the wisdom of the Pastos People seeks to be in tune with present needs. In the face of an uncertain future due to climate change, the perspective of transformative resilience, built from a gender and feminist, decolonial, ethnic, and intersectional approach, stands as a beacon of hope and a call for collective and just action for all people.

Appendix

COMMON NAMES ACCORDING TO THE REGIONS WHERE THEY GROW IN COLOMBIA.

Axinaea macrophylla: Amarillo

Antioquia: Tuno roso o Tuno rojo

Cundinamarca: Tunorroso

Cauca: Mendis

Andes: Danto blanco

Cauca: Manzanillo

Andes: Nigüito danto

Palicourea amethystina: Maju

Andes: Cafeto de monte

Peperomia galloidk

Nariño, Putumayo: Cuyanguilla

Cundinamarca: Canelón

Ok upanax eculadorensis/s

Carchi Ecuador: Pumamaqui

Orthrosanthus chimborace

Firenita

Boyacá, Cauca, Cundinamarca, Nariño:

Esterilla

Boyacá, Cundinamarca: Esterillo,

estrellita, paja garnona, fibra de María

Cundinamarca: Espadilla

Cundinamarca: Escobo

Cundinamarca: Lirio de páramo

Magdalena, Sierra Nevada de Santa

Marta: raíz de cepillos, amargoso, aneiba

Chaetogastra mollis: Mayo

Región andina: Flor de mayo

Ecuador y Perú: Pucasacho

Ceroxylon quindiuense: Palma real

Meta, Quindío, Tolima, Valle, Andes:

Palma de cera

Meta: Palma de ramo

Antioquia: Chonta

Weinmannia fagaroides: Encenillo

Cauca: encenillo crespo

Boyacá, Cundinamarca: encenillo

Weinmannia balbisiana: Encenillo

Antioquia, Cundinamarca, Nariño:

encenillo

Nariño; encino

ledrela montana: Cedro maderable

Cundinamarca, Nariño: cedro

Cundinamarca, Norte de Santander:

cedro colorado

Valle del río Magdalena: Cedro mondé

Valle: cedro rosado

Cundinamarca: cedro cebolla, cedro

oloroso, cedro dulce

Valle: cedro cebollo

Antioquia, Meta: cedro clavel,cedro de

montaña

Antioquia: cedro de tierra fría

Caldas: Monde, munde, serrano

· Clusia multiflora: Cuandera

Cundinamarca, Santander, Andes:

gaque

Antioquia: chagualo

Caldas, Cundinamarca: cucharo Cundinamarca: caucho, sape, tapas Nariño: caucho gaque, imparmo,

incienso, manduro

Norte de Santander: tampaco

Myrsine dependens: Cucharo

Boyacá, Cauca, Cundinamarca: cucharo Cundinamarca: maiztostao, arrayán,

cucharillo maíz tostado

Santander: maiz tostado

Valle: espadero

· Freziera canescens: Capulicilla

Nariño: motilón

Cauca: cerezo de monte

Cauca: capulicillo

Motilón: Hieronyma macrocarpa

Cauca: motilón colorado Nariño: motilón dulce

Tolima, Valle, Andes: candelo Boyacá, Caldas, Cundinamarca:

chuguacá

Cundinamarca: chuguacá hojiancho

Santander, Andes: colorado Cauca: mulato, mulatón Cauca, Nariño: pantano Magdalena: arenillo

Caquetá, Cauca, Andes: granadillo

Uvilla: Physalis peruviana

Generalizado: uchuva Cundinamarca: uchuvo

Cauca, Huila, Nariño, Andes: uvilla

Nariño: uvilla buchona

Caldas: ochuva

Huila, Tolima: vejigón

Boyacá, Santander: chamico, guchuvo,

Cundinamarca: hierbabuena

Magdalena: tomate

Xanthosoma sagittifolium: Bore

Amazonas, Antioquia, Boyacá, Caldas, Meta, Norte de Santander, Putumayo, Santander, Tolima, Andes: bore

Amazonas, Antioquia, Bolívar, Caldas, Caquetá, Cauca, Cesar, Córdoba, Huila, Quindío, Risaralda, Santander, Sucre,

Tolima, Valle: mafafa

Antioquia, Chocó, Darién: otó

Amazonas: yota

Antioquia, Caldas, Cauca, Chocó,

Nariño, Norte de Santander, Risaralda,

Valle, Andes: rascadera

Arauca, Norte de Santander: ocumo

Cauca: alín

Cesar, Norte de Santander, mija Boyacá, Cundinamarca, Tolima:

malangay

Córdoba: mafafa blanca Cesar: mafafa miia

Caquetá: mafafa pata de gallineta

Córdoba: mafafa morada

Amazonas: yota de picón, batata, yota

de sapito

Amazonas: yota de solAmazonas:

yotica

Cauca: rascadera morada, rascadera

rosada

Cauca: rascadera negra Chocó:chunga, malanga Amazonas: nipachire

· Cucurbita maxima: Zapallo

Amazonas, Antioquia, Arauca, Atlántico, Bolívar, Boyacá, Caldas, Caquetá, Casanare, Cauca, Cesar, Córdoba, Cundinamarca, La Guajira, Huila, Magdalena, Meta, Nariño, Norte de Santander, Putumayo, Quindío, Risaralda, Santander, Sucre, Tolima,

Valle: ahuyama

Amazonas, Antioquia, Arauca, Atlántico, Bolívar, Boyacá, Caldas, Caquetá, Casanare, Cauca, Cesar, Córdoba, Cundinamarca, La Guajira, Huila, Magdalena, Meta, Nariño, Norte de Santander, Putumayo, Quindío, Risaralda, Santander, Sucre, Tolima,

Valle: auyama

Amazonas, Antioquia, Cauca, Chocó, Huila, Nariño, Putumayo, Tolima, Valle:

zapallo: huyama

Bolívar, Norte de Santander, Tolima:

uyama

Bolívar, Norte de Santander, Tolima:

ahuyama burrera

Antioquia, Tolima: ahuyama candelaria Antioquia, Tolima: auyama candelaria

Bolívar: ahuyama cintura

Cundinamarca: ahuyama peruana

Santander: auyama blanca Sucre: auyama caturra Antioquia: auyama común

Santander: auyama corazón de res

Santander: auyama lagartija

Boyacá: auyama pirul Boyacá: auyama poteca Caldas, Risaralda: uyamera

Valle: zapallera

Canna indica: Achira

Amazonas, Antioquia, Boyacá, Caldas, Caquetá, Cauca, Chocó, Cundinamarca, Huila, Meta, Nariño, Putumayo, Tolima, Valle, Andes, Pacífico: achira Antioquia, Arauca, Atlántico, Bolívar, Casanare, Cesar, Córdoba, Cundinamarca, La Guajira, Magdalena, Santander, Llanura del Caribe: capacho Boyacá, Cundinamarca, Huila, Tolima,

Andes: chisgua Boyacá: rigua Boyacá: risgua

Cundinamarca, Meta, Huila, Tolima: sagú Chocó, Nariño. Norte de Santander.

Valle: bandera

Antioquia, Cundinamarca, Nariño, Norte de Santander: pabellón Boyacá, Norte de Santander: raíz

Boyacá: rea Caldas: achila

Amazonas, Quindío: achira blanca

Huila: achira bugueña

Cundinamarca, Tolima: achira colorada

Huila: achira criolla

Caquetá, Quindío: achira morada

Huila: achira natagueña Amazonas: achira oscura

Meta: achira roja

Amazonas, Caquetá: achira verde Antioquia, Cauca, Nariño, Quindío,

Tolima: achirilla Caldas: chirilla

Magdalena: capacho de monte

Andes: rijua Boyacá: brigua

Cundinamarca: sagú blanco Antioquia, Cundinamarca, Tolima:

corbata de Gaitán

Santander: espada de Bolívar

· Vasconcellea pubescens: Chilacuan

Nariño, Putumayo: chilacuán Nariño, Putumayo: chilguacán

Cundinamarca, Horticultura: papayuela

Cauca, Boyacá, Cundinamarca, Huila, Norte de Santander: papayuelo

Cauca: higuillo
Antioquia: tapaculo
papaya de olor
papaya de tierra fría
papayuela maligna
tapacú

Hesperomeles ferruginea: Cerote

Boyacá, Cundinamarca, Santander, Andes: mortiño

Cauca, Huila: cerote Valle, Andes: noro

Cauca, Valle: guayabo de páramo Cauca, Santander: manzano

· Meriania splendens: Carbunquillo

Nariño: amarrabollo Nariño: carbunquillo

Cauca: maya Nariño: carbonero garbunquillo

· Ambrosia arborescens: Escobilla

Boyacá, Caldas, Cundinamarca, Nariño: altamisa

Cauca: artamisa

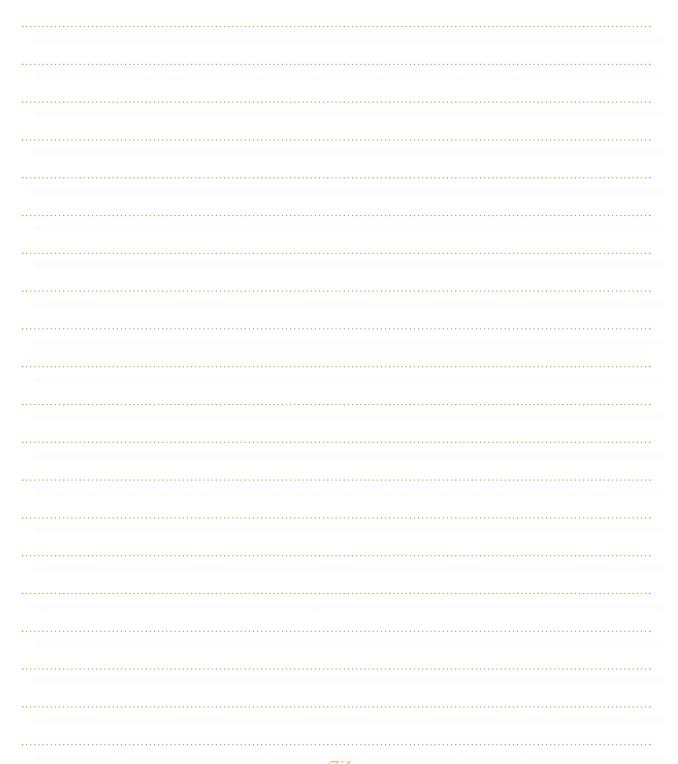
Boyacá: altamisa grande

Nariño:marco

Tagetes minuta: Hierba de gallinazo

Caldas: ruda gallinaza

Notas



Notas





