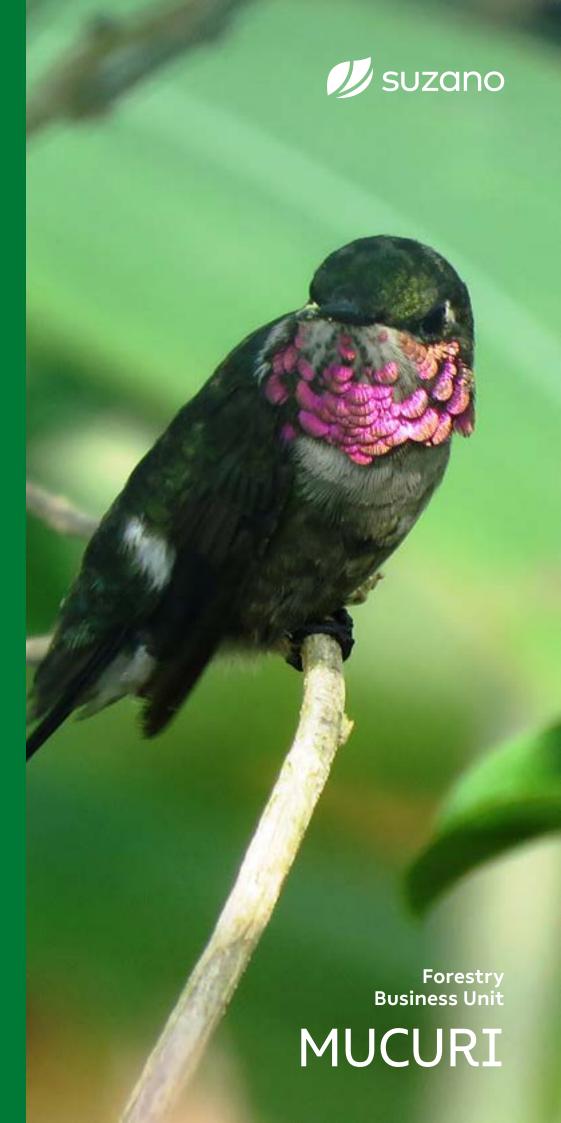
Public Summary of the MGNeJO FLORESTGL 2021





Public Summary of the

## SEMENT

Forestry Business Unit Mucuri



3					
	01.	авоит тне			
		SUMMARY			

ог. авоит

os. where

04. FOREST

05. FOREST

**CERTIFI-**

Cation

13

opera-

TION area

we are

**SUZANO** 

- 15 UNIT
  - 06. FORESTRY **BUSINESS** MUCURI

- 20 07. SOCIOесономіс aspects
- 24 08. THE IMPOR-Tance of **PLANTED FORESTS**
- 28 09. FOREST MANасемент

10. ENVIRON-

ментац

манасемент

36

- 54 11. acknowledg-**MENT OF AND**
- **RESPECT FOR PROFESSIONALS 59** 
  - 12. SOCIAL манадемент
  - 13. COMMU-**NICATION WITH sтаке-HOLDERS**

70

## **PROCEEDINGS**

Every year, Suzano S.A. prepares its Forest Management Plan for the regions where it operates based on data from the previous year and according to results for monitoring and control or significant changes in forestry operations, responsibilities and socioeconomic or environmental conditions.

## Cover

Ruby-throated hummingbird (Calliphlox amethystina)

## **Images**

Suzano's archives





## SUMMARY

In this public summary of the Forest Management Plan, Suzano S.A. presents information on the forestry activities of the region, including responsibilities, available resources and strategies used in the adoption of responsible forest management focusing on the sustainable development.

It is a synthesis of the Forest Management Plan based on the main forest certifications: FSC® – Forest Stewardship Council®, FSC-STD-BRA-01-2014 V1-1 PT FSC and NBR 14.789:2012 CERFLOR (Forest Certification). Each system has its own principles and criteria.

Suzano S.A.'s Forest Business Units (FBU) under the scope of the forest certification are licensed under the following codes: FSC-C009927, FSC-C100704, FSC-C110130, FSC-C155943 and FSC-C118283.

In addition to the printed version, the Public Summary of the Forest Management Plan is emailed to the Company's main stakeholders: society, public authorities, neighbors and communities in its areas of operation, in addition to employees and outsourced.

Have a pleasant reading!







GBOUT SUZGNO S.G. Suzano is a global reference for the development of sustainable and innovative solutions from renewable sources and is committed to renewing life from the tree.

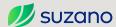
World leader in the manufacturing of eucalyptus pulp and one of the major manufacturers of paper in Latin America, Suzano exports to over 100 countries and its products are part of the lives of more than 2 billion people.

With eleven operating plants and the joint operation Veracel, its installed capacity is 10.9 million tons of market pulp and 1.3 million tons of paper per year.

Suzano has approximately 35 thousand direct and indirect collaborators and has been investing in innovative solutions in eucalyptus crops to allow the replacement of fossil fuels by raw materials from renewable sources. The company has the highest degrees of Corporate Governance with B3, in Brazil, and New York Stock Exchange (NYSE), in the USA, stocks where its shares are traded.

We plant and grow trees. We transform this renewable raw material into innovative and sustainable bioproducts that are part of your daily life.







## People who INSPIRE AND TRANSFORM



## We create and share **Value**

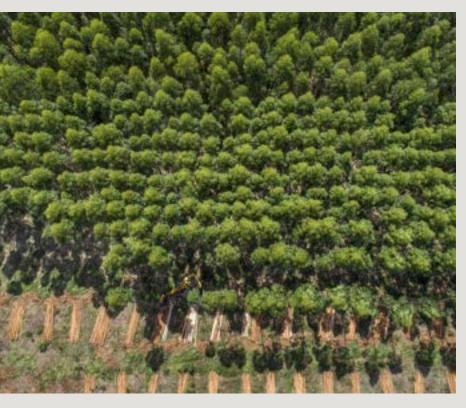


It's only good for us if IT'S GOOD FOR THE WORLD

Renewing life from the tree. This is our purpose. We need to renew our ways of producing, consuming, distributing value, and relating with nature. Each eucalyptus seedling carries solutions for sustainable and innovative ideas for society.

For Suzano, trees are a symbol of renovation. With them, we plant a future of innovation and sustainability. This is what we call INNOVABILITY We believe that trees are the basis for it and that our crops can generate renewable inputs for several businesses. That's how we evolve more and more.

We operate responsibly based on our expertise in eucalyptus crops. This means that we always use the best management practices in cropping - that is how we contribute for the maintenance of fertility and protection against erosion and degradation.







WHERE WE GRE

## **Business offices**

We have business offices abroad in China, USA, Switzerland and Austria and subsidiaries in England and Argentina.



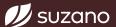
## **Distribution Centers**

United States (4)

Europe (6)

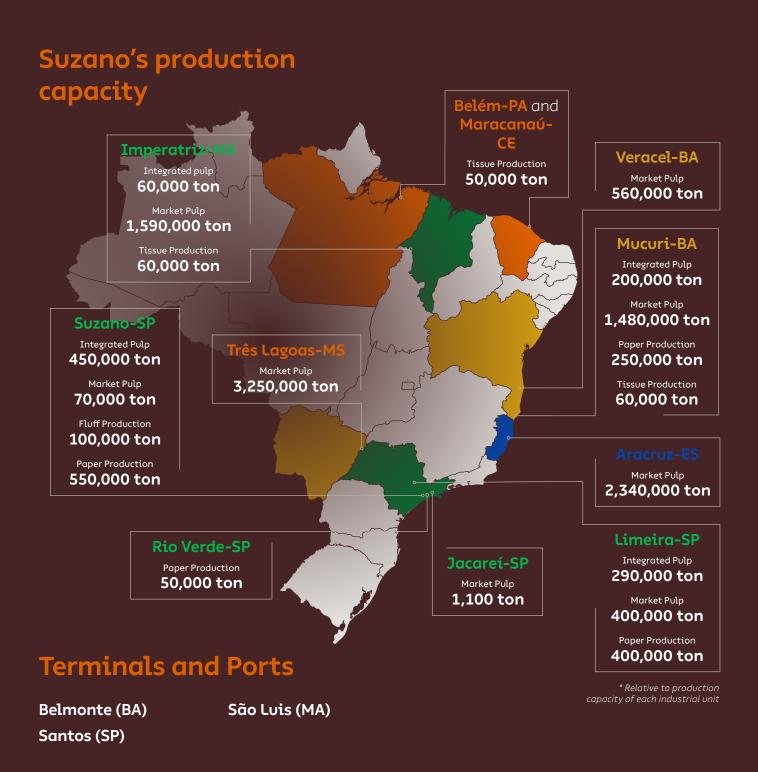
Asia (2)





Our organization includes administrative offices in Salvador (state of Bahia) and São Paulo (state of São Paulo), industrial plants and FuturaGene, which is responsible for the genetic development of forest crops and biofuels, with research laboratories in Israel and China. In 2021, FBU Mato Grosso do Sul started building a new plant in the municipality of Ribas do Rio Pardo.

We provide products and services from 1.3 million hectares of planted forests and 960 thousand hectares of preserved forests in the states of Bahia, Espirito Santo, Minas Gerais, São Paulo, Mato Grosso do Sul, Maranhão, Tocantins, Para and Piaui.

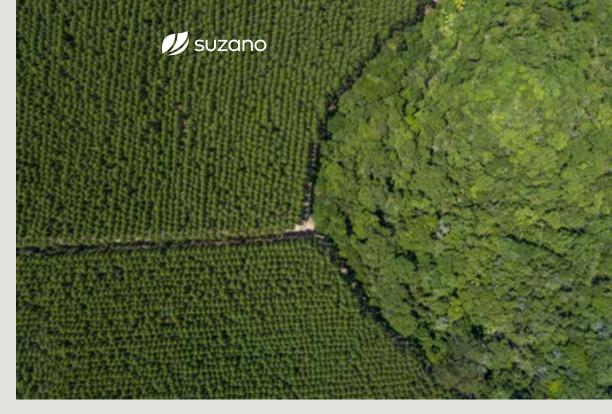




## 



# POREST OPERATION GREG



## Forest assets with certification

Suzano's forest competitiveness ensures its operation in different regions with adequate productivity.

## **OWNED AND LEASED AREAS AND PARTNERSHIPS**

Business Unit	Crop Area (ha)	Conservation area (ha)	Infrastructure (ha)	Total (ha)
Aracruz/Mucuri	382,107.70	298,220.76	29,638.59	709,967.05
Imperatriz	216,427.69	299,918.82	16,525.23	532,871.74
Limeira/Suzano/Jacareí	219,159.22	134,253.20	16,789.29	370,201.71
Três Lagoas / Cerrado	422,418.80	280,406.76	21,802.23	724,627.79
Total	1,240,113.41	1,012,799.54	84,755.34	2,337,668.29

Data of May/2022



## FOREST AREAS WITHIN THE SCOPE OF FSC® AND CERFLOR CERTIFICATIONS FOR EACH FOREST BUSINESS UNITS

FBU	Certified areas FSC® and PEFC (ha)			
FBU BA	328,885.91			
FBU ES	214,613.58			
FBU MA	400,786.81			
FBU MS	303,697.15			
UNF SP	335,087.67			
Suzano S.A. Total	1,583,071.12			

Data of Dec/2021





## FOREST TEICGTION 20

Suzano S.A. is committed to its goal of guiding its Forest Management system according to the Principles and Criteria set forth by the FSC® Certification and CERFLOR NBR 14.789 Forest Management, aiming to provide long-term business sustainability, continuous improvement of its activities and performance, as well as the adoption of environmentally correct and socially responsible practices.

To this end, the company has incorporated the environmental, social and economic dimensions into its forest management basic guidelines, as follows:

- To seek technological innovations and to support research to apply the best forestry techniques in its forest production units.
- To contribute to the professional development of direct and indirect collaborators.
- To implement the Forest Production Plan based on environmental aspects, such as landscape and microbasins management, monitoring of fauna, maintenance of biodiversity corridors, and compliance with the applicable federal, state and city legislation, as well as international agreements of which Brazil is signatory.

 To contribute to the maintenance or improvement of communities surrounding the forest management units through open dialog channels, participative followup of social indicators, sharing of relevant information and promoting recreation areas or environmental education.

## **Timber traceability**

Every timber harvested from eucalyptus crops in certified areas have their traceability ensured (stewardship chain of custody), i.e., origin guaranteed from planting to transportation for the industry, thus eliminating the risk of a mix up with logs from uncertified areas (timber controlled by Due Diligence assessment).







-BU BG

Suzano S.A. Forest Business Unit in Mucuri-BA is responsible for the forest management of the areas that supply the industrial unit. The forest management areas as located in the municipalities of Alcobaça, Caravelas, Ibirapuã, Lajedão, Medeiros Neto, Mucuri, Nova Viçosa, Prado, Teixeira de Freitas and Vereda in the state of Bahia and Carlos Chagas, Frei Inocêncio, Itanhomi, Jampruca, Nanuque and Tumiritinga in the state of Minas Gerais

Plantings are carried out in owned lands, through leasing contracts, or through partnerships with rural producers. With a forest base of 434,950 hectares, of which 184,034 hectares are destined to the conservation of biodiversity (data of Dec./2021), Suzano's forest management targets the combination of eucalyptus crops and the conservation of natural resources, technological innovations and respect to communities.

All production is based on renewable eucalyptus crops, with the aim of supplying the industrial complex Mucuri - BA, with capacity to produce annually 1.7 thousand tons of bleached eucalyptus pulp, over 250 thousand tons of print and white paper and 60 thousand tons of tissue. The industrial unit of Mucuri - BA operates in compliance with the environmental control standards and uses technology for the monitoring of emissions, to control the quality of air and water and the adequate disposal of waste.





The harvesting process respects the region characteristics and uses efficient systems that rely on equipment that allow an efficient, safe and environmentally friendly operation.

To ensure success in all phases of the process, the company constantly invests in research, technology, and professional training.

Suzano's practice is to recruit candidates from the regions where it operates, provided that they meet the requirements for the job and apply on equivalent terms with other candidates. It is also the company's practice to train the workforce involving the communities in partnership with universities and technical institutions.

### AREA OF OPERATION PER MUNICIPALITY

Municipality	Municipality's area (ha)	Total area Farm (ha)	Share of occupation in the municipality (%)	Preservation area (ha)	Total area Crop (ha)	Other uses (ha)
BA		<u> </u>			<u> </u>	
Alcobaça	148,228.5	74,201.91	50.06%	32,270.29	39,213.52	2718.1
Caravelas	237,787.2	102,079.36	42.93%	38,540.94	60,010.92	3527.5
Ibirapuã	77,109.8	18,213.79	23.62%	7,500.93	9,675.2	1037.66
Lajedão	62,435.3	3,501.2	5.61%	1,300.84	2,103.03	97.33
Medeiros Neto	131,173.9	2,485.08	1.89%	1,677.29	685.74	122.05
Mucuri	178,762.6	72,509.02	40.56%	25,216.56	44213.21	3079.25
Nova Viçosa	131,638	72,135.82	54.80%	24,942.39	44,234.1	2959.33
Prado	168,783.3	15,687.69	9.29%	8,139.23	6,824.4	724.06
Teixeira de Freitas	116,562.2	14,211.35	12.19%	7,273.58	6,385.6	552.17
Vereda	78,214.1	6,125.88	7.83%	3,567.3	2,102.16	456.42
Sub-Total Bahia	-	381,151.10	-	150,429.35	215,447.88	15,273.87
MG						
Carlos Chagas	320,298.4	20,394.3	6.37%	12,490.45	7214.74	689.11
Diamantina	389,165.9	479.35	0.12%	394.81	71.31	13.23
Itanhomi	48,884.3	731.57	1.50%	725.88	0	5.69
Nanuque	151,816.6	24,813.34	16.34%	15,926.52	8,227.76	659.06
Sen. Modestino Gonçalves	95,205.5	979.31	1.03%	186.57	755.74	37
Teófilo Otoni	324,227	191.98	0.06%	191.98	0	0
Tumiritinga	50,007.3	1,961.69	3.92%	1,920.64	0	41.05
Turmalina	115,311.1	981.71	0.85%	470.74	467.8	43.17
Umburatiba	40,583.4	1,151.03	2.84%	871.14	255.82	24.07
Virgem da Lapa	86,891.4	2,114.55	2.43%	426.36	1652.95	35.24
Sub-Total Minas Gerais	-	53,798.83	-	33,605.09	18,646.12	1,547.62
Overall Total	-	434,950	-	184,034	234,094	16,821

Consolidated municipalities Bahia/Minas Gerais - 4/9/2021 Data based on registry and DPN class (available for use)

The municipalities of Diamantina, Senador Modestino Gonçalves, Turmalina and Virgem da Lapa, do not currently supply Suzano's units.



## **Environmental aspects**

The forest areas and other native phytophysiognomies in FBU BA offer possibilities for the conservation of the regional biodiversity. We are in the Atlantic Forest domain (Dense Ombrophile, Semi Deciduous Seasonal Forest and associated formations), that contains broad biodiversity, traditional communities, a rich cultural heritage, tourist sites and water springs.

## Soil, climate and hydrography

The soil in FBU-BA is mostly acid, deep, highly weathered, well drained, cohesive, resistant to erosion and compaction; very hard when dry and brittle when humid; low in organic matter; with low natural fertility. There's prevalence of Ultisols, Spodosols and Latosols in Bahia's southernmost region, with high percentages of cohesive soil.

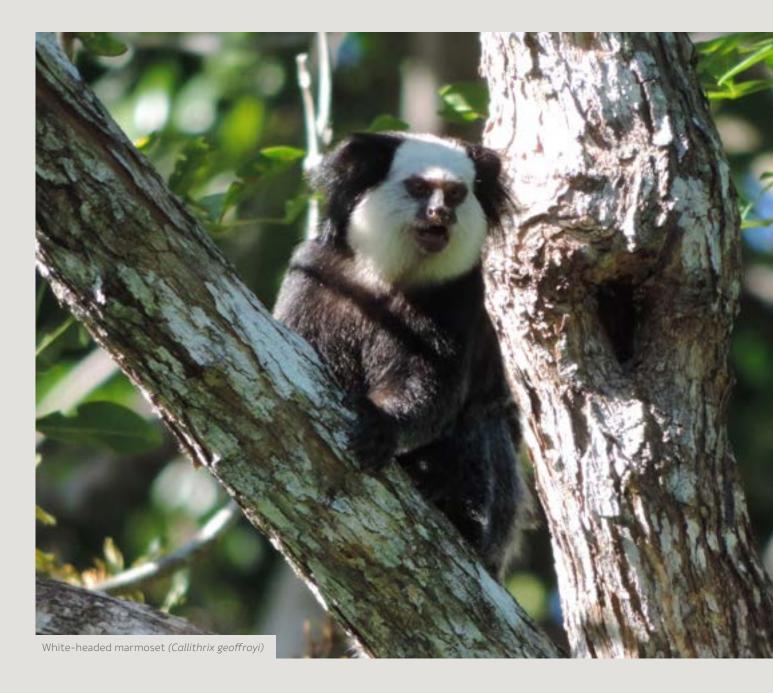
As per the terrain in the FBU-BA areas, it is characterized as small elevations and low slopes, being the highest local elevation the historical Monte Pascoal, 586 mt above sea level.

Suzano's crops are centered in a region of tropical warm humid and tropical super-humid climate, where the annual average rainfall is between 1,000 and 1,400 mm/year. The crops in Minas Gerais occupy an area where average annual rainfall range from 800 mm to 1,000 mm/year.

The main watersheds in the state of Bahia, in Suzano's area of influence, are Mucuri, Jucuruçu (south branch), Itanhém (or Alcobaça) and Peruípe Rivers. In the state of Minas Gerais, we can highlight the Rivers Itaúnas and Mucuri basins.







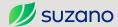
## Fauna and flora

The areas of FBU-BA are inserted into different mosaics of forest coverage and house several phytophysiognomies of the Atlantic Forest biome. In general, our farms shelter remaining areas capable of contributing to the conservation of a number of species, especially those endemic to the biome or in danger of extinction.

The environmental characterization in Suzano's areas of operation is done through the monitoring of the fauna and flora.

In a general way, the studies seek to identify, randomly or systematically, the local fauna and flora species, to allow the identification of critical species (protected by law), mapping the habitats of endemic, rare and endangered species, and finding opportunities for more detailed studies, restorative actions on the flora, or improvement of environmental conditions for the fauna. The fauna monitoring campaigns are carried out every three years, while flora monitoring is carried out every four years and it includes expeditions during dry and rainy seasons.





SOCIOECONOMICS

GSPECTS

## **Forest areas**

Characterizing and identifying the main socioeconomic and cultural aspects present in the Forest Centers to support the work of the company in defining the specific strategies in its area of operation.

The extensive area of operation of FBU BA is characterized by different social, economic and cultural realities and by small, essentially rural, municipalities.

Eucalyptus crops consists of a dynamic activity in the region, being responsible for important socioproductive changes, even though traditional activities such as livestock, subsistence farming and fishing have great importance to the productive structure of the regional economy.

The region of Costa das Baleias (Mucuri, Nova Viçosa, Caravelas, Alcobaça, Prado and Teixeira de Freitas) host a number of small and disperse communities, not linked to one another. The southernmost region of Bahia hosts an indigenous community of the Trika tribe, in the municipality of Prado, where Suzano does not own any planted areas. In 2013, a place called Aldeia Renascer was identified in the municipality of Alcobaça-BA, in the district of Pau da Garrafa.

This locality has traces of indigenous traditions, from the indigenous tribe of *Pataxó Hã Hã Hãe*, from Porto Seguro-BA. Its location is acknowledged by FUNAI.

In the east of Minas Gerais, the closest indigenous tribe is the *Maxakalí*, located in the municipalities of Bertópolis and Santa Helena de Minas, over 100 km from Suzano's crop areas.

The company identifies the social assets by means of tools and procedures to frame the location profiles. These procedures and tools are used to understand and map the main social economic characteristics of the localities nearby and, in this way, to guarantee a strategic direction of the activities with the people, set forth by the Director of Sustainability planning and prioritize tools.

## **Archaeological information**

The archaeological sites and locations with significant historical and/or cultural relevance located in the company's areas or surroundings are identified in our cartographic base. Among the main actions performed, we highlight: identifying sites of special historical, archaeological, cultural, ecological, economic or religious significance for the communities and training field staff on archaeological heritage.





## Distribution of Suzano's farms, Conservation units and Management Units of Water Resources

Conservation Units are legally recognized areas, with relevant natural features with the role of securing the representativeness of significant and ecologically viable samples of the different populations, habitats and ecosystems.

The fragments of native vegetation and planted forest have an important role in the set of biodiversity conservation actions both locally and state-wide.

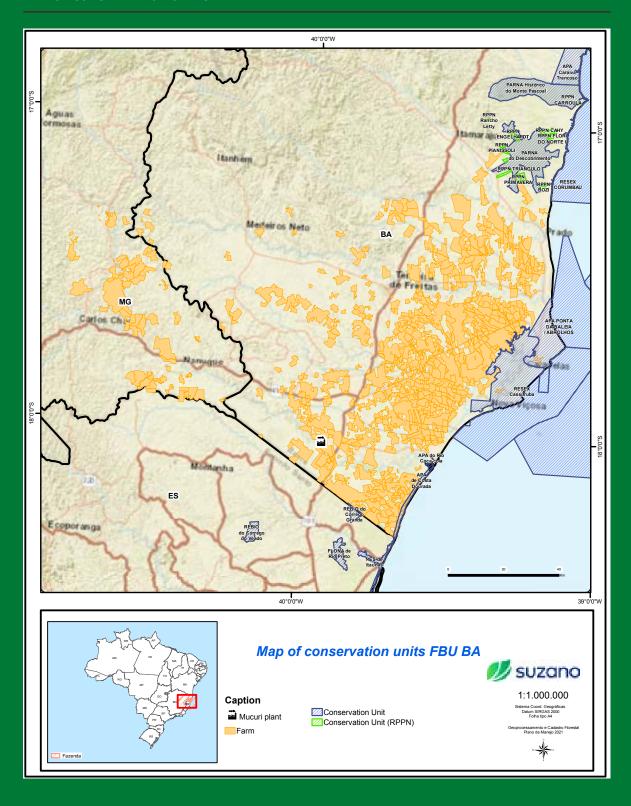
The areas operated by Suzano, with the techniques provided to protect fragments and manage commercial crops, have relevant positive effects on the neighboring conservation units because they shelter significant amounts of biodiversity and maintain the functionality of key biological and ecological processes.

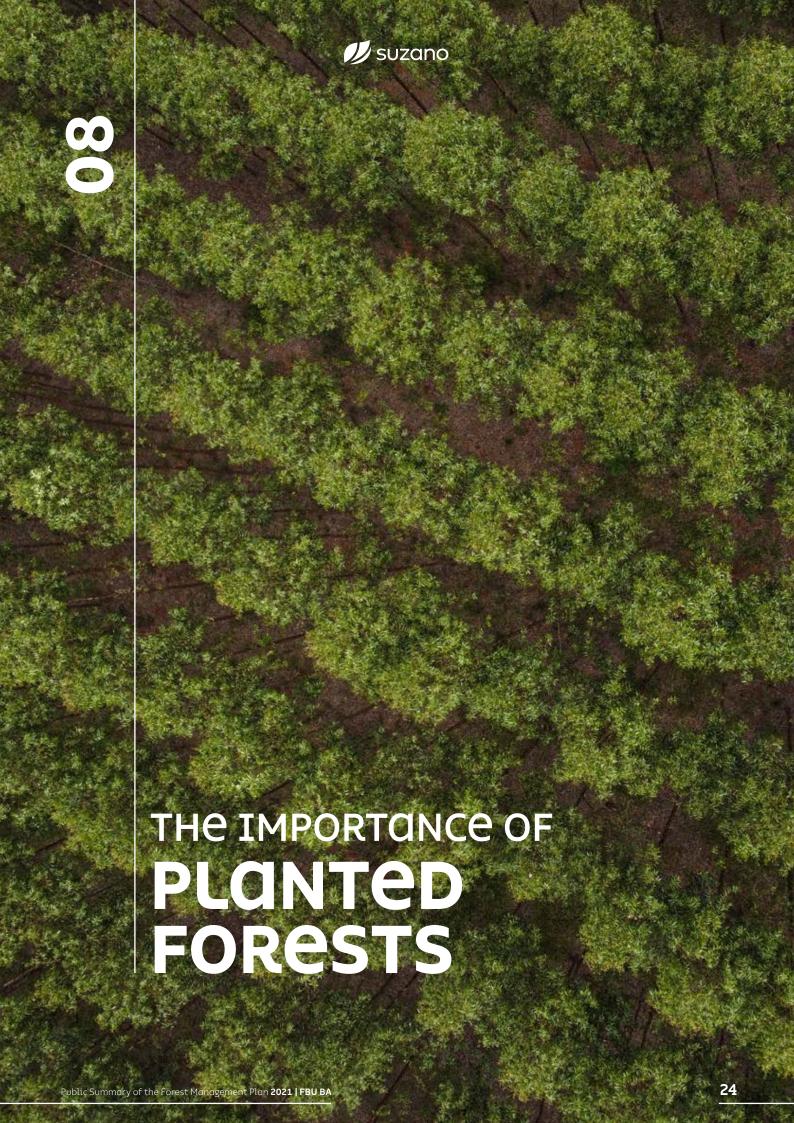
The use of water by operational activities is regulated by a state public agency that, depending on the water availability of each resource, and the volume needed by other users, establishes the maximum amount of water to be used by the company, in order to guarantee the water supply to the other users in the basin.



Some Conservation Units adjoined to Suzano - Mucuri Unit areas are Cassurubá Extractive Reserve, the Abrolhos National Marine Park and the Descobrimento National Park, in BA, and the Córrego Grande and Córrego do Veado Biology Reserves, in northern ES.

## MAP OF CONSERVATION UNITS







# THE IMPORTANCE OF PLANTED FORESTS

## What is forest management?

Forest Management is the administration of forest resources with the aim of achieving economic and social benefits aligned with the mechanisms for ecosystem support by employing the best practices of Eucalyptus farming. The goal is to reach high productivity in balance with the environment conservation.

## **Objective**

The goal of Suzano's forest management is to supply the industrial Units with eucalyptus timbers, according to the parameters described in the following, either for short or long terms.

- Availability and rational use of areas for the cultivation of eucalyptus through directives and procedures for the purchase and lease of land.
- Development of new genetic material and monitoring of soil nutritional levels, pests and others, defined in operational routines and specific research projects.
- Standardization, reporting and continuous improvement of procedures related to seedling production, implementation, restoration, forestry practices, construction and conservation of roads, harvesting, and transportation of forestry products.
- Outlining of programs concerning the environment, healthcare and safety at work, as well as socioenvironmental aspects, always in compliance with the applicable law.



## THE EUCALYPTUS

Is an exotic species (not native from Brazil), like coffee, corn, soy, sugar cane and several other crops widely cultivated in the country.

With proper management, water consumption is similar to that of native forests and its roots are kept away from the water table

It is harvested in approximately seven years and can be cultivated in low fertility land.

With proper management, it provides protection for biodiversity as shown by the biodiversity surveillance results in Suzano's areas.

Helps to absorb carbon dioxide (CO2) from the atmosphere, contributing to reduce the effects of climate change and to maintain environmental services that are important to society, such as water sources.





The average annual production of crops is

## **37.5 M³/Ha.year**

## Compliance with the law

Suzano is always up-to-date with the applicable environmental, labor and tax laws with preliminary surveys carried out by an environmental law consulting firm

## **Managed forest resources**

To supply the demands of the industry for eucalyptus timbers, we rely on crops of the genus Eucalyptus, which encompasses more than 600 species that are adapted to many different soil and weather conditions. Eucalyptus originates from Australia and Indonesia. It was chosen due to its higher potential for timber production for pulp when compared with other forestry species and due to its adaptability to the environmental conditions in Brazil, including soil and weather.

## **Forest Management Activities**





## **Technology and innovation**

Suzano maintains advanced Technology Centers that develop studies and research on forestry and industry. These activities aim to a consistent enhancement of its operations and technological innovations, focusing on the company's sustainability.

Technology and Innovation works mainly on Genetic Improvement, Genomics, Forest Protection, Forest Management, Ecophysiology and Biotechnology, defining models of planted forest management that support an increase in forest biomass productivity.

Suzano's crops are mostly formed by hybrids obtained from the crossbreeding of *Eucalyptus grandis* and *Eucalyptus urophylla*.

Those species were selected following several cycles of improvement and research because they are better adapted to the local soil and weather conditions. Currently, the tree is harvested in six years in average, varying from five to seven years. After the first harvest, the area is managed for a new planting or for regrowth.

## **Partnerships**

Suzano develops studies and research in collaboration with outstanding public and private institutions in Brazil and abroad. All projects and activities seek to meet market and operational demands, legal requirements, new tendencies, technologies and products of internal research strategies.

As a result, Suzano stands out in developing and recommending new genetic materials, in monitoring and recommending forest management practices and fertilization, in using new technologies in forest protection and more sustainable production practices. In addition to the results highlighted in forestry, Suzano also sustains solid and robust results in the research and development of the industry and new businesses.





Meet our partners in research and innovation in: www.suzano.com.br/a-suzano/documentos







## **Forest Inventory**

On its first 120 days, the forest is monitored through a Qualitative Inventory that allows inferences on the quality and homogeneity of the crops. In regrowth forests, performance is monitored at 90 and 180 days upon harvesting also through qualitative forest inventory.

The Continuous Forest Inventory uses sampling techniques to gather data that allow an estimate of the planting volume per hectare and per tree for a given age. This information is used in the decision making process on the best harvest time. It is also important for the proper planning of timber supply to the Industrial Unit.

## **Planning**

Planting and harvesting planning for timber supply comprises short, medium and long term achievements, aiming at the best utilization of natural resources and minimizing occasional socioenvironmental impacts. Forest planning keeps track of forest ordering to ensure the industry supply.

The proper management of planted forests favors crop productivity and contributes to disease and pest control, biodiversity conservation, and protection of springs and ecosystem services - creating a virtuous cycle.

## **Operational Excellence**

This area is responsible for the development and transference of mechanization and digitalization technology to forest processes.

It seeks the continuous improvement of forestry activities, harvest and logistics, with particular interest in routine management, quality and productivity of operations, as well as personnel qualification, thus promoting safety, product quality, high productivity, feasible costs for forestry activities and environmental conservation.





## **Seedling production**

The plant nursery is where the eucalyptus seedlings are produced and managed through several stages until reaching the proper size to be planted in the field.

The seedling development time ranges from 90 to 120 days. To produce seedlings of outstanding quality, the distance between them needs to be increased when they reach 60 days so that they can grow healthier.

In 2020, FBU BA achieved

1,143 HQ Implantation

20,443 HQ Restoration

5,213 HQ Regrowth

Totaliling

26,799 Ha



## **Planting**

The main activities related to trees planting are: preplanting mechanized chemical cleaning, mechanized soil tillage, mechanized fertilization, planting, mechanized and semi-mechanized irrigation, and replanting.

Planting can be carried out in reform areas (where an eucalyptus crop already exists), or in implantation areas (where there is no eucalyptus crop). Suzano only implants forest in areas not covered by native forests.

Soil is prepared using minimum tillage, which consists in preparing strips of soil in the planting line. About 70% of the land remains undisturbed, which favors the maintenance of soil characteristics, avoiding erosion and loss of organic matter.





### **Forest Maintenance**

This stage consists in a set of activities carried out between planting and harvest (5 to 7 years) to ensure growth and productivity.

The main forest maintenance activities are: manual or mechanical mowing, chemical or mechanical weeding, fertilizing, control of leafcutter ants, prevention of forest fire and diseases and pest control.

## Trucks equipped with telemetry

FBU BA uses precision technology to manage operations. Our fleet is equipped with telemetry to monitor operations, distribution and positioning of the trucks on the company's roads and farms, control of loading and unloading, and to support our partners in the management of operation safety, such as monitoring the drivers working hours and detecting occasional violations of speed limits.

With this system in place, Suzano strengthens the culture of daily routine management with partner companies in logistics operations, thus maximizing personnel safety standards, and operational efficiency based on reliable data.





## Harvest

As soon as the forest reaches its ideal point, timbers are harvested to supply the industrial plant. Harvest encompasses all the processes from tree harvest to the disposition of logs (cutting, forwarding, stacking and fueling), up to the point where they can be transported by trucks.

During harvest, eucalyptus trees are cut toward the center of the plot, avoiding any possible damage to the native vegetation.

## **Timber transportation**

Forest Logistics main responsibility is to transport timbers from the forest areas to the Industrial Units. The harvested timbers are transported according to the Annual Transportation Planning. Once this process is defined, loading, routes and trucks distribution are determined considering the requirements defined on the area's operational procedures.

The routes for timber transportation are defined in agreement with Suzano's Sustainability sector in order to minimize the possible impacts of forestry activities on th neighboring communities.



## Road Network - roadways

The road network in the forest area comprises municipal and state roads, arterial, collectors and firebreaks, whose maintenance is defined according to the company's internal criteria to secure forestry operations and avoid erosive processes in the conservation areas.

- Drainage structures, such as containment boxes, are built to store rain water and avoid erosion on the roads.
- Existing roads are repaired and new roads can be opened to improve operation quality and safety.
- Firebreaks are kept to secure the access of fire brigade teams.

## **Road moistening**

To keep the road wet during certain earthworks, the company uses a tank truck. The goal is to reduce dust around houses and settlements caused by the traffic of trucks transporting timber to the company.

## Suzano respects and values its professionals.

Therefore, health and safety are the company's permanent commitment. Suzano maintains a set of rules that guides its employees and the carriers' employees into safer driving habits, protecting everyone's lives.



## **Forest integrity**

Suzano's team of professionals involved in the productive processes of forestry focus largely on prevention and control of wildfires.

That is why the company provides continuous training to its brigade and forest protection teams that are not only apt to monitor, but also act as support to fight fire in neighboring farms.

We carry out Forest Protection work along with the competent authorities, aiming to reduce the Forest Fire incidents, as well as other issues found in our premises.

To maintain our forest crops and conservation areas, we rely on the daily monitoring of the Property Surveillance Staff and cameras to indicate problems and fires.

The Forest Fire Brigade acting on the crops and conservation areas, consists of the combination of property surveillance and firefighting activities, that work preventively, by monitoring the areas and effective readiness to act upon call of forest fire.





## Safety and protection of Forest Areas

Suzano has an electronic forest fire monitoring system implemented in Bahia and Minas Gerais with monitoring towers with 360° view operated by 1 central station. This system covers over 95% of the forest area, including crop and preservation areas.



Location of teams



Night incident detection



Daylight incident detection



Detection of pests and diseases









35





10

# ENVIRONMENTAL MANAGEMENT

Public Summary of the Forest Management Plan **2021 | FBU BA** 

# **High Conservation Value Areas**

The term High Conservation Value Areas (HCVA) was created along with the standards for the forest management certification and refers to areas with important features for the conservation of biodiversity and people's quality of life.

Examples are: native forests that house endemic (that can't be found anywhere else) or endangered animals and plants, and forests that provide essential resources for the local population.

Suzano uses this concept to guide its conservation efforts, evaluating the HCVAs present in its areas according to the following attributes: biological, ecological, social or cultural values considered notably meaningful or of extreme importance at the national, regional or global levels. Those are the values that need protection.

In the first semester of 2021, the FBU adjusted the methodology for the evaluation of HCVA attributes 1 to 4 (environmental attributes) through a corporate technical task group for biodiversity using as reference the criteria adapted from the Guide for Good Practices to evaluate High Conservation Value developed by the ProForest Network.

This study identified 10 environmental HCVAs at FBU-ES and maintained the social HCVAs, totalling 6.4 thousand hectares. Three new HCVAs were included in the scope: Bugio-





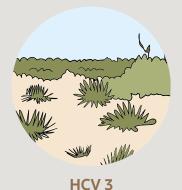
# The key to define a given area as HCV is identifying if it fits one or more attributes as described below:



Areas containing significant amount of value for biodiversity.



Extensive and preserved areas of native vegetation, of global, national or regional relevance for biodiversity.



Areas that are inserted in or contain rare, threatened or endangered ecosystems.



Areas capable of promoting environmental services in critical situations, such as the protection of water basins and erosion control.

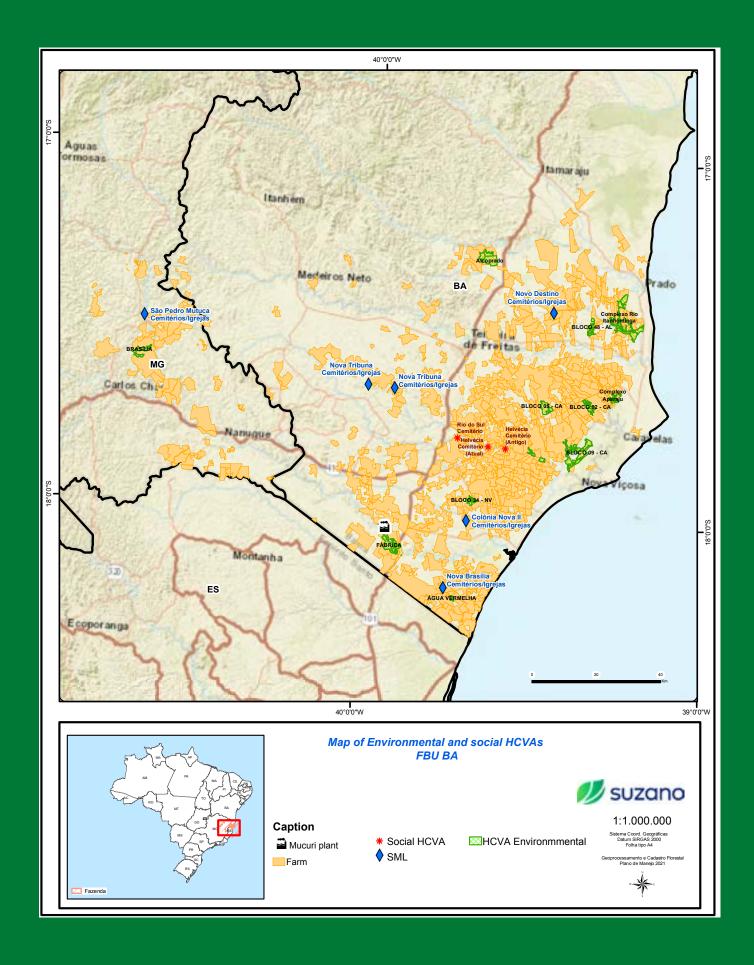


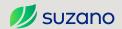
Important areas to meet the basic needs of communities, such as those related to health and subsistence.



**HCV 6**Important areas for the traditional cultural identity of communities.







# Measures of protection and monitoring according to attributes of High Conservation Values

Charact. identified	Risks and threats	Impacts	Measures of protection	Monitoring	
		<b>©</b>		***	
Endemic, rare, threatened or endangered species at the global, national or regional level	a. Illegal practices (wildfires, theft of wood and native flora, deforestation for alternative use of soil, mineral	a. Loss of biodiversity     b. Reduction in native     vegetation coverage     c. Damage to individuals     d. Imbalance of the	a. Program for     environmental     awareness among     collaborators      b. Emergence assistance     c. Implementation of	Anthropic actions: Bimonthly Birds and mammals: triannual Flora: Every 4 years	
Extensive area significantly at the global, national or regional level, containing viable populations of naturally occurring species	hunting and fishing  b. Operational damage to fauna and flora  c. Non-authorized presence of domestic animals or ranching  d. Dissemination of invasive species of plants and animals  e. Illegal and inadequate	e. Reduction of the gene flow  f. Disturbance of wildlife	preventative measures and of firefighting d. Patrimonial surveillance; e. Periodic patrolling with a team specialized in identifying environmental events f. Registration of environmental events	Anthropic actions: Bimonthly Vegetation coverage with satellite imaging: Annual Birds and mammals: triannual (fast diagnostics) Flora: Every 4 years (fast diagnostics)	
Ecosystems, habitats or refuges for rare, threatened or endangered biodiversity	disposal of residues		recommendation in operational book  h. Planning for the promotion of ecological connections  i. Placement of identification signs in loco  j. Updating of the	Anthropic actions: Bimonthly Vegetation coverage with satellite imaging: Annual Birds and mammals: triannual (fast diagnostics) Flora: Every 4 years (fast diagnostics)	
Areas capable of promoting environmental services in critical situations	a. Illegal practice (wildfire, deforestation for alternative use of soil, mineral theft, trespassing, among others) b. Operational damage to flora c. Non-authorized presence of domestic animals or ranching d. Illegal and inadequate disposal of residues  a. Engine and	a. Reduction in native vegetation coverage b. Loss of soil c. Soil compaction d. River silting e. Reduction in water availability f. Reduction in water quality	database (maps) with the location of HCVAs k. Prioritizing, whenever possible, ecological restoration l. Suzano's commitment with Zero deforestation policy	Anthropic actions: Bimonthly Vegetation coverage with satellite imaging: Annual	
	Endemic, rare, threatened or endangered species at the global, national or regional level  Extensive area significantly at the global, national or regional level, containing viable populations of naturally occurring species  Ecosystems, habitats or refuges for rare, threatened or endangered biodiversity  Areas capable of promoting environmental services	Endemic, rare, threatened or endangered species at the global, national or regional level  Extensive area significantly at the global, national or regional level, containing viable populations of naturally occurring species  Ecosystems, habitats or refuges for rare, threatened or endangered biodiversity  Areas capable of promoting environmental services in critical situations  Areas capable of promoting environmental services in critical situations  a. Illegal practices (wildfires, theft of wood and native flora, deforestation for alternative use of soil, mineral theft, predatory hunting and fishing b. Operational damage to fauna and flora presence of domestic animals or ranching d. Illegal and inadequate disposal of residues  a. Illegal practices (wildfire, theft of wood and native flora, deforestation for invasive species of plants and animals e. Illegal and inadequate disposal of residues  a. Illegal practice (wildfire, theft, predatory hunting and fishing b. Operational damage to flora alternative use of soil, mineral theft, trespassing, among others)  b. Operational damage to flora  c. Non-authorized presence of domestic animals or ranching d. Illegal and inadequate	Endemic, rare, threatened or endangered species at the global, national or regional level  Extensive area significantly at the global, national or regional level.  Extensive area significantly at the global, national or regional level, containing viable populations of naturally occurring species  Ecosystems, habitats or refuges for rare, threatened or endangered biodiversity  Areas capable of promoting environmental services in critical situations  Areas capable of promoting environmental services in critical situations  Areas capable of promoting environmental services in critical situations  Areas capable of promoting environmental services in critical situations  Areas capable of promoting environmental services in critical situations  Areas capable of containing others)  Areas capable of promoting environmental services in critical situations  Areas capable of residues  a. Illegal practice (wildfire, theft of wood and native regetation coverage because the flora containing others)  b. Operational damage to flora containing others)  b. Operational damage to flora containing others)  c. Non-authorized presence of domestic animals or ranching containing d. Illegal and inadequate disposal of residues	Endemic, rare, threatened or endingered biodiversity elongular disposal of residues of presence of domestic animals or rendingered biodiversity environmental events  Extensive area significantly at the global, national or regional level  Extensive area significantly at the global, national or regional level  Extensive area significantly at the global, national or regional level, containing viable populations of naturally occurring species  Extensive area significantly at the global, national or regional level, containing viable populations of naturally occurring species  Extensive area significantly at the global, national or regional level, containing d. Dissemination of invasive species of plants and insmals  e. Non-authorized presence of domestic animals or reaching d. Dissemination of invasive species of plants and animals  e. Illegal and inadequate disposal of residues  Areas capable of promoting environmental services in critical situations  a. Illegal practice (wildfire, deforestation for alternative use of soil, mineral theft, trespassing, among others)  b. Operational damage to flora  a. Illegal practice (wildfire, deforestation for alternative use of soil, mineral theft, trespassing, among others)  b. Operational damage to flora  c. Non-authorized presence of domestic animals or ranching  d. Disturbance of wildlife  flow f. Disturbance of wildlife  flow	



High Conservation Values

Charact. identified

Risks and threats

**Impacts** 

Measures of protection

Monitoring













Essential areas and resources to meet the local communities, indigenous peoples or traditional peoples basic needs

a. Illegal practices (wildfires, native wood and plants theft, deforestation for alternative use of soil, mineral theft, trespassing, among

- others) b. Deforestation
- c. Operational damage
- d. Loss of access to cultural values and resources
- a. Loss of biodiversity;b. Scarcity of resources
- for extraction;
- c. Reduction in water availability.
- a. Patrimonial surveillance;
- b. Implementation of preventative measures (ex. maintenance of roads and firebreaks) and of firefighting.
- c. Environmental education actions
- d. Access granting guarantee
- e. Placement of signposts
- f. HCVA identification or SML
- g. Open dialog with the community
- h. Identification on the operation maps
- Maintenance of physical structures

Anthropic actions and

community opinion: Quarterly

HCV 6

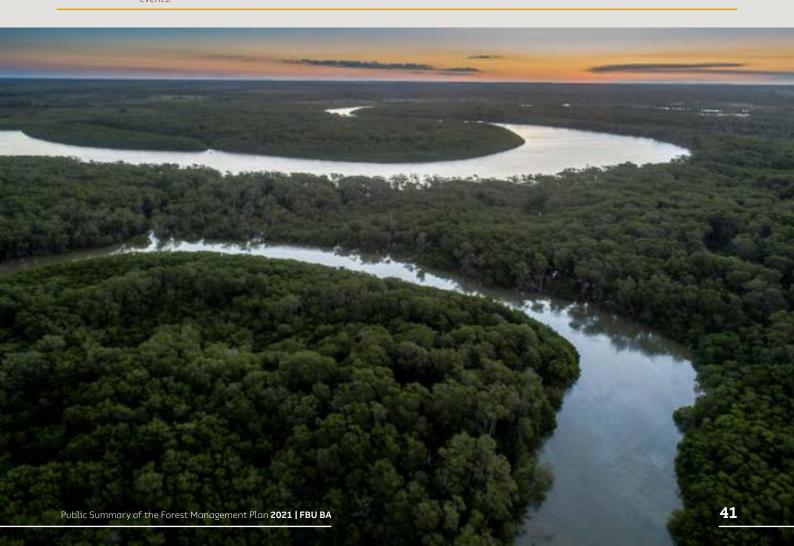
HCV5

Areas with special cultural, archaeological, or historical meaning at the global or national level and/or of critical importance for the traditional culture of local communities, indigenous peoples or traditional peoples.

- a. Patrimonial damage and depreciation
- b. Operational damage
- c. Water availability
- d. Fire
- e. Loss of access to cultural values and resources
- a. Devaluation or loss of cultural identity;
- b. Deterioration of the cultural, historical or archaeological heritage;
- c. Disfigurement of places with cultural

Anthropic actions and community opinion: Biannually

SML (Special Meaning Location) It is a natural or anthropic area or an area with infrastructure used by communities for cultural or religious events.





# **Biodiversity management**

Suzano understands Biodiversity Monitoring as the follow up of development and changes in components and parameters of the landscapes and communities of fauna and flora, aiming to assess the effects of forest management on the environment.

# Fauna

The primary data consist of information gathered in previous monitoring that complement the primary data gathered in the field in Suzano's areas. In 2021, the biodiversity monitoring was carried out in an integrated way, encompassing the states of Bahia, Minas Gerais and Espirito Santo.

At Mucuri unit, 12 HCVAs are part of the biodiversity monitoring program: Bloco 9 I-II, Bloco 9 III- IV, Fábrica, Água Vermelha, Bloco 34, Bloco 5, Bloco 2, Bloco 48, Alcoprado, Complexo Rio Itanhentinga and Complexo Aparaju, located in Bahia, and

Species registered up to the last monitoring in 2021









**Amphibians** 

Brasília\*, located in Minas Gerais. The eucalyptus crop in Pedra Azul farm is also monitored.

Birds accounted for 440 species in the FBU's database. The last monitoring, in 2021, recorded 191 species.

Mammals of medium and large size sum up 62 species, of which 20 were identified in the last monitoring in 2021.





Reptiles



\*History of biodiversity database reviewed and updated in 2021





# Flora

In the monitoring of flora, 1,113 species were recorded. The last monitoring, conducted in 2021, recorded 311 species of flora.

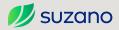
With the vegetation and fauna inventory in the company's area, it's possible to develop recommendations to keep and/ or improve the conservation of species, such as environmental restoration of priority areas and protection against fire. Continuous monitoring generate knowledge that base the improvement of environment management techniques, contributing to local the biodiversity preservation.

The chart below shows the species according to the level of endangerment as per the IUCN's Red List of Threatened Species and the National List (IBAMA) identified in the 2021 monitoring.

NUMBER OF THREATENED SPECIES IDENTIFIED IN THE LAST MONITORING IN 2021

23 Species of plants 14
Species of

Species of mammals



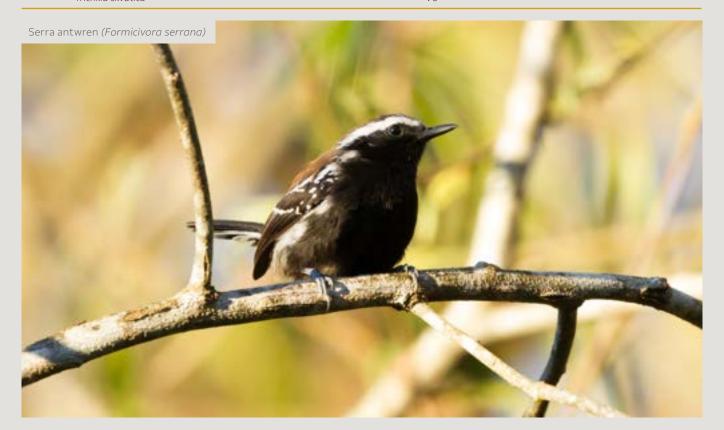
# ENDANGERED SPECIES IDENTIFIED IN THE MONITORING OF FAUNA AND FLORA (2021) AT FBU BA

Group	Species	Popular name	IUCN Red List	National list MMA	State list BA	State list MG
	Amadonastur lacernulatus	White-necked hawk	VU	VU	-	CR
	Amazona farinosa	Southern mealy amazon	-	-	VU	CR
	Amazona rhodocorytha	Red-browed amazon	VU	VU	EN	EN
	Attila spadiceus uropygiatus	Bright-rumped attila	-	VU	-	-
	Campephilus robustus	Robust woodpecker	-	-	VU	-
	Campylorhynchus turdinus	Thrush-like wren	-	-	-	CR
Birds	Herpsilochmus pileatus	Bahia antwren	VU	VU	-	-
Ξ	Procnias nudicollis	Bare-throated bellbird	-	-	VU	EN
	Ramphastos vitellinus ariel	Channel-billed toucan	EN	-	-	-
	Rhynchocyclus olivaceus	Olivaceous flatbill	-	-	-	EN
	Rhytipterna simplex	Greyish mourner	-	-	-	VU
	Schiffornis turdina	Brown-winged schiffornis	-	-	-	VU
	Touit surdus	Golden-tailed parrotlet	VU	VU	-	CR
	Veniliornis affinis	Red-stained woodpecker	-	-	-	CR
sl	Alouatta guariba guariba		CR	CR	CR	CR
Mammals	Callicebus melanochir		VU	VU	VU	EN
Σ	Herpailurus yagouaroundi		-	VU	VU	-





Group	Species	Popular name	IUCN Red List	National list MMA	State list BA	State list MG
	Campomanesia macrobracteolata		-	VU	-	-
	Chrysophyllum splendens	Bapeba-pedrim	VU	-	-	-
	Euterpe edulis	Jussara palm	-	VU	-	-
	Faramea bahiensis		-	VU	-	-
	Hirtella insignis		-	EN	-	-
	Hornschuchia polyantha		-	-	VU	-
	Inga hispida	Ingá-de-linhares	VU	-	-	-
	Inga única		VU	VU	-	-
	Joannesia princeps	Boleira	VU	-	-	-
	Manilkara longifolia	Massaranduba	EN	-	-	-
Flora	Melanoxylon brauna	Braúna	-	VU	-	-
正	Mezilaurus navalium	Tapinhoã	VU	EN	-	-
	Myrcia neoestrellensis		CR	-	-	-
	Myrcia sucrei		VU	-	-	-
	Naucleopsis oblongifolia		VU	-	-	-
	Ocotea odorifera	Sassafrás	-	EN	-	-
	Ocotea pluridomatiata	Canela-pimenta	EN	-	-	-
	Pouteria pachycalyx		CR	VU	-	-
	Sloanea obtusifolia		-	EN	-	-
	Sorocea guilleminiana	Folha-de-serra	VU	-	-	-
	Tabebuia cassinoides		-	EN	-	-
	Trichilia silvatica		VU	-	-	-





# **Monitoring of water resources**

Suzano assesses the effects of its crops on the quality and quantity of water resources through a representative monitoring network according to the scale and intensity of plantings.

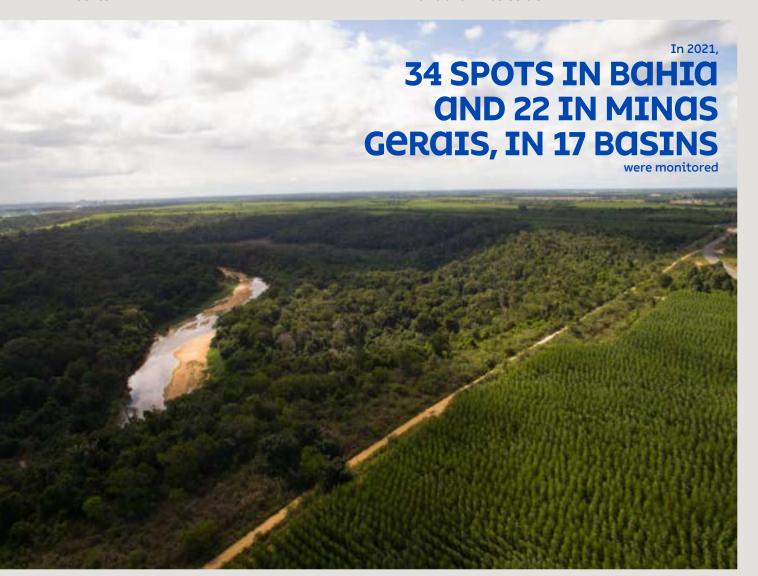
One of the mechanisms applied for the maintenance of water resources is based on natural control developed across evolutionary processes of the landscape. One example is the well-known relationship between forest coverage and water resources, mainly on Permanent Preservation Areas, aiming to comply with the legislation and the conditionals of forest operation licenses.

From the lab results it is possible to build an assessment of the monitored areas, in order to set a possible relation between the eucalyptus crops and the surface and underground water conditions located in its area of influence.

This program's execution consists of two monitoring campaigns. These campaigns gather quali-quantitative data from surface and underground water in areas near eucalyptus crops using in situ measurements of some parameters and collecting samples for lab analysis.

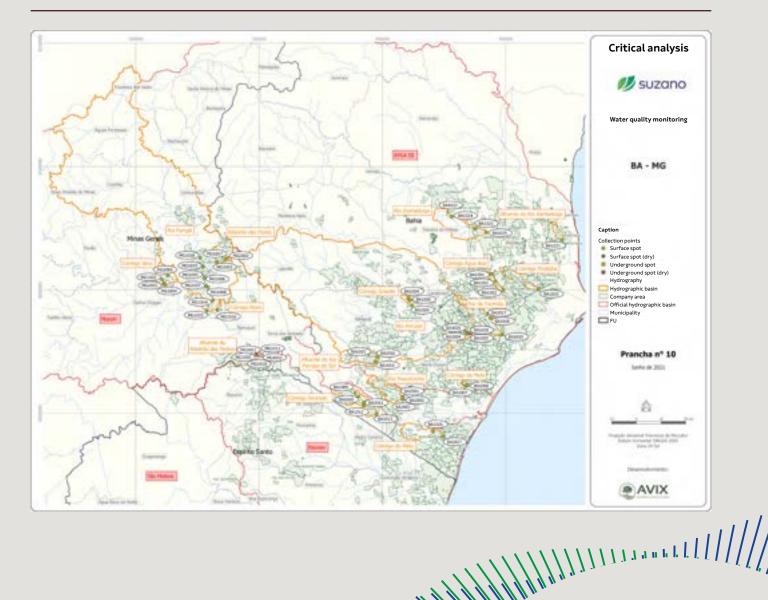
Studies on water quality and flow show no negative impact to the environment associated with the eucalyptus crops.

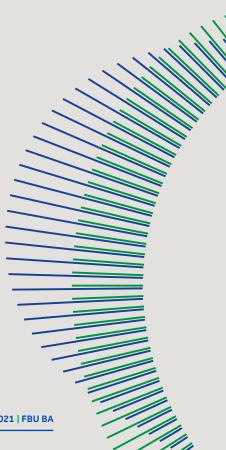
Below there's a map of the official water basins, subbasins and monitored sampling spots in the states of Bahia and Minas Gerais.

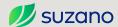




## LOCATION OF MICROBASINS (BA AND MG) AND WATER QUALITY MONITORING SPOTS







# Environmental aspects and impacts of the forest management

Suzano is committed to adopting the best environmental practices to innovate in promoting a sustainable development

Focusing on the sustainability of its processes, the company uses managerial instruments and tools that provide better environmental quality in its forestry activities. Managing environmental aspects and impacts, the FBU defines methodologies for the identification, assessment and control of environmental aspects and impacts (of its services, activities and products), seeking to minimize all possible adverse impacts and strengthen the beneficial ones.

Environmental aspects and impacts of forestry processes are identified and assessed considering the following social and environmental safeguards, among others:

- The new laws that apply to the business;
- · Compliance with the current law;
- · Identified regulatory marks;
- Obligations resulting from agreements and voluntary certifications;
- Change management for new products, services, activities and equipment.

Once identified the environmental aspects and impacts, mitigation, control and monitoring actions are established.

# Examples of environmental aspects and impacts of forest management

Type of impact	Adverse	Adverse	Benefic	Benefic		
Environmental aspect	Water consumption	Risk of fire outbreak	Carbon absorption	Improvement of ecological processes		
Environmental impact	Scarcity of water resources.	Alteration in the physical quality of soil.	Reduction of greenhouse effect.	Biodiversity recovery.		
Control measure	- Physical control: hydrometer and irrigation controller. - Grant limits.	Fire control systems and fire brigade teams.	CO <sub>2</sub> sequestration by forestry production and conservation areas.	<ul> <li>Restoration of degraded areas;</li> <li>Conservation of PPA and LR.</li> </ul>		



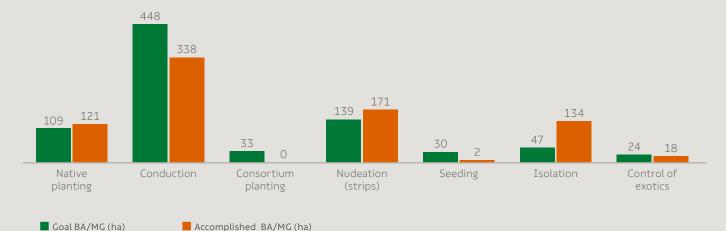
# **Ecological Restoration**

As part of its commitment with the environment, Suzano promotes restoration actions on its Permanent Preservation Areas, Legal Reserves and in all states where it operates. It is one of the largest Brazilian restoration programs, encompassing two biomes considered as hotspots of biodiversity - the Atlantic forest and Cerrado - and the transition area Cerrado - Amazon forest.

To emphasize this commitment, the company is a signatory of the Pact for the Restoration of the Atlantic forest, an initiative that aims to restore 15 million hectares in the country until 2050.

In 2021, 783 hectares were implanted. In addition to the implantation activities, 5,201 hectares were maintained with activities that include ant control, mowing, and chemical weeding in the states of Bahia and Minas Gerais. In total, operations to eliminate exotic and invasive species were carried on 65 hectares, encompassing areas of forest and pasture to be recovered, to open way to the implantation and maintenance transfers. All implanted areas are monitored to evaluate the techniques adopted and indicate whether management is necessary focusing on the ecological succession and resulting recovery.

The Ecological Restoration Program contributes with an increase in biodiversity and the creation of several environmental services in its area of operation using the following restoration methods: planting of native species seedlings from the Atlantic forest, implementation of natural regeneration, invasive species control, and isolation of protected areas. The best technique is defined according to the environmental conditions of the area to be restored, as well as its potential for regeneration, history of land occupation and possible degradation factors.





# Solid waste management

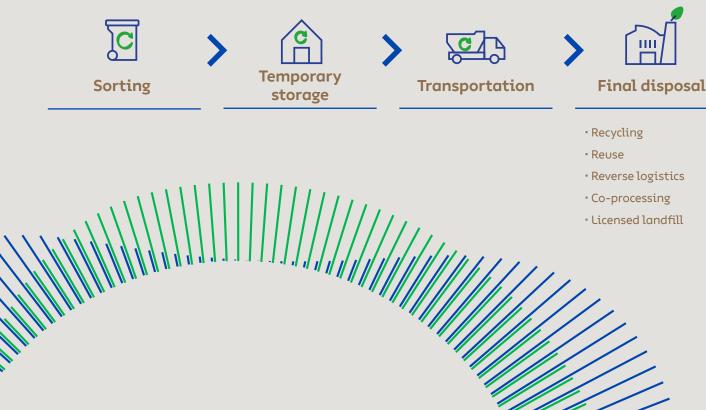
Suzano's Solid Waste Management procedure adopts practices to classify, separate, store, collect, transport, and dispose of waste produced in forestry operations and activities, aiming to:

- Reduce waste production;
- Reuse residues, optimizing its use before disposal;
- Recycle residues;
- Adequately process waste;
- Ensure the proper disposal.

Waste management in the forest areas is performed according to the effective legislation. Waste is forwarded according to its classification to recipients that undergo a rigid process of evaluation and approval. Class I waste (Hazardous) might be sent for co-processing, recycling and licensed Class I landfills. Class II waste (non-Hazardous) are sent for recycling or licensed landfills, depending on its physical characteristics.

Packages of pesticides used in forestry operations are sent to licensed Empty Crop Protection Packages Receiving Units for reverse logistics.

# Waste management steps





# **Ecological training**

The Environmental Training Program disseminates environmental information and practices to raise awareness among its participants about sustainable attitudes and behaviors capable of transforming the socioenvironmental reality.

To reach both the internal and external audiences, this Program was divided in different activities and projects in line with the reality of each target audience.

# Program Flona Rio Preto (Rio Preto National Forest)

This initiative is a partnership with FLONA Rio Preto and it is aimed at the students from the north of Espirito Santo and far south of Bahia. Since the beginning of the project, in 2017, 4,293 students were impacted.

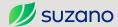
# PEA (Economically Active Population) Extractivist

Program focused on the traditional extractive communities of Caravelas and Nova Viçosa. In 2021, activities were developed in different lines of work, targeting a great audience, from fisherman, marisqueiras (shelfish collectors), to their families.

# **Internal Environmental Training**

Program that targets Suzano's employees and collaborators. In 2021, 33 trainings were conducted.





# **Springs of Mucuri**

In 2017, the program Springs of Mucuri was implemented with the objective of preserving the Mucuri river, thus fostering the preservation of its headwaters and surroundings.

This place was chosen due to the remaining Atlantic Forest vegetation and its high relevance to the survival of the Mucuri River, even though there aren't any units of Suzano in the area where the project is being developed.

It concerns one of the most diverse biomes and one of the most threatened in the planet and has great importance because it is the water source for our operations in Mucuri and it holds an asset on which many communities and economic activities rely: the Mucuri river basin.

The river is born in the northeast of Minas Gerais and drains in the south of Bahia, running for 446 kilometers in an area of about 15,400 square kilometers and 537 thousand residents. In the last few years, the region has been suffering with the reduction in the river water flow, a result of the deforestation and resulting degradation of the water resource, with the silting of marshes, water heads and water courses.

Numbers until 2021



490 springs being restored.











The drought hit the region and compromised the population's water supply; living in municipalities of limited infrastructure, this population resorted to alternative sources from outside, which impacted livestock producers and local fishermen, who had to stop their activities and had their income affected.

In this context, the program Springs of Mucuri promotes environmental education and qualification of the local producers to consolidate a preservation culture.





14
institutional
and funding partners

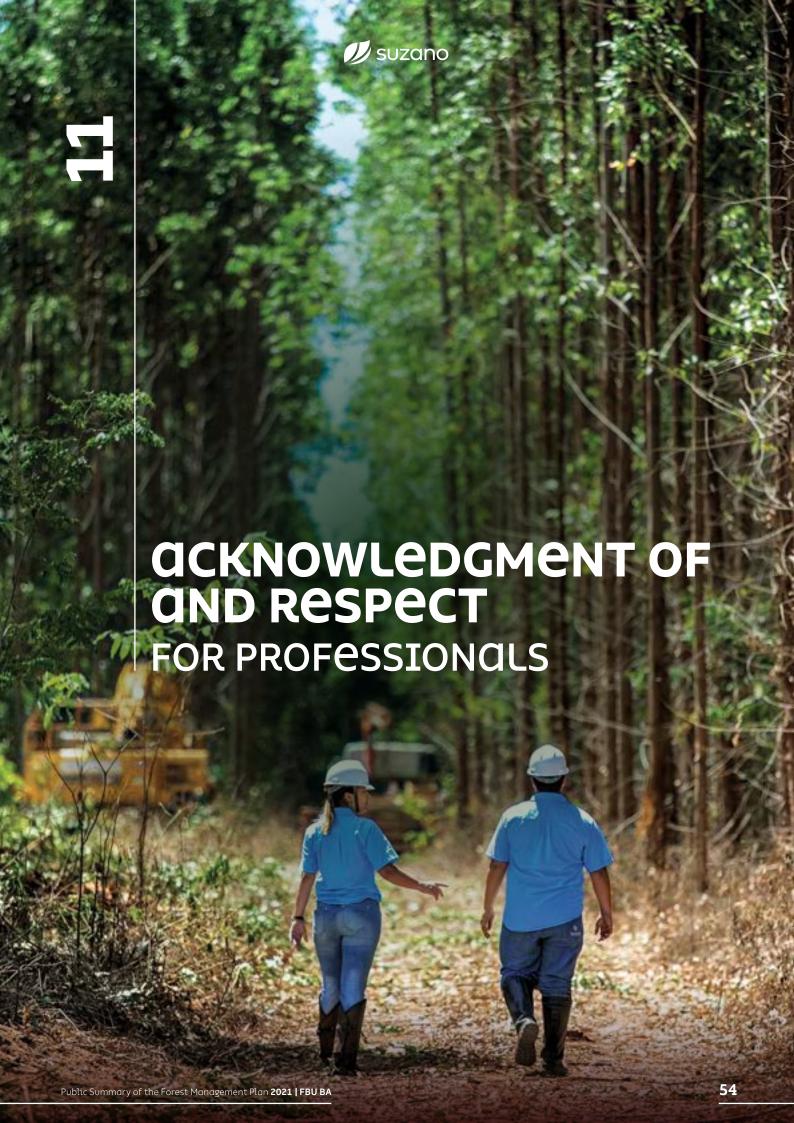
State Institute of Forests (LEF); Environmental Protection Area Alto do Mucuri; Banco do Nordeste; Hydrographic Basin Committee Alto do Mucuri; Municipal Council for Sustainable Rural Development Ladainha; CMDRD Malacacheta; Colmeia Poté; Emater Ladainha, Malacacheta, Poté and Teófilo Otoni; Gepaf – UFVJM; IFNMG Teófilo Otoni and São João Evangelista; Ima; Ong Pro Rio Todos os Santos and Mucuri; Environment Police Malacacheta and Teófilo Otoni; Funai



In 2021, we maintained the evolution and improvement of the project, when we started working with the rural families and addressing the use land, because we believe that it's important to care not only for the environmental assets, but also for the families living there, that could develop activities of great environmental impact, should they perform agricultural activities that are not adequate.

In that sense, 150 families have started what we call agroecological transition plan - a methodology brought from our Rural and Territorial Development Program (PDRT), already consolidated in many Brazilian states. With this improvement, we believe in a wider economic, food and environmental safety to the properties in the northeast of Minas Gerais, where the Mucuri basin is located.







# 11

# GCKNOWLEDGMENT OF GND RESPECT FOR PROFESSIONGLS

# Safety, Health and Quality of Life

The valuation of, and respect for, our professionals are Suzano's commitment. Safety and health management is one of Suzano's priorities. The company encourages all individuals to take responsibility for safety and spares no resources to further reduce the rate of accidents.

The Occupational Health and Safety
Management program provides guidance on
the registration of events in and outside the
company, providing the Safety Department
with the elements required for the
development of awareness campaigns that
extrapolate the management boundaries
and contributes significantly to the quality
of life of employees, their families and the
communities surrounding Suzano's areas of
operation.

Checking and ensuring work safety and health conditions, as well as the use of safety devices, are also covered by the collective agreement signed with the employees' representative entities. All events related to the employees health and safety are registered and monitored based on a corporative standard for the communication of accidents, incidents and occupational disease.





The main programs developed by Suzano to ensure safety at work involve the preparation of documents that seek to identify the risks of accidents such as the Preliminary Risk Analysis (APR), Work Risk Observation (OPA), Safety in the Area, and work permits.

All activities are checked and monitored for belowstandard conditions and practices (Fique Alerta / DNA - "De Olho na Área") and approached by programs as the Program for Medical Control of Occupational Health (PCMSO). The system is composed of different groups and committees that help monitoring and provide guidance on safety and health conditions. The initiatives aim to establish and maintain a responsible and transparent relationship with all employees in order to adopt the best existing practices in the industrial, forestry and administrative units. This process helps to build Suzano's reputation among its key relationship public and seeks to explore synergies and to better employ our professionals talents.





# **Workforce Qualification**

The company contributes to the generation of local jobs by improving the economic activities in the region of operation.

Our collaborators and outsourced are offered personal and professional development opportunities. All collaborators take part in training activities that address not only technical aspects of the operation, but also subjects such as ethics and human rights. The welfare of every employee and level of satisfaction with the company are also closely monitored through organizational surveys.

The company conducts a structured process of integration of new employees and permanent outsourced that aims to facilitate their adaptation into the work environment, the organizational culture, concepts and drivers, environmental conservation, code of conduct, the management system and relationship with stakeholders.

Suzano has a benefits policy aligned to the good practices of the market and to its employees' expectancies. The benefits granted represent a significant value for the company and its employees, and are managed in order to ensure the best quality level and provide comfort and satisfaction.



## JOB CREATION AT FBU-BA FORESTRY UNIT

Own*	1,496
Outsourced*	1,242
Total	2,738

\*Dec/2021 data









# Management of relationship with stakeholders

Suzano's relationship strategy is to ensure social and business legitimacy through the long-term strengthening of its interaction with neighboring communities and the integration of their interests into forestry business management.

Suzano's relationship with the communities surrounding its operations follows the following approach:



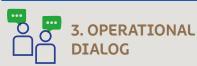
Process of characterization of the area where Suzano is present to guide the activities with social impact to be adopted in each case. This study provides an assertive guidance for social investment and other actions for local engagement.



# 2. ENGAGING

Structured, inclusive and continued relationship, where the company plays the role of a partner to foster the local development. Takes place on the communities most impacted by Suzano's operation.

In rural communities, engagement is promoted by programs for income generation such as the Rural and Territorial Development Program (PDRT), Invitation letters, craftsmanship production chain, fishery and circular economy.



It is a channel for direct communication through which the company informs the residents of neighboring communities about the forestry operations scheduled in that region according to an annual planning of activities, and discusses impacts and mitigation actions.

This process also integrates annual visits to ensure a continuous relationship with the neighboring communities.





# **Management of social impacts**

Suzano understands "social impacts in the communities" as any changes (harmful or beneficial) caused entirely or partially by its forestry operations within a radius of three kilometers of its properties or areas leased for eucalyptus production.

The model of social impacts management seeks to eliminate, reduce or compensate the negative impacts through management practices, socioenvironmental investment, and continuous control and mitigation actions.

Despite all measures taken to prevent and mitigate adverse impacts, unpredictable losses and damages can still occur, directly affecting the communities resources or livelihood. In this case, these losses and damages are compensated and mitigated, in common agreement and according to the particularities of each case, in a fair and balanced way.

In the following, examples of adverse social impacts from forestry management and the corresponding mitigation and prevention measures are presented. For conflict resolution, disputes and compensations involving rights of use, possession and control of the land, the company has defined directives that prioritize a friendly and fair solution for the parts.

# Examples of adverse social impacts and controls

Activities	Social impacts	Preventative and mitigation measures
		Use of products authorized by the environmental bodies
		• Signaling of the areas
Application of crop protection products	Inconvenience caused by drift* to neighboring areas	Training of employees that apply the products
, p		· Maintenance of equipment used for the application
		Operational dialog and management of incidents
		Use of up-to-date equipment and trained and qualified teams
	Increase in the risk of accidents	<ul> <li>Signaling and guidance offered to the community to prevent people from approaching machinery during operation</li> </ul>
Forest harvest		Operational dialog and management of incidents.
	Change of landscape (visual) and loss of reference	Placement of warning signs
	Noise	Negotiation of time slots for the operations
		Reduced and controlled velocity
	Increase in the risk of accidents	Compulsory stops to check and tighten the load
		Safe driving voluntary campaigns
Timber transportation	Dust	Reduction of dust with moistening of the roads (tank trucks)
		Road maintenance during operations
	Damage of the road network	Monitoring and control of load weight of the timber trucks
	Noise	Negotiation of time slots for the operations

\*Drift: phenomenon of spray drops carry



# Analysis and monitoring of processes of relationship with stakeholders

All the demands concerning forestry operations, identified in the engagement processes, and operational dialogs are critically assessed and validated by the operational areas to review the social impact matrix and improve Suzano's forest management.

# EFFECTIVENESS OF THE SOCIOENVIRONMENTAL IMPACTS MITIGATION ACTIONS

Area	Category	Name of monitoring	Indicator	Results 2021
		Investment in the	Amount of money invested in social projects/programs	R\$ 8,297,453.12
		community (GRI EC1)	Communities/localities benefited by the projects of the Unit	72
			Rate of fulfillment of the annual dialog program	96.51%
Social	Social impacts on the communities	Operational dialog and participative agenda	Rate of satisfaction with the solutions for the incidents	90.33%
			Rate of effectiveness of mitigation actions	93.33%
		Complaints about	Number of incidents reported	91
		damage caused by management	Average time to respond complaints	70.66 days





# **Social Investment**

Socioenvironmental investment is the voluntary transference of private resources in a planned, monitored and systematic way to social, environmental and cultural projects of public interest that contribute to the development of the communities where Suzano operates. Such investments are segmented into four types of interventions:

# Cooperation

One-off support that require a counterpart from the applicant and is applied to community assets. Are necessarily related to the needs of forest and industry operations, expertise and products from Suzano's business..



# **Sponsorship**

Granting of resources, whether financial, material and/ or services provided by Suzano to enable certain activity or event. It is considered a communication tool because the main expected results are: increase in notoriety and favorability of the sponsor's brand within its target audience or sponsored event; increase in the sponsor's exposure with the media; contact with stakeholders directly or indirectly connected to the sponsor's business.

# **Donation**

Financial contribution or one-off spendings that meet the demands of institutions, bodies or individuals representing the community that are non-profit and do not require a counterpart.

# **Project**

Are social investments planned and developed within the scope of a certain program, with well-defined purpose and duration (objectives, goals, deadlines, process indicators, results and impacts and responsibilities).





# Socioenvironmental programs and projects

The Social Programs and Projects take place mainly after the identification of the level of influence of the enterprise on the community, the socioeconomic aspects of each one (level of organization, vulnerability degree, etc.) and the partnership level (company and community). They arise also from the communication processes, in line with the social pillars of Suzano.

The extension in which such programs and projects are carried out, in the community, derive from the following factors:

- The communities and municipalities social and economic vulnerability;
- The influence of Suzano's forest management on the municipality and community areas;
- Relationship and social investment history in the communities and municipalities;
- Number of communities directly affected by Suzano's forest planting in the municipality;
- Communities interest and availability in taking part in the programs and projects;
- Public authority's interest and availability to coparticipate or support such programs and projects;
- Budget availability.

The lines of action that the social projects can follow can be the promotion of education and culture for the community, the regional development through income generation, or the improvement of the community's relationship with the environment.







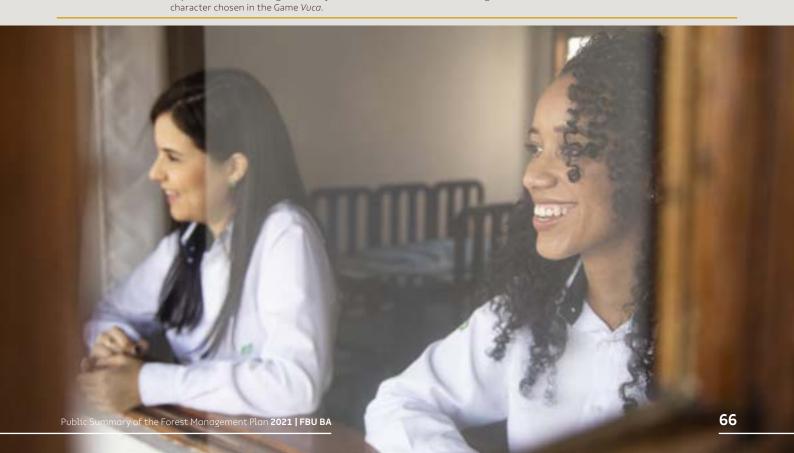
# Social programs and projects

Project/Program	# of participants	# of municipalities	# associations/ entities	Results 2021
Rural and territorial Development Program	2,619	8	47	PDRT allowed the generation of over 17.5 million reais in products and food traded or consumed, relative to a production of about 15.7 million kg.
Beehives program	142	4	6	Beehives allowed the generation of over 2 million reais in products and food traded or consumed, relative to a production of about 160 tons of apis and melipona products.
Basket delivery*	150*	7*	7*	The program has boosted the commercialization of over 11 tons of food items in 2021, in the states of Bahia and Minas Gerais. With consumers adhering largely, it delivered 1,395 food baskets, generating more than R\$60 thousand in gross income in 2021, a result that has helped to reduce the economic impact of the pandemic on family agriculture in the region.
Calls (Regional and Quilombola)	700	7	19 (5 Quilombolas) and 14 Locals)	Aims to support projects for the generation of jobs, work and income proposed by Civil Society Organizations, Cooperatives, Individual microentrepreneurs, family farmers of local communities and quilombolas, located in the company's areas of operation in the states of Bahia and Espirito Santo
Agente do Bem	3,134	1	-	Creation of regional teams (collaborators and outsourced) to expand and implant the program in all units: focal points for the regional management of the program and dissemination of the cause; creation of the communication team (representatives of regionals and corporative) on the sexual violence against children and adolescents; expansion of campaigns for guidance and mobilization for the protection of children and adolescents' rights and in defense of women in all units; conduction of the fast local diagnostic of all municipalities.
Fishermen Community engagement	2,325	3	7	In 2021, the program allowed the generation of over 1.3 million reais in products and food traded or consumed in the fishery chain, relative to a production of about 97 thousand kg.
				Suzano's program for education acts by engaging the secretariats for education, schools, students, families and communities to face the challenges of education and build collaborative solutions for them.
				This program brought significant impact to the territory, such as:
Suzano's program for education	1,295	6	*	<ul> <li>Acknowledgment of the importance of the collaboration between municipalities in the implementation of actions with higher quality and broader reach.</li> </ul>
				Promotion of continuous training for all actors of education.
				In 2021, over 58 thousand people were impacted by the actions developed in the program
Sustainable Settlements	2,304	3	5	The project acts in 5 settlements, that represent an area of 10,661.41 hectares, with 576 families and approximately 2,300 people.

 $<sup>{}^{\</sup>star}\!Amounts\ relative\ to\ Basket\ Delivery\ initiative\ are\ already\ integrated\ into\ PDRT\ and\ Beehives\ results.$ 



### Results 2021 Project/Program Description Program Voluntariar Formare Developed in 2005, Formare provides qualification for young people in situation of social vulnerability for the job market. The project offer training in manufacturing process 13 classes graduated operation and used to take place at Suzano's units (SP), Mucuri (BA) and Imperatriz (MA). 20 students in 2021. The initiative has now expanded to Três Lagoas-MS and Aracruz - ES. With this, Suzano will become one of the companies with the largest number of Formare schools in Brazil. Implementing partner: Iochpe Foundation · 21 volunteers from the region of Suzano at the school Developed in partnership with Junior Achievement since 2009, Suzano at the school • 4th edition: 28 active young people in has the objective of awakening the entrepreneurship spirit of young people, sharing the regions of Mucuri, Itabatã, Nova knowledge and experiences to provide an educational background, thus widening their Viçosa and Posto da Mata (BA), and views on the job market and the business world. Conceição da Barra, Braço do Rio and Savonara, (ES) Contributing to the future • 9 volunteers from the region of The mentorship program Contributing to the future aims to promote volunteer work among the Trainees, to act as mentors for LGBTQIAP+ college students of regions close to our areas of operation (Bahia, Ceará, Espírito Santo, Maranhão, Mato Grosso do Sul · 29 people impacted (4 from the and São Paulo). This project is an initiative of the program Voluntariar in partnership with region of Bahia) the area of People and Management and Squad Diversity, with the Joule methodology. People who promotes transformation - ENEM · 13 young people impacted in Bahia Pilot project of preparation for ENEM examination and professional mentorship with volunteers. Developed in partnership with Instituto Joule, the initiative has benefited · 06 volunteers from Bahia young black people, strengthening our commitment to generate and share value through education and to foster diversity Together we are more Fund 50 baskets donated in Nova Viçosa Charitable fund to raise resources to be used to buy staple products baskets with food (BA) - COPM - Association of the and hygiene items. Those items are then destined to social institutions that assist community development several populations and were impacted by the coronavirus pandemic. Partnership: Festival Protagonista do Agora 123 young people impacted Done by Junior Achievement in partnership with StartSe and supported by several companies with the aim of restoring the interest of young people for learning. This Festival, which was 100% online, has contents, games, dynamics and tools distributed along several social media and digital platforms. More than 11,500 young people were impacted with access to general subjects and a customized trail, according to the





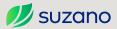
# Performance and main indicators of forest management

Aspect	Process Resp.	Monitoring	Indicators of monitoring	Un.	Goal 2021	Actual.2021	Critical analysis	Actions	Systems/ Data base	Frequency
	Harvest	Productivity of Forwarding	Productivity of FWs		59,51	58.21	Productivity slightly below the	Assignment of project to increase	SAP, OneDrive and Power BI	Daily
Economic	Harvest	Productivity of harvest	Productivity of harvesters	M³/h	19,72	19.46	expected in the Basic Plan due to an increase in the workforce under development.  productivity and insertion of development technicians into the harvest modules.	SAP, OneDrive and Power BI	Daily	
	Social Develop.	Operational dialog and participative agenda	Participants from the communities involved - Operational dialog	#	Not applicable	729	In 2021, due to the pandemic, most of the Operational Dialogs took place via phone calls, returning gradually to in-person dialogs.	The indicator does not anticipate goals due to the variability that follows planning and execution of operations during the year. The measure adopted by Social Development Management is fulfillment of the plan in its entirety and changes indicated by operation, considering communication and dialog with stakeholders.	SISPART Portal of socioenvironmental management	Monthly (SISPART) Biannual/ Annual
Social	People and management	Workforce	Hiring of local workforce	%	Not applicable	BA: 84 MG: 60	The state of Minas Gerais has 853 municipalities; the region where the company operates is not necessarily consolidated in the forestry segment (metallurgy, mining), which makes people migrate from other regions or states.  In 2021, 79 workers were admitted in MG, of which: 47 collaborators resided in the region and 32 in other states (ES, BA and MS), representing 60% of local workforce.  In 2021, 271 workers were admitted in BA, of which: 228 collaborators resided in the region and 43 in other states (ES, MG and RJ), representing 84% of local workforce.	To publicize the job positions, in addition to the Kenobi system (career platform), other means of communication are being used, such as: partnership with Senai and Sine in the region and the Agrobase website (digital agency focused on agribusiness and related areas).	Power BI System	On demand



Aspect	Process Resp.	Monitoring	Indicators of monitoring	Un.	Goal 2021	Actual.2021	Critical analysis	Actions	Systems/ Data base	Frequency	
	Asset intelligence		Fire - crop  ire  Fire - preservation	Fire - crop		Burning of 2 hectares per fire spot	Burning of 2.9 hectares per fire spot	High temperatures and long drought  periods. In 2021, rainfall occurred in November and December.	Investments in technology and innovation for the firefighting structures and monitoring systems and replacement of vehicles and		
				На	ia Goal not defined	hectares per	In addition to that, there are fires considered accidental, that begin at the edge of the roads, in private areas, are initiated by electric malfunction, or natural phenomena, or even by criminal action, that, along with the high temperatures, contribute to an increase in the number of events	<ul> <li>equipment.</li> <li>More engagement with social programs and educational activities.</li> <li>Training and activities for the enhancement of Fire fighting techniques.</li> <li>Implantation of extra teams for surveillance and firefighting in critical periods.</li> </ul>	IP and Zenith databank	Daily updates	
Environmental		Wood residues	Donation of tips and branches	R\$	Not applicable	R\$ 6.2 M (estimated raised value	Donation of tips and branches has been deemed an excellent proposal for income generation within local communities and commerce and add value to the families that depend on this resource as the sole source of income and subsistence.	Maintenance of donations of tips and branches to the communities.	Data base IP	Monthly updates	
Enviro	Logistics	Distance	Average radius	Km	112.00	104.00	Change in the supply plan strategy.	Frequent follow up of the indicator and monthly updates in planning	SAP	Real time	
Envi	Environment	Environmental education program	Number of people impacted by the environmental education program (external)	Ν°	Ciência Escola En Students impaci Schools particip Videos produced  Mural of the extr Shared material 10/month People impacted 60% of the targ  Course Young Lei Participants: 40 Courses/year: 1 Environmental eas a tool for digit Participants: 40 Courses/year: 2 (one per semest	ted: 90 59 ating: 2 2 d: 7 6  ractive worker s: 96 d: 60% adership 34* 2** ducation course tal inclusion 31 2**	External programs concluded in the municipalities of Nova Viçosa and Caravelas: Ciência Escola Em Ação Channel, Wall of the extractive worker, Course Young Leaderships, Environmental education course as a tool for digital inclusion		Data base MAF BAMGES	Monthly	

<sup>\*</sup>Priority was given to residents of Nova Viçosa, totaling 25 adolescents and young adults
\*\* First semester in Nova Viçosa and second in Caravelas



Aspect	Process Resp.	Monitoring	Indicators of monitoring	Un.	Goal 2021	Actual.2021	Critical analysis	Actions	Systems/ Data base	Frequency
iental	Environment	Environmental education program	Number of hours logged in the Environmental education program (internal)	Horas	20.91	52.52	This result considers Units ES and BA/MG Due to the COVID-19 pandemic, trainings were offered only remotely.		Training matrix MAF - BAMGES	Monthly
Environmental			Ant bait consumption		3.94	4	Largest ant infestation.	Maintain monitoring and control according to recommendation.	ZFL98	Monthly
ū	Forestry	Forestry	Consumption of weed killer (glyphosate)	Kg/ha	1.58	1.8	Use of larger dosage in of weed killer in the whole area in the maintenance areas due to resistance of invasive plants.	Revisit management plan to seek for new products and/or better assessment of the needs in each UP.	ZFL98	Monthly
		SSOMAR	Score obtained with SSOMAR		90	94.24	Maintain co-management of goals established for outsourced companies.	Maintain audits of SSOMAR in outsourced companies.	Presentation PPT Safety Committee; SSQV Portal	Biannually
Social	SSQV	DNA	Conclusion of deviations on DNA	%	80	86	Implementation of the application and campaigns with collaborators to promote the registry of incidents, deviations and positive observations into DNA (De olho na área) system to bring more practicality, agility and access. We are still working to have everyone better adapted to the system.	Maintain the task force along with operation and outsourced to check the registries and actions in the system to terminate, monitor and present the status during the meetings with the safety committees.	DNA system	Monthly
		ОРА	Score obtained with OPA Positive observation of the activity	-	85	91	Application of safety tools by leadership and outsourced (OPA - positive observation of the activity), collaborating with the identification and management of deviations and prevention of accidents; application is installed to facilitate the utilization of the tool.	Maintain the application of safety tools performed by the outsourced company and by the leadership.	Presentation, safety committee; SSQV Portal.	Monthly
Economic	Nursery	Production of seedlings	Shipped seedlings	Mil	31,411.73	31,731.42	Larger planting physicals, demanding more seedlings. On the other hand, there was a reduction in the number of plants/ha, what helped to minimize the impact of relative to the plan.	Revisiting of the nursery planning to meet the demand.	Excel/SAP	Monthly
Ū			Yield of seedlings	%	62.20%	0.547	Larger production of BA1175 material, with better rooting.	Previous definition of strategies for better efficacy of the annual planning.	Excel	Monthly



**13** 

Suzano is constantly in contact with its employees and with the several segments of society, keeping them up to date on its activities, and always keeping things clear, transparent and straightforward.

Among the most commonly used communication media are:

## **Internal Audience**

Corporate social media, Intranet, Printed and Digital newsletters, walls, Forest Podcast, Corporate TV, Manuals and Educational guides.

# **External Audience**

Press Relations, Website, Social media, Visitation programs, Annual reports, Management plan summary. In addition to those, the company maintains other communication channels, as described below.

# Communication with specific audiences

### **Suzano Answers**

0800 022 1727, (11) 3956-3959 or suzanoresponde@suzano.com.br

If you have any questions, suggestions for improvement, or complaints, please contact us. It is toll-free!

### Social media

- Facebook www.facebook.com/suzanoempresa/
- Instagram www.instagram.com/suzano\_oficial/
- Youtube www.youtube.com/user/Suzanovideos
- LinkedIn www.linkedin.com/company/suzano/

# **Ombudsman Suzano**

Phones (toll-free)

Brazil **0800 771 40 60** 

Abroad

Check for the specific numbers on the Suzano Ombudsman website.

E-mail

ouvidoria externa @ austernet.com.br

Website

https://ouvidoriaexterna-suzano.com.br/

FBU BA/ES: **0800 283 83 83** 

Corporate contact: **0800 022 17 27** 





