F0. Introduction

F0.1

(F0.1) Give a general description of and introduction to your organization.

JBS S.A. is the world’s second largest food Company and a global leader in several of its businesses. JBS SA is a food Company with 65 years of tradition and global leader in animal protein processing.

The Company has a diverse brand and product portfolio with options ranging from fresh and frozen meat to added value, ready-to-eat, prepared and processed products. In 2017, the company’s businesses were divided into the following units: JBS South America (Seara, JBS Beef, JBS Leather, JBS New Business) and JBS North America (JBS USA Beef: JBS Australia + JBS Canada, Pilgrim’s Pride: Pilgrim’s Moypark).

It sells these products under brands well-known for their excellence and innovation, and which are leaders in their respective markets, including Friboi, Seara, Swift, Primo, Pilgrim’s Pride, Moy Park, Just Bare, and others. The structure involves processing units of cattle, pigs, sheep, poultry, leather, and confinement of cattle and sheep.

JBS has production units and commercial offices in over 20 countries throughout the world (Brazil, United States, Australia, Canada, Ireland, France, UK, Italy, Argentina, Uruguay, Mexico, etc.), operating in the segments of beef, pork, lamb and chicken, production and marketing of leather, pet products, hygiene and cleanliness, cans, collagen, biodiesel, transportation and vegetables.

The Company also focuses on the highest possible food safety and quality standards and has adopted best sustainability practices throughout its value chain, operating a global and diverse food production and distribution platform, with production units and commercial offices in over 20 countries and approximately 230,000 team members - from factories to sales offices. We serve over 350,000 customers in more than 150 countries, managing a customer portfolio that includes various types of retailers, from major regional chains to small-scale retailers, as well as wholesale clubs and food service companies (restaurants, hotels, food service distributors and supplementary processing companies).

The Company’s commitment to innovation also reflects its management approach to related businesses such as leather, biodiesel, collagen, personal hygiene and cleaning products, natural casings, solid waste management solutions, metal packaging and transportation, as well as the sustainability practices adopted throughout the value chain. One example is the constant cattle supplier monitoring using satellite imagery, georeferenced maps of supplier farms and official data from government agencies. The purpose is to identify and block the supplying farms that presents any non-compliance with the socio-environmental criterias of JBS.

Also incorporated into its business management is the pursuit for modernization, quality of products and raw materials, as well as the establishment of better relationships with partners, customers, employees and society, the satisfaction of its shareholders and the commitment to social and environmental responsibility issues.

With an annual net revenue of BRL 163.2 billion, equivalent to US$51.5 billion, JBS is positioned as the largest animal protein Company in the world, with a strong presence in the most competitive production regions on earth.


F0.2

(F0.2) State the start and end date of the year for which you are reporting data.

<table>
<thead>
<tr>
<th></th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reporting year</td>
<td>January 1 2017</td>
<td>December 31 2017</td>
</tr>
</tbody>
</table>
F0.3

(F0.3) Select the currency used for all financial information disclosed throughout your response.

BRL

F0.4

(F0.4) Select the stage(s) of the value chain which best represents your organization’s area of operation pertaining to forest risk commodities.

- Processing
- Manufacturing

F0.5

(F0.5) Do you produce, use, or sell materials or products that contain any of the forest risk commodities?

<table>
<thead>
<tr>
<th>Produce/use/sell</th>
<th>Disclosing</th>
<th>Explanation if produce/use/sell but not disclosing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Palm Oil</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Cattle Products</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Soy</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Other - Rubber</td>
<td>No</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Other</td>
<td>No</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
</tbody>
</table>

F0.6

(F0.6) Are there any parts of your direct operations not included in your disclosure?

Yes

F0.6a
Identify the parts of your direct operations not included in your disclosure.

Exclusion
Source/country/geographical area

Description of exclusion
Operations that are not located in Brazil are not part of this disclosure due to lower deforestation risks associated to commodities.

Potential for forests-related risk
No potential

Please explain
The company’s approach to prevent the use of commodities from deforested areas has a focus on Brazilian operations, which offer a higher level of risk in this issue. The country’s agricultural frontier expansion to the north leads to a pressure on areas of the Amazon ecosystem to become economically exploited. In other countries where JBS have large businesses, cattle breeding is predominantly in an intensive handling culture (confinement) or the type of biome prevailing is different from forest. Even so, aiming to identifying and mitigating any risk associated with deforestation, JBS has been increasingly improving the mapping approach of its international operations.

Are there any parts of your supply chain not included in your disclosure?
Yes

Identify the parts of your supply chain not included in your disclosure.

Exclusion
Source/country/geographical area

Description of exclusion
Operations that are not located in Brazil are not part of this disclosure due to lower deforestation risks associated to commodities.

Potential for forests-related risk
No potential

Please explain
The company’s approach to prevent the use of commodities from deforested areas has a focus on Brazilian operations, which offer a higher level of risk in this issue. The country’s agricultural frontier expansion to the north leads to a pressure on areas of the Amazon ecosystem to become economically exploited. In other countries where JBS have large businesses, cattle breeding is predominantly in an intensive handling culture (confinement) or the type of biome prevailing is different from forest. Even so, JBS constantly monitors the deforestation risks associated with its international operations through questionnaires’ applications.

How does your organization produce, use, or sell your disclosed commodity(ies)?

Forest risk commodity
Timber

Activity
Using as input into product manufacturing
Form of commodity
- Hardwood logs
- Sawn timber, veneer, chips
- Paper
- Secondary packaging
- Wood-based bioenergy

Source
- Owned/managed land
- Smallholders
- Multiple contracted producers
- Trader/broker/commodity market
- Contracted suppliers (processors)
- Contracted suppliers (manufacturers)

Country/Region of origin
- Brazil

% of procurement spend
- 1-5%

Comment
- Forest risk commodity

Activity
- Slaughtering

Form of commodity
- Cattle
- Tallow
- Beef
- By-products (e.g. glycerin, gelatin)
- Hides/leather

Source
- Smallholders
- Multiple contracted producers
- Trader/broker/commodity market

Country/Region of origin
- Brazil

% of procurement spend
- 81-90%

Comment
- Forest risk commodity

Activity
- Other, please specify (Feeding pork and chicken (animal diet))

Form of commodity
- Whole soy beans
- Soy bean meal
- Other, please specify (Deactivated Soy)

Source
- Trader/broker/commodity market
- Contracted suppliers (processors)
- Contracted suppliers (manufacturers)

Country/Region of origin
- Brazil
% of procurement spend
11-20%

Comment
Seara uses soy to manufacture animal feed, which is used in farms of poultry and pork (own operations and third parties).

<table>
<thead>
<tr>
<th>F1.1a</th>
</tr>
</thead>
<tbody>
<tr>
<td>(F1.1a) Indicate from which State/region(s) and municipality(ies) your disclosed commodity(ies) originate.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Forest risk commodity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Using as input into product manufacturing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Country/Region of origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>State/Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specify state/region (North, Northeast, Midwest, South, Southeast)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Municipality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not disclosing</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>The information is not been disclosing due to its confidentiality nature and company strategy.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Forest risk commodity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cattle Products</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other, please specify (Crushing)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Country/Region of origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>State/Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specify state/region (Midwest, North, Northeast and Southeast)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Municipality</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Forest risk commodity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soy</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other, please specify (Feeding pork and chicken (animal diet))</td>
</tr>
</tbody>
</table>

<table>
<thead>
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<tr>
<th>State/Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specify state/region (Midwest, South and Southeast)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Municipality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not disclosing</td>
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<table>
<thead>
<tr>
<th>Please explain</th>
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</thead>
<tbody>
<tr>
<td>The information is not been disclosing due to its confidentiality nature and company strategy.</td>
</tr>
</tbody>
</table>
F1.2

(F1.2) Indicate the percentage of your organization’s revenue that was dependent on your disclosed forest risk commodity(ies) in the reporting year.

<table>
<thead>
<tr>
<th>% of revenue dependent on commodity</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber</td>
<td>21-30%</td>
</tr>
<tr>
<td>Palm Oil</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Cattle products</td>
<td>51-60%</td>
</tr>
<tr>
<td>Soy</td>
<td>81-90%</td>
</tr>
<tr>
<td>Other - Rubber</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Other</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
</tbody>
</table>

This range of percentage considers only JBS operations that are dependent of timber - in relation to JBS’s global revenue.

F1.3

(F1.3) Do you own or manage land used for the production of your disclosed commodity(ies)?

Forest risk commodity
Timber

Own and/or manage land?
Owned and managed land

Type of control
Operational

Description of type of control
Own areas with planted forests. JBS has areas of planted forests – 1,013 hectares - managed in accordance with good farming practices, to biomass conversion and supply its industrial boilers. Moreover, periodic verifications are performed in planted areas and environmental protected areas (APP – Permanent Preservation Areas and Legal Reserves).

Country/Region
Brazil

Land type
Planted

Size (Hectares)
1013

Do you have a system in place to monitor forests-related risks?
Yes

Type of monitoring system
Other, please specify (technical specialists)

Description of monitoring system
Each property has a technical team responsible for land management.

Recent infraction(s)
No

Explanation of infraction
<Not Applicable>

Forest risk commodity
Cattle Products
Own and/or manage land?
Owned and managed land

Type of control
Operational

Description of type of control
In Brazil, the company operates three own livestock confinement units which supply livestock fed exclusively to JBS production operation. On average, the animals remain in JBS confinement units for approximately 100 days until they are sent to JBS production operations. Only 0.5% of the total number of animals slaughtered during the year 2017 comes from the own bovine confinement units.

Country/Region
Brazil

Land type
Other, please specify (feedlot-fattened beef cattle)

Size (Hectares)
140

Do you have a system in place to monitor forests-related risks?
Yes

Type of monitoring system
Geographic Information System (GIS)
Other, please specify (technical specialists)

Description of monitoring system
Each property has a technical team responsible for land management. Own or managed properties are also analyzed by the JBS Socio-Environmental Monitoring System.

Recent infraction(s)
No

Explanation of infraction
<Not Applicable>

Forest risk commodity
Soy

Own and/or manage land?
Don't own or manage land

Type of control
<Not Applicable>

Description of type of control
<Not Applicable>

Country/Region
<Not Applicable>

Land type
<Not Applicable>

Size (Hectares)
<Not Applicable>

Do you have a system in place to monitor forests-related risks?
<Not Applicable>

Type of monitoring system
<Not Applicable>

Description of monitoring system
<Not Applicable>

Recent infraction(s)
<Not Applicable>
F1.4

(F1.4) For your disclosed commodity(ies), indicate if you collect data regarding your own compliance and/or the compliance of your suppliers with the Brazilian Forest Code.

Timber

Do you collect data regarding compliance with the Brazilian Forest Code?
Yes, from both suppliers and owned/managed land

Please explain
The company has a Normative Instruction of Biomass Purchasing stating that only suppliers legalized by the competent environmental authorities are able to negotiate materials with JBS – 100% of the JBS timber suppliers are in comply with environmental standards. Moreover, before conducting the registration of biomass supplier, an environmental and social analysis must be performed based on IBAMA (Brazilian Environment and Natural Resources Institute) and MTE (Ministry of Labour) public dirty lists that show respectively, legal persons and entities with embargoed areas due to illegal deforestation/inappropriate land use and that are involved in slave labour. All environmental management of the biomass purchasing process is a responsibility of the environmental department of each operational unit. This includes management of the requirements Native Forest Consumer Registration and Forest Origin Document or other specific state requirement. JBS is one of the largest consumers of paper/cardboard in Brazil, as it uses the material to produce the packaging for its products. 100% of the paper/cardboard acquired has FSC certification, which is part of the selection criteria for suppliers of this material. In 2017, the company restructured its Compliance department. The area now has a Global Director, responsible for the implementation and supervision of initiatives in all regions of JBS. To that end, a new organizational structure was defined with the hiring of more resources to ensure that business practices ensure ethics and good conduct for all, as well as compliance with all internal laws, policies and procedures. One of the pillars of action is Due Diligence. In October 2017, JBS began to improve the practices of third party reputational assessment (Due Diligence). Once performed manually for a few risk segments, the Company hired expert advice on the subject to automate the process as much as possible, with the expectation of increasing the volume of analysis. The project was divided into two phases, with phase one completed, with phase 2 completion expected in 2018. Currently, the segments mapped with relevant risks are analyzed, including any third party that needs a proxy to act on behalf of JBS.

Cattle products

Do you collect data regarding compliance with the Brazilian Forest Code?
Yes, from both suppliers and owned/managed land

Please explain
According to JBS sustainability pillar of responsible purchase, Cattle suppliers included on the dirty lists published by the Ministry of Labour and IBAMA, and those whose land overlaps deforested areas, indigenous land or protected areas will be suspended by the company procurement system until they have remedied this situation. JBS Standards of cattle purchasing are expressed in the document “Minimum Criteria for Industrial – Scale Operations with Cattle and Beef Products in the Amazon Biome”, which states that the company must not acquire cattle from areas with illegal deforestation, cleared after 2009 in the Amazon Biome and located within protected areas. To make sure that suppliers are complying with these standards, there is a System for Social and Environmental Monitoring of Cattle Suppliers that works on geospatial analysis based on satellite images, farms georeferenced maps and deforestation data from the National Space Research Institute for -INPE. To ensure compliance with the JBS’s commitments, an independent party annually audits the System. According to the 2014, 2015, 2016 and 2017 independent audit results, the compliance level was 99.75%, 99. 97%, 99.97% and 99.97% respectively. The 2018 audit results will be available on the JBS’s official website (http://www.jbs.com.br) in second half of 2018. Along the supply chain, JBS supports projects which promotes sustainable practices to increase the productivity of farms in the Amazon region in order to develop a new operating model that preserves natural resources and that brings financial benefits to the ranchers in the region. JBS has been contributing to the development of differentiated bonus protocols, the opening of markets for products with social and environmental attributes, as well as support for training, earnings disclosure and fundraising for ongoing efforts. In 2017, the company restructured its Compliance department. The area now has a Global Director, responsible for the implementation and supervision of initiatives. To that end, a new organizational structure was defined. In October 2017, JBS began to improve the practices of third party reputational assessment (Due Diligence). The Company hired expert advice on the subject to automate the process as much as possible. The project was divided into two phases, with phase one completed, with phase 2 completion expected in 2018.
Soy

Do you collect data regarding compliance with the Brazilian Forest Code?
Yes, from suppliers

Please explain
The company only purchases soy from suppliers that signed the Soy Moratorium. Thus, 100% of JBS soy suppliers, in Brazil, are in compliance with Soy Moratorium criteria. In 2017, the company restructured its Compliance department. The area now has a Global Director, responsible for the implementation and supervision of initiatives in all regions of JBS. To that end, a new organizational structure was defined with the hiring of more resources to ensure that business practices ensure ethics and good conduct for all, as well as compliance with all internal laws, policies and procedures. One of the pillars of action is Due Diligence. In October 2017, JBS began to improve the practices of third party reputational assessment (Due Diligence). Once performed manually for a few risk segments, the Company hired expert advice on the subject to automate the process as much as possible, with the expectation of increasing the volume of analysis. The project was divided into two phases, with phase one completed, with phase 2 completion expected in 2018. Currently, the segments mapped with relevant risks are analyzed, including any third party that needs a proxy to act on behalf of JBS.

F1.4a

(F1.4a) For your disclosed commodity(ies), indicate which Key Performance Indicators (KPIs) you use to measure your own compliance with the Brazilian Forest Code and your performance against these indicator(s).

Forest risk commodity
Timber

KPIs and performance
% of owned and/or managed properties registered on the Rural Environmental Registry (CAR) database

Please explain
The rural proprieties destined to planted forests for the production of thermal energy (boilers) must have the Rural Environmental Cadastre (CAR) until the deadline stablished by the Brazilian Forest Code. The management of this KPI is performed by a technical team that analyzes each property individually to generate a diagnosis to obtain the CAR.

Forest risk commodity
Cattle Products

KPIs and performance
% of owned and/or managed properties registered on the Rural Environmental Registry (CAR) database

Please explain
The rural proprieties destined to bovine confinement must have the Rural Environmental Cadastre (CAR) until the deadline stablished by the Brazilian Forest Code. The management of this KPI is performed by a technical team that analyzes each property individually to generate a diagnosis to obtain the CAR.

F1.4b
(F1.4b) For your disclosed commodity(ies), indicate which Key Performance Indicators (KPIs) you use to measure the compliance of your suppliers with the Brazilian Forest Code and their performance against these indicator(s).

**Forest risk commodity**
- **Timber**
  - **KPIs and performance**
    - Other, please specify (Forest Stewardship Council (FSC))
  - **Number of suppliers**
    - 7
  - **Please explain**
    - The information covers suppliers of cardboard packaging, which must be certified by the FSC - Chain of Custody - CoC, which certifies the traceability of the raw material coming out of the forest. It means that, the products bearing the chain of custody seal were in fact, produced from forest raw materials certified by the “forest management” modality. 100% of the suppliers must have the FSC certified

**Forest risk commodity**
- **Cattle Products**
  - **KPIs and performance**
    - % of suppliers on the Rural Environmental Registry (CAR) database
    - % of suppliers with no gross deforestation after July 2008
    - Other, please specify (Ivasion of protected areas)
  - **Number of suppliers**
    - 73463
  - **Please explain**
    - % of suppliers on the Rural Environmental Registry (CAR) database: 86% of the farms supplying the active cadastre have the CAR, on 12/31/2017. % of suppliers with no gross deforestation after July 2008: 5% of the farms supplying the total of the cadastre that are blocked by deforestation after October / 2009, on 12/31/2017. Other, please specify: Invasion of protected areas (Indigenous Lands and / or Environmental Conservation Units) and Areas embargoed by IBAMA: 4% of the farms supplying the total of the cadastre that are blocked by the criteria of areas embargoed by IBAMA and / or invasion of protected areas (Indigenous Lands or Environmental Conservation Area), on 12/31/2017.

**Forest risk commodity**
- **Soy**
  - **KPIs and performance**
    - Other, please specify (Soy Moratorium)
  - **Number of suppliers**
    - 14
  - **Please explain**
    - The company only purchases soy from suppliers that signed the Soy Moratorium. Thus, 100% of JBS soy suppliers are in compliance with Soy Moratorium criteria.

**F1.5**

(F1.5) Does your organization collect production and/or consumption data for your disclosed commodity(ies)?

<table>
<thead>
<tr>
<th>Forest risk commodity</th>
<th>Data availability/Disclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber</td>
<td>Consumption data available, disclosing</td>
</tr>
<tr>
<td>Palm Oil</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Cattle products</td>
<td>Consumption data available, disclosing</td>
</tr>
<tr>
<td>Soy</td>
<td>Consumption data available, disclosing</td>
</tr>
<tr>
<td>Other - Rubber</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Other</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
</tbody>
</table>
F1.5a

(F1.5a) Disclose your production and/or consumption data.

Forest risk commodity
Timber

Data type
Consumption data

Volume
17604786

Metric
Other, please specify (Giga Joule - GJ)

Data coverage
Full commodity production/consumption

Please explain
Data refer to the conversion of biomass to boiler fuel (firewood, wood briquette, chip and sawdust) from JBS Brazil and Seara.

Forest risk commodity
Cattle products

Data type
Consumption data

Volume
6.2

Metric
Other, please specify (million heads of cattle)

Data coverage
Full commodity production/consumption

Please explain
JBS Brazil production data.

Forest risk commodity
Soy

Data type
Consumption data

Volume
1797096

Metric
Other, please specify (Tons)

Data coverage
Full commodity production/consumption

Please explain
Soybean meal, soybeans in grains and soybean inactivated.

F1.6

(F1.6) Have you identified sufficient sources of sustainable materials to meet your current operational needs? If yes, what are you doing to ensure the security/continuity of this supply?
Timber

Sustainable source identified
Yes

Primary action to ensure supply
Supply chain mapping

Please explain
Seara has developed its own planted forest for internal supply to ensure the sustainable origin of its materials. Currently, JBS has developed initiatives aiming to generate energy by reusing waste from industrial processes as alternative fuels, which decreases the commodity risks for the company. For instance: As a waste generated from the pig slaughter industrial process, the pig hair is extracted from the pig skin - approximately 400 tons per year, which had previously been sent to landfills - is reused to generate thermal and steam-based energy; and Reusing the bovine rumen content (25kg generated for each animal processed) is possible to generate thermal and steam-based energy. This change reduces the consumption of biomass and fossil fuels for the boilers and reduces GHG emissions. Additionally, JBS’ R&D area developed an improvement project to change the design of some of the packaging, which became a single piece, instead of two - the bottom and top of the box, thereby reducing the use of cardboard raw materials used in the process by 41%. JBS is one of the largest consumers of paper/cardboard in Brazil, as it uses the material to produce the packaging for its products. Although, 100% of the paper/cardboard acquired has FSC certification, which is part of the selection criteria for suppliers of this material. JBS has implemented a recovery project of wooden pallets used for transportation. Before this project, pallets were used only once and disposed after cargo transport. Through the reverse logistic practice, currently is possible to reuse the same pallets on average for 4 times. In 2017 JBS invited cardboard package suppliers to participate and answer the CDP Supply Chain Forest questionnaire, which was developed exclusively by the CDP so that the companies to evaluate and stimulate their suppliers, considers the policies, strategies, opportunities management and risks related to actions to combat deforestation in the production of agricultural commodities.

Cattle products

Sustainable source identified
Yes

Primary action to ensure supply
Supplier improvement plans to increase capacity of supply

Please explain
In 2015 JBS supported a project aims to increase productivity of husbandry farms in the Amazon region and fosters the adoption of more sustainable techniques through cultures rotation, pasture reform and integrated agriculture, livestock and forestry. It contributes to the main issue in the Amazon region, indirectly reducing deforestation. As a result, in 2015 there were 32 farmers and 40 farms engaged by the program, which have a complete diagnosis and project; 20 farms are implementing the project and 20 farms are in the beginning phase. Production indicators are used to measure program affectivity. JBS developed a monitoring system, which is comprised of 2 analysis procedures. The first involves geospatial monitoring and the second performs the intersection of the registration data of the cattle suppliers with the data from the public lists of areas embargoed by IBAMA - by illegal deforestation – and employers who used work practices that are degrading or analogous to slavery, according the Ministry of labour (MTE). Moreover, one of JBS’s initiative is the Legal Supplier Program, which helps JBS suppliers to regularize their CAR (Rural Environmental Registry). Additionally, JBS launches the Conexão Gestão program in order to improve the managerial skills of medium-sized cattle ranchers. In partnership with the Instituto Integra, the pilot project aims to support the rancher in the day-to-day management of the farm, helping to increase the efficiency of the beef production chain. It aims to discover new leaders of Brazilian livestock and help increase the productive efficiency of the participating farms. It is a project to change traditional concepts in the farms, giving them the knowledge of management methodologies that raise the gains, generating more income for the cattle ranchers. Of a large selection, only 10 farmers (owners of 17 properties) were chosen for periodic meetings, debates and discussions. And in these chosen farms, controls of machinery, resources and finances were applied. The evolution of the group has already been perceived. In 2017, JBS invited cattle suppliers to participate and respond to the CDP Supply Chain Forests questionnaire, developed by the CDP exclusively so that the companies to evaluate and stimulate their suppliers.
Soy

Sustainable source identified
Yes

Primary action to ensure supply
Other, please specify (Soy Moratorium)

Please explain
100% of soy purchases comes from Soy Moratorium Signatories suppliers. The soy Moratorium gives security that the raw material supplied came from a legal source, thus minimizing the risk of supply failure by illegal suppliers. In 2017, JBS invited soybean suppliers to participate and respond to the CDP Supply Chain Forests questionnaire, developed by the CDP exclusively so that the companies to evaluate and stimulate their suppliers, considers the policies, strategies, opportunities management and risks related to actions to combat deforestation in the production of agricultural commodities.

F1.7

(F1.7) Has your organization experienced any detrimental forests-related impacts?
Yes

F1.7a

(F1.7a) Describe the forests-related detrimental impacts experienced by your organization, your response, and the total financial impact.

<table>
<thead>
<tr>
<th>Forest risk commodity</th>
<th>Timber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impact driver type</td>
<td>Physical</td>
</tr>
<tr>
<td>Primary impact driver</td>
<td>Changes in precipitation patterns</td>
</tr>
<tr>
<td>Primary impact</td>
<td>Constraint to growth</td>
</tr>
</tbody>
</table>

Description of impact
Longer periods without rains can also affect the operation due to the lack of biomass or higher purchase costs, as well as excessive rains and floods can impact on the transportation of essential raw material.

Primary response
Implementation of environmental best practices in direct operations

Total financial impact
0

Description of response
JBS develops projects, which aims to reuse industrial waste as alternative fuel, for example reusing the bovine rumen content (25kg generated for each animal processed) is possible to generate thermal and steam-based energy. JBS Seara also reuse poultry fat to generate heat energy to partially replace fuel like timber. This change reduces the consumption of biomass and fossil fuels for the boilers and reduces GHG emissions.

Forest risk commodity
Timber

Impact driver type
Regulatory

Primary impact driver
Regulatory uncertainty

Primary impact

Increased operating costs

**Description of impact**
JBS has established environmental and social criteria – slave labor and deforestation - for biomass purchase (used as boiler fuel). If there aren’t local suppliers following these criteria, the purchase will have to be made from more distant suppliers, resulting in higher transportation costs.

**Primary response**
Greater compliance with regulatory requirements

**Total financial impact**

**Description of response**
JBS informs and guides its suppliers regarding its social and environmental criteria and tries to diversify its supply chain. To mitigate the risk of purchasing timber from suppliers involved in deforestation, JBS established a Normative Instruction of Biomass Purchasing, stating that only suppliers legalized by the competent environmental authorities are able to negotiate materials with the company.

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**Forest risk commodity**
Cattle products

**Impact driver type**
Physical

**Primary impact driver**
Changes in precipitation patterns

**Primary impact**
Increased operating costs

**Description of impact**
Long scarce rain periods can also affect the operation because of the lack of raw material or higher purchase costs, as well as excessive rains and floods can affect the transportation of essential raw material. Higher costs of raw material may affect the entire cattle production chain, creating an indirect impact in the expansion of operations and in some cases may even result in the closure of units.

**Primary response**
Engagement with suppliers

**Total financial impact**

0

**Description of response**
Diversificiation of suppliers, due to lower supply of cattle, and availability of confined animals. Production planning can be changed to units located in less favourable regions to water stress. JBS has been working with a chain of suppliers to enable producers to improve production through production management, called Connection Program. The initiative provides livestock breeders with commercial Training. Through a platform, the program intend to build a stronger relationship between the producer and the value chain by providing information on meat processing, marketing and sales.

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**Forest risk commodity**
Cattle products

**Impact driver type**
Regulatory

**Primary impact driver**
Regulatory uncertainty

**Primary impact**
Increased operating costs

**Description of impact**
Because of Non-Governmental Organization Greenpeace study results, JBS has made a public commitment to not purchase cattle from ranches responsible for deforestation in the Amazon Biome region after October 2009, as well as those that use labour analogous to slavery or trespass indigenous lands or environmental protected areas delimitation. The public agreement that establishes criteria for cattle purchases from properties located in the Amazon Biome region is also known by Zero Deforestation Commitment and its requirements are under the document "Minimum criteria for industrial scale operations with cattle and beef products in the Amazon". Additionally, the lack of environmental compliance of the cattle suppliers can go against the JBS social
and environmental commitment and other agreements made by the company, for instance: One resource to establish traceability by JBS is the Amazon TAC (Conduct Adjustment Term), which was signed in 2009 and renovated in 2013. This new agreement standardizes the obligations to be met by all JBS refrigeration units in the Amazon region, renewing the commitment of one of the largest processors of animal protein in the world in requiring their suppliers to comply with legal and socio-environmental criteria as a prerequisite for the purchase of animals for slaughtering.

**Primary response**

Implementation of environmental best practices in direct operations

**Total financial impact**

0

**Description of response**

Greater engagement with customers are made to meet specific demands, for example demand for sustainable beef, which cause the new product development process and market expansion. JBS informs and guides its suppliers regarding its social and environmental criteria, such as, not purchasing raw material from deforested lands or suppliers involved in slave labour. In this sense, the monitoring provided by Social and Environmental Monitoring System through geo-referenced maps is mandatory for all farms located in the Amazon Biome Region. Additionally, JBS has implemented an internal audit system in 100% of cattle purchases. Every year the Environmental Monitoring System is verified by independent audit. The New Field Program (Programa Novo Campo), which promotes more sustainable production techniques at husbandry farms in the Amazon region, thus contributing to the development of differentiated bonus protocols, to the opening of markets for products with social and environmental attributes, as well as to support training, earnings disclosure and fundraising for ongoing efforts.

**Forest risk commodity**

Cattle products

**Impact driver type**

Reputational and markets

**Primary impact driver**

Negative media coverage

**Primary impact**

Brand damage

**Description of impact**

The Non-Governmental Organization Greenpeace has been studying the behaviour of the production chain for cattle raising in the Amazon region since 2007. In 2009, after a long investigation, the organization published its report “Slaughtering the Amazon”, which highlighted the relationship between the processing companies and their cattle suppliers involved with forest clearance and slave labour, and the products offered for sale in the market. JBS was one of the processing companies that were on the list. In fact, it brought negative impacts for JBS’ image as well as with its customers.

**Primary response**

Implementation of environmental best practices in direct operations

**Total financial impact**

0

**Description of response**

Due to the Greenpeace study results, JBS has made a public commitment to not purchase cattle from ranches responsible for deforestation in the Amazon Biome region after October 2009, as well as those that use labour analogous to slavery or trespass indigenous lands or environmental protected areas delimitation. In 2010, JBS began to develop a social and environmental monitoring system for the farms that supply livestock to the company. To remain in Compliance with the responsible purchasing commitment, an independently audit on the Social and Environmental monitoring system is annually provided. According to the 2014, 2015, 2016 and 2017 independent audit results, the compliance level was 99.75%, 99, 97%, 99.97% and 99.97% respectively. The 2018 audit results will be available on the JBS’s official website (http://www.jbs.com.br) in second half of 2018. Moreover, a significant result regarding its public commitment with zero deforestation, JBS was positively mentioned in a recently study prepared for Greenpeace (2015), available in (http://camaomolhomadeira.org.br/). The study mentioned JBS as one of the three biggest Brazilian frigorific company which has been complying with the public commitment, reporting independent audit results regarding its purchase monitoring system and how its actions has been changing the market in a positive way.

**Forest risk commodity**

Soy

**Impact driver type**

Physical
Primary impact driver
Changes in precipitation patterns

Primary impact
Increased operating costs

Description of impact
Longer periods without rains also can affect the operation because of the lack of soy or higher purchase costs, as well as excessive rains and floods can affect the transportation of essential raw material. Higher costs of soy may affect the entire poultry and pork production chain, creating an indirect impact in the expansion of operations and in some cases may even result in the closure of units.

Primary response
Supplier diversification

Total financial impact
0

Description of response
Seara constantly monitors meteorological maps, reports of crops changes, supply and global demand images/graphics, prices, curves and economic scenarios, identifying, monitoring and creating strategies to mitigate risks that company are exposed and reduce its possible effects on JBS operations. The Grain Purchasing Directory is responsible for this monitoring process and for developing the medium and long term strategic planning of commodities acquisition. Commodity markets are characterized by high volatility due to external factors such as climate, supply, transport costs, agricultural policies, storage costs, among others. The Risk Control Board is responsible for mapping the Company's commodity price exposures and proposing to the Risk Management Committee strategies to mitigate such exposures

Forest risk commodity
Soy

Impact driver type
Regulatory

Primary impact driver
Other regulatory driver, please specify (Soy Moratorium and voluntary agreements)

Primary impact
Increased operating costs

Description of impact
Despite of the fact that in 2016 the soy moratorium was renovated for undetermined period, in 2015 it was renovated just for one year, creating a risk exposure scenario for JBS.

Primary response
More ambitious forest-related commitments

Total financial impact
0

Description of response
The end of Soy Moratorium could represent significant risks to the company once would be not possible to guarantee free deforestation of soy purchase.

F2. Procedures

F2.1

(F2.1) Does your organization undertake a forests-related risk assessment?
Yes, forests-related risks are assessed
(F2.1a) Select the options that best describe your procedures for identifying and assessing forests-related risks.

Timber

Value chain stage
Supply chain

Coverage
Full

Risk assessment procedure
Assessed in an environmental risk assessment

Frequency of assessment
Six-monthly or more frequently

How far into the future are risks considered?
Up to 1 year

Tools and methods used to identify and assess risks
Internal company methods
External consultants
FSC Global Forest Registry

Please explain
The verification of the supplier’s compliance to the company’s environmental and social criteria occurs in every purchase process. Besides, JBS established a partnership with the Brazilian NGO Instituto Centro de Vida (ICV) on the New Field Program (Programa Novo Campo). The program promotes more sustainable production techniques at husbandry farms in the Amazon region to enhance productivity. It fosters the diversification of income sources through cultures rotation, pasture reform and practicing of integrated agriculture, livestock and forestry. The Program contributes positively to the main issue in the Amazon region, as it indirectly reduces the need for more deforestation. With this production model adoption, there is the possibility to purchase wood derivatives from more sustainable producers.
Cattle Products

Value chain stage
Supply chain

Coverage
Full

Risk assessment procedure
Assessed as part of an established enterprise risk management framework

Frequency of assessment
Six-monthly or more frequently

How far into the future are risks considered?
Up to 1 year

Tools and methods used to identify and assess risks
Internal company methods
External consultants
Other, please specify (Public information (IBAMA, MTE and INPE))

Please explain
JBS has made a public social commitment to not purchase cattle from farms responsible for deforestation in the Amazon Biome region after October 2009. To ensure compliance with this commitment, in 2010 JBS developed a social and environmental monitoring system for farms that supply livestock to JBS. It works in an integrated way. The first one works on a daily download of public agencies IBAMA and MTE dirty lists and a crosschecking of suppliers taxpayer numbers database against them. The second process analyses cattle farms in the Brazilian Legal Amazon based on geographical information. It performs by daily geo monitoring through the digital overlay of georeferenced maps of cattle supplier properties and deforestation maps published by National Space Research Institute (INPE) combined with official data from National Indigenous Foundation (FUNAI) and National Conservation Units System (SNUC). The suppliers, which aren’t in comply with one or both process, are automatically blocked in the Enterprise Resource Planning System (ERP) and no purchasing operations are made. An independent audit on the Social and Environmental monitoring system is annually provided. According to the 2014, 2015, 2016 and 2017 audit results, the compliance level was 99.75%, 99.97%, 99.97% and 99.97% respectively. The 2018 audit results will be available on the JBS’s official website (http://www.jbs.com.br) in second half of 2018. The Sustainability Committee meets quarterly and is responsible for the management of risks and critical issues, as well as business opportunities for the company that can generate a high negative or positive impact on JBS’ operations over the short, medium and long terms. The committee’s job includes implementation of policies, strategies and specific actions, and evaluation of sustainability investment proposals. The Committee monitors results of the Monitoring System including indicators of the total active suppliers on the system’s registration, percentage of suppliers from the Legal Amazon, how many already have the digital map, number of eligible and blocked suppliers. In case of acquisition opportunities or opening new plants in Amazon Biome area, JBS performs an analysis of the potential suppliers of raw materials regarding their environmental compliance. This analysis allows JBS to evaluate the feasibility of operating in a specific region.
Soy

Value chain stage
Supply chain

Coverage
Full

Risk assessment procedure
Assessed as part of an established enterprise risk management framework

Frequency of assessment
Six-monthly or more frequently

How far into the future are risks considered?
Up to 1 year

Tools and methods used to identify and assess risks
Internal company methods
External consultants
Other, please specify (Soy Moratorium)

Please explain
The verification of the supplier’s compliance in relation to the company’s environmental and social criteria occurs in every purchase process. JBS Foods has the Grains and Agricultural Feedstock Purchasing Directory that follows on climate issues that directly affect the cost of soybeans and consequently the cost of production. This Directory constantly monitors meteorological maps, reports of crops changes, supply and global demand images/graphics, prices, curves and economic scenarios, identifying, monitoring and creating strategies to mitigate the risks to which company is exposed to and reduce its possible effects on JBS operations. When soybean has a profitable price, it’s made the option of buying large quantities for storage and later use. The Grains and Agricultural Feedstock Purchasing Directory is responsible for this monitoring process and for developing the medium and long term strategic planning of the commodities purchasing.

F2.1b

(F2.1b) Which of the following issues are considered in your organization’s forests-related risk assessment(s)?

Availability of forest risk commodities

Relevance & inclusion
Relevant, always included

Please explain
The criteria “Availability and quality of forest risk commodities” is important to JBS business because if there isn’t enough raw material (cattle) in compliance with the company’s environmental criteria near the slaughterhouse, there will be an increase in operational costs. To manage the risk of cattle purchase from suppliers involved in native forests deforestation, protected areas invasion or child and compulsory labour use, JBS established restrictive procurement procedures performed by a social and environmental monitoring system, composed of two mechanisms of analysis, which work in an integrated manner. The first verifies the existence of the farm or livestock supplier in the lists published by the Ministry of Labour and Employment (MTE) – Registry of Employers Fined for Compulsory Labour and the list of areas embargoed due to illegal deforestation published by the Brazilian Institute of the Environment and Renewable Natural Resources (IBAMA). The second mechanism of analysis uses a geographic information system (GIS) for the geo-spatial monitoring of farms supplying the company with livestock located in the Legal Amazon region, in order to identify suppliers involved in the deforestation of native forests after October 2009, the invasion of indigenous lands or environmental conservation units. It is constantly performed a monitoring of the circle radius of cattle purchasing for each plant. To make a deal feasible, the supplier farm should be at the maximum of 200 km far away from the slaughterhouse. Moving the plant for lower deforestation risk areas is also very costly. Additionally, 100% of soy purchased by JBS comes from Soy Moratorium Signatories suppliers. The soy Moratorium gives security that the raw material supplied came from a legal source, thus minimizing the risk of supply failure by illegal suppliers. In 2017, JBS invited soybean suppliers to participate and respond to the CDP Supply Chain Forests questionnaire, developed by the CDP exclusively so that the companies to evaluate and stimulate their suppliers, considers the policies, strategies, opportunities management and risks related to actions to combat deforestation in the production of agricultural commodities.
Quality of forest risk commodities

Relevance & inclusion
Relevant, always included

Please explain
The criteria “Quality of risk commodities” is important to JBS business because if there isn’t enough raw material (cattle) in compliance with the company’s environmental criteria near the slaughterhouse, there will be an increase in operational costs. Therefore, JBS has several initiatives to develop and encourage a more sustainable chain of suppliers and supply of raw material with better quality. In this sense, there are: 1) New Field Program (Programa Novo Campo), which promotes more sustainable production techniques at husbandry farms in the Amazon region, such as: 2) Legal Supplier Programa (Fornecedor Legal) Was created in 2015 to advise JBS’s cattle supply chain in Brazil on how to suit legislation changes in Brazil in the last years. JBS selected regionals specialized consulting companies in environmental regulation to support its cattle suppliers with the CAR regulation process, and has bargained better prices conditions regarding the consultant services for its suppliers. JBS’s communications channels, mainly the Giro do Boi Show at the Rural channel, were used to guide farmers on how to regularize their operations and implement the CAR.; 3) Green Light Pact (PactoSinal Verde), an initiative created in 2015, which aims to classify 100% of carcass originated from Mato Grosso do Sul region, one of the most important production centers in Brazil. This Goal was achieved by JBS in January 2016; 4) JBS Connexion Program (ProgramaConexão JBS) is a direct communication platform with JBS suppliers in Brazil, focused in commercial education. It aims to approach cattle breeder to supply chain through information regarding beef industrialization, market and sales. It is directed to sixty thousands JBS’s cattle suppliers in Brazil; 5) Giro do Boi, which is a daily television program by Rural Channel that provides relevant information to cattle breeder; 6) Cattle Breeder Portal (Portal do Pecuarista), whereby the breeders have free access to the complete cattle slaughter of each one of their farms, the standard photographic classes finishing with academic validation of associations and experts to the classification of carcasses is transparent and auditable; 7) Quality Light (Farol da Qualidade) – This tool lists the technics parameters of carcass in green light (default desirable), yellow light (tolerable standard) and lighthouse red (undesirable pattern)

Impact of activity on the status of ecosystems and habitats

Relevance & inclusion
Relevant, always included

Please explain
The JBS Sustainability strategy seeks to have a responsible production chain, including the impacts of activities on the ecosystems and habitats of the regions it operates. JBS is committed to ensure the responsible origin of all the raw materials used in its processes, through the establishment of social and environmental criteria applied to all of its suppliers. In order to guarantee the provenance of all of the products that it offers, JBS has a close relationship with its suppliers to monitor and guide all the stages prior to the arrival of the animals at the Company’s processing facilities. In addition, for the beef operation, JBS has a technological system for the social and environmental monitoring of farms to ensure that none of its suppliers is involved in the deforestation of native forests, the invasion of protected areas, such as indigenous lands or protected areas, or with the use of slave labour. Through the adoption of social and environmental criteria for raw material procurement process, JBS has a strong influence in the supply chain by creating a culture of intolerance to deforestation. As a positive result of these actions, JBS mitigates and prevents the impacts that could occur in habitats and ecosystems due its activities.
Regulation

Relevance & inclusion
Relevant, always included

Please explain
The criteria “Regulation” is important to JBS because the Company’s operations are increasingly subjected to strict laws and regulations, in all levels of government, relating to environmental protection. The inability to meet these requirements or any other potential environmental international agreement could result in serious consequences for JBS, including criminal, civil, and administrative penalties. As environmental laws become stricter in the markets in which JBS operates, the future costs required to maintain compliance with regulations may adversely affect the availability of funds for capital expenditures and even lower profits. For example, in 2009, JBS signed a Conduct Adjustment Agreement (“TAC”) with the Federal Public Ministry, in Pará State, in order to curb the purchase of cattle from farms that are listed, by the Ministry of Labour and Employment, as having compulsory labour and appear on the list of embargoed areas, released by the Brazilian Institute of Environment and Renewable Natural Resources. In 2013, JBS signed a new TAC with the Federal Public Prosecution Office (MPF) in Acre and Mato Grosso to set standards for the facilities located in the Legal Amazon. This new TAC replaced the previously signed in both States, renewing the commitment to buy cattle from farms that comply with social, environmental and labour rules. To manage the risk of cattle purchase from suppliers involved in native forests deforestation, protected areas invasion or child and compulsory labour use, JBS assumed the commitment to ensure the responsible origin of its raw materials and implemented a monitoring system to stay in comply with the criteria. It is expected a new environmental control instrument called Rural Environmental Registry (CAR). This electronic registration is mandatory for all rural properties and will contribute to develop a strategic database to control, monitor and fight deforestation in Brazil, as well as environmental and economic planning of rural properties. CAR will also permits access to most accurate geographic information suppliers of raw materials (cattle). The registration will be mandatory from December 2018 and exposes JBS to the risk of lower purchasing capability and significant increases in logistics costs, if a substantial portion of the suppliers do not meet the deadline established by the CAR.

Climate change

Relevance & inclusion
Relevant, always included

Please explain
Deforestation of native forests, associated with climate change, can change agricultural conditions unpredictably. A significant change in weather patterns could affect the supply of raw material as well as the ability of the supply chain to raise animals. JBS supports a program that aims to increase productivity of husbandry farms creating a higher number of animals per area, reducing pressure over the forests, avoiding deforestation in the Amazon region and adopting more sustainable techniques through cultures rotation, pasture reform and integrated agriculture, livestock and forestry. As consequence, it contributes to the main issue in the Amazon region, indirectly reducing deforestation. The program also aims to collaborate with the commitments of the Brazilian government, which has undertaken to adopt measures to reduce the emission of greenhouse gases through a Nationally Determined Contribution (NDC), which has as one of the objectives to expand the combat actions to deforestation. As a result, in 2015 there were 32 farmers and 40 farms engaged by the program, which have a complete diagnosis and project; 20 farms are implementing the project and 20 farms are in the beginning phase. Production indicators are used to measure program affectivity. The follow numbers represent the results of 6 pilot farms in the 1st year after GAP implementation. Results refer to the whole farm, where one 32 hectare module of intensification was installed, representing 5-10% of the pastures: - Reduction of CH4 emissions (from 353 to 180 gCH4/KgLW); - Reduction of slaughtering age (from 44 to 34 months for males and from 34 to 24 months for females); - Increase in stocking density (from 1.22 to 1.61 animal units/ha); - Increase in productivity (from 70 to 160 KgCW/ha/yr); Increase in gross marging (from 0-100 to 680 R$/ha/yr. Additionally, to ensure security and continuity of supply, JBS has made a public and social commitment to not purchase cattle from ranches responsible for deforestation in the Amazon Biome region after October 2009 as well as those that use labour analogous to slavery or that trespasses limits of indigenous lands or environmental conservation areas.

Tariffs or price increases

Relevance & inclusion
Please select

Please explain
Loss of markets

Relevance & inclusion
Relevant, always included

Please explain
JBS assumed the commitment to ensure the responsible origin of its raw materials, not purchasing cattle from suppliers involved with native woodlands deforestation, environmental conservation units and indigenous lands invasion, rural violence and agrarian conflicts, or with the use of compulsory and child labour. The company implemented a social and environmental monitoring system, composed of two mechanisms of analysis to monitor cattle suppliers and guarantee none purchases in disagreement with the criteria. A system failure that could provoke a non-compliant purchase would have a damaging effect on the company’s brand reflected in loss of revenue due to contracts termination and markets recession.

Brand damage related to forest risk commodities

Relevance & inclusion
Relevant, always included

Please explain
The criteria “Brand damage related to forest risk commodities” is importante to JBS once the company is exposed to reputational risks due to a potential system failure that could provoke a non-compliant purchase. As a global leader of beef production, JBS is on the spotlight of NGO’s protests and media coverage and any collapse of its social and environmental monitoring system would represent a large damage with other effects such as revenue and profits decrease, loss of markets and termination of contracts. JBS assumed the commitment to ensure the responsible origin of its raw materials, not purchasing cattle from suppliers involved with native woodlands deforestation, environmental conservation units and indigenous lands invasion, rural violence and agrarian conflicts, or with the use of compulsory and child labour. The company implemented a social and environmental monitoring system, composed of two mechanisms of analysis to monitor cattle suppliers and guarantee none purchases in disagreement with the criteria.

Corruption

Relevance & inclusion
Relevant, always included

Please explain
JBS has an Ethics and Conduct Manual, which provides specifics chapters regarding anti-corruption practices and relationships with government bodies. Additionally, JBS also has an internal policy - Normative Instruction that provides specifics instructions to purchase raw material (cattle) from JBS employs in order to mitigate conflict of interest risks. In 2017, Cia restructured its Compliance department. The area now has a Global Director, responsible for the implementation and supervision of initiatives in the area in all regions of JBS. To that end, a new organizational structure was defined with the hiring of more resources to ensure that business practices ensure ethics and good conduct for all, as well as compliance with all internal laws, policies and procedures.

Social impacts

Relevance & inclusion
Relevant, always included

Please explain
Due to the size and scope of its operations, JBS has an important role in generating direct and indirect jobs in many localities. By contributing to the development of these regions, their activities end up having a very high social impact. In addition, the Company seeks to contribute to society by supporting initiatives aimed at the education and training of children and youth, the professionalization of youth and adults, and the training and social inclusion of people with special needs. JBS Brazil has a Responsible Sourcing Policy that establishes social and environmental criteria for suppliers selection. The Company does not acquire animals from farms involved with deforestation of native forests, invasion of indigenous lands or environmental conservation areas, or that are embargooed by the Brazilian Institute of the Environment and Renewable Natural Resources (IBAMA). It also will not work with suppliers involved in rural violence or land conflicts, or who utilize slave or child labor. If any supplier is on the Slave List, according to the Ministry of Labour, all your associated farms will be blocked in the JBS purchasing system. Additionally, since 2007, JBS is a signatory to the National Pact for the Eradication of Slave Labor in Brazil (InPACTO), which aims to strengthen the actions against slave labor in Brazil.
Other, please specify

Relevance & inclusion
Relevant, always included

Please explain
After developing procurement procedures to prevent deforestation, the company is also exposed to the lack of enough raw materials in compliance with the requirements it has set. To mitigate the risk of acquiring raw materials from suppliers involved in the deforestation of native forests, the invasion of protect areas, such indigenous land or environmental conservation units and the use of child or compulsory labour, JBS has adopted a responsible sourcing policy and established social and environmental criteria for purchasing commodities that could be from deforestation risk areas. – Establishment of social and environmental criteria - responsible sourcing policy.

F2.1c

(F2.1c) Which of the following stakeholders are considered in your organization’s forests-related risk assessments?

Customers

Relevance & inclusion
Relevant, always included

Please explain
Greater engagement with customers are made to meet specific demands, for example demand for sustainable beef, which cause the new product development process and market expansion. JBS informs and guides its suppliers regarding its social and environmental criteria, such as, not purchasing raw material from deforested lands or suppliers involved in slave labour. In this sense, the monitoring provided by Social and Environmental Monitoring System through geo-referenced maps is mandatory for all farms located in the Amazon Biome Region. Additionally, JBS has implemented an internal audit system in 100% of cattle purchases. Every year the Environmental Monitoring System is verified by independent audit. Through its official website (www.jbs.com.br), JBS provides the most relevant information on strategic sustainability issues (including the supply chain - guarantee of origin), the annual audit reports of the “Public Commitment to Livestock.” Specific meetings are held with strategic clients to present the Livestock Farms Socio-Environmental Monitoring System. The JBS Ombudsman department began in 2010 and sets up the communication channel available to all employees, customers, suppliers or anyone with a relationship with the JBS group in order to share their complaints, suggestions or praises. Its main objective is to welcome demonstrations and seek definitive solutions, guiding decisions, promoting continuous improvement of work processes, acting with transparency, respect, consistency, reliability, ethics and, above all, secrecy. Since 2015, the Company has implemented its Ombudsman system, automating the entire process of registering complaints and their respective indicators. Annually, a wide publicity campaign for the Ombudsman's Office is carried out in all units through the internal communication channels, as well as banners and information boards distributed by the JBS plants informing the Ombudsman's contacts. This information is also disclosed on the intranet and published on the Company's website. In addition, all new employees participate in face-to-face training at the time of their integration, during which they receive more detailed information about the Ombudsman channel. The contacts with the Ombudsman can be made through the email ouvidoria@jbs.com.br, telephone 0800-770-4100 or www.ouvidoria.jbs.com.br.
**Employees**

Relevance & inclusion
Relevant, always included

**Please explain**

JBS employees are an important part of the company's stakeholders. In this way, there is a constant internal communication work dedicated to the leaders and other employees, containing information on the JBS Responsible Purchase Policy, as well as communication campaigns. The theme is also addressed in the integration of new employees, as well as being widely disseminated in the annual conventions of the various JBS departments. For raw material purchasing teams, which are directly affected by vendor blocking/release, periodic training and documents describing the rules and procedures against the company's socio-environmental criteria are carried out. Through internal communication campaigns, the most relevant information on strategic sustainability issues (including the supply chain - guarantee of origin) is disseminated, as well as the annual audits of the Public Commitment on Livestock. Trust for JBS, is what guides all relationships with its audiences. The Corporate Compliance Board was created in 2015. Reporting directly to the Institutional Relations Board, the new structure serves all JBS Group businesses and is responsible for identifying, evaluating and monitoring risks. It is also incumbent on it to develop training and communication initiatives for all employees and suppliers. The JBS Ombudsman began in 2010 and sets up the communication channel made available to all employees, customers, suppliers or anyone with a relationship with the JBS group in order to share their complaints, suggestions or praises. Its main objective is to welcome demonstrations and seek definitive solutions, guiding decisions, promoting continuous improvement of work processes, acting with transparency, respect, consistency, reliability, ethics and, above all, secrecy. Since 2015, the Company has implemented its Ombudsman system, automating the entire process of registering complaints and their respective indicators. Annually, a wide publicity campaign for the Ombudsman's Office is carried out in all units through the internal communication channels, as well as banners and information boards distributed by the JBS plants informing the Ombudsman's contacts. All new employees participate in face-to-face training at the time of their integration, during which they receive more detailed information about the Ombudsman channel.

**Investors**

Relevance & inclusion
Relevant, always included

**Please explain**

Communication to the market about socio-environmental criteria for the purchase and encouragement of the use of good agricultural practices. In Brazil, it carries out monitoring of the farms of suppliers located in the States of the Legal Amazon by means of a geospatial system capable of identifying occurrences of nonconformities and preventing the purchase of raw materials from suppliers that act in an irregular manner. Throughout the year, JBS also answers several questionnaires sent by investors with questions about actions to combat deforestation. The "CDP Forests" program, also run by the CDP, helps companies and investors to understand and mitigate exposure to the risk of deforestation associated with the use of agricultural commodities, such as soybeans and cattle. JBS reports related actions and strategies to CDP Forests on an annual basis.

**Local communities**

Relevance & inclusion
Relevant, always included

**Please explain**

JBS's stakeholder relationships make an important contribution towards business sustainability. One of the company's principles is to build trust with the many markets it interacts with on a day-to-day basis. JBS is aware of the social role it plays in each of these markets and has taken steps to support social, economic and environmental development. The company is also open to dialogue and always respects local cultures. Along the supply chain, JBS supports projects that promotes sustainable practices to increase the productivity of farms in the Amazon region in order to develop a new operating model that preserves natural resources and that brings financial benefits to the ranchers in the region. JBS has been contributing to the development of differentiated bonus protocols, the opening of markets for products with social and environmental attributes, as well as support for training, earnings disclosure and fundraising for ongoing efforts. JBS used its communications channels, mainly the Giro do Boi Show at the Rural channel, to guide farmers on how to regularize their operations and implement the CAR. In 2017, the communication through the Giro do Boi Show (TV Rural channel) was intensified. The JBS Ombudsman began in 2010 and sets up the communication channel made available to all employees, customers, suppliers or anyone with a relationship with the JBS group in order to share their complaints, suggestions or praises. Its main objective is to welcome demonstrations and seek definitive solutions, guiding decisions, promoting continuous improvement of work processes, acting with transparency, respect, consistency, reliability, ethics and, above all, secrecy. Since 2015, the Company has implemented its Ombudsman system, automating the entire process of registering complaints and their respective indicators. Annually, a wide publicity campaign for the Ombudsman's Office is carried out in all units through the internal communication channels, as well as banners and information boards distributed by the JBS plants informing the Ombudsman's contacts. This information is also disclosed on the intranet and published on the Company's website. In addition, all new employees participate in face-to-face training at the time of their integration, during which they receive more detailed information about the Ombudsman channel.
NGOs

Relevance & inclusion
Relevant, always included

Please explain
JBS is involved with a number of major local and global forums that discuss a range of sustainability issues with organized civil society and other members of the value chain. The company maintains constant dialogue with NGOs, such as CDP, to discuss the constant challenges and opportunities related to actions to combat deforestation in the supply chain. JBS also participates in the Working Group for the Control of Deforestation in the Chain Livestock Production, created by the Ministry of the Environment and composed of government agencies, a beef cattle and retail business, as well as NGOs and other stakeholders. These are activities of the Working Group for the Control of Deforestation in the Chain Livestock Productivity: I - to identify the initiatives of the government and of other sectors on the cattle activity and the initiatives to promote sustainability and to monitor the production chain; II - propose actions aimed at promoting sustainability and controlling the origin in the chain production of livestock; III - to contribute to the implementation of the Plan of Action for the Prevention and Deforestation in the Amazon (PPCDAm) and the Plan of Action for the Prevention and Control of Deforestation and Burning in the Cerrado (PPCerrado); IV - contribute to the construction of sectoral animal husbandry agreements, aiming at the illegal deforestation; and V - to develop solutions for the control of the origin of cattle and to verify the rural properties.

Other forest risk commodity users/producers at a local level

Relevance & inclusion
Relevant, always included

Please explain
JBS launches the Conexão Gestão program in order to improve the managerial skills of medium-sized cattle ranchers. In partnership with the Instituto Integra, the pilot project aims to support the rancher in the day-to-day management of the farm, helping to increase the efficiency of the beef production chain. It aims to discover new leaders of Brazilian livestock and help increase the productive efficiency of the participating farms. It is a project to change traditional concepts in the farms, giving them the knowledge of management methodologies that raise the gains, generating more income for the cattle ranchers. Of a large selection, only 10 farmers (owners of 17 properties) were chosen for periodic meetings, debates and discussions. And in these chosen farms, controls of machinery, resources and finances were applied. The evolution of the group has already been perceived. In the first moment of evaluation, the note that the members received was 2,5. Eight months after the program was implemented on farms, this grade rose to 8 points, that is, shared learning guaranteed the evolution of managers and financial gains. In 2017, JBS invited cattle suppliers to participate and respond to the CDP Supply Chain Forests questionnaire, developed by the CDP exclusively so that the companies to evaluate and stimulate their suppliers, considers the policies, strategies, opportunities management and risks related to actions to combat deforestation in the production of agricultural commodities.

Regulators

Relevance & inclusion
Relevant, always included

Please explain
In order to improve its controls, seeking access to information and discussions with different regulatory agents, JBS participated in several meetings with the Federal Public Prosecutor, especially in the State of Pará, presented and suggesting technical rules to have a supply chain free of deforestation. An example of this was the performance of an independent audit to verify compliance with the State of Pará's Behavior Adjustment Code (TAC), JBS was recognized among the companies that obtained a "positive and satisfactory" result from the commitments entered into with the Federal Public Ministry. JBS also participates in the Working Group for the Control of Deforestation in the Chain Livestock Production, created by the Ministry of the Environment and composed of government agencies, a beef cattle and retail business, as well as NGOs and other stakeholders. These are activities of the Working Group for the Control of Deforestation in the Chain Livestock Productivity: I - to identify the initiatives of the government and of other sectors on the cattle activity and the initiatives to promote sustainability and to monitor the production chain; II - propose actions aimed at promoting sustainability and controlling the origin in the chain production of livestock; III - to contribute to the implementation of the Plan of Action for the Prevention and Deforestation in the Amazon (PPCDAm) and the Plan of Action for the Prevention and Control of Deforestation and Burning in the Cerrado (PPCerrado); IV - contribute to the construction of sectoral animal husbandry agreements, aiming at the illegal deforestation; and V - to develop solutions for the control of the origin of cattle and to verify the rural properties.
Suppliers

Relevance & inclusion
Relevant, always included

Please explain
JBS launches the Conexão Gestão program in order to improve the managerial skills of medium-sized cattle ranchers. In partnership with the Instituto Integra, the pilot project aims to support the rancher in the day-to-day management of the farm, helping to increase the efficiency of the beef production chain. It aims to discover new leaders of Brazilian livestock and help increase the productive efficiency of the participating farms. It is a project to change traditional concepts in the farms, giving them the knowledge of management methodologies that raise the gains, generating more income for the cattle ranchers. Of a large selection, only 10 farmers (owners of 17 properties) were chosen for periodic meetings, debates and discussions. And in these chosen farms, controls of machinery, resources and finances were applied. The evolution of the group has already been perceived. In the first moment of evaluation, the note that the members received was 2.5. Eight months after the program was implemented on farms, this grade rose to 8 points, that is, shared learning guaranteed the evolution of managers and financial gains. In 2017, JBS invited cattle suppliers to participate and respond to the CDP Supply Chain Forests questionnaire, developed by the CDP exclusively so that the companies to evaluate and stimulate their suppliers, considers the policies, strategies, opportunities management and risks related to actions to combat deforestation in the production of agricultural commodities.

Other stakeholders, please specify

Relevance & inclusion
Relevant, always included

Please explain
Top management executives and Sustainability Committee: JBS has five multidisciplinary non-statutory committees working with the company's management in order to support the Board of Directors and make the company's processes more robust. One of these committees is the Sustainability Committee, responsible for dealing with and connecting all topics related to the company's business in a global perspective. This role include the identification, addressing and treatment of critical issues that result in risks or business impact; monitoring and implementation of policies, strategies and specific initiatives; and evaluation of proposals of investments in sustainability. Among the responsibilities of the Sustainability Committee, there is the monitoring of the results of the procurement system.

F3. Risks and opportunities

F3.1

(F3.1) Have you identified any inherent forests-related risks with the potential to have a substantive financial or strategic impact on your business?

<table>
<thead>
<tr>
<th>Risk</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber</td>
<td>Yes, only within our direct operations</td>
</tr>
<tr>
<td>Palm Oil</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Cattle Products</td>
<td>Yes, both in direct operations and the rest of our value chain</td>
</tr>
<tr>
<td>Soy</td>
<td>Yes, both in direct operations and the rest of our value chain</td>
</tr>
<tr>
<td>Other - Rubber</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Other</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
</tbody>
</table>

F3.1a
(F3.1a) How does your organization define substantive impact on your business?

Climate change, including the impact of global warming, creates both physical and financial risks in direct operations and in the supply chain. Physical risks of climate change include rising sea levels and changes in climatic conditions, such as increased precipitation changes and extreme weather events. Climate change can have a material adverse effect on the Company's operating results, financial situation and liquidity. Natural disasters, fires, bioterrorism, pandemics, droughts, changes in rainfall patterns or extreme weather conditions, including floods, extreme cold or heat, hurricanes or other storms, could harm the health or growth of livestock or interfere with the Company's operations through lack of energy, lack of fuel, damage to production and installations or interruption of means of transport, among other things. Any of these factors, as well as disruptions in our information systems, could have an adverse effect on our financial results. The adoption of good sustainability practices by JBS's raw material suppliers has a direct impact on the quality of its products. In this context, JBS seeks to act as a vector of transformation and innovation in the productive chains in which it participates, supporting and guiding its suppliers on the quality of the inputs produced and reducing the environmental impacts of their respective activities. JBS owns about 60% of the refrigeration units, and consequently the company's supply chain (more than 55% of the livestock supplier chain), located in the Legal Amazon region. In this way, the impact of an increase in Amazon deforestation rates can bring risks to the company by restricting the supply chain

F3.1b

(F3.1b) For your disclosed forest risk commodity(ies), provide details of risks identified with the potential to have a substantive financial or strategic impact on your business, and your response to those risks.

- **Forest risk commodity**: Timber

- **Type of risk**: Reputational and markets

- **Geographical scale**: Country

- **Where in your value chain does the risk driver occur?**: Direct operation

- **Primary risk driver**: Uncertainty about product origin and/or legality

- **Primary potential impact**: Brand damage

- **Company-specific description**: JBS is exposed to Reputational risks in a potential situation of purchasing timber from areas with illegal deforestation of native species that could adversely affect the company's image, with a large damage to its brand resulting in loss of markets, trade embargo and termination of contracts, especially in exportations to Europe and other particular markets. The side effects of these events would be a consequent revenue and profits decrease.

- **Timeframe**: 1-3 years

- **Magnitude of potential impact**: Medium

- **Likelihood**: Likely

- **Potential financial impact**

- **Explanation of financial impact**

- **Primary response to risk**: Engagement with suppliers
Description of response
The company has a Normative Instruction of Biomass Purchasing stating that only suppliers legalized by the competent environmental authorities are able to negotiate materials with JBS – 100% of the JBS timber suppliers are in comply with environmental standards. All environmental management of the biomass purchasing process is a responsibility of the environmental department of each operational unit. This includes management of the requirements Native Forest Consumer Registration and Forest Origin Document or other specific state requirement. JBS is one of the largest consumers of paper/cardboard in Brazil, as it uses the material to produce the packaging for its products. 100% of the paper/cardboard acquired has FSC certification, which is part of the selection criteria for suppliers of this material. In 2017, the company restructured its Compliance department. The area now has a Global Director, responsible for the implementation and supervision of initiatives in all regions of JBS. To that end, a new organizational structure was defined with the hiring of more resources to ensure that business practices ensure ethics and good conduct for all, as well as compliance with all internal laws, policies and procedures.

Cost of response
Explanation of cost of response
Deforestation issues are of high relevance to the company and are included in the JBS sustainability strategy. Possible financial impacts related to regulatory issues and costs related to the management of related risks are regularly verified by the company's sustainability area. In this sense, The Company has and follows a risk management policy whereby financial risks are regularly monitored and managed by the Risk Management Committee and by the Board of Directors in order to evaluate the results and the financial impact on the cash flow. Eventual failure to comply with laws and regulations may expose the company to situations that may impact the current demand for products or to acquire new businesses, and possibly subject it to administrative sanctions, damages, fines, injunctions, product recall or foreclosure of your property, as well as possible criminal penalties, any of these may adversely affect your financial results.

Forest risk commodity
Cattle Products

Type of risk
Regulatory

Geographical scale
Country

Where in your value chain does the risk driver occur?
Direct operation
Supply chain

Primary risk driver
Non-compliance with national legislation

Primary potential impact
Decrease in shareholder value

Company-specific description
According to JBS sustainability pillar of responsible purchase, Cattle suppliers included on the dirty lists published by the Ministry of Labour and IBAMA, and those whose land overlaps deforested areas, indigenous land or protected areas will be suspended by the company procurement system until they have remedied this situation. JBS Standards of cattle purchasing are expressed in the document “Minimum Criteria for Industrial – Scale Operations with Cattle and Beef Products in the Amazon Biome”, which states that the company must not acquire cattle from areas with illegal deforestation, cleared after 2009 in the Amazon Biome and located within protected areas. To make sure that suppliers are complying with these standards, there is a System for Social and Environmental Monitoring of Cattle Suppliers that works on geospatial analysis based on satellite images, farms georeferenced maps and deforestation data from the National Space Research Institute for -INPE. To ensure compliance with the JBS’s commitments, an independent party annually audits the System. According to the 2014, 2015, 2016 and 2017 independent audit results, the compliance level was 99.75%, 99.97%, 99.97% and 99.97% respectively. The 2018 audit results will be available on the JBS’s official website (http://www.jbs.com.br) In 2017, the company restructured its Compliance department. The area now has a Global Director, responsible for the implementation and supervision of initiatives.
Timeframe
1-3 years

Magnitude of potential impact
Medium-high

Likelihood
Likely

Potential financial impact

Explanation of financial impact

Primary response to risk
Greater traceability of forest-risk commodities

Description of response
JBS has a “Minimum Criteria for Industrial – Scale Operations with Cattle and Beef Products in the Amazon Biome”, which states that the company must not acquire cattle from areas with illegal deforestation, cleared after 2009 in the Amazon Biome and located within protected areas. To make sure that suppliers are complying with these standards, there is a System for Social and Environmental Monitoring of Cattle Suppliers that works on geospatial analysis based on satellite images, farms georeferenced maps and deforestation data from the National Space Research Institute for INPE. Along the supply chain, JBS supports projects which promotes sustainable practices to increase the productivity of farms in the Amazon region in order to develop a new operating model that preserves natural resources and that brings financial benefits to the ranchers in the region. JBS has been contributing to the development of differentiated bonus protocols, the opening of markets for products with social and environmental attributes, as well as support for training, earnings disclosure and fundraising for ongoing efforts. In 2017, the company restructured its Compliance department. In October 2017, JBS began to improve the practices of third party reputational assessment (Due Diligence). The Company hired expert advice on the subject to automate the process as much as possible. The project was divided into two phases, with phase one completed, with phase 2 completion expected in 2018.

Cost of response
2000000

Explanation of cost of response
Deforestation issues are of high relevance to the company and are included in the JBS sustainability strategy. Possible financial impacts related to regulatory issues and costs related to the management of related risks are regularly verified by the company’s sustainability area. In this sense, The Company has and follows a risk management policy whereby financial risks are regularly monitored and managed by the Risk Management Committee and by the Board of Directors in order to evaluate the results and the financial impact on the cash flow. Eventual failure to comply with laws and regulations may expose the company to situations that may impact the current demand for products or to acquire new businesses, and possibly subject it to administrative sanctions, damages, fines, injunctions, product recall or foreclosure of your property, as well as possible criminal penalties, any of these may adversely affect your financial results.

Forest risk commodity
Cattle Products

Type of risk
Physical

Geographical scale
Region

Where in your value chain does the risk driver occur?
Direct operation

Primary risk driver
Changes in precipitation patterns

Primary Risk Driver also applicable to this Question: scarce land resources

Primary potential impact
Increased production costs

Company-specific description
Deforestation of native forests, associated with climate change, can change agricultural conditions unpredictably. A significant change in weather patterns could affect the supply of raw material as well as the ability of the supply chain to raise animals.

Timeframe
1-3 years
Magnitude of potential impact
Medium-low

Likelihood
Please select

Potential financial impact

Explanation of financial impact

Primary response to risk
Please select

Description of response

JBS has a “Minimum Criteria for Industrial – Scale Operations with Cattle and Beef Products in the Amazon Biome”, which states that the company must not acquire cattle from areas with illegal deforestation, cleared after 2009 in the Amazon Biome and located within protected areas. To make sure that suppliers are complying with these standards, there is a System for Social and Environmental Monitoring of Cattle Suppliers that works on geospatial analysis based on satellite images, farms georeferenced maps and deforestation data from the National Space Research Institute for INPE. Along the supply chain, JBS supports projects which promotes sustainable practices to increase the productivity of farms in the Amazon region in order to develop a new operating model that preserves natural resources and that brings financial benefits to the ranchers in the region. JBS has been contributing to the development of differentiated bonus protocols, the opening of markets for products with social and environmental attributes, as well as support for training, earnings disclosure and fundraising for ongoing efforts. In 2017, the company restructured its Compliance department. In October 2017, JBS began to improve the practices of third party reputational assessment (Due Diligence). The Company hired expert advice on the subject to automate the process as much as possible. The project was divided into two phases, with phase one completed, with phase 2 completion expected in 2018.

Cost of response
2000000

Explanation of cost of response
Deforestation issues are of high relevance to the company and are included in the JBS sustainability strategy. Possible financial impacts related to regulatory issues and costs related to the management of related risks are regularly verified by the company’s sustainability area. In this sense, The Company has and follows a risk management policy whereby financial risks are regularly monitored and managed by the Risk Management Committee and by the Board of Directors in order to evaluate the results and the financial impact on the cash flow. Eventual failure to comply with laws and regulations may expose the company to situations that may impact the current demand for products or to acquire new businesses, and possibly subject it to administrative sanctions, damages, fines, injunctions, product recall or foreclosure of your property, as well as possible criminal penalties, any of these may adversely affect your financial results.

Forest risk commodity
Soy

Type of risk
Regulatory

Geographical scale
Country

Where in your value chain does the risk driver occur?
Direct operation
Supply chain

Primary risk driver
Moratoria and voluntary agreements

Primary potential impact
Brand damage

Company-specific description
According to JBS sustainability pillar of responsible purchase, suppliers included on the dirty lists published by the Ministry of Labour and IBAMA, and those whose land overlaps deforested areas, indigenous land or protected areas will be suspended by the company procurement system until they have remedied this situation. Along the supply chain, JBS supports projects which promotes sustainable practices to increase the productivity of farms in the Amazon region in order to develop a new operating model that preserves natural resources and that brings financial benefits to the ranchers in the region. JBS has been contributing to the development of differentiated bonus protocols, the opening of markets for products with social and environmental attributes, as well as support for training, earnings disclosure and fundraising for ongoing efforts. In 2017, the company restructured its Compliance department. The area now has a Global Director, responsible for the implementation and supervision of initiatives. To
that end, a new organizational structure was defined. In October 2017, JBS began to improve the practices of third party reputational assessment (Due Diligence). The Company hired expert advice on the subject to automate the process as much as possible. The project was divided into two phases, with phase one completed, with phase 2 completion expected in 2018.

**Timeframe**
1-3 years

**Magnitude of potential impact**
Medium-high

**Likelihood**
Likely

**Potential financial impact**

**Explanation of financial impact**

**Primary response to risk**
Greater compliance with regulatory requirements

**Description of response**
The company only purchases soy from suppliers that signed the Soy Moratorium. Thus, 100% of JBS soy suppliers, in Brazil, are in compliance with Soy Moratorium criteria. In 2017, the company restructured its Compliance department. The area now has a Global Director, responsible for the implementation and supervision of initiatives in all regions of JBS. To that end, a new organizational structure was defined with the hiring of more resources to ensure that business practices ensure ethics and good conduct for all, as well as compliance with all internal laws, policies and procedures. One of the pillars of action is Due Diligence. In October 2017, JBS began to improve the practices of third party reputational assessment (Due Diligence). Once performed manually for a few risk segments, the Company hired expert advice on the subject to automate the process as much as possible, with the expectation of increasing the volume of analysis. The project was divided into two phases, with phase one completed, with phase 2 completion expected in 2018. Currently, the segments mapped with relevant risks are analyzed, including any third party that needs a proxy to act on behalf of JBS.

**Cost of response**

**Explanation of cost of response**
Deforestation issues are of high relevance to the company and are included in the JBS sustainability strategy. Possible financial impacts related to regulatory issues and costs related to the management of related risks are regularly verified by the company’s sustainability area. In this sense, The Company has and follows a risk management policy whereby financial risks are regularly monitored and managed by the Risk Management Committee and by the Board of Directors in order to evaluate the results and the financial impact on the cash flow. Eventual failure to comply with laws and regulations may expose the company to situations that may impact the current demand for products or to acquire new businesses, and possibly subject it to administrative sanctions, damages, fines, injunctions, product recall or foreclosure of your property, as well as possible criminal penalties, any of these may adversely affect your financial results.

**Forest risk commodity**
Soy

**Type of risk**
Physical

**Geographical scale**
Region

**Where in your value chain does the risk driver occur?**
Direct operation
Supply chain

**Primary risk driver**
Increased severity of extreme weather events

**Primary potential impact**
Increased production costs

**Company-specific description**
Deforestation of native forests, associated with climate change, can change agricultural conditions unpredictably. A significant change in weather patterns could affect the supply of raw material

**Timeframe**
1-3 years
**Magnitude of potential impact**
Medium-high

**Likelihood**
Likely

**Potential financial impact**

**Explanation of financial impact**

**Primary response to risk**
Increased use of sustainably sourced materials

**Description of response**
The company only purchases soy from suppliers that signed the Soy Moratorium. Thus, 100% of JBS soy suppliers, in Brazil, are in compliance with Soy Moratorium criteria. In 2017, the company restructured its Compliance department. The area now has a Global Director, responsible for the implementation and supervision of initiatives in all regions of JBS. To that end, a new organizational structure was defined with the hiring of more resources to ensure that business practices ensure ethics and good conduct for all, as well as compliance with all internal laws, policies and procedures. One of the pillars of action is Due Diligence. In October 2017, JBS began to improve the practices of third party reputational assessment (Due Diligence). Once performed manually for a few risk segments, the Company hired expert advice on the subject to automate the process as much as possible, with the expectation of increasing the volume of analysis. The project was divided into two phases, with phase one completed, with phase 2 completion expected in 2018. Currently, the segments mapped with relevant risks are analyzed, including any third party that needs a proxy to act on behalf of JBS.

**Cost of response**

**Explanation of cost of response**
Deforestation issues are of high relevance to the company and are included in the JBS sustainability strategy. Possible financial impacts related to regulatory issues and costs related to the management of related risks are regularly verified by the company’s sustainability area. In this sense, The Company has and follows a risk management policy whereby financial risks are regularly monitored and managed by the Risk Management Committee and by the Board of Directors in order to evaluate the results and the financial impact on the cash flow. Eventual failure to comply with laws and regulations may expose the company to situations that may impact the current demand for products or to acquire new businesses, and possibly subject it to administrative sanctions, damages, fines, injunctions, product recall or foreclosure of your property, as well as possible criminal penalties, any of these may adversely affect your financial results.

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**F3.2**

(F3.2) Have you identified any forests-related opportunities with the potential to have a substantive financial or strategic impact on your business?

<table>
<thead>
<tr>
<th>Forest risk commodity</th>
<th>Have you identified opportunities?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber</td>
<td>Yes</td>
</tr>
<tr>
<td>Palm Oil</td>
<td>&lt;Not Applicable&gt;</td>
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<tr>
<td>Cattle products</td>
<td>Yes</td>
</tr>
<tr>
<td>Soy</td>
<td>Yes</td>
</tr>
<tr>
<td>Other - Rubber</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Other</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
</tbody>
</table>

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**F3.2a**

(F3.2a) For your selected forest risk commodity(ies), provide details of the identified opportunities with the potential to have a substantive financial or strategic impact on your business.

**Forest risk commodity**
Timber

**Type of opportunity**
Where in your value chain does the opportunity occur?
Direct operation
Supply chain

Primary forests-related opportunity
Increased efficiency of production and/or distribution processes

Financial incentives
<Not Applicable>

Company-specific description & strategy to realize opportunity
The verification of the supplier’s compliance to the company’s environmental and social criteria occurs in every purchase process. Besides, in 2015, JBS established a partnership with the Brazilian NGO Instituto Centro de Vida (ICV) on the New Field Program (Programa Novo Campo). The program promotes more sustainable production techniques at husbandry farms in the Amazon region to enhance productivity. It fosters the diversification of income sources through cultures rotation, pasture reform and practicing of integrated agriculture, livestock and forestry. It started with a group of 14 farms and the goal is to have its scope increased to 300 farms. Other opportunities are focused on the reduction of timber consumption, so the company can be less exposed to this commodity deforestation risk. Another strategy performed to realize the opportunity for efficiency regarding to the packages that previously were manufactured with two pieces – the bottom and top of the box started to be made with a single piece. A result of this initiative was a reduction of 41% on the use of cardboard, what accounts for more than 130 tonnes or 344,641 m² of the material. Additionally, the company has developed a Logistics Reverse project to recover and reuse of PBR pallets used in the transport and storage of finished product. In 2011, JBS began collecting the pallets from major wholesale chains for reuse. In 2012, the company’s logistics area began to restore the recovered pallets and, in 2013, the company was using them approximately six times. In 2016 700,000 units of pallets was restored, which is equivalent to 21,000 tonnes of reused wood – The 2017 results are in calculation phase. Farther, in 2015, JBS developed a project to reduce 2 cm in the length and width pallets, remaining its support capacity. As results, there were a reduction on the timber use and an increase of products transport efficiency. JBS has also developed a project of energy reuse from bovine rumen contents generated in the slaughter of cattle, thereby reducing the need for biomass (firewood) to burn in industrial boilers.

Estimated timeframe for realization
1-3 years

Magnitude of potential impact
Medium-high

Likelihood
Likely

Potential financial impact

Explanation of financial impact
Deforestation issues are of high relevance to the company and are included in the JBS sustainability strategy. Possible financial impacts related to regulatory issues and costs related to the management of related risks are regularly verified by the company’s sustainability area. In this sense, The Company has and follows a risk management policy whereby financial risks are regularly monitored and managed by the Risk Management Committee and by the Board of Directors in order to evaluate the results and the financial impact on the cash flow. Eventual situations may expose the company to scenarios that may impact the current demand for products or to acquire new products, and possibly subject it to administrative sanctions or fines, any of these may adversely affect your financial results.
JBS Beef Brazil

Through the New Field Program JBS promotes more sustainable production techniques at husbandry farms in the Amazon region. It has a strong approach on enhancing productivity through the diversification of income sources, cultures rotation, pasture reform and practicing of integrated agriculture, livestock and forestry. The Program contributes positively to the main environmental issue in the Amazon region, as it indirectly eliminates the need for more deforestation as it intensifies production in the same dimension of area. It started with a group of 14 farms and the goal is to increase its scope to 300 farms. As a 2015 consolidate result of the program, there were 32 farmers and 40 farms engaged by the program, which have a complete diagnosis and project; 20 farms are implementing the project since June/2012 or February/2015 and 20 farms are in the beginning of implementation. Production indicators are being used to measure de affectivity of the program. The follow numbers represent an average results of 6 pilot farms in the first year after GAP implementation. Results refer to the whole farm, where one 32 hectare module of intensification was installed, representing 5-10% of the total area of pastures: Reduction of methane emissions (from 353 to 180 gCH4/KgLW); Reduction of slaughtering age (from 44 to 34 for males and from 34 to 24 months for females); Increase in stocking density (from 1.22 to 1.61 animal units/ha); Increase in productivity (from 70 to 160 KgCW/ha/yr); Increase in gross margin (from 0-100 to 680 R$/ha/yr. • Reduction of about 20% in the production cycle of cattle; • Increase in productivity from 4.7@ to more than 10@/hectare/ year; • Improvement in the quality of the beef; and • Increase in income for producers.

A study of the New Field Program conducted by the Institute of Agricultural and Forest Management and Certification (Imaflora) in 2016, showed that under better conditions, the pasture offers the animal more quantity and quality of feed, Finally, it was verified that intensification techniques reduced GHG emissions by 20%, even with the additional GHG emissions through the application of pasture improvement inputs, which are offset by the reduction of enteric fermentation emissions of the animal, due to the reduction of the time of slaughter and nutritional quality.

**Estimated timeframe for realization**
1-3 years

**Magnitude of potential impact**
High

**Likelihood**
Likely

**Potential financial impact**

**Explanation of financial impact**
There is a increasing demand for products classified as deforestation free according to sustainable supply policies from large retail chains and large players in the food and restaurant sector. This is a growing demand of the market and companies that prepare themselves in this direction create a differential in their performance in compare to their competitors and consequently have a strong influence on the market.

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**Forest risk commodity**
Soy

**Type of opportunity**
Efficiency

**Where in your value chain does the opportunity occur?**
Direct operation
Supply chain

**Primary forests-related opportunity**
Increased efficiency of production and/or distribution processes

**Financial incentives**
<Not Applicable>

**Company-specific description & strategy to realize opportunity**
The Company believes that it can play an important role in preventing deforestation through responsible procurement. As part of this effort, it only purchases soybeans from suppliers that are signatories to the Soybean Moratorium, an initiative that works to ensure no soybeans come from illegal deforestation regions in the Amazon Biome. Since 2007, joining the Social Fuel Stamp program, JBS Biodiesel has already benefited more than 4,600 small grain producers through the acquisition of soybean. More information available in:https://jbs.com.br/imprensa/release/jbs-biodiesel-estreita-relacao-com-pequeno-pecuarista

**Estimated timeframe for realization**
1-3 years

**Magnitude of potential impact**
Medium-high

**Likelihood**
Likely
Potential financial impact

Explanation of financial impact
In general, for the soybean commodity, the company understands that the current management makes possible the reduction of soybean purchase risks related to deforestation areas.

F4. Governance

F4.1

(F4.1) Does your organization have a policy that includes forests-related issues?
Yes, we have a documented forests policy that is publicly available

F4.1a

(F4.1a) Select the options to describe the scope and content of your policy.

<table>
<thead>
<tr>
<th>Scope</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected facilities, businesses or geographies only</td>
<td>Commitment to avoiding deforestation and forest degradation Commitment to protect rights and livelihoods of local communities Commitment to transparency List of timebound commitments and targets</td>
</tr>
<tr>
<td></td>
<td>After developing procurement procedures to prevent deforestation, the company is also exposed to the lack of enough raw materials in compliance with the requirements it has set. To mitigate the risk of acquiring raw materials from suppliers involved in the deforestation of native forests, the invasion of protect areas, such indigenous land or environmental conservation units and the use of child or compulsory labour, JBS Brazil has adopted a Responsible Sourcing Policy that establishes social and environmental criteria for suppliers selection. The Company does not acquire animals from farms involved with deforestation of native forests, invasion of indigenous lands or environmental conservation areas, or that are embargoed by the Brazilian Institute of the Environment and Renewable Natural Resources (IBAMA). It also will not work with suppliers involved in rural violence or land conflicts, or who utilize slave or child labor To disseminate the policy internally, there is a constant internal communication work dedicated to the leaders and other employees, containing information on the JBS Responsible Purchase Policy, as well as communication campaigns - which are available on the Intranet and corporate news mailing - Socio-environmental monitoring of supplier farms. The theme is also addressed in the integration of new employees, as well as being widely disseminated in the annual conventions of the various JBS departments. For raw material purchasing teams, which are directly affected by vendor blocking / release, periodic training and documents describing the rules and procedures against the company's socio-environmental criteria are carried out through internal communication campaigns, in addition the most relevant information on strategic sustainability issues (including the supply chain - guarantee of origin) is disseminated, as well as information regarding to the annual audits of the Public Commitment on Livestock. In 2018, JBS will formalize a Responsible Purchase Policy, in addition to a policy compliance manual, which will be extended to its internal team.</td>
</tr>
</tbody>
</table>

F4.1b
(F4.1b) Do you have commodity specific sustainability policy(ies)? If yes, select the options that best describe their scope and content.

<table>
<thead>
<tr>
<th></th>
<th>Do you have a commodity specific sustainability policy?</th>
<th>Scope</th>
<th>Content</th>
<th>Please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber</td>
<td>No</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>JBS informs and guides its suppliers regarding its social and environmental criteria and tries to diversify its supply chain. To mitigate the risk of purchasing timber from suppliers involved in deforestation, JBS established a Normative Instruction of Biomass Purchasing, stating that only suppliers legalized by the competent environmental authorities are able to negotiate materials with the company.</td>
</tr>
<tr>
<td>Palm Oil</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Cattle Products</td>
<td>Yes</td>
<td>Selected facilities, businesses or geographies only</td>
<td>Commitment to avoiding deforestation and forest degradation, Commitment to transparency, Recognition of the overall importance of forests and other natural habitats, List of timebound commitments and targets</td>
<td>To mitigate the risk of acquiring raw materials from suppliers involved in the deforestation of native forests, the invasion of protect areas, such indigenous land or environmental conservation units and the use of child or compulsory labour, JBS Brazil has adopted a Responsible Sourcing Policy that establishes social and environmental criteria for suppliers selection. The Company does not acquire animals from farms involved with deforestation of native forests, invasion of indigenous lands or environmental conservation areas, or that are embargoed by the Brazilian Institute of the Environment and Renewable Natural Resources (IBAMA). It also will not work with suppliers involved in rural violence or land conflicts, or who utilize slave or child labor. In 2018, JBS will formalize a Responsible Purchase Policy, in addition to a policy compliance manual, which will be extended to its internal team.</td>
</tr>
<tr>
<td>Soy</td>
<td>Yes</td>
<td>Selected facilities, businesses or geographies only</td>
<td>Commitment to avoiding deforestation and forest degradation, Commitment to transparency, Recognition of the overall importance of forests and other natural habitats, List of timebound commitments and targets</td>
<td>JBS only purchases soy from suppliers that follows/meets the Soy Moratorium. The purchase from large suppliers that are part of the Brazilian Association of Vegetable Oils Industries (ABIOVE) and Brazilian National Association of Cereal Exporters (ANEC) guarantees that the commodity complies with the criteria established in the Soy Moratorium.</td>
</tr>
<tr>
<td>Other - Rubber</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Other</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
</tbody>
</table>

(F4.2) Is there board-level oversight of forests-related issues within your organization?
Yes

F4.2a
(F4.2a) Identify the position(s) of the individual(s) on the board with responsibility for forests-related issues.

<table>
<thead>
<tr>
<th>Position of individual</th>
<th>Please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director on board</td>
<td>Sustainability Committee, which is responsible for dealing with and connecting all topics related to the company's business in an overall perspective. This role includes the identification, addressing and treatment of critical issues that result in risks or business impact, monitoring and implementation of policies, strategies and specific initiatives, as well as the evaluation of proposals of investments in sustainability. As the Sustainability Committee is composed of six members from the company’s top management, including the two presidents and the COO Global (Chief Operating Officer), a comprehensive analysis can be performed as part of the deforestation risk assessment procedures.</td>
</tr>
</tbody>
</table>

F4.2b

(F4.2b) Provide further details on the board’s oversight of forests-related issues.

<table>
<thead>
<tr>
<th>Frequency that forests-related issues are a scheduled agenda item</th>
<th>Governance mechanisms into which forests-related issues are integrated</th>
<th>Please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scheduled - all meetings</td>
<td>Monitoring implementation and performance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Overseeing acquisitions and divestiture</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reviewing and guiding annual budgets</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reviewing and guiding business plans</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reviewing and guiding corporate responsibility strategy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reviewing and guiding major plans of action</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reviewing and guiding risk management policies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reviewing and guiding strategy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Setting performance objectives</td>
<td></td>
</tr>
</tbody>
</table>

JBS has five multidisciplinary non-statutory committees working with the company’s management in order to support the Board of Directors and make the company’s processes more robust. One of these committees is the Sustainability Committee, responsible for dealing with and connecting all topics related to the company’s business in a global perspective. This role includes the identification, addressing and treatment of critical issues that result in risks or business impact; monitoring and implementation of policies, strategies and specific initiatives; and evaluation of proposals of investments in sustainability. It is composed by six members from the company’s top management. Among the responsibilities of the Sustainability Committee, there is the monitoring of the results of the procurement system.

F4.3
(F4.3) Below board level, provide the highest-level management position(s) or committee(s) with responsibility for forests-related issues.

<table>
<thead>
<tr>
<th>Name of the position(s) and/or committee(s)</th>
<th>Responsibility</th>
<th>Frequency of reporting to the board on forests-related issues</th>
<th>Please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chief Operating Officer (COO)</td>
<td>Both assessing and managing forests-related risks and opportunities</td>
<td>More frequently than quarterly</td>
<td>The Sustainability Committee is responsible for dealing with and connecting all topics related to the company's business in an overall perspective. This role includes the identification, addressing and treatment of critical issues that result in risks or business impact, monitoring and implementation of policies, strategies and specific initiatives, as well as the evaluation of proposals of investments in sustainability. The information is handled weekly between the Business Unit Presidency and Board of Directors. The Sustainability Committee meets quarterly</td>
</tr>
<tr>
<td>Chief Sustainability Officer (CSO)</td>
<td>Both assessing and managing forests-related risks and opportunities</td>
<td>More frequently than quarterly</td>
<td>The Sustainability Committee is responsible for dealing with and connecting all topics related to the company's business in an overall perspective. This role includes the identification, addressing and treatment of critical issues that result in risks or business impact, monitoring and implementation of policies, strategies and specific initiatives, as well as the evaluation of proposals of investments in sustainability. The information is handled weekly between the Business Unit Presidency and Board of Directors. The Sustainability Committee meets quarterly</td>
</tr>
<tr>
<td>President</td>
<td>Both assessing and managing forests-related risks and opportunities</td>
<td>More frequently than quarterly</td>
<td>The Sustainability Committee is responsible for dealing with and connecting all topics related to the company's business in an overall perspective. This role includes the identification, addressing and treatment of critical issues that result in risks or business impact, monitoring and implementation of policies, strategies and specific initiatives, as well as the evaluation of proposals of investments in sustainability. The information is handled weekly between the Business Unit Presidency and Board of Directors. The Sustainability Committee meets quarterly</td>
</tr>
<tr>
<td>Sustainably committee</td>
<td>Both assessing and managing forests-related risks and opportunities</td>
<td>More frequently than quarterly</td>
<td>The Sustainability Committee is responsible for dealing with and connecting all topics related to the company's business in an overall perspective. This role includes the identification, addressing and treatment of critical issues that result in risks or business impact, monitoring and implementation of policies, strategies and specific initiatives, as well as the evaluation of proposals of investments in sustainability. The information is handled weekly between the Business Unit Presidency and Board of Directors. The Sustainability Committee meets quarterly</td>
</tr>
<tr>
<td>Environment/Sustainability manager</td>
<td>Both assessing and managing forests-related risks and opportunities</td>
<td>More frequently than quarterly</td>
<td>The Sustainability Committee is responsible for dealing with and connecting all topics related to the company's business in an overall perspective. This role includes the identification, addressing and treatment of critical issues that result in risks or business impact, monitoring and implementation of policies, strategies and specific initiatives, as well as the evaluation of proposals of investments in sustainability. The information is handled weekly between the Business Unit Presidency and Board of Directors. The Sustainability Committee meets quarterly</td>
</tr>
<tr>
<td>Procurement manager</td>
<td>Both assessing and managing forests-related risks and opportunities</td>
<td>More frequently than quarterly</td>
<td>The Sustainability Committee is responsible for dealing with and connecting all topics related to the company's business in an overall perspective. This role includes the identification, addressing and treatment of critical issues that result in risks or business impact, monitoring and implementation of policies, strategies and specific initiatives, as well as the evaluation of proposals of investments in sustainability. The information is handled weekly between the Business Unit Presidency and Board of Directors. The Sustainability Committee meets quarterly</td>
</tr>
</tbody>
</table>

(F4.4) Do you provide incentives to C-suite employees or board members for the management of forests-related issues?
Yes

F4.4a
(F4.4a) What incentives are provided to C-Suite employees or board members for the management of forests-related issues?

<table>
<thead>
<tr>
<th>Who is entitled to benefit from these incentives?</th>
<th>Indicator for incentivized performance</th>
<th>Please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monetary reward</td>
<td>Achievement of commitments and targets Supply chain engagement</td>
<td>The objective of each element of management compensation is to encourage the alignment of interests of managers with the Company's goals, in order to stimulate their commitment and also to attract and retain highly qualified professionals. The variable remuneration takes into consideration the net income determined by the Company, as well as an individual performance evaluation process, model 360° in which the performance and behavioral results are verified in the activity.</td>
</tr>
<tr>
<td>Recognition (non-monetary)</td>
<td>Achievement of commitments and targets Supply chain engagement</td>
<td>Internal recognition (individual and area)</td>
</tr>
<tr>
<td>Other non-monetary reward</td>
<td>Please select</td>
<td>Please select</td>
</tr>
</tbody>
</table>

F5. Business strategy

F5.1

(F5.1) Are forests-related issues integrated into any aspects of your long-term strategic business plan, and if so how?

<table>
<thead>
<tr>
<th>Are forests-related issues integrated?</th>
<th>Long-term time horizon (years)</th>
<th>Please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term business objectives</td>
<td></td>
<td>JBS owns approximately 60% of the refrigerating units, and consequently the chain of cattle suppliers of the company, located in the region of Legal Amazon. Thus, the impact of an increase in deforestation rates in the Amazon can bring risks to the company by restricting the supply chain. In this way, the company operates in communication campaigns and supplier engagement, aiming to make sustainability policy more transparent, as well as developing and supporting projects for environmental regularization of properties with restrictions. In addition to improving the relationship with potential suppliers, which will be able to meet production demand and respect JBS's socio-environmental criteria.</td>
</tr>
<tr>
<td>Strategy for long-term objectives</td>
<td></td>
<td>JBS owns approximately 60% of the refrigerating units, and consequently the chain of cattle suppliers of the company, located in the region of Legal Amazon. Thus, the impact of an increase in deforestation rates in the Amazon can bring risks to the company by restricting the supply chain. In this way, the company operates in communication campaigns and supplier engagement, aiming to make sustainability policy more transparent, as well as developing and supporting projects for environmental regularization of properties with restrictions. In addition to improving the relationship with potential suppliers, which will be able to meet production demand and respect JBS's socio-environmental criteria.</td>
</tr>
<tr>
<td>Financial planning</td>
<td></td>
<td>The profitability of the food industry is significantly affected by the commodity prices of food ingredients such as corn and soy, which are determined by factors of supply and demand. As a result, industry gains are subject to cyclical fluctuations, depending on the costs of their inputs. The production of food ingredients is positively or negatively affected, mainly by the global stock level and demand for food ingredients, by the agricultural policies of the United States, Brazil and other countries, by the climatic patterns around the world and by policies of sustainable purchases (soy and cattle moratorium). Deforestation of native forests, associated with climate change, can change agricultural conditions unpredictably. A significant change in weather patterns could affect the supply of raw material as well as the ability of the supply chain to raise animals. The changes can also have a positive impact, allowing localities to improve agricultural production conditions, thus creating an increase in productivity, positively affecting the whole chain.</td>
</tr>
</tbody>
</table>

F6. Implementation
F6.1

(F6.1) Has your organization made a public commitment to reduce or remove deforestation and/or forest degradation from its direct operations and/or supply chain?
Yes

F6.1a

(F6.1a) Has your organization endorsed any of the following initiatives as part of its public commitment to reduce or remove deforestation and/or forest degradation?
Other, please specify (Livestock Public Commitment)

F6.1b

(F6.1b) Provide details on your public commitment(s), including the description of specific criteria, coverage, and actions.

Commodity coverage
Timber

Criteria
No sourcing of illegally produced and/or traded forest risk commodities
No sourcing of forest risk commodities from unknown/controversial sources
Restricting the sourcing and/or trade of forest risk commodities to credible certified sources

Operational coverage
Supply chain

% of total production/consumption covered by commitment
100%

Commitment timeframe
>2030

Please explain
JBS only uses cardboard certified by Forest Stewardship Council (FSC), which is also a permanent commitment and certifies that the raw material used in the production of its packaging comes from forests maintained and managed responsibly, thus ensuring the best environmental practices throughout the productive process. In this way, by purchasing the certified material we ensure that the forests from which the raw material is derived were exploited in accordance with all existing laws, in an ecologically correct, socially just and economically viable way. In the case of wood (biomass used as fuel for industrial boilers) 100% of timber suppliers have to present the Forest Origin Document, which is a mandatory license established by the Ministry of the Environment (MMA) for the control of native forestry product and sub product transportation and commercialization. It presents information on the origin, destination, quantity and purpose of transportation.

Commodity coverage
Cattle Products

Criteria
Zero gross deforestation and forest degradation

Operational coverage
Supply chain

% of total production/consumption covered by commitment
100%

Commitment timeframe
>2030

Please explain
In 2009, JBS made a public commitment to not purchase cattle from ranches responsible for deforestation of the Amazon Biome region after Oct 2009, which is a permanent commitment. To ensure compliance, in 2010 JBS began to develop a social and environmental monitoring system for the farms that supply livestock to the company. JBS’s social and environmental monitoring system for cattle suppliers is composed of 2 integrated mechanisms of analysis. The first verifies the existence of the farm or livestock supplier in the lists published by the Ministry of Labour and Employment (MTE) – Registry of Employers Fined for Compulsory Labour and the list of areas embargoed due to illegal deforestation published by the Brazilian Institute of the Environment and Renewable Natural Resources (IBAMA). The second one uses a geographic information system (GIS) for the geo-spatial monitoring of farms supplying the company with livestock located in the Legal Amazon region, in order to identify suppliers involved in the deforestation of native forests after Oct 2009, the invasion of indigenous lands or environmental conservation units. To comply with the commitment, the System for livestock supplier farms is audited annually, and the results are published on JBS’s website. JBS has improved its Monitoring System in a joint effort with the Departments of Sustainability, Cattle Sourcing and Information Technology, and with the support of a specialized consulting firm, considering the magnitude of transactions that occur on a daily basis, representing automated analysis of more than 70,000 farms.

Commodity coverage

Soy

Criteria

Zero gross deforestation and forest degradation

Operational coverage

Supply chain

% of total production/ consumption covered by commitment

100%

Commitment timeframe

>2030

Please explain

JBS only purchases soy from suppliers that follow the Soy Moratorium, which is a permanent commitment. In July 2006, the Brazilian Association of Vegetable Oils Industries - ABIOVE and the Brazilian Association of Cereal Exporters - ANEC pledged not to market or finance the soybeans produced in areas that were deforested in the Amazon Biome after that date. The Moratorium responded to the questioning of environmental groups and clients from Brazil abroad that started to promote arrangements to generate new sustainable rules for the cultivation and commercialization of soybeans. The monitoring of the Soy Moratorium produced evidence that the soy have a negligible participation in the deforestation that occurred after July 2006 and that the expansion of the Brazilian soybean is not an important vector of deforestation in the Amazon Biome.

F6.2

(F6.2) Did you have any quantified targets for increasing sustainable production and/or consumption of your disclosed commodity(ies) that were active during the reporting year?

Yes

F6.2a

(F6.2a) Provide details of your target(s) for increasing sustainable production and/or consumption of the disclosed commodity(ies), and progress made.

Target reference number

Target 1

Forest risk commodity

Timber

Form of commodity covered

Secondary packaging

Type of target

Sustainable procurement standard
**Coverage**
Supply chain

**Traceability point**
<Not Applicable>

**Third-party certification scheme**
<Not Applicable>

**Start year**
2015

**Start figure**
100%

**Target year**
2017

**Target**
100%

**% achieved**
100%

**Please explain**

JBS is one of the largest consumers of paper/cardboard in Brazil, as it uses the material to produce the packaging for its products. 100% of the paper/cardboard acquired has FSC certification, which is part of the selection criteria for suppliers of this material. JBS has a target to 100% of timber purchases comply with the criteria established in JBS Environmental Policy. Since FSC certification is a purchasing criteria, 100% of the product / suppliers are in agreement with this criteria.

**Target reference number**
Target 1

**Forest risk commodity**
Cattle Products

**Form of commodity covered**
Hides/ leather
Other, please specify

**Type of target**
Sustainable production standard

**Coverage**
Direct operations

**Traceability point**
<Not Applicable>

**Third-party certification scheme**
<Not Applicable>

**Start year**
2012

**Start figure**
41-50%

**Target year**
2018

**Target**
100%

**% achieved**
100%

**Please explain**

The company has 16 certified units, 14 of them with gold medals and two with silver medals, all with "A" marks in traceability. The production of these certified units represent 100% of the JBS leather (Brazil). JBS has a target to 100% of cattle products...
purchases comply with the criteria established in JBS Environmental Policy. Additionally, JBS has made a public social commitment to not purchase cattle from farms responsible for deforestation in the Amazon Biome region after October 2009. To ensure compliance with this commitment, in 2010 JBS developed a social and environmental monitoring system for farms that supply livestock to JBS. It works in an integrated way. The first one works on a daily download of public agencies IBAMA and MTE dirty lists and a crosschecking of suppliers taxpayer numbers database against them. The second process analyses cattle farms in the Brazilian Legal Amazon based on geographical information. It performs by daily geo monitoring through the digital overlay of georeferenced maps of cattle supplier properties and deforestation maps published by National Space Research Institute (INPE) combined with official data from National Indigenous Foundation (FUNAI) and National Conservation Units System (SNUC). The suppliers, which aren’t in comply with one or both process, are automatically blocked in the Enterprise Resource Planning System (ERP) and no purchasing operations are made.

<table>
<thead>
<tr>
<th>Target reference number</th>
<th>Target 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest risk commodity</td>
<td>Soy</td>
</tr>
<tr>
<td>Form of commodity covered</td>
<td>Soy bean meal</td>
</tr>
<tr>
<td>Type of target</td>
<td>Other, please specify (Soy Moratorium)</td>
</tr>
<tr>
<td>Coverage</td>
<td>Supply chain</td>
</tr>
<tr>
<td>Traceability point</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Third-party certification scheme</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Start year</td>
<td>2017</td>
</tr>
<tr>
<td>Start figure</td>
<td>100%</td>
</tr>
<tr>
<td>Target year</td>
<td>2017</td>
</tr>
<tr>
<td>Target</td>
<td>100%</td>
</tr>
<tr>
<td>% achieved</td>
<td>100%</td>
</tr>
</tbody>
</table>

Please explain
JBS has a target to 100% of soybean purchases comply with the criteria established in JBS Environmental Policy. Additionally, JBS only purchases soybeans from suppliers that are signatories to the Soybean Moratorium to ensure that no soybeans come from illegal deforestation regions in the Amazon Biome.

(F6.3) Do you have traceability system(s) in place to track and monitor the origin of your disclosed commodity(ies)?

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Do you have system(s) in place?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber</td>
<td>Yes</td>
</tr>
<tr>
<td>Palm Oil</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Cattle products</td>
<td>Yes</td>
</tr>
<tr>
<td>Soy</td>
<td>Yes</td>
</tr>
<tr>
<td>Other - Rubber</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Other</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
</tbody>
</table>
F6.3a

(F6.3a) Provide details on the level of traceability your organization has for your disclosed commodity(ies).

<table>
<thead>
<tr>
<th>Commodity</th>
<th>% of total production/consumption volume traceable</th>
<th>Point to which commodity is traceable</th>
<th>Description of traceability system</th>
<th>Exclusions</th>
<th>Description of exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber</td>
<td>100%</td>
<td>Region</td>
<td>JBS has information of its commodities supply chain location. This information can be generated by the company’s ERP (Enterprise Resource Planning System), which has the records of all suppliers including legal person/entity tax payer’s numbers and location. All procurement invoices come with information of the product origin.</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Palm Oil</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Cattle products</td>
<td>100%</td>
<td>Farm</td>
<td>JBS has information of its cattle direct suppliers in the company’s ERP (Enterprise Resource Planning System), which has the records of all direct suppliers including legal person/entity tax payer’s numbers and location. Another traceability mechanism is the System for Social and Environmental Monitoring of Cattle Suppliers. This system uses satellite images, farms georeferenced maps, deforestation data from the National Institute for Space Research (INPE) and official public agencies dirty lists of embargoed areas and person/entities involved in slave labor to identify and block supplier farms showing any non-compliance related to deforesting or slave labor. To perform geospatial analysis of Amazon biome cattle direct suppliers and identify if they are using deforested lands after 2009, JBS has a database of the farms maps that are transposed to a technological system based on geographic information (GIS). The system performs daily monitoring through overlaying of farms georeferenced maps against maps of deforestation areas trends published by INPE. In addition, official maps of indigenous lands and protected areas in the Legal Amazon region are also used.</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Soy</td>
<td>100%</td>
<td>Region</td>
<td>JBS has information of its commodities supply chain location. This information can be generated by the company’s ERP (Enterprise Resource Planning System), which has the records of all direct suppliers including legal person/entity tax payer’s numbers and location. All procurement invoices come with information of the product origin.</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Other - Rubber</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Other</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
</tbody>
</table>

F6.4

(F6.4) Do you specify any third-party certification schemes for your disclosed commodity(ies)? Indicate the volume and percentage of your production and/or consumption covered.

**Forest risk commodity**

**Timber**

Do you specify any certification scheme?

Yes

**Third-party certification scheme**

FSC Chain of Custody

% of total production/consumption volume certified

100

**Form of commodity**

Secondary packaging

**Volume of production/consumption certified**

180

**Metric**
Please explain
JBS purchase cardboard (used in packaging) and paper in general (office use) only from certified suppliers by FSC (Forest Stewardship Council) in the form Chain of Custody. The use of cardboard in JBS operations is significant, since the products are stored and sold in secondary packaging made of it. JBS purchase pallets PBR (Brazilian pallet pattern) certified by ABRAS (Brazilian Association of Supermarkets).

**Forest risk commodity**
Cattle products

**Do you specify any certification scheme?**
Yes

**Third-party certification scheme**
Other, please specify (Leather Working Group (LWG))

**% of total production/consumption volume certified**
100

**Form of commodity**
Hides/ leather

**Volume of production/ consumption certified**
550934

**Metric**
Other, please specify (tons)

**Please explain**
In Brazil, the company has 16 certified units, 14 of them with gold medals and two with silver medals, all with "A" marks in traceability. The production of these certified units represent 100% of the JBS leather.

**Forest risk commodity**
Soy

**Do you specify any certification scheme?**
Yes

**Third-party certification scheme**
Other, please specify (Soy Moratorium FGV/GVces)

**% of total production/consumption volume certified**
100

**Form of commodity**
Other, please specify (Soy Moratorium)

**Volume of production/ consumption certified**
1797096

**Metric**
Other, please specify (Tons)

**Please explain**
The company only purchases soy from suppliers that signed the Soy Moratorium. In 2016, JBS joined the Applied Life Cycle (CiViA) initiative of the Getúlio Vargas Foundation's Center for Sustainability Studies (FGV), with the objective of incorporating the quantification and management of the environmental impacts of products and services through the life cycle. Two pilot projects were developed (PicanhaMaturattaFriboi and chicken from Seara), considering the carbon emissions and water consumption of all stages of production until the use and disposal of the final consumer. These projects have allowed the company a new look at the product, identifying the most representative production phases of environmental impacts and the related opportunities. Deforestation may be directly related to the carbon footprint of the products, since deforestation for livestock production or soybean production (cattle and poultry feed) may represent a large share of the emissions from land use change.
(F6.5) Do you specify any sustainable production/procurement standards for your disclosed commodity(ies), other than third-party certification? Indicate the percentage of production/consumption covered and if you monitor supplier compliance with these standards.

<table>
<thead>
<tr>
<th>Forest risk commodity</th>
<th>Timber</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Do you specify any sustainability standards?</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Type of standard</strong></td>
<td>Procurement</td>
</tr>
<tr>
<td><strong>Description of standard</strong></td>
<td>The company has a Normative Instruction of Biomass Purchasing stating that only suppliers legalized by the competent environmental authorities are able to negotiate materials with JBS – 100% of the JBS timber suppliers are in comply with environmental standards. Moreover, before conducting the registration of biomass supplier, an environmental and social analysis must be performed based on IBAMA (Brazilian Environment and Natural Resources Institute) and MTE (Ministry of Labour) public dirty lists that show respectively, legal persons and entities with embargoed areas due to illegal deforestation/inappropriate land use and that are involved in slave labour. All environmental management of the biomass purchasing process is a responsibility of the environmental department of each operational unit. This includes management of the requirements Native Forest Consumer Registration and Forest Origin Document or other specific state requirement. JBS is one of the largest consumers of paper/cardboard in Brazil, as it uses the material to produce the packaging for its products. 100% of the paper/cardboard acquired has FSC certification, which is part of the selection criteria for suppliers of this material and covers the entire chain. Considering that 100% of cardboard bought by JBS is certified, all cardboard chain is covered.</td>
</tr>
<tr>
<td><strong>% of total commodity volume covered by standard</strong></td>
<td>100%</td>
</tr>
<tr>
<td><strong>Do you have a system in place to monitor compliance with this standard?</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Type(s) of monitoring system</strong></td>
<td>Other, please specify (Verification of supplier’s compliance)</td>
</tr>
<tr>
<td><strong>% of suppliers in compliance with standards</strong></td>
<td>100%</td>
</tr>
<tr>
<td><strong>Please explain</strong></td>
<td>An important requirement from JBS to its suppliers is the Forest Origin Document, which is a mandatory license for the control of native forestry product and sub product transportation and commercialization. It presents information on the origin, destiny, quantity and purpose of transportation. When biomass is sourced from native species, it must be accompanied by a Forest Origin Document. Furthermore, before conducting the registration of biomass supplier, an environmental and social analysis must be performed based on IBAMA and Ministry of labor (MTE) public dirty lists that shows respectively, legal persons and entities with embargoed areas due to illegal deforestation/inappropriate land use and that are involved in slave labor. Thus, 100% purchase suppliers and criteria are evaluated according to normative Instruction for buying biomass.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Forest risk commodity</th>
<th>Cattle Products</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Do you specify any sustainability standards?</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Type of standard</strong></td>
<td>Procurement</td>
</tr>
<tr>
<td><strong>Description of standard</strong></td>
<td>According to JBS sustainability pillar of responsible purchase, Cattle suppliers included on the dirty lists published by the Ministry of Labour and IBAMA, and those whose land overlaps deforested areas, indigenous land or protected areas will be suspended by the company procurement system until they have remedied this situation. JBS Standards of cattle purchasing are expressed in the document “Minimum Criteria for Industrial – Scale Operations with Cattle and Beef Products in the Amazon Biome”, which states that the company must not acquire cattle from areas with illegal deforestation, cleared after 2009 in the Amazon Biome and located within protected areas. To make sure that suppliers are complying with these standards, there is a System for Social and Environmental Monitoring of Cattle Suppliers that works on geospatial analysis based on satellite images, farms georeferenced maps and deforestation data from the National Space Research Institute for –INPE, which cover the whole direct operations. To ensure compliance with the JBS’s commitments, an independent party annually audits the System. According to the 2014, 2015, 2016 and 2017 independent audit results, the compliance level was 99.75%, 99, 97%, 99.97% and 99.97% respectively. The 2018</td>
</tr>
</tbody>
</table>
audit results will be available on the JBS’s official website (http://www.jbs.com.br) in second half of 2018. Along the supply chain, JBS supports projects such as the New Field Program, which promotes sustainable practices to increase the productivity of farms in the Amazon region in order to develop a new operating model that preserves natural resources and that brings financial benefits to the ranchers in the region. The goal of the program is to increase its scope to serve 300 farms in the Alta Floresta (MT) region. Note that in addition to the ongoing encouragement of increases in income and productivity, this includes other objectives, such as the strengthening of the local economy, reduced deforestation, and the recovery and preservation of natural resources. JBS has been contributing to the development of differentiated bonus protocols, the opening of markets for products with social and environmental attributes, as well as support for training, earnings disclosure and fundraising for ongoing efforts.

% of total commodity volume covered by standard
100%

Do you have a system in place to monitor compliance with this standard?
Yes

Type(s) of monitoring system
Geographic Information System (GIS)
Auditing
Third-party auditing

% of suppliers in compliance with standards
100%

Please explain
JBS has made a public and social commitment to not purchase cattle from ranches that are responsible for deforestation inside the Amazon Biome region after Oct 2009, as well as those that use labour analogous to slavery or that are located in indigenous lands or environmental conservation areas. The public agreement that establishes criteria for cattle purchases from properties located in the Amazon Biome region is entitled “Minimum Criteria for Industrial-Scale Operations with Cattle and Beef Products in the Amazon Biome” To comply with the commitment, JBS has developed a monitoring system, which is comprised of 2 analysis procedures. One involves a geospatial monitoring that performs the digital overlay of georeferenced cattle farms maps across official data of deforestation, including protected areas maps, such environmental conservation units and indigenous lands. The second performs the intersection of the registration data of the Company's cattle suppliers with the information from the public lists of areas embargoed by IBAMA - by illegal deforestation – and employers who used work practices that are degrading or analogous to slavery, according the Ministry of labour (MTE). An Independent audit is annually provided on the system basis, the results are available on JBS’s website. According to the 2014, 2015, 2016 and 2017 audit results, the compliance level was 99.75%, 99.97%, 99, 97% and 99.97% respectively. The 2018 audit results will be available on the JBS’s official website (http://www.jbs.com.br) in second half of 2018. In addition, JBS has at least one pair of geographic coordinates of the supplier properties with which the company negotiated. It is important to mention that the JBS has made every effort to increase the number of suppliers that have digital maps of their properties. JBS manage the Legal Supplier Program, which helps JBS suppliers to regularize their CAR (Rural Environmental Registry). Through this program, JBS hires specialized consultants to advise its suppliers on the regularization process.

Forest risk commodity
Soy

Do you specify any sustainability standards?
Yes

Type of standard
Procurement

Description of standard
The company only purchases soy from suppliers that signed the Soy Moratorium. Thus, 100% of JBS soy suppliers are in compliance with Soy Moratorium criteria. This standard cover the whole purchasing operations.
Please explain
JBS only purchases soy from suppliers that are signatories of the Soybean Moratorium, an initiative that works to ensure that no soybeans come from illegal deforestation regions in the Amazon Biome. Thus, 100% purchase suppliers and criteria are evaluated according to Soy Moratorium criteria.

F6.6

(F6.6) Are you working with smallholders to encourage and support best practices that aim to reduce or remove deforestation/forest degradation?

<table>
<thead>
<tr>
<th>Are you working with smallholders?</th>
<th>Please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber</td>
<td>Regarding its supply chain, JBS has made significant environmental progress. One of the highlights was the partnership established under the New Field Program. The program promotes more sustainable production techniques at husbandry farms in the Amazon region proposing a crop-livestock-forest integration, as alternative source of income. In this sense, one of the program’s objectives is to promote the diversification of income sources, through the planting of trees with commercial value.</td>
</tr>
<tr>
<td>Palm Oil</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Cattle products</td>
<td>JBS Biodiesel has been supporting the Selo Combustível Social program for nine years, that was developed by the Brazilian Federal Government aiming to offer a production purchase guarantee to small farmer by biodiesel companies. As currently, bovine fat is the second most important source of raw material for biodiesel production in Brazil, the government included livestock as part of the program, which benefits the family livestock and small producers. “ In 2017, JBS Biodiesel was structured to extend these benefits to the small farmer in São Miguel do Guaporé’s region, Rondônia. Moreover, JBS develops and participates in several initiatives aimed at engaging with smallholders, as follows: The New Field program: as mentioned before; Conexão Gestão: JBS has been working with a chain of suppliers to enable producers to improve production through production management. The initiative, called Connection Program provides livestock breeders with commercial training, helping to increase the efficiency of the beef chain. In partnership with the Instituto Integra and through a platform, the program intended to build a stronger relationship between the producer and the value chain by providing information on meat processing, marketing and sales. - Participations in fair and events: Since 2012, JBS has developed and implemented several actions in order to improve the relationship between the industry and the cattle rancher. - Canal Rural –Girodo Boi: A daily TV program for cattle breeders broadcast on the Rural Channel. The main highlight is the Brazil Tour, with information on daily prices JBS practices throughout the country. The program audience is 43% of JBS livestock suppliers. JBS got involved in the Sustainable Livestock Indicators Guide (GIPS) construction, developed by the Brazilian Roundtable on Sustainable Livestock (GTPS), which can be applied to small farms. The tool contains themes such as Business Management, Communities, Workers, Environment and Value Chain. In GIPS criterion 4.9, issues related to deforestation are assessed.</td>
</tr>
<tr>
<td>Soy</td>
<td>Seara has a dedicated technical team to monitor poultry and pork producers, providing technical assistance for responsible production and guidance regarding Good Practices. In order to guide about management of production, Seara has a team of more than 300 extension agents, who accompany the producers with frequent visits in production offering assistance for responsible production considering the required quality standards and the principles of Animal Welfare. These extensionists also verify the environmental practices adopted in the farms and breeding sites provided in contracts, in order to ensure that they are in line with the guidelines given by Seara, which include, for example, the use of cisterns to collect rainwater, biodigesters and Composting. The visits also include orientations to increase productivity using fewer resources. So on, JBS seeks to produce animal feed with a better nutritional balance so that the producer can gain efficiency with less soy use, what decreases the commodity risks for the company. JBS Biodiesel has been supporting the Selo Combustível Social program for nine years, that was developed by the Brazilian Federal Government aiming to offer a production purchase guarantee to small farmer by biodiesel companies. In this sense, JBS offers support to small producers through a technical team that goes to the field to encourage and instruct them on the advantages of joining the program. Since 2007, joining the Social Fuel Stamp program, JBS Biodiesel has already benefited more than 4,600 small grain producers through the acquisition of soybean. More information available in:<a href="https://jbs.com.br/impressa/release/jbs-biodiesel-estreita-relacao-com-pequeno-pecuarista/">https://jbs.com.br/impressa/release/jbs-biodiesel-estreita-relacao-com-pequeno-pecuarista/</a></td>
</tr>
<tr>
<td>Other - Rubber</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Other</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
</tbody>
</table>

F6.7
(F6.7) Are you working with your direct suppliers to support and improve their capacity to supply sustainable raw materials?

<table>
<thead>
<tr>
<th>Material</th>
<th>Are you working with direct suppliers?</th>
<th>Supplier engagement approach</th>
<th>Please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber</td>
<td>Yes, working with direct suppliers</td>
<td>Encouraging certification</td>
<td>Supplier questionnaires on environmental and social indicators Workshops and training Joint projects Other, please specify (Customer engagement) • Encouraging certification: In establishing the purchase criteria of certified suppliers, JBS encourages the market to obtain certifications. • Supplier questionnaires on environmental and social indicators: JBS invited cardboard suppliers to participate and respond to the CDP Supply Chain Forests questionnaire, developed by CDP exclusively for companies to evaluate and stimulate their suppliers, considers the policies, strategies, management of opportunities and risks in relation to the actions of combating deforestation in the production of agricultural commodities. • Workshops and training: In 2017, JBS invited cardboard suppliers to participate and respond to the CDP Supply Chain Forests questionnaire, developed by CDP exclusively for companies to evaluate and stimulate their suppliers, considers the policies, strategies, management of opportunities and risks in relation to the actions of combating deforestation in the production of agricultural commodities. • Customer engagement: CDP, in partnership with JBS, conducts several workshops / training to encourage and clarify doubts for suppliers to answer questions, as well as the opportunity to identify benchmarks and encourage the development of related practices of those who have not yet evolved in actions.</td>
</tr>
<tr>
<td>Palm Oil</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Cattle products</td>
<td>Yes, working with direct suppliers</td>
<td>Developing or distributing</td>
<td>Supplier questionnaires on environmental and social indicators Workshops and training Contractual agreements Joint projects Other, please specify (Customer engagement) • Developing or distributing supply chain mapping tool: JBS has several initiatives to develop and encourage a more sustainable chain of suppliers: 1) New Field Program (Programa Novo Campo), which promotes more sustainable production techniques at husbandry farms in the Amazon region; 2) Legal Supplier Programa (Fornecedor Legal) This initiative aims to clarify 100% of carcass originated from Mato Grosso do Sul region, one of the most important production centers in Brazil. This goal was achieved by JBS in January 2016; 3) Green Light Pact (PactoSinal Verde), an initiative to certify 100% of carcass originated from Mato Grosso do Sul region, one of the most important production centers in Brazil. This goal was achieved by JBS in January 2016; 4) JBS Connexion Program (ProgramaConexão JBS): direct communication platform with JBS suppliers in Brazil, focused in commercial education. It aims to approach cattle breeder to supply chain through information regarding beef industrialization, market and sales; 5) Cattle Breeder Portal (Portal do Pecuarista), whereby the breeders have free access to the complete cattle slaughter of each one of their farms, the standard photographic glasses finishing with academic validation of associations and experts to the classification of carcasses is transparent and auditable; 6) Quality Light (Farol da Qualidade) – This tool lists the technics parameters of carcass in green light (default desirable), yellow light (tolerable standard) and lighthouse red (undesirable pattern) Supplier questionnaires on environmental and social indicators: In 2017, JBS invited cattle suppliers to participate and respond to the CDP Supply Chain Forests questionnaire. Workshops and training: In 2017, JBS invited cattle suppliers to participate and respond to the CDP Supply Chain Forests questionnaire, in partnership with JBS, conducts several workshops / trainings to encourage and clarify doubts for suppliers to answer questions, as well as the opportunity to identify benchmarks and encourage the development of related practices of those who have not yet evolved in actions.</td>
</tr>
<tr>
<td>Soy</td>
<td>Yes, working with direct suppliers</td>
<td>Encouraging certification</td>
<td>Supplier questionnaires on environmental and social indicators Workshops and training Joint projects JBS produces and distributes animal feed to its integrated poultry and pork producers. Taking into account that JBS only buys soy products from the Soy Moratorium big signatory companies, the company can ensure that the soy used for animal feed is not associated with deforestation, so on guaranteeing that the animals’ feed has a sustainable origin. Encouraging certification: In establishing the criterion of buying only from suppliers that comply with the Soy Moratorium, JBS encourages the market to adhere to the Moratorium. Supplier questionnaires on environmental and social indicators: In 2017, JBS invited soybean suppliers to participate and respond to the CDP Supply Chain Forests questionnaire, developed by CDP exclusively for companies to evaluate and stimulate their suppliers, considers the policies, strategies, management of opportunities and risks in relation to the actions of combating deforestation in the production of agricultural commodities. Workshops and training: In 2017, JBS invited soybean suppliers to participate in and respond to the CDP Supply Chain Forests questionnaire, developed by CDP exclusively for companies to evaluate and stimulate their suppliers, considers the policies, strategies, management of opportunities and risks in relation to the actions of combating deforestation in the production of agricultural commodities. CDP, in partnership with JBS, conducts several workshops / trainings to encourage and clarify doubts for suppliers to answer questions, as well as the opportunity to identify benchmarks and encourage the development of related practices of those who have not yet evolved in actions.</td>
</tr>
<tr>
<td>Other - Rubber</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
<tr>
<td>Other</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
<td>&lt;Not Applicable&gt;</td>
</tr>
</tbody>
</table>
(F6.8) Are you working beyond your first-tier supplier(s) to manage and mitigate forests-related risks?

<table>
<thead>
<tr>
<th>Forest risk commodity</th>
<th>Are you working beyond first tier?</th>
<th>Please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timber</td>
<td>Yes, working beyond first tier</td>
<td>Regarding the purchase of cardboard for packaging, JBS only buys cardboard with FSC certification in chain of custody form, which covers the entire chain. Considering that 100% of cardboard bought by JBS is certified, all cardboard chain is covered. In 2017, JBS invited suppliers to participate and respond to the CDP Supply Chain Forests questionnaire, developed by CDP exclusively for companies to evaluate and stimulate their suppliers, considers policies, strategies, opportunities and risks management in relation to actions to combat deforestation in the production of agricultural commodities. This initiative encourages direct suppliers to develop actions and monitor their supply chain (chain of indirect).</td>
</tr>
<tr>
<td>Palm Oil</td>
<td>&lt;Not Applicable&gt;</td>
<td></td>
</tr>
<tr>
<td>Cattle</td>
<td>Yes, working beyond first tier</td>
<td>The New Field Program (Programa Novo Campo) aims to spread sustainable productive practices in the bovine livestock in Mato Grosso State north region and predicts beyond other goals to develop an indirect supplier monitoring system to ensure the sustainable origin of the animals produced in participating properties. In 2017, JBS invited suppliers to participate and respond to the CDP Supply Chain Forests questionnaire, developed by CDP exclusively for companies to evaluate and stimulate their suppliers, considers policies, strategies, opportunities and risks management in relation to actions to combat deforestation in the production of agricultural commodities. This initiative encourages direct suppliers to develop actions and monitor their supply chain (chain of indirect).</td>
</tr>
<tr>
<td>Soy</td>
<td>Yes, working beyond first tier</td>
<td>Considering that JBS only works with suppliers that meet the Soy Moratorium, it is understood that the entire chain is covered. In 2017, JBS invited suppliers to participate and respond to the CDP Supply Chain Forests questionnaire, developed by CDP exclusively for companies to evaluate and stimulate their suppliers, considers policies, strategies, opportunities and risks management in relation to actions to combat deforestation in the production of agricultural commodities. This initiative encourages direct suppliers to develop actions and monitor their supply chain (chain of indirect).</td>
</tr>
<tr>
<td>Other - Rubber</td>
<td>&lt;Not Applicable&gt;</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>&lt;Not Applicable&gt;</td>
<td></td>
</tr>
</tbody>
</table>

(F6.9) Do you participate in external initiatives or activities to further the implementation of your policies concerning the sustainability of your disclosed commodity(ies)?

**Forest risk commodity**

**Timber**

**Do you participate in activities/initiatives?**

Yes

**Activities**

Involved in multi-partnership or stakeholder initiatives

**Initiatives**

Other, please specify (Best sustainable supplier Mc Donald's/KFC)

Please explain

JBS has identified and developed projects that aim to minimize environmental impacts and thus offer more sustainable products to its customers and consumers. Examples of these projects are cases awarded, as the "Best of Sustainable Supply 2014 - McDonald's", a global award from the McDonald's chain for suppliers who apply standout sustainability solutions as part of their production processes. The company won the “Climate Change and Energy” category, presenting a case study of bovine rumen content reused as fuel in industrial boilers. This is a type of waste that is generated by cattle processing units and with its use for energy generation, the demand for timber and fossil fuels will decrease, with positive impacts on both deforestation and greenhouse gas emissions reduction. This initiative generated major production process efficiency gains in Brazil, helping to further increase sustainability of the company's products. Additionally Seara reuses the poultry fat waste separated by its wastewater treatment process to generate energy. By burning this waste in boilers, it substitutes the use of timber and fossil fuels, reducing the risk of acquiring deforestation risk commodities, cutting down the consumption of natural resources and declining the disposal of the fat as waste, while also reducing by 98% its greenhouse gas emissions associated with steam generation. For this initiative, the Company received the International Sustainability Award from the U.S. restaurant chain KFC, which recognizes its suppliers around the world that have implemented innovative sustainability projects.
Do you participate in activities/initiatives?
Yes

Activities
Other, please specify (CDP Supply Chain Forests)

Initiatives
<Not Applicable>

Please explain
In 2017, JBS joined the CDP Supply Chain Forests pilot project, in which the company is a founding member of the initiative in Brazil. Through the SC Forests questionnaire, it will be possible to engage suppliers to share their initiatives and to encourage the establishment of new policies. Thus, in 2017, JBS invited suppliers to participate and respond to the CDP Supply Chain Forests questionnaire, developed by CDP exclusively for companies to evaluate and stimulate their suppliers, considers policies, strategies, opportunities and risks management in relation to actions to combat deforestation in the production of agricultural commodities. This initiative encourages direct suppliers to develop actions and monitor their supply chain (chain of indirect).

Forest risk commodity
Cattle Products

Do you participate in activities/initiatives?
Yes

Activities
Involved in multi-partnership or stakeholder initiatives

Initiatives
Global Roundtable for Sustainable Beef (GRSB)
Brazilian Roundtable on Sustainable Livestock (GTPS)
Other, please specify (public commitments responsible purchases)

Please explain
JBS is a founding member and acts on the Board of Directors and Executive Committee of the Global Roundtable for Sustainable Beef (GRSB), a multi-stakeholder initiative for sustainable beef production. It is also a member of the Working Group (WG) on Sustainable Beef (GTPS) and of the Leather WG and Technical Sub-Group and Trader WG.

Forest risk commodity
Cattle Products

Do you participate in activities/initiatives?
Yes

Activities
Engaging with policymakers or governments

Initiatives
<Not Applicable>

Please explain
In order to improve its controls, seeking access to information and discussions with different regulatory agents, JBS participated in several meetings with the Federal Public Prosecutor, especially in the State of Pará, presented and suggesting technical rules to have a supply chain free of deforestation. An example of this was the performance of an independent audit to verify compliance with the State of Pará's Behavior Adjustment Code (TAC), JBS was recognized among the companies that obtained a “positive and satisfactory” result from the commitments entered into with the Federal Public Ministry. JBS also participates in the Working Group for the Control of Deforestation in the Chain Livestock Production, created by the Ministry of the Environment and composed of government agencies, a beef cattle and retail business, as well as NGOs and other stakeholders.

Forest risk commodity
Cattle Products

Do you participate in activities/initiatives?
Yes

Activities
Engaging with non-governmental organizations

Initiatives
Please explain
The company reports GHG emissions data and information on climate change management strategy, such as the GHG Protocol Brazil, CDP Climate Change, and the Carbon Efficient Index (ICO2) of BM&FBOVESPA. Besides JBS has participated in the Scope 3 Technical WG of the Brazilian GHG Protocol Program, and in the WG of the Agriculture GHG Protocol. JBS’s participation in the CDP comprises Forest, Climate Change, Water and Supply Chain modules. In 2016, JBS joined the Applied Life Cycle (CiViA) initiative of the Getulio Vargas Foundation’s Center for Sustainability Studies (FGV), with the objective of quantify and manage the environmental impacts of products and services through the life cycle. 2 pilot projects were developed, considering the carbon emissions and water consumption of all stages of production until the use and disposal of the final consumer. These projects have allowed the company a new look at the product, identifying the most representative production phases of environmental impacts and the related opportunities. In 2017, JBS joined the CDP Supply Chain Forests pilot project, in which the company is a founding member of the initiative in Brazil.

F7. Linkages and trade-offs

F7.1

(F7.1) Has your organization identified any linkages or trade-offs between forests and other environmental issues in its direct operations and/or other parts of its value chain?
Yes
(F7.1a) Describe the linkages or trade-offs and the related management policy or action.

**Linkage/tradeoff**

**Type of linkage/tradeoff**
Decreased GHGs emissions

**Description of linkage/tradeoff**
Considering JBS significance in the cattle supply chain in the country, the company acts through the Responsible Sourcing Policy and other programs, to stimulate the fulfillment of socio-environmental criteria in cattle farms. Generating numerous positive impacts related to the conservation of native forests in the Legal Amazon region.

**Policy or action**
JBS Brazil has a Responsible Sourcing Policy that establishes social and environmental criteria for suppliers selection. Through the New Field Program JBS promotes more sustainable production techniques at husbandry farms in the Amazon region. It has a strong approach on enhancing productivity through the diversification of income sources, cultures rotation, pasture reform and practicing of integrated agriculture, livestock and forestry. The Program contributes positively to the main environmental issue in the Amazon region and can be a Linkage with carbon sequestration or increased availability of water, once it indirectly eliminates the need for more deforestation as it intensifies production in the same dimension of area. Consolidate results of the program:
- Reduction of methane emissions (from 353 to 180 gCH4/KgLW);
- Reduction of slaughtering age (from 44 to 34 for males and from 34 to 24 months for females);
- Increase in stocking density (from 1.22 to 1.61 animal units/ha);
- Increase in productivity (from 70 to 160 KgCW/ha/yr);
- Increase in gross margin (from 0-100 to 680 R$/ha/yr);
- Reduction of about 20% in the production cycle of cattle;
- Increase in productivity from 4.7@ to more than 10@/hectare/year; Improvement in the quality of the beef; and Increase in income for producers.

---

**Linkage/tradeoff**

**Type of linkage/tradeoff**
Increased carbon sequestration

**Description of linkage/tradeoff**
Considering JBS significance in the cattle supply chain in the country, the company acts through the Responsible Sourcing Policy and other programs, to stimulate the fulfillment of socio-environmental criteria in cattle farms. Generating numerous positive impacts related to the conservation of native forests in the Legal Amazon region.

**Policy or action**
JBS Brazil has a Responsible Sourcing Policy that establishes social and environmental criteria for suppliers selection. Through the New Field Program JBS promotes more sustainable production techniques at husbandry farms in the Amazon region. It has a strong approach on enhancing productivity through the diversification of income sources, cultures rotation, pasture reform and practicing of integrated agriculture, livestock and forestry. The Program contributes positively to the main environmental issue in the Amazon region and can be a Linkage with carbon sequestration or increased availability of water, once it indirectly eliminates the need for more deforestation as it intensifies production in the same dimension of area. Consolidate results of the program:
- Reduction of methane emissions (from 353 to 180 gCH4/KgLW);
- Reduction of slaughtering age (from 44 to 34 for males and from 34 to 24 months for females);
- Increase in stocking density (from 1.22 to 1.61 animal units/ha);
- Increase in productivity (from 70 to 160 KgCW/ha/yr);
- Increase in gross margin (from 0-100 to 680 R$/ha/yr);
- Reduction of about 20% in the production cycle of cattle;
- Increase in productivity from 4.7@ to more than 10@/hectare/year; Improvement in the quality of the beef; and Increase in income for producers.

---

**Linkage/tradeoff**

**Type of linkage/tradeoff**
Soil conservation

**Description of linkage/tradeoff**
Considering JBS significance in the cattle supply chain in the country, the company acts through the Responsible Sourcing Policy and other programs, to stimulate the fulfillment of socio-environmental criteria in cattle farms. Generating numerous positive impacts related to the conservation of native forests in the Legal Amazon region.

**Policy or action**

JBS Brazil has a Responsible Sourcing Policy that establishes social and environmental criteria for suppliers selection. Through the New Field Program JBS promotes more sustainable production techniques at husbandry farms in the Amazon region. It has a strong approach on enhancing productivity through the diversification of income sources, cultures rotation, pasture reform and practicing of integrated agriculture, livestock and forestry. The Program contributes positively to the main environmental issue in the Amazon region and can be a Linkage with carbon sequestration or increased availability of water, once it indirectly eliminates the need for more deforestation as it intensifies production in the same dimension of area. Consolidate results of the program:

- Reduction of methane emissions (from 353 to 180 gCH4/KgLW);
- Reduction of slaughtering age (from 44 to 34 months for males and from 34 to 24 months for females);
- Increase in stocking density (from 1.22 to 1.61 animal units/ha);
- Increase in productivity (from 70 to 160 KgCW/ha/yr);
- Increase in gross marging (from 0-100 to 680 R$/ha/yr);
- Reduction of about 20% in the production cycle of cattle;
- Increase in productivity from 4.7@ to more than 10@/hectare/year;
- Improvement in the quality of the beef; and
- Increase in income for producers.

### Linkage/tradeoff

**Linkage**

**Type of linkage/tradeoff**
Increased water quality

**Description of linkage/tradeoff**
Considering JBS significance in the cattle supply chain in the country, the company acts through the Responsible Sourcing Policy and other programs, to stimulate the fulfillment of socio-environmental criteria in cattle farms. Generating numerous positive impacts related to the conservation of native forests in the Legal Amazon region.

**Policy or action**

JBS Brazil has a Responsible Sourcing Policy that establishes social and environmental criteria for suppliers selection. Through the New Field Program JBS promotes more sustainable production techniques at husbandry farms in the Amazon region. It has a strong approach on enhancing productivity through the diversification of income sources, cultures rotation, pasture reform and practicing of integrated agriculture, livestock and forestry. The Program contributes positively to the main environmental issue in the Amazon region and can be a Linkage with carbon sequestration or increased availability of water, once it indirectly eliminates the need for more deforestation as it intensifies production in the same dimension of area. Consolidate results of the program:

- Reduction of methane emissions (from 353 to 180 gCH4/KgLW);
- Reduction of slaughtering age (from 44 to 34 months for males and from 34 to 24 months for females);
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- Increase in productivity (from 70 to 160 KgCW/ha/yr);
- Increase in gross marging (from 0-100 to 680 R$/ha/yr);
- Reduction of about 20% in the production cycle of cattle;
- Increase in productivity from 4.7@ to more than 10@/hectare/year;
- Improvement in the quality of the beef; and
- Increase in income for producers.

### Linkage/tradeoff

**Linkage**

**Type of linkage/tradeoff**
Other linkage, please specify (Exclusion of suppliers)

**Description of linkage/tradeoff**

The lack of government policies for the environmental regularization of properties with environmental liabilities, in addition to governmental incentives policies for forest conservation, generates a significant number of suppliers "excluded" from the value chain of Brazilian livestock. Since rural properties with environmental liabilities, in some cases, have difficulty to find legal ways for environmental regulation.

**Policy or action**

JBS Brazil has a Responsible Sourcing Policy that establishes social and environmental criteria for suppliers selection. The Company does not acquire animals from farms involved with deforestation of native forests, invasion of indigenous lands or environmental conservation areas, or that are embargoed by the Brazilian Institute of the Environment and Renewable Natural Resources (IBAMA). It also will not work with suppliers involved in rural violence or land conflicts, or who utilize slave or child labor. To ensure that the raw materials are sourced responsibly, the uses a system to monitor and verify the farm conditions of all of its suppliers. JBS has been working with the Federal Government (through the Working Group for the Control of Deforestation in the Productive Chain of Livestock, created by the Ministry of Environment), as well as NGOs and the Working Group on Sustainable Livestock (GTPS) to enable alternatives in the environmental regularization of rural properties in disagreement with the company's procurement policy. However, disordered actions associated for deforestation problems, may result in biodiversity loss and ecosystem degradation may promote an increase in greenhouse gas emissions because of the loss of vegetation cover and unbalance of ecosystems functioning.
F8. Verification

F8.1

(F8.1) Do you verify any forests information reported in your CDP disclosure?
Yes

F8.1a

(F8.1a) Which data points within your CDP disclosure have been verified, and which standards were used?

Disclosure module
F0. Introduction

Data points verified
All issues that address the Socio-Environmental Monitoring System for the cattle livestock farms are annually audited by a third party.

Verification standard
Third party audit. According to NBC TSC 4.400, specific Standard for Pre-Agreed Works.

Please explain
The cattle procurement operations and the entire monitoring system of suppliers are audited annually and independently. The standard used was adopted by agreement between the stakeholders of the public Livestock agreement. The results of the audits are published on the JBS website. The independent audits reveal that in 2013, 2014, 2015 and 2016 over 99% of JBS cattle purchases from farms located in the Amazon region complied with the company's social and environmental criteria and with its agreement with the commitment, called the "Public Livestock Commitment".

Disclosure module
F1. Current State

Data points verified
All issues that address the Socio-Environmental Monitoring System for the cattle livestock farms are annually audited by a third party.

Verification standard
Third party audit. According to NBC TSC 4.400, specific Standard for Pre-Agreed Works.

Please explain
The cattle procurement operations and the entire monitoring system of suppliers are audited annually and independently. The standard used was adopted by agreement between the stakeholders of the public Livestock agreement. The results of the audits are published on the JBS website. The independent audits reveal that in 2013, 2014, 2015 and 2016 over 99% of JBS cattle purchases from farms located in the Amazon region complied with the company's social and environmental criteria and with its agreement with the commitment, called the "Public Livestock Commitment".

Disclosure module
F2. Procedures

Data points verified
All issues that address the Socio-Environmental Monitoring System for the cattle livestock farms are annually audited by a third party.

Verification standard
Third party audit. According to NBC TSC 4.400, specific Standard for Pre-Agreed Works.

Please explain
The cattle procurement operations and the entire monitoring system of suppliers are audited annually and independently. The standard used was adopted by agreement between the stakeholders of the public Livestock agreement. The results of the audits are published on the JBS website. The independent audits reveal that in 2013, 2014, 2015 and 2016 over 99% of JBS cattle purchases from farms located in the Amazon region complied with the company's social and environmental criteria and with its agreement with the commitment, called the "Public Livestock Commitment".
purchases from farms located in the Amazon region complied with the company’s social and environmental criteria and with its agreement with the commitment, called the “Public Livestock Commitment”.

**Disclosure module**

**F3. Risks and opportunities**

**Data points verified**
All issues that address the Socio-Environmental Monitoring System for the cattle livestock farms are annually audited by a third party.

**Verification standard**
Third party audit. According to NBC TSC 4.400, specific Standard for Pre-Agreed Works.

**Please explain**
The cattle procurement operations and the entire monitoring system of suppliers are audited annually and independently. The standard used was adopted by agreement between the stakeholders of the public Livestock agreement. The results of the audits are published on the JBS website. The independent audits reveal that in 2013, 2014, 2015 and 2016 over 99% of JBS cattle purchases from farms located in the Amazon region complied with the company’s social and environmental criteria and with its agreement with the commitment, called the “Public Livestock Commitment”.

**Disclosure module**

**F4. Governance**

**Data points verified**
All issues that address the Socio-Environmental Monitoring System for the cattle livestock farms are annually audited by a third party.

**Verification standard**
Third party audit. According to NBC TSC 4.400, specific Standard for Pre-Agreed Works.

**Please explain**
The cattle procurement operations and the entire monitoring system of suppliers are audited annually and independently. The standard used was adopted by agreement between the stakeholders of the public Livestock agreement. The results of the audits are published on the JBS website. The independent audits reveal that in 2013, 2014, 2015 and 2016 over 99% of JBS cattle purchases from farms located in the Amazon region complied with the company’s social and environmental criteria and with its agreement with the commitment, called the “Public Livestock Commitment”.

**Disclosure module**

**F5. Strategy**

**Data points verified**
All issues that address the Socio-Environmental Monitoring System for the cattle livestock farms are annually audited by a third party.

**Verification standard**
Third party audit. According to NBC TSC 4.400, specific Standard for Pre-Agreed Works.

**Please explain**
The cattle procurement operations and the entire monitoring system of suppliers are audited annually and independently. The standard used was adopted by agreement between the stakeholders of the public Livestock agreement. The results of the audits are published on the JBS website. The independent audits reveal that in 2013, 2014, 2015 and 2016 over 99% of JBS cattle purchases from farms located in the Amazon region complied with the company’s social and environmental criteria and with its agreement with the commitment, called the “Public Livestock Commitment”.

**Disclosure module**

**F6. Implementation**

**Data points verified**
All issues that address the Socio-Environmental Monitoring System for the cattle livestock farms are annually audited by a third party.

**Verification standard**
Third party audit. According to NBC TSC 4.400, specific Standard for Pre-Agreed Works.

**Please explain**
The cattle procurement operations and the entire monitoring system of suppliers are audited annually and independently. The standard used was adopted by agreement between the stakeholders of the public Livestock agreement. The results of the audits are published on the JBS website. The independent audits reveal that in 2013, 2014, 2015 and 2016 over 99% of JBS cattle purchases from farms located in the Amazon region complied with the company’s social and environmental criteria and with its agreement with the commitment, called the “Public Livestock Commitment”.
standard used was adopted by agreement between the stakeholders of the public Livestock agreement. The results of the audits are published on the JBS website. The independent audits reveal that in 2013, 2014, 2015 and 2016 over 99% of JBS cattle purchases from farms located in the Amazon region complied with the company’s social and environmental criteria and with its agreement with the commitment, called the “Public Livestock Commitment”.

Disclosure module
SF. Supply chain module

Data points verified
All issues that address the Socio-Environmental Monitoring System for the cattle livestock farms are annually audited by a third party.

Verification standard
Third party audit. According to NBC TSC 4.400, specific Standard for Pre-Agreed Works.

Please explain
The cattle procurement operations and the entire monitoring system of suppliers are audited annually and independently. The standard used was adopted by agreement between the stakeholders of the public Livestock agreement. The results of the audits are published on the JBS website. The independent audits reveal that in 2013, 2014, 2015 and 2016 over 99% of JBS cattle purchases from farms located in the Amazon region complied with the company’s social and environmental criteria and with its agreement with the commitment, called the “Public Livestock Commitment”.

F9. Barriers and challenges

F9.1

(F9.1) Describe the key barriers or challenges to avoiding forests-related risks in your direct operations or in other parts of your value chain.

Forest risk commodity
Timber

Coverage
Supply chain

Primary barrier/challenge type
Limited public awareness and/or market demand

Comment
In general, it is possible to see efforts that JBS has been making to ensure sustainable origin of its products and a supply chain free of deforestation and other social and environmental requirements. However, we believe that government agencies cooperation in the periodic provision of farms’ information regarding land and environmental compliance in the country is a key factor in struggling deforestation practices of the supply chain. The results of the Zero Deforestation initiative are closely linked to the availability of data, since this information needs to be in an operational form, up-to-date and sufficient for companies to carry out their supply chain management. Another relevant point is that sustainability can be noticed as a differential factor, since frigorific and companies retailers that are committed to deforestation-free production will be enabled in this market.

Forest risk commodity
Cattle Products

Coverage
Direct operations
Supply chain

Primary barrier/challenge type
Limited public awareness and/or market demand

Comment
In general, it is possible to see efforts that JBS has been making to ensure sustainable origin of its products and a supply chain free of deforestation and other social and environmental requirements, through its Social and Environmental Monitoring System of Suppliers. However, we believe that government agencies cooperation in the periodic provision of farms’ information regarding land
and environmental compliance in the country is a key factor in struggling deforestation practices of the supply chain. After the approval of Brazilian Forest Code new version, in 2012, and the regulation of the Rural Environmental Registry - CAR (2014), it is expected in the coming years a large movement of environmental regulation in the country, which should result in a consolidation of environmental legislation and a massive movement for the reforestation of degraded areas, which should facilitate companies’ mechanisms to obtain information from their supply chain. Other very important issue that probably will be discussed along the environmental regularization of rural properties is the adoption of best agricultural practices, aiming to increase productivity and reach a production model more responsible. Regarding to the commitments made by JBS such as zero deforestation and agreements with Federal Public Prosecution Office (MPF), is important and required that other companies also make these commitments, ensuring that whole cattle supply chain stay in compliance with social and environmental criteria established. While there are companies that buy from suppliers who work illegally, there will still be a market barrier to ban unsustainable practices To achieve the control regarding indirect cattle supply, it is necessary an evolving discussion with government agencies to develop public mechanisms or platforms with sufficient and accessible information, which allows the animal traceability. In this way, large supermarkets are joining the Public Livestock commitment in order to ensure that their customers are getting beef that meet social and environmental production criteria. This is a very important moment because the retail / wholesale are great negotiators and relate directly to consumers.

<table>
<thead>
<tr>
<th>Forest risk commodity</th>
<th>Soy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coverage</td>
<td>Supply chain</td>
</tr>
<tr>
<td>Primary barrier/challenge type</td>
<td>Limited public awareness and/or market demand</td>
</tr>
<tr>
<td>Comment</td>
<td>In general, it is possible to see the efforts that JBS has been making to ensure sustainable origin of its products and a supply chain free of deforestation and other social and environmental requirements. However, we believe that government agencies cooperation in the periodic provision of farms’ information regarding land and environmental compliance in the country is a key factor in struggling deforestation practices of the supply chain. The results of the Zero Deforestation initiative are closely linked to the availability of data, since this information needs to be in an operational form, up-to-date and sufficient for companies to carry out their supply chain management. Another relevant point is that sustainability can be noticed as a differential factor, since frigorific and companies retailers that are committed to deforestation-free production will be enabled in this market.</td>
</tr>
</tbody>
</table>
(F9.2) Describe the main measures that would improve your organization's ability to manage forests-related risks.

**Forest risk commodity**
Soy

**Coverage**
Supply chain

**Main measure**
Development of certification and sustainability standards

**Comment**
With the new Brazilian Forest Code approval and Rural Environmental Registry (CAR - georeferenced map of rural property that contains its geographical boundaries and definition of land uses - productive area and preservation) regulation, will be created a rich database of farms in Brazil. With the availability of this information, companies can have a better management of supply chains monitoring in the country, particularly for soybeans and cattle.
F10.1

(F10.1) Provide the following information for the person that has signed off (approved) your CDP forests response.

<table>
<thead>
<tr>
<th>Job Title</th>
<th>Corresponding job category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sustainability Director</td>
<td>Director on board</td>
</tr>
</tbody>
</table>

SF. Supply chain module

SF0.1

(SF0.1) What is your organization’s annual revenue for the reporting period?

<table>
<thead>
<tr>
<th>Annual revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>163169981000</td>
</tr>
</tbody>
</table>

SF0.2

(SF0.2) Do you have an ISIN for your organization that you are willing to share with CDP?

Yes

SF0.2a

(SF0.2a) Please share your ISIN in the table below.

<table>
<thead>
<tr>
<th>ISIN country code</th>
<th>ISIN numeric identifier (including single check digit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BR</td>
<td>JBSSACNOR8</td>
</tr>
</tbody>
</table>

SF1.1

(SF1.1) On F6.4 you were asked “Do you specify any third-party certification schemes for your disclosed commodity(ies)? Indicate the volume and percentage of your production and/or consumption covered”. Can you also indicate, for each of your disclosed commodity(ies), the percentage of certified volume sold to each requesting CDP supply chain member?

Yes

SF1.1a

(SF1.1a) For each of your requesting CDP supply chain members, indicate the percentage of certified volume sold per disclosed commodity(ies).
Requesting member
Arcos Dourados

Forest risk commodity
Cattle Products

Form of commodity
Beef

Third-party certification scheme
Other, please specify (Public Livestock Commitment)

Total volume of commodity sold to member
8741

Metric
Other, please specify (tonnes)

What % of the volume reported in column 5 is certified?
100%

Comment
JBS assumed the commitment to ensure the responsible origin of its raw materials, not purchasing cattle from suppliers involved with native woodlands deforestation, environmental conservation units and indigenous lands invasion, rural violence and agrarian conflicts, or with the use of compulsory and child labour.

Requesting member
Arcos Dourados

Forest risk commodity
Soy

Form of commodity
Other, please specify (Feeding pork and chicken-in animal diets)

Third-party certification scheme
Other, please specify (Soy Moratorium)

Total volume of commodity sold to member
27445

Metric
Other, please specify (tonnes)

What % of the volume reported in column 5 is certified?
100%

Comment
The reported volume refers to the final product (animal protein) sold by JBS to the customer. JBS (Seara) uses soy to manufacture animal feed, which is used in farms of poultry and pork. The company only purchases soy from suppliers that signed the Soy Moratorium - for supplier located in the Legal Amazon States. Thus, 100% of JBS soy suppliers, in Brazil and located in the Legal Amazon, are in compliance with Soy Moratorium criteria.

Requesting member
Restaurant Brands International

Forest risk commodity
Cattle Products

Form of commodity
Beef

Third-party certification scheme
Other, please specify (Public Livestock Commitment)

Total volume of commodity sold to member
7586

Metric
Other, please specify (tonnes)

**What % of the volume reported in column 5 is certified?**

100%

**Comment**

JBS assumed the commitment to ensure the responsible origin of its raw materials, not purchasing cattle from suppliers involved with native woodlands deforestation, environmental conservation units and indigenous lands invasion, rural violence and agrarian conflicts, or with the use of compulsory and child labour.

---

**Requesting member**

Restaurant Brands International

**Forest risk commodity**

Soy

**Form of commodity**

Other, please specify (Feeding pork and chicken-in animal diets)

**Third-party certification scheme**

Other, please specify (Soy Moratorium)

**Total volume of commodity sold to member**

9214

**Metric**

Other, please specify (tonnes)

**What % of the volume reported in column 5 is certified?**

100%

**Comment**

The reported volume refers to the final product (animal protein) sold by JBS to the customer. JBS (Seara) uses soy to manufacture animal feed, which is used in farms of poultry and pork. The company only purchases soy from suppliers that signed the Soy Moratorium - for supplier located in the Legal Amazon States. Thus, 100% of JBS soy suppliers, in Brazil and located in the Legal Amazon, are in compliance with Soy Moratorium criteria.

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**Requesting member**

McDonald's Corporation

**Forest risk commodity**

Soy

**Form of commodity**

Beef

**Third-party certification scheme**

Other, please specify (Public Livestock Commitment)

**Total volume of commodity sold to member**

8741

**Metric**

Other, please specify (tonnes)

**What % of the volume reported in column 5 is certified?**

100%

**Comment**

JBS assumed the commitment to ensure the responsible origin of its raw materials, not purchasing cattle from suppliers involved with native woodlands deforestation, environmental conservation units and indigenous lands invasion, rural violence and agrarian conflicts, or with the use of compulsory and child labour.
<table>
<thead>
<tr>
<th>Form of commodity</th>
<th>Other, please specify (Feeding pork and chicken-in animal diets)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Third-party certification scheme</td>
<td>Other, please specify (Soy Moratorium)</td>
</tr>
<tr>
<td>Total volume of commodity sold to member</td>
<td>27445</td>
</tr>
<tr>
<td>Metric</td>
<td>Other, please specify (tonnes)</td>
</tr>
<tr>
<td>What % of the volume reported in column 5 is certified?</td>
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<tr>
<td>Comment</td>
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</tr>
</tbody>
</table>

| Requesting member | Walmart - Brasil |

<table>
<thead>
<tr>
<th>Forest risk commodity</th>
<th>Cattle Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form of commodity</td>
<td>Beef</td>
</tr>
<tr>
<td>Third-party certification scheme</td>
<td>Other, please specify (Livestock Commitment)</td>
</tr>
<tr>
<td>Total volume of commodity sold to member</td>
<td>22270</td>
</tr>
<tr>
<td>Metric</td>
<td>Other, please specify (tonnes)</td>
</tr>
<tr>
<td>What % of the volume reported in column 5 is certified?</td>
<td>100%</td>
</tr>
<tr>
<td>Comment</td>
<td>JBS assumed the commitment to ensure the responsible origin of its raw materials, not purchasing cattle from suppliers involved with native woodlands deforestation, environmental conservation units and indigenous lands invasion, rural violence and agrarian conflicts, or with the use of compulsory and child labour.</td>
</tr>
</tbody>
</table>

| Requesting member | Walmart - Brasil |

<table>
<thead>
<tr>
<th>Forest risk commodity</th>
<th>Soy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form of commodity</td>
<td>Other, please specify (Feeding pork and chicken-in animal diets)</td>
</tr>
<tr>
<td>Third-party certification scheme</td>
<td>Other, please specify (Soy Moratorium)</td>
</tr>
<tr>
<td>Total volume of commodity sold to member</td>
<td>39203</td>
</tr>
<tr>
<td>Metric</td>
<td>Other, please specify (tonnes)</td>
</tr>
<tr>
<td>What % of the volume reported in column 5 is certified?</td>
<td>100%</td>
</tr>
<tr>
<td>Comment</td>
<td></td>
</tr>
</tbody>
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The reported volume refers to the final product (animal protein) sold by JBS to the customer. JBS (Seara) uses soy to manufacture animal feed, which is used in farms of poultry and pork. The company only purchases soy from suppliers that signed the Soy Moratorium - for supplier located in the Legal Amazon States. Thus, 100% of JBS soy suppliers, in Brazil and located in the Legal Amazon, are in compliance with Soy Moratorium criteria.

SF2.1

(SF2.1) Please propose any mutually beneficial forests-related projects you could collaborate on with specific CDP supply chain members.

Requesting member
Arcos Dourados

Commodity related to the project
Cattle Products

Category of project
Relationship sustainability assessment

Type of project
Other relationship sustainability assessment projects, please specify (Social Environmental Monitoring System)

Estimated timeframe for realization of benefits to customer
1-3 years

Details of project
In general, it is possible to see efforts that JBS has been making to ensure sustainable origin of its products and a supply chain free of deforestation and other social and environmental requirements, through its Social and Environmental Monitoring System of Suppliers. However, we believe all companies in the beef value chain must take on sustainable purchasing policies, and independent auditing processes, is a key factor in struggling deforestation practices of the supply chain. Regarding to the commitments made by JBS such as zero deforestation, is important and require that other companies also make these commitments, ensuring that whole cattle supply chain stay in compliance with social and environmental criteria established. While there are companies that buy from suppliers who work illegally, there will still be a market barrier to ban unsustainable practices.

Projected outcome
In general, it is possible to see efforts that JBS has been making to ensure sustainable origin of its products and a supply chain free of deforestation and other social and environmental requirements, through its Social and Environmental Monitoring System of Suppliers. To ensure compliance with the JBS’s commitments, an independent party annually audits the System. According to the 2014, 2015, 2016 and 2017 independent audit results, the compliance level was 99.75%, 99, 97%, 99,97% and 99.97% respectively. The 2018 audit results will be available on the JBS’s official website (http://www.jbs.com.br) in second half of 2018.

Requesting member
Arcos Dourados

Commodity related to the project
Cattle Products

Category of project
Traceability and transparency

Type of project
Other traceability and transparency projects, please specify (Social Environmental Monitoring System)

Estimated timeframe for realization of benefits to customer
1-3 years

Details of project
In general, it is possible to see efforts that JBS has been making to ensure sustainable origin of its products and a supply chain free of deforestation and other social and environmental requirements, through its Social and Environmental Monitoring System of Suppliers. However, we believe all companies in the beef value chain must take on sustainable purchasing policies, and independent auditing processes, is a key factor in struggling deforestation practices of the supply chain. Regarding to the commitments made by JBS such as zero deforestation, is important and require that other companies also make these commitments, ensuring that whole cattle supply chain stay in compliance with social and environmental criteria established. While there are companies that buy from suppliers who work illegally, there will still be a market barrier to ban unsustainable practices.
Projected outcome
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Requesting member
Arcos Dourados

Commodity related to the project
Cattle Products

Category of project
Other category, please specify (Supplier development)

Type of project
Other, please specify (Supplier development)

Estimated timeframe for realization of benefits to customer
1-3 years

Details of project
Encouraging the adoption of property management practices, aiming at increasing productivity, coupled with socio-environmental criteria for property management and commodity production. For example GIPS / GTPS (Sustainable Livestock Indicators Guide / Sustainable Livestock Working Group).

Projected outcome
In general, it is possible to see efforts that JBS has been making to ensure sustainable origin of its products and a supply chain free of deforestation and other social and environmental requirements, through its Social and Environmental Monitoring System of Suppliers. To ensure compliance with the JBS’s commitments, an independent party annually audits the System. According to the 2014, 2015, 2016 and 2017 independent audit results, the compliance level was 99.75%, 99.97%, 99.97% and 99.97% respectively. The 2018 audit results will be available on the JBS’s official website (http://www.jbs.com.br) in second half of 2018.
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Estimated timeframe for realization of benefits to customer
1-3 years

Details of project
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Requesting member
Restaurant Brands International

Commodity related to the project
Cattle Products

Category of project
Traceability and transparency

Type of project
Other traceability and transparency projects, please specify (Social Environmental Monitoring System)

Estimated timeframe for realization of benefits to customer
1-3 years

Details of project
Encouraging the adoption of property management practices, aiming at increasing productivity, coupled with socio-environmental
criteria for property management and commodity production. For example GIPS / GTPS (Sustainable Livestock Indicators Guide / Sustainable Livestock Working Group).

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**Requesting member**
Restaurant Brands International

**Commodity related to the project**
Soy

**Category of project**
Relationship sustainability assessment

**Type of project**
Other relationship sustainability assessment projects, please specify (Social Environmental Monitoring System)

**Estimated timeframe for realization of benefits to customer**
1-3 years

**Details of project**
In general, it is possible to see efforts that JBS has been making to ensure sustainable origin of its products and a supply chain free of deforestation and other social and environmental requirements, through its Social and Environmental Monitoring System of Suppliers. However, we believe all companies in the beef value chain must take on sustainable purchasing policies, and independent auditing processes, is a key factor in struggling deforestation practices of the supply chain. Regarding to the commitments made by JBS such as zero deforestation, is important and require that other companies also make these commitments, ensuring that whole cattle supply chain stay in compliance with social and environmental criteria established. While there are companies that buy from suppliers who work illegally, there will still be a market barrier to ban unsustainable practices.

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**Requesting member**
Restaurant Brands International

**Commodity related to the project**
Soy

**Category of project**
Traceability and transparency

**Type of project**
Other traceability and transparency projects, please specify (Social Environmental Monitoring System)

**Estimated timeframe for realization of benefits to customer**
1-3 years

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Requesting member
Restaurant Brands International

Commodity related to the project
Soy

Category of project
Other category, please specify (Supplier development)

Type of project
Other, please specify (Supplier Development)

Estimated timeframe for realization of benefits to customer
1-3 years

Details of project
Encouraging the adoption of property management practices, aiming at increasing productivity, coupled with socio-environmental criteria for property management and commodity production. For example GIPS / GTPS (Sustainable Livestock Indicators Guide / Sustainable Livestock Working Group).

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Requesting member
McDonald’s Corporation

Commodity related to the project
Cattle Products

Category of project
Relationship sustainability assessment

Type of project
Other relationship sustainability assessment projects, please specify (Social Environmental monitoring system)

Estimated timeframe for realization of benefits to customer
1-3 years

Details of project
In general, it is possible to see efforts that JBS has been making to ensure sustainable origin of its products and a supply chain free of deforestation and other social and environmental requirements, through its Social and Environmental Monitoring System of Suppliers. However, we believe all companies in the beef value chain must take on sustainable purchasing policies, and independent auditing processes, is a key factor in struggling deforestation practices of the supply chain. Regarding to the commitments made by JBS such as zero deforestation, is important and require that other companies also make these commitments, ensuring that whole cattle supply chain stay in compliance with social and environmental criteria established. While there are companies that buy from suppliers who work illegally, there will still be a market barrier to ban unsustainable practices.

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Cattle Products

**Category of project**
Traceability and transparency

**Type of project**
Other traceability and transparency projects, please specify (Social Environmental System)

**Estimated timeframe for realization of benefits to customer**
1-3 years

**Details of project**
In general, it is possible to see efforts that JBS has been making to ensure sustainable origin of its products and a supply chain free of deforestation and other social and environmental requirements, through its Social and Environmental Monitoring System of Suppliers. However, we believe all companies in the beef value chain must take on sustainable purchasing policies, and independent auditing processes, is a key factor in struggling deforestation practices of the supply chain. Regarding to the commitments made by JBS such as zero deforestation, is important and require that other companies also make these commitments, ensuring that whole cattle supply chain stay in compliance with social and environmental criteria established. While there are companies that buy from suppliers who work illegally, there will still be a market barrier to ban unsustainable practices.

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**Requesting member**
McDonald’s Corporation

**Category of project**
Cattle Products

**Type of project**
Other category, please specify (Supplier development )

**Estimated timeframe for realization of benefits to customer**
1-3 years

**Details of project**
Encouraging the adoption of property management practices, aiming at increasing productivity, coupled with socio-environmental criteria for property management and commodity production. For example GIPS / GTPS (Sustainable Livestock Indicators Guide / Sustainable Livestock Working Group).

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**Requesting member**
McDonald’s Corporation

**Category of project**
Soy

**Type of project**
Relationship sustainability assessment

**Estimated timeframe for realization of benefits to customer**
1-3 years
Details of project
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Requesting member
McDonald's Corporation

Commodity related to the project
Soy

Category of project
Traceability and transparency

Type of project
Other traceability and transparency projects, please specify (Social Environmental Monitoring System )

Estimated timeframe for realization of benefits to customer
1-3 years

Details of project
Encouraging the adoption of property management practices, aiming at increasing productivity, coupled with socio-environmental criteria for property management and commodity production. For example GIPS / GTPS (Sustainable Livestock Indicators Guide / Sustainable Livestock Working Group).
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Requesting member
Walmart - Brasil

Commodity related to the project
Cattle Products

Category of project
Relationship sustainability assessment

Type of project
Other relationship sustainability assessment projects, please specify (Social Environmental Monitoring System)

Estimated timeframe for realization of benefits to customer
1-3 years

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Requesting member
Walmart - Brasil

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Cattle Products

Category of project
Traceability and transparency

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Requesting member
Walmart - Brasil

Commodity related to the project
Cattle Products

Category of project
Other category, please specify (Supplier Development)

Type of project
Other, please specify (Supplier Development)

Estimated timeframe for realization of benefits to customer
1-3 years

Details of project
Encouraging the adoption of property management practices, aiming at increasing productivity, coupled with socio-environmental criteria for property management and commodity production. For example GIPS / GTPS (Sustainable Livestock Indicators Guide / Sustainable Livestock Working Group).

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Requesting member
Walmart - Brasil

Commodity related to the project
Soy

Category of project
Relationship sustainability assessment

Type of project
Other relationship sustainability assessment projects, please specify (Social Environmental Monitoring System)

Estimated timeframe for realization of benefits to customer
1-3 years

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Requesting member
Walmart - Brasil

Commodity related to the project
Soy

Category of project
Traceability and transparency

**Type of project**
Other traceability and transparency projects, please specify (Social Environmental Monitoring System)

**Estimated timeframe for realization of benefits to customer**
1-3 years

**Details of project**
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**Requesting member**
Walmart - Brasil

**Commodity related to the project**
Soy

**Category of project**
Other category, please specify (Supplier Development)

**Type of project**
Other, please specify (Supplier Development)

**Estimated timeframe for realization of benefits to customer**
1-3 years

**Details of project**
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**SF2.2**

(SF2.2) Have requests or initiatives by CDP supply chain members prompted your organization to take organizational-level action to reduce or remove deforestation/forest degradation from your operations or your supply chain?

Yes

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**SF2.2a**
(SF2.2a) Specify the requesting CDP supply chain member(s) that have driven organizational-level action to reduce or remove deforestation/forest degradation from your operations or your supply chain and provide details on how.

Requesting member
Arcos Dourados

Category of project
Policy and commitments

Type of project
Make a public commitment

Description of the project/initiative
Sustainable Meat Project: the new approach to the purchase of meat produced in the Amazon region, in accordance with defined socio-environmental criteria, is positive and opens up numerous opportunities for local development, increased productivity and environmental regularization of beef cattle farms.

Give an indication of the metric of success for the initiative
100% of product supply meets sustainability policies and commitments (deforestation).

Would you be happy for CDP supply chain members to highlight this work in their external communication?
Yes

Requesting member
McDonald’s Corporation

Category of project
Policy and commitments

Type of project
Setting a public policy

Description of the project/initiative
Global Sustainability Policy: The development of a global sustainability policy poses numerous challenges and opportunities for all links in the beef value chain.

Give an indication of the metric of success for the initiative
100% of product supply meets sustainability policies and commitments (deforestation).

Would you be happy for CDP supply chain members to highlight this work in their external communication?
Yes

Requesting member
Walmart - Brasil

Category of project
Policy and commitments

Type of project
Make a public commitment

Description of the project/initiative
Adherence to the Public Commitment of Livestock: Brazilian’s large supermarkets are joining the Public Livestock commitment in order to ensure that their customers are getting beef that meet social and environmental production criteria. This is a very important moment because the retail / wholesale are great negotiators and relate directly to consumers.

Give an indication of the metric of success for the initiative
100% of product supply meets sustainability policies and commitments (deforestation).

Would you be happy for CDP supply chain members to highlight this work in their external communication?
Yes

Submit your response
**In which language are you submitting your response?**

English

**Please confirm how your response should be handled by CDP**

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<th>Public or Non-Public Submission</th>
<th>I am submitting to</th>
<th>Are you ready to submit the additional Supply Chain Questions?</th>
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<td>Customers</td>
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**Please confirm below**

I have read and accept the applicable Terms