Tyson Foods, Inc. - Climate Change 2018

C0. Introduction

C0.1

(C0.1) Give a general description and introduction to your organization.

Tyson Foods Inc. (NYSE: TSN) is one of the world's largest food companies and a recognized leader in protein. Founded in 1935 by John W. Tyson and grown under three generations of family leadership, the company has a broad portfolio of products and brands like Tyson®, Jimmy Dean®, Hillshire Farm®, Ball Park®, Wright®, Aidells®, ibp® and State Fair®. Tyson Foods innovates continually to make protein more sustainable, tailor food for everywhere it's available and raise the world's expectations for how much good food can do. Headquartered in Springdale, Arkansas, the company had 122,000 team members at September 30, 2017. Through its Core Values, Tyson Foods strives to operate with integrity, create value for its shareholders, customers, communities and team members and serve as a steward of the animals, land and environment entrusted to it.

Please note: the reporting period end date was changed from 9/30/17 to 10/1/17 to comply with CDP's ORS requirement of providing a start date that is 364-367 days before the end date. However, Tyson Foods' fiscal year is 10/02/16 to 9/30/17.

C0.2

(C0.2) State the start and end date of the year for which you are reporting data.

	Start date	End date	Indicate if you are providing emissions data for past reporting years	Select the number of past reporting years you will be providing emissions data for
Row 1	October 2 2016	October 1 2017	No	<Not Applicable>
Row 2	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Row 3	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Row 4	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>

C0.3

(C0.3) Select the countries/regions for which you will be supplying data.

United States of America

C0.4

(C0.4) Select the currency used for all financial information disclosed throughout your response.

USD

C0.5

(C0.5) Select the option that describes the reporting boundary for which climate-related impacts on your business are being reported. Note that this option should align with your consolidation approach to your Scope 1 and Scope 2 greenhouse gas inventory.

Operational control

C-AC0.6/C-FB0.6/C-PF0.6

(C-AC0.6/C-FB0.6/C-PF0.6) Are emissions from agricultural/forestry, processing/manufacturing, distribution activities or emissions from the consumption of your products – whether in your direct operations or in other parts of your value chain – relevant to your current CDP climate change disclosure?

	Relevance
Agriculture/Forestry	Both own land and elsewhere in the value chain [Agriculture/Forestry only]
Processing/Manufacturing	Both direct operations and elsewhere in the value chain [Processing/manufacturing/Distribution only]
Distribution	Both direct operations and elsewhere in the value chain [Processing/manufacturing/Distribution only]
Consumption	Elsewhere in the value chain only [Agriculture/Forestry/processing/manufacturing/Distribution only]

C-AC0.7/C-FB0.7/C-PF0.7

(C-AC0.7/C-FB0.7/C-PF0.7) Which agricultural commodity(ies) that your organization produces and/or sources are the most significant to your business by revenue? Select up to five.

Agricultural commodity
Cattle products

% of revenue dependent on this agricultural commodity
20-40%

Produced or sourced
Sourced

Please explain
We participate in the open commodity market with our own set of regionally based cattle buyers. We negotiate our purchases with cattle feeders ranging from feedlots with thousands of head of cattle to small farming operations with just a few head of cattle. We do not own any cattle or feeding operations. Therefore, these animals are fed by independent farmers before being purchased by Tyson Foods for harvest.

Agricultural commodity
Soy

% of revenue dependent on this agricultural commodity
20-40%

Produced or sourced
Sourced

Please explain
As a vertically integrated poultry company, we operate feed mills to produce scientifically formulated feeds for our broiler chickens and turkeys. Corn and soybean meal are the primary raw materials used to produce feed. We procure corn and soybean meal on the commodity market. According to research from Water Footprint Network, 98% of the water associated with raising animals (not specific to chicken or turkeys) is associated with growing the grain fed to them.

Agricultural commodity
Other, please specify (Chicken products)

% of revenue dependent on this agricultural commodity
20-40%

Produced or sourced
Produced

Please explain
As a vertically integrated poultry company we produce our chicken products. There are seven stages in producing chicken for consumers including breeder flock, pullet farm, breeder house, hatchery, broiler farm, processing/further-processing, and distribution.

C1. Governance

C1.1

(C1.1) Is there board-level oversight of climate-related issues within your organization?
Yes

C1.1a

(C1.1a) Identify the position(s) of the individual(s) on the board with responsibility for climate-related issues.

Position of individual(s)	Please explain
Other, please specify (Governance/Nominating Committee of BOD)	Our approach to sustainability is multidimensional; we maintain an integrated strategy that allows us to drive improvements in all areas of sustainability. This strategy is supported by our President & CEO, with oversight from our BOD. Sustainability is directly connected to our corporate strategy – Sustainably feeding the world with the fastest growing protein brands. As a result, in 2017 we established the role of Exec. VP of Corp. Strategy and Chief Sustainability Officer, who reports to our President & CEO and regularly interacts with the company's BOD. He shares regular progress updates with the Governance & Nominating Committee of our BOD, reviews cash allocation and strategic intent with our Strategy & Acquisitions Committee and full BOD. This has led to new enterprise wide commitments, investments in new business models, investments in new technology, acquisitions in new spaces like organic poultry, bringing new stakeholders together and continued investment in our core ops.

C1.1b

(C1.1b) Provide further details on the board's oversight of climate-related issues.

Frequency with which climate-related issues are a scheduled agenda item	Governance mechanisms into which climate-related issues are integrated	Please explain
Scheduled – some meetings	Reviewing and guiding strategy Reviewing and guiding major plans of action Reviewing and guiding business plans	Our approach to sustainability is multidimensional, and we maintain an integrated strategy that allows us to drive improvements in all areas of sustainability. This strategy is supported by our President and CEO, with oversight from our Board of Directors. Our Executive Vice President of Corporate Strategy and Chief Sustainability Officer, who reports to our President and CEO and regularly interacts with the company's Board of Directors, shares regular progress updates with the Governance and Nominating Committee of our Board of Directors.

C1.2

(C1.2) Below board-level, provide the highest-level management position(s) or committee(s) with responsibility for climate-related issues.

Name of the position(s) and/or committee(s)	Responsibility	Frequency of reporting to the board on climate-related issues
Chief Sustainability Officer (CSO)	Both assessing and managing climate-related risks and opportunities	Quarterly

C1.2a

(C1.2a) Describe where in the organizational structure this/these position(s) and/or committees lie, what their associated responsibilities are, and how climate-related issues are monitored.

Tyson recognizes the importance of monitoring climate-related issues at a high level within the organization, therefore our Executive Vice President of Corporate Strategy and Chief Sustainability Officer, who reports to our President and CEO, is responsible for leading and implementing our sustainability strategy. He regularly interacts with the company's Board of Directors, and shares regular progress updates with the Governance and Nominating Committee of our Board of Directors. He is supported by a team of sustainability professionals who facilitate our goal-setting efforts, including actions to manage or mitigate risks as well as the pursuit of continual improvement opportunities related to animals, communities, the environment, food and the workplace.

Our Chief Sustainability Officer oversees the activities of the Chief Environmental Officer who provides corporate leadership, direction, and technical standards for the company's more than 450 environmental professionals and processes. More specifically, this position assesses, prioritizes, and manages all aspects of the company's environmental efforts across all segments of the company. This position also monitors the current-status of environmental compliance and activities for our operating locations in the U.S., China, and India, and institutes regular meetings with regulatory officials to share information, build relationships, and demonstrate Tyson's commitment to environmental excellence. Our internal Executive Environmental Council meets monthly to stay on top of the most critical items facing us environmentally across the enterprise.

In FY17, we further strengthened our sustainability governance structure by appointing internal senior leaders to serve as sustainability champions for each of our business operating segments. With support from procurement, engineering, sustainability, environmental services, human resources and other key corporate functions, these leaders are responsible for developing and launching activities that support the company in achieving its sustainability goals and commitments.

C1.3

(C1.3) Do you provide incentives for the management of climate-related issues, including the attainment of targets?

No

C2. Risks and opportunities

C2.1

(C2.1) Describe what your organization considers to be short-, medium- and long-term horizons.

	From (years)	To (years)	Comment
Short-term	0	2	We collaborated with World Resources Institute to create science-based targets for our Scope 1, 2 and 3 greenhouse gas emissions. In early 2018, we announced a reduction target of 30% by 2030 and submitted our target to the Science-based Target Initiative for review and approval. Our science-based target was officially approved by the SBTi on July 31, 2018.
Medium-term	2	5	We will implement our established roadmap for achieving a 30% reduction in GHG emissions by 2030. We will collaborate with various stakeholders, environmental groups, such as the Nature Conservancy and others, as well as academic experts to validate our approach and progress made. We will report our progress towards achieving our goal.
Long-term	5	10	We will implement our established roadmap for achieving a 30% reduction in GHG emissions by 2030. We will collaborate with various stakeholders, environmental groups, such as the Nature Conservancy and others, as well as academic experts to validate our approach and progress made. We will report our progress towards achieving our goal.

C2.2

(C2.2) Select the option that best describes how your organization's processes for identifying, assessing, and managing climate-related issues are integrated into your overall risk management.

There are no documented processes for identifying, assessing, and managing climate-related issues

C2.2e

(C2.2e) Why does your organization not have a process in place for identifying, assessing, and managing climate-related risks and opportunities, and do you plan to introduce such a process in the future?

	Primary reason	Please explain
Row 1	We are planning to introduce a risk identification, assessment, and management process in the next two years	We perform regular Compliance Risk Assessments. Potential compliance risk areas are identified based on multiple considerations: Known laws or regulations that apply to our business; Standards provided by the company's Code of Conduct and other voluntary codes; Legal and compliance risks disclosed in Tyson Foods' 10-K; and Previous compliance allegations, violations, enforcement actions, or settlements. We also acknowledge that increased government regulations to limit carbon dioxide and other greenhouse gas emissions as a result of concern over climate change may result in increased compliance costs, capital expenditures and other financial obligations. We use natural gas, diesel fuel and electricity in the manufacturing and distribution of our products. Legislation or regulation affecting these inputs could materially affect our profitability. In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this, we announced in May 2017 a collaboration with the World Resources Institute to become an industry leader by setting science-based GHS targets for our operations and our supply chain. In early 2018, we announced a target to reduce greenhouse gases 30% by 2030. Our science-based target was officially approved by the SBTi on July 31, 2018.

C2.3

(C2.3) Have you identified any inherent climate-related risks with the potential to have a substantive financial or strategic impact on your business?

Yes

C2.3a

(C2.3a) Provide details of risks identified with the potential to have a substantive financial or strategic impact on your business.

Identifier

Risk 1

Where in the value chain does the risk driver occur?

Direct operations

Risk type

Transition risk

Primary climate-related risk driver

Policy and legal: Increased pricing of GHG emissions

Type of financial impact driver

Policy and legal: Increased operating costs (e.g., higher compliance costs, increased insurance premiums)

Company- specific description

Some U.S. states, such as Washington and California continue to consider various options to control greenhouse gas emissions. Additionally, increased state regulations, such as those being considered in Illinois, to limit carbon dioxide and other greenhouse gas emissions as a result of concern over climate change could result in increased compliance costs, capital expenditures, and other financial obligations for us.

Time horizon

Short-term

Likelihood

Likely

Magnitude of impact
Medium

Potential financial impact
0

Explanation of financial impact
While a financial impact has not been calculated at this time, specific financial implications will depend on the nature and extent of any forthcoming regulatory requirements. Moreover, additional costs may be incurred to acquire and maintain emissions control technology.

Management method
Our Legal, Environmental, and Government Affairs teams monitor this issue on a regular basis.

Cost of management
0

Comment
While a specific cost of management has not been calculated at this time, we expect these costs to be minimal and likely to be integrated within our day to day business activities associated with maintaining compliance with regulatory laws and requirements.

Identifier
Risk 2

Where in the value chain does the risk driver occur?
Direct operations

Risk type
Physical risk

Primary climate-related risk driver
Chronic: Changes in precipitation patterns and extreme variability in weather patterns

Type of financial impact driver
Reduced revenue from decreased production capacity (e.g., transport difficulties, supply chain interruptions)

Company- specific description
Our ability to make, move and sell products is critical to our success. Natural disasters, fire, bioterrorism, pandemic or extreme weather, including droughts, floods, excessive cold or heat, hurricanes or other or interfere with our operations due to power outages, fuel shortages, decrease in availability of water, damage to our production and processing facilities or disruption of transportation channels, among other things.

Time horizon
Short-term

Likelihood
More likely than not

Magnitude of impact
Medium-low

Potential financial impact
0

Explanation of financial impact
While a financial impact has not been calculated at this time, specific financials implications will be variable and dependent on the nature of the change in precipitation extremes.

Management method
We maintain protocols, including special situations management and emergency preparedness and response procedures that allow us to address and help mitigate negative impacts. In FY16 we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain. In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Cost of management
0

Comment
While a specific cost of management has not been calculated at this time, we believe any additional costs would be low or already integrated within our day to day business activities.

Identifier
Risk 3

Where in the value chain does the risk driver occur?
Direct operations

Risk type
Transition risk

Primary climate-related risk driver
Reputation: Increased stakeholder concern or negative stakeholder feedback

Type of financial impact driver
Reputation: Reduced revenue from decreased demand for goods/services

Company- specific description
There is growing public concern, changes in consumer behavior, and increased stakeholder expectations for companies to do more to effectively manage and mitigate their environmental footprint. Increased focus on carbon intensive processes could present some risk to the image and reputation of the company.

Time horizon
Short-term

Likelihood
More likely than not

Magnitude of impact
Medium-low

Potential financial impact
0

Explanation of financial impact
While a financial impact has not been calculated at this time, we believe potential impacts would be variable to the extent of the changes in the perception of the company.

Management method
In May 2017, we announced a collaboration with the World Resources Institute to become an industry leader by setting science-based greenhouse gas (GHG) targets for our operations and our supply chain. In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Cost of management
0

Comment
While a specific cost of management has not been calculated at this time, we believe any additional costs would be low or already integrated within our day to day business activities related to voluntary reduction and efficiency improvement efforts.

C2.4

(C2.4) Have you identified any climate-related opportunities with the potential to have a substantive financial or strategic impact on your business?
Yes

C2.4a

(C2.4a) Provide details of opportunities identified with the potential to have a substantive financial or strategic impact on your business.

Identifier
Opp1

Where in the value chain does the opportunity occur?
Direct operations

Opportunity type
Resource efficiency

Primary climate-related opportunity driver
Use of more efficient production and distribution processes

Type of financial impact driver
Reduced operating costs (e.g., through efficiency gains and cost reductions)

Company- specific description
We are exploring design and efficiency solutions that include new technologies across our entire network focusing on natural gas and electricity usage.

Time horizon
Short-term

Likelihood
Likely

Magnitude of impact
Medium

Potential financial impact
0

Explanation of financial impact
We consider this information to be business confidential. However, we believe more efficient production and distribution processes could generate positive financial outcomes.

Strategy to realize opportunity
Our Environmental, Sustainable Food Production, and Engineering teams monitor for these opportunities on a regular basis.

Cost to realize opportunity
0

Comment
As with financial impact, we consider this information to be business confidential. However, these projects could require monetary, human and administrative resources.

Identifier
Opp2

Where in the value chain does the opportunity occur?
Direct operations

Opportunity type
Energy source

Primary climate-related opportunity driver
Use of lower-emission sources of energy

Type of financial impact driver
Reduced operational costs (e.g., through use of lowest cost abatement)

Company- specific description
We are considering renewable energy solutions, including fixed asset purchases along with Purchase Power Agreements (PPAs). This could potentially reduce our demand from non-renewable sources.

Time horizon
Medium-term

Likelihood
Likely

Magnitude of impact
Medium

Potential financial impact
0

Explanation of financial impact
We consider this information to be business confidential. However, we believe the ability to use energy from renewable sources could generate positive financial outcomes.

Strategy to realize opportunity
Our Environmental, Government Affairs, Commodities Procurement and Sustainable Food Production teams monitor for these opportunities on a regular basis.

Cost to realize opportunity
0

Comment
As with financial impact, we consider this information to be business confidential. However, these projects could require human and administrative resources.

Identifier
Opp3

Where in the value chain does the opportunity occur?
Direct operations

Opportunity type
Resilience

Primary climate-related opportunity driver
Participation in renewable energy programs and adoption of energy-efficiency measures

Type of financial impact driver
Increased reliability of supply chain and ability to operate under various conditions

Company- specific description
We are considering renewable energy solutions, including fixed asset purchases along with Purchase Power Agreements (PPAs). This could potentially reduce our demand from non-renewable sources.

Time horizon
Medium-term

Likelihood
Likely

Magnitude of impact
Low

Potential financial impact
0

Explanation of financial impact
We consider this information to be business confidential. However, we believe there is potential for a decrease total operations costs as a result of increased energy efficiency measures.

Strategy to realize opportunity
Continue with current processes to increase energy efficiency and minimize carbon emissions.

Cost to realize opportunity
0

Comment
As with financial impact, we consider this information to be business confidential. However, these opportunities could require monetary and administrative resources.

C2.5

(C2.5) Describe where and how the identified risks and opportunities have impacted your business.

	Impact	Description
Products and services	Not impacted	While it has not yet impacted our products, we recognize there is growing public concern and increasing stakeholder expectations for companies to mitigate their environmental footprint. As such, we collaborated with World Resources Institute in FY2017 to create science-based targets for our Scope 1, 2 and 3 greenhouse gas emissions. In early 2018, we announced a reduction target of 30% by 2030 and submitted our target to the Science-based Target Initiative for review and approval. Our science-based target was officially approved by the SBTi on July 31, 2018.
Supply chain and/or value chain	Impacted for some suppliers, facilities, or product lines	Our ability to make, move and sell products is critical to our success. Natural disasters, fire, bioterrorism, pandemic or extreme weather, including droughts, floods, excessive cold or heat, hurricanes or other or interfere with our operations due to power outages, fuel shortages, decrease in availability of water, damage to our production and processing facilities or disruption of transportation channels, among other things. As such, we collaborated with World Resources Institute in FY2017 to create science-based targets for our Scope 1, 2 and 3 greenhouse gas emissions. In early 2018, we announced a reduction target of 30% by 2030 and submitted our target to the Science-based Target Initiative for review and approval. Our science-based target was officially approved by the SBTi on July 31, 2018.
Adaptation and mitigation activities	Not yet impacted	We use energy in our everyday operations for powering processing equipment; cooking, chilling and freezing product; transporting product to distribution centers and customers; and more. The main types of energy we use in our operations include electricity, fossil fuels and biogas. We recognize renewable energy solutions, inclusive of fixed asset purchases along with PPAs, can reduce our environmental impact. We are considering investments in renewable energy solutions that can help users reduce our demand from non-renewable sources.
Investment in R&D	Not yet impacted	Tyson is exploring design and efficiency solutions inclusive of new technologies across its entire network focusing on natural gas and electricity usage. While the exact financial impacts are unknown, the ability to use energy from renewable sources could generate positive financial outcomes. However, it is likely that the cost of management could result in additional headcount and administrative costs.
Operations	Not yet impacted	Energy efficiency measures and participation in renewable energy programs can be adopted to lower overall operating costs and GHG Emissions. Some states continue to consider various options to control greenhouse gas emissions. Increased state regulations to limit carbon dioxide and other greenhouse gas emissions as a result of concern over climate change may result in increased compliance costs, capital expenditures, and other financial obligations for us. Specific financial implications will depend on the nature and extent of any forthcoming regulatory requirements. Additional costs may be incurred to acquire and maintain emissions control technology.
Other, please specify	Please select	Not applicable.

C2.6

(C2.6) Describe where and how the identified risks and opportunities have factored into your financial planning process.

	Relevance	Description
Revenues	Not yet impacted	We have identified that changes in precipitation patterns and extreme variability in weather patterns could negatively impact our ability to make, move, and sell products which would ultimately affect our revenues. Natural disasters, fire, bioterrorism, pandemic or extreme weather, including droughts, floods, excessive cold or heat, hurricanes or other climate change issues could interfere with our operations due to power outages, fuel shortages, decrease in availability of water, damage to our production and processing facilities or disruption of transportation channels, among other things in turn impacting our revenues. We have also identified that increased stakeholder concern or negative stakeholder feedback around our climate change policies could negatively impact our sales and revenues. We recognize that there is growing public concern, and increasing stakeholder expectations for companies to do more to effectively manage and mitigate their environmental footprint. As such, we collaborated with World Resources Institute in FY2017 to create science-based targets for our Scope 1, 2 and 3 greenhouse gas emissions. In early 2018, we announced a reduction target of 30% by 2030 and submitted our target to the Science-based Target Initiative for review and approval. Our science-based target was officially approved by the SBTi on July 31, 2018.
Operating costs	Not yet impacted	We have identified that increased costs to manage GHG emission or mandates on and regulation of existing products and services could negatively impact our operating costs. Some states continue to consider various options to control greenhouse gas emissions. Increased state regulations to limit carbon dioxide and other greenhouse gas emissions as a result of concern over climate change may result in increased financial obligations for us. We have also identified that the use of more efficient production and distribution processes, new technologies, and participation in renewable energy programs and the adoption of energy-efficiency measures could reduce our operating costs. Tyson is exploring design and efficiency solutions inclusive of new technologies across its entire network focusing on natural gas and electricity usage. We are also considering Renewable Energy solutions, inclusive of fixed asset purchases along with PPAs and implementing energy efficiency measures to lower overall operating costs and GHG.
Capital expenditures / capital allocation	We have not identified any risks or opportunities	Not applicable.
Acquisitions and divestments	We have not identified any risks or opportunities	Not applicable.
Access to capital	We have not identified any risks or opportunities	Not applicable.
Assets	We have not identified any risks or opportunities	Not applicable.
Liabilities	We have not identified any risks or opportunities	Not applicable.
Other	Please select	Not applicable.

C3. Business Strategy

C3.1

(C3.1) Are climate-related issues integrated into your business strategy?

Yes

C3.1a

(C3.1a) Does your organization use climate-related scenario analysis to inform your business strategy?

Yes, qualitative and quantitative

C-AC3.1b/C-CE3.1b/C-CH3.1b/C-CO3.1b/C-EU3.1b/C-FB3.1b/C-MM3.1b/C-OG3.1b/C-PF3.1b/C-ST3.1b/C-TO3.1b/C-TS3.1b)

(C-AC3.1b/C-CE3.1b/C-CH3.1b/C-CO3.1b/C-EU3.1b/C-FB3.1b/C-MM3.1b/C-OG3.1b/C-PF3.1b/C-ST3.1b/C-TO3.1b/C-TS3.1b) Indicate whether your organization has developed a low-carbon transition plan to support the long-term business strategy.

Yes

C3.1c

(C3.1c) Explain how climate-related issues are integrated into your business objectives and strategy.

We recognize the importance of climate change and have deployed initiatives to reduce emissions throughout our company. FY17 was a pivotal year for Tyson Foods as Sustainability became integral and defined as part of our publicly disclosed strategy. We announced a 30% reduction by 2030 in greenhouse gases and implemented the largest-ever land stewardship commitment by a U.S. protein company, which supports improved environmental practices on two million acres of cropland by 2020. We have also invested in plant-based protein company, Beyond Meat, and lab-grown meats company Memphis Meats.

C3.1d

(C3.1d) Provide details of your organization's use of climate-related scenario analysis.

Climate-related scenarios	Details
2DS	Science-based targets for Tyson's Scope 1 and Scope 2 inventories were developed using the absolute emissions contraction (AEC) method. The AEC method is based on the IPCC AR4 emissions scenario RCP 2.6 which indicates that emissions in 2050 decrease from 49 to 72 percent relative to 2010 (1.23 to 1.8 percent linear annual reductions). Using CDP's recommended equation Tyson calculated their Scope 1 and 2 targets using their Scope 1 and 2 emissions for 2016 of 5,421,370 metric tons. The calculated target for 2030 yielded 4,027,789 metric tons per year. This is a 25.7% reduction by 2030 from 2016 and an absolute reduction of 1,393,581 metric tons per year by 2030. Tyson selected a more aggressive target of 30% by 2030 from a base year of 2016. This yielded a target of 3,794,959 metric tons per year by 2030 and an absolute reduction of 1,626,411 metric tons per year by 2030. Tyson's Scope 3 emissions were initially calculated using the WRI Scope 3 Screening tool. Estimates of agricultural emissions indicate they comprise 90% of Tyson's purchased goods and services emissions, 80% of Tyson's total Scope 3 inventory emissions and 75% of Tyson's total Scope 1, 2 and 3 inventory emissions. Tyson committed to reduce Scope 3 agriculture GHG emissions from production of poultry, pork and beef by 30% per ton of finished meat by 2030 from a 2016 base-year. For the Science-based Targets initiative (SBTi), a methodology, called the Sectoral Decarbonization Approach (SDA) was developed by CDP, WRI, and WWF with technical support from Ecofys. The SDA builds on existing approaches that allocate a carbon budget to companies based on their relative contribution to the economy and uses a least-cost modelled 2° C scenario developed by the International Energy Agency (IEA 2DS). This model provides a cost-competitive mitigation pathway to stay below 2° C while accounting for variations in activity growth, mitigation potentials, and technological options for each sector. Within each sector, companies can derive their science-based emission reduction targets by accounting for their relative contribution to the total sector activity and their carbon intensity compared to the sector intensity. GHG emissions of Agriculture, Forestry, and Other Land-Use (AFOLU) are not modelled by IEA and were not included in the originally approved SDA methodology. However, funded by the KR Foundation, the University of Aberdeen, PBL Netherlands Environmental Assessment Agency, and Ecofys developed an additional methodology looking at key commodities of the AFOLU sector and developing emissions (CO2 and non-CO2) intensity pathways towards 2050 for these commodities. This methodology is currently under review by the SBTi. An online tool developed by Ecofys, the University of Aberdeen, and PBL Netherlands Environmental Assessment Agency uses production data to provide total cradle-to-farm gate emissions. Land-use change emissions are not included in the intensity pathways in this tool. Land-use change emissions can exceed other emissions in some regions, resulting in the land-use change emissions dominating the intensity pathway. Because it is difficult to accurately measure and account for land-use change emissions on a company level, it was decided by Ecofys that land-use change emissions would not be included in the intensity pathways. The Ecofys Model online tool allows the user to select the type of commodity and the region where the commodity is produced. For beef, pork, and chicken it uses production of fresh meat to calculate emissions. Tyson used this model and their actual 2016 production data and anticipated 2030 production data to assess emission intensity reductions for Scope 3 emissions from poultry, pork and beef. The EcoFys agriculture SBT tool results indicate a 30% intensity reduction for poultry, pork and beef by 2030 is a target in line with science-based target methodology.

C-AC3.1e/C-CE3.1e/C-CH3.1e/C-CO3.1e/C-EU3.1e/C-FB3.1e/C-MM3.1e/C-OG3.1e/C-PF3.1e/C-ST3.1e/C-TO3.1e/C-TS3.1e

(C-AC3.1e/C-CE3.1e/C-CH3.1e/C-CO3.1e/C-EU3.1e/C-FB3.1e/C-MM3.1e/C-OG3.1e/C-PF3.1e/C-ST3.1e/C-TO3.1e/C-TS3.1e) Disclose details of your organization's low-carbon transition plan.

In FY2017, we collaborated with the World Resources Institute (WRI) to establish our new "30 by 30" target to reduce our greenhouse gases (GHG) 30 percent by 2030. This target is designed to meet the criteria of the Science-based Targets initiative (SBTi) and is in accordance with the Paris Climate Agreement. Our science-based target was officially approved by the SBTi on July 31, 2018.

C4. Targets and performance

C4.1

(C4.1) Did you have an emissions target that was active in the reporting year?
Both absolute and intensity targets

C4.1a

(C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets.

Target reference number
Abs 1

Scope
Scope 1 +2 (market-based)

% emissions in Scope
100

% reduction from base year
30

Base year
2016

Start year
2017

Base year emissions covered by target (metric tons CO2e)
5421370

Target year
2030

Is this a science-based target?
Yes, this target has been approved as science-based by the Science-Based Targets initiative

% achieved (emissions)
0

Target status
New

Please explain
Target set according to the SBTi absolute emissions contraction method. Target exceeds CDP recommended 2.1% per year.

C4.1b

(C4.1b) Provide details of your emissions intensity target(s) and progress made against those target(s).

Target reference number
Int 1

Scope
Scope 3: Purchased goods & services

% emissions in Scope
80

% reduction from baseline year
30

Metric
Other, please specify (Metric ton CO2e per ton of meat)

Base year
2016

Start year
2017

Normalized baseline year emissions covered by target (metric tons CO2e)
7.77

Target year
2030

Is this a science-based target?
Yes, this target has been approved as science-based by the Science Based Targets initiative

% achieved (emissions)
0

Target status
New

Please explain
Tyson commits to reduce Scope 3 agriculture GHG emissions from production of poultry, pork and beef by 30% per ton of finished meat by 2030 from a 2016 base-year. Target set using the Ecofys SBT tool for Agricultural Commodities (uses the SDA method). 2016 average emissions intensity in the US per the EcoFys is 18.25 metric tons per ton of fresh meat for beef, 5.35 for pork and 2.34 for poultry for a weighted average of 7.77 metric tons CO2e per ton of fresh meat. Tyson's goal is a weighted average of 5.44 metric tons CO2e per ton of fresh meat. Emissions from the Ecofys model do not include emissions from land use change. Tyson will refine Scope 3 estimates as supplier data becomes available.

% change anticipated in absolute Scope 1+2 emissions
0

% change anticipated in absolute Scope 3 emissions
8

C4.2

(C4.2) Provide details of other key climate-related targets not already reported in question C4.1/a/b.

C4.3

(C4.3) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.
Yes

C4.3a

(C4.3a) Identify the total number of projects at each stage of development, and for those in the implementation stages, the estimated CO2e savings.

	Number of projects	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	15	
To be implemented*	0	0
Implementation commenced*	0	0
Implemented*	1	27662
Not to be implemented	0	

C4.3b

(C4.3b) Provide details on the initiatives implemented in the reporting year in the table below.

Activity type
Fugitive emissions reductions

Description of activity
Oil/natural gas methane leak capture/prevention

Estimated annual CO2e savings (metric tonnes CO2e)
27662

Scope
Scope 1

Voluntary/Mandatory
Voluntary

Annual monetary savings (unit currency – as specified in CC0.4)
1600000

Investment required (unit currency – as specified in CC0.4)
50000000

Payback period
>25 years

Estimated lifetime of the initiative
Ongoing

Comment
At six of our production locations, we have covered wastewater treatment lagoons that allow us to capture the biogas generated from the lagoons. Biogas is generated by bacteria-consuming nutrients in the wastewater, which then produce methane and carbon dioxide gases. We clean up the biogas by removing some of the sulphur and water, and then use the biogas in plant boilers at four of the six plants, allowing us to use less natural gas. This practice takes advantage of a renewable fuel source, helps reduce greenhouse gas emissions and reduces the amount of natural gas we need to purchase. In FY2017, we burned approximately 860 million cubic feet of biogas in our boilers. This is equivalent to the amount of natural gas used by 7,000 homes annually.

C4.3c

(C4.3c) What methods do you use to drive investment in emissions reduction activities?

Method	Comment
Dedicated budget for energy efficiency	During FY17, Tyson implemented a specific budget for Sustainability-related projects for FY18, which will include GHG reduction initiatives consisting of the following activities: Scope 1 & 2 1) Supply – eGrid improvements 2) Supply – Alternative Energy Solutions 3) Design – Wastewater Methane Capture 4) Design & Efficiency – Electricity 5) Design & Efficiency – Natural Gas / Propane Scope 3 1) Implement land stewardship practices

C-AC4.4/C-FB4.4/C-PF4.4

(C-AC4.4/C-FB4.4/C-PF4.4) Do you implement management practices on your own land with a climate change mitigation and/or adaption benefit?

No

C4.5

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products or do they enable a third party to avoid GHG emissions?

No

C5. Emissions methodology

C5.1

(C5.1) Provide your base year and base year emissions (Scopes 1 and 2).

Scope 1

Base year start
January 1 2004

Base year end
December 31 2004

Base year emissions (metric tons CO2e)
2569398

Comment

Scope 2 (location-based)

Base year start
January 1 2004

Base year end
December 31 2004

Base year emissions (metric tons CO2e)
2774265

Comment

Scope 2 (market-based)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

C5.2

(C5.2) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions.

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
US EPA Climate Leaders: Direct HFC and PFC Emissions from Use of Refrigeration and Air Conditioning Equipment
US EPA Climate Leaders: Direct Emissions from Stationary Combustion
US EPA Climate Leaders: Direct Emissions from Mobile Combustion Sources
US EPA Mandatory Greenhouse Gas Reporting Rule

C6. Emissions data

C6.1

(C6.1) What were your organization's gross global Scope 1 emissions in metric tons CO2e?

Row 1

Gross global Scope 1 emissions (metric tons CO2e)
3044704

End-year of reporting period
<Not Applicable>

Comment
Number confirmed with totals of individual facilities.

C6.2

(C6.2) Describe your organization's approach to reporting Scope 2 emissions.

Row 1

Scope 2, location-based
We are reporting a Scope 2, location-based figure

Scope 2, market-based
We have operations where we are able to access electricity supplier emission factors or residual emissions factors, but are unable to report a Scope 2, market-based figure

Comment
Electricity is purchased from local utility based on contractual agreement and/or location based relative to Tyson facilities.

C6.3

(C6.3) What were your organization's gross global Scope 2 emissions in metric tons CO2e?

Row 1

Scope 2, location-based
2597619

Scope 2, market-based (if applicable)
<Not Applicable>

End-year of reporting period
<Not Applicable>

Comment
Total confirmed with individual facilities.

C6.4

(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure?
No

C6.5

(C6.5) Account for your organization's Scope 3 emissions, disclosing and explaining any exclusions.

Purchased goods and services

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science-based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030. Our science-based target was officially approved by the SBTi on July 31, 2018.

Capital goods

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Fuel-and-energy-related activities (not included in Scope 1 or 2)

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Upstream transportation and distribution

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Waste generated in operations

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Business travel

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Employee commuting

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Upstream leased assets

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Downstream transportation and distribution

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Processing of sold products

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Use of sold products

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

End of life treatment of sold products

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Downstream leased assets

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Franchises

Evaluation status
Not relevant, explanation provided

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
We have no partnerships with franchises.

Investments

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Other (upstream)

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Other (downstream)

Evaluation status
Relevant, not yet calculated

Metric tonnes CO2e
0

Emissions calculation methodology
Not applicable

Percentage of emissions calculated using data obtained from suppliers or value chain partners
0

Explanation
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

C-AC6.6/C-FB6.6/C-PF6.6

(C-AC6.6/C-FB6.6/C-PF6.6) Can you breakdown your Scope 3 emissions by relevant business activity areas?
No

C-AC6.6b/C-FB6.6b/C-PF6.6b

(C-AC6.6b/C-FB6.6b/C-PF6.6b) Why can you not report your Scope 3 emissions by business activity area?

Row 1

Primary reason

We are planning to include in the next two years

Please explain

In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

C6.7

(C6.7) Are carbon dioxide emissions from biologically sequestered carbon relevant to your organization?

No

C-AC6.8/C-FB6.8/C-PF6.8

(C-AC6.8/C-FB6.8/C-PF6.8) Is biogenic carbon pertaining to your direct operations relevant to your current CDP climate change disclosure?

No

C-AC6.9/C-FB6.9/C-PF6.9

(C-AC6.9/C-FB6.9/C-PF6.9) Do you collect or calculate greenhouse gas emissions for each commodity reported as significant to your business in C-AC0.7/FB0.7/PF0.7?

Agricultural commodities
Cattle products

Do you collect or calculate GHG emissions for this commodity?
No, not currently but intend to collect or calculate this data within the next two years

Please explain
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Agricultural commodities
Soy

Do you collect or calculate GHG emissions for this commodity?
No, not currently but intend to collect or calculate this data within the next two years

Please explain
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

Agricultural commodities
Other (Chicken products)

Do you collect or calculate GHG emissions for this commodity?
No, not currently but intend to collect or calculate this data within the next two years

Please explain
In FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science- based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030.

C6.10

(C6.10) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO2e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

Intensity figure
0.18

Metric numerator (Gross global combined Scope 1 and 2 emissions)
5642324

Metric denominator
Other, please specify (Million pounds)

Metric denominator: Unit total
30942

Scope 2 figure used
Location-based

% change from previous year
2.21

Direction of change
Increased

Reason for change
Predominantly the increase is due to production increased 1.82%. The difference of 1.82% to 2.21% is most likely due to the product mixture where some products use slightly more energy per lbs of production. Mix and pricing figures into the percent change as well.

Intensity figure
0.15

Metric numerator (Gross global combined Scope 1 and 2 emissions)
5642324

Metric denominator
unit total revenue

Metric denominator: Unit total
38260000000

Scope 2 figure used
Location-based

% change from previous year
0.32

Direction of change
Increased

Reason for change
Predominantly the increase is due to production increased 1.82%. The difference of 1.82% to 2.21% is most likely due to the product mixture where some products use slightly more energy per lbs of production. Mix and pricing figures into the percent change as well.

C7. Emissions breakdowns

C7.1

(C7.1) Does your organization have greenhouse gas emissions other than carbon dioxide?
Yes

C7.1a

(C7.1a) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used greenhouse warming potential (GWP).

Greenhouse gas	Scope 1 emissions (metric tons of CO2e)	GWP Reference
CO2	2324753	IPCC Fourth Assessment Report (AR4 - 100 year)
CH4	715206	IPCC Fourth Assessment Report (AR4 - 100 year)
N2O	4745	IPCC Fourth Assessment Report (AR4 - 100 year)
HFCs	11192	IPCC Fourth Assessment Report (AR4 - 100 year)

C7.2

(C7.2) Break down your total gross global Scope 1 emissions by country/region.

Country/Region	Scope 1 emissions (metric tons CO2e)
United States of America	3044704

C7.3

(C7.3) Indicate which gross global Scope 1 emissions breakdowns you are able to provide.

By facility

C7.3b

(C7.3b) Break down your total gross global Scope 1 emissions by business facility.

Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
Albertville Complex	10692.48	34.274444	-85.803889
Berryville Complex	51111.22	36.369444	-92.4375
Carthage, MS (Choctaw) Complex	41075.23	32.825278	-88.464722
Carthage, TX Complex	8258.29	32.173611	-93.675278
Center Complex	18227.85	31.7925	-93.838333
Clarksville Complex	76067.8	35.477778	-92.544444
Corydon Complex	5924.58	38.208333	-85.875
Cumming Complex	17381.95	34.388889	-83.286667
Dardanelle Complex	19003.79	35.216667	-92.866667
Dexter Complex	17554.33	36.793549	-88.055514
Forest Complex	9362.39	32.358333	-88.508056
Forest RVAF	61484.52	32.362222	-88.549167
Fort Smith By Product	1255.07	35.395448	-93.59011
Glen Allen Complex	18506.04	37.6975	-76.448611
Grannis Complex	130089.94	34.240658	-93.664766
Harmony	35154.94	35.955556	-79.277778
Hope Complex	27524.45	33.635833	-92.4125
Jackson Complex	28.71	32.281056	-90.206898
Fayetteville Plant	12065.91	36.035777	-93.828609
Portland Indiana Mexican Original	7177.86	40.429601	-84.997068

Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
Sanford NC Mexican Original	17828.98	35.45977	-78.860312
Mississippi live Production Complex	13663.14	31.855	-88.284722
Monett Complex	36275.31	36.9175	-92.0875
Monroe Complex	22211.37	34.980556	-79.506944
Nashville Complex	32547.96	33.928056	-92.155833
New Holland Complex	37205.18	40.080556	-75.914444
Noel Complex	24646.44	36.559167	-93.508611
North Alabama Complex	66521.02	34.046667	-85.426111
Rogers Plant	8730.33	39.332222	-93.885278
Chick-n-Quick	16627.89	36.320833	-93.876389
Oxford Complex	1.6	33.608333	-84.156111
Pine Bluff Complex	38064.05	34.220278	-91.949167
Robards Complex	60387.29	37.658056	-86.480556
Scranton Complex	102663.86	35.383333	-92.433333
Sedalia Complex	96118.09	38.75	-92.675
Seguin Complex	18413.53	29.57998	-96.018062
Shelbyville Complex	19732.08	35.475	-85.520833
South Georgia Complex	19888.29	32.095	-82.227778
Springdale Complex	39951.15	36.191667	-93.875
Temperanceville Complex	42446.14	37.883333	-74.458333
Texarkana Complex	35112.67	33.532222	-92.19
Union City Complex	52820.47	36.421389	-89
No Little Rock	1405.8	34.75808	-91.77638
Tyler Rd. Proc	20305.1	35.269903	-92.91362
Van Buren Plant	1287.89	35.425294	-93.669351
Vicksburg Complex	12622.48	32.341667	-89.341667
Waldron Complex	15245.65	34.9125	-93.894444
Wilkesboro Complex	59087.51	36.145833	-80.8375
Amarillo	74718.24	35.258611	-100.357778
Council Bluffs Case Ready	6317.79	41.242177	-94.11221
Dakota City	70418.35	42.434722	-95.583333
Denison	349.65	42.001111	-94.621667
Emporia	14890.6	38.403591	-95.789015
Finney County	232983.2	38	-100.973889
Goodlettsville	4360.41	36.331399	-85.288913
Joslin	34518.5	41.584722	-89.774444
Lexington	44001.63	40.760986	-98.262938
Logansport	75780.35	40.765556	-85.608333
Louisa County	78701.68	41.295833	-90.647222
Madison	72097.39	41.817778	-96.531667
Olathe	259.79	38.838233	-93.176997
Ottawa Forward Warehouse	109.27	41.378679	-87.175673
Pasco	98655.55	46.136111	-117.088889
Perry	25005.36	40.841944	-93.873889
Sherman, TX	15124.46	33.580809	-95.394541
Storm Lake	40701.74	42.64	95.1875
Waterloo	36768.68	42.508611	92.261389
Bosco (Warren MI)	814.76	42.477843	-82.924096
Bruss - Chicago, IL	5468.99	41.945777	-86.262021
Bruss - Jacksonville	8390.35	30.34401	-80.259914
Buffalo, NY	81.63	42.871107	-77.146503
Cherokee, IA	481.44	42.730833	-94.444444

Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
Columbia, SC	7841	33.95691	-79.006344
Concordia, MO	4489.73	38.986389	-92.429444
Council Bluffs Prepared	2716.32	41.242177	-94.11221
Dallas, TX (Rosani)	8010.91	32.685132	-95.112841
Ft Worth, TX (Kettle)	6691.28	32.646057	-96.686481
Green Bay - Cedar Street	633.67	44.510053	-86.009363
Green Bay - Elizabeth Street	5391.29	44.509441	-86.017088
Houston Portwall	7970.84	29.78397	-94.720877
Hutchinson, KS	11688.12	38.045409	-96.067209
Independence	6394.37	42.470556	-90.095833
Jefferson, WI	1.51	43.000948	-87.190203
North Richland Hills	12225.13	32.857416	-96.753772
Omaha, NE	9486.95	41.202778	-95.000278
S. Hutchinson, KS (KPR)	17904.44	38.029151	-96.05721
San Diego, CA	3242.28	32.552674	-115.038221
Vernon, TX	19128.3	34.162997	-98.707561
Chicago, IL	21.28	41.829298	-87.96636
Claryville, KY	10714.97	38.910529	-83.618066
Florence AL	0.86	34.795825	-86.330185
Haltom City, TX	4935.07	32.822473	-96.71089
Haltom City (MC), TX (4000 Meacham)	7.49	32.823194	-96.712907
Kansas City, KS	4018.37	39.096223	-93.315611
Macon (MC)	191.53	32.731072	-82.271836
New London, WI	24703.76	44.371923	-87.266453
Newbern, TN	3828.07	36.140514	-88.728908
Pottsville (MC)	295.03	40.738048	-75.700025
Rancho Cucamonga 6th St. and Fulton St.	916.58	34.083761	-116.412025
Rochelle (MC)	289.8	41.922887	-88.958634
Rome, GA	2705.49	34.222176	-84.817231
San Lorenzo, CA	2534.66	37.66915	-121.847889
St. Joseph, MO	27511.21	39.756295	-93.242237
Storm Lake Farms	44539.01	42.639307	-94.816198
Tarboro, NC	12952.54	35.874637	-76.442509
Tolleson (MC)	81.2	33.440608	-111.710261
Traverse City, MI	7387.06	44.735438	-84.376653
Zeeland, MI	68580.26	42.918419	-85.974724
Corp Center (Dakota Dunes) (includes Tasco, FM hanger, N. Sioux City Dakota Tech	18099.47	42.503554	-95.518721
Fresh Meats	652.47	42.503554	-95.518721
Food Brands	353.44	32.686532	-95.112415
MEXICAN ORIGINAL	13.91	36.155	-93.845553
Oak Lawn, IL	0.84	41.876329	-86.357344
Tasco	6.55	35.237185	-100.313607
Corp Lab Building Included in Springdale Corp Office	1376.34	36.155	-93.845553
Corporate/Scalehouse Johnson Rd	22.8	36.147662	-93.843309
Fayetteville- Office (MLK BLVD)	24.09	36.053513	-93.808872
Print Shop (Johnson Rd)	39.8	36.147662	-93.843309
Records Retention (Dakota Dunes)	64.86	42.503554	-95.518721
River Valley Propane	5.78	35.217209	-93.161283
Springdale- 412 Bldg - 412 MIS Building	6.19	36.174044	-94.157658
Springdale Corporate Office - (includes Discover Center includes Corp Lab Buiilidings and R&D Pilot)	254070.34	36.155	-93.845553

Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
Tyson Aviation Department	45.72	36.284811	-93.696776
Mason OH Sales Office	3.8	39.303646	-84.308051
Chicago Service Ctr Office	4.88	41.876329	-86.357344
River Valley Animal	5031.3	36.155	-93.845553
PORK GROUP	1802.26	35.082084	-96.421608
Highstarr	6.84	36.356492	-94.133196
George Training Sow	43.6	35.272913	-96.200398
Williamson Finish	87.76	35.039167	-96.599167
Anderson Nursery	259.17	35.192011	-96.176081
Perkins Nursery	185.05	35.290019	-96.48356
County Line AI	49.59	35.288567	-96.339722
Delware AI	32.72	36.182925	-94.606862
Holcombe (same as SAP Propane) Farm	15.11	36.396303	-94.640742
Holdenville Complex	1382.45	35.082084	-96.421608
Armour, South Dakota	2.14	43.307055	-97.653475
Bancroft, IA	2.28	43.290978	-93.778051
Biehle, Missouri	2.28	37.60679	-88.162504
Bloomfield Iowa	2.28	41.392057	-91.176675
Bluffton, Indiana	3.85	40.732437	-84.816078
Burlington, Michigan	2.85	42.105467	-84.942233
Cambridge City, Indiana	2.14	39.803283	-84.834018
Cambridge, Illinois	2.28	41.552814	-89.774687
Carroll, Iowa	2.85	42.181705	-93.116848
Carthage, Illinois	4.42	40.415071	-91.061076
Coleman, South Dakota	2.85	43.978709	-95.248654
Conroy, Iowa	2.71	41.731037	-90.002515
Corunna, Indiana	2.85	41.437306	-84.841659
Creighton, Nebraska	2.57	42.439328	-96.103596
Crofton, Nebraska	3.14	42.851475	-96.533984
Delmar, Iowa	3.99	41.932536	-89.392987
DeMotte, Indiana	3.42	41.1457	-86.829219
Dixon, Illinois	2.79	41.82839	-88.524081
Donnellson, Iowa	2.28	40.639835	-91.581621
Elgin, Iowa	2.28	42.901398	-90.344657
Fancy Farm, Kentucky	2.85	36.831188	-87.216257
Farmersburg, Iowa	3.59	42.961166	-90.632075
Farmersburg/Waukon	2.71	43.236537	-91.462496
Fontanelle, Iowa	2.57	41.289518	-93.447182
Freeman, South Dakota	2.85	43.357429	-96.576891
Garner, Iowa	3.42	43.104199	-92.304638
Geneva, Minnesota	4.28	43.828435	-92.734784
Girard, Illinois	2.28	39.474256	-88.219102
Goodfield, Ilinois	2.28	40.640555	-88.727877
Greensburg, Indiana	4.99	39.284961	-84.359889
Harmony, Minnesota	2.39	43.562778	-92.009214
Hawk Point, Missouri	1.71	38.972762	-91.106363
Ireton, Iowa	5.42	42.993631	-95.687403
Jasper, Indiana	3.42	38.365791	-85.090565
Lakefield, Minnesota	2.85	43.668897	-94.820953
Lancaster Wisconsin	2.85	42.835037	-89.249078
Laurel, Nebraska	3.71	42.4673	-96.915752
Leipsic, Ohio	2.12	41.104994	-82.000196
Linden, Indiana	2.71	40.182349	-85.120889
Litchfield, Minnesota	2.99	45.152358	-93.444396

Facility	Scope 1 emissions (metric tons CO2e)	Latitude	Longitude
Lyndon, Illinois	2.85	41.721833	-88.089225
Manning, Iowa	2.28	41.906184	-94.942438
Mapleton, Minnesota	3.71	43.963772	-92.041725
Marion, Kentucky	2.57	37.345002	-87.933562
Marshall, Minnesota	4.28	44.470306	-94.21911
Morenci, Michigan	2.85	41.709218	-83.646747
Mt. Ayr, Iowa	2.85	40.702617	-94.27838
Mt. Blanchard, Ohio	2.85	40.90146	-82.437739
N. Manchester, Indiana	2.57	41.001279	-85.824497
Osage, Iowa	3.71	43.331033	-92.809616
Oskaloosa, Iowa	3.85	41.378708	-91.183589
Ottawa, Illinois	2.85	41.441525	-88.799144
Pella, Iowa	2.85	41.378557	-92.816132
Perryville, Missouri	2	37.604692	-89.840811
Pinckneyville, Illinois	2.42	38.040133	-89.409805
Portland, Indiana	2.28	40.401864	-84.977362
Prinsburg, Minnesota	2.85	44.934112	-94.791567
Ravenwood, Missouri	1.71	40.344271	-93.320112
Rock Rapids, Iowa	3.14	43.413852	-95.824123
Rossville, Indiana	3.59	40.448868	-86.623148
Rushford, Minnesota	2.55	43.792835	-90.270192
Rushville, Indiana	4.56	39.612999	-84.596278
Sheldon, Iowa	2.28	43.187404	-94.143875
Sleepy Eye, Minnesota	3.42	44.340767	-93.275161
St. Augstine, Ilinois	2.71	40.729343	-90.339768
Stilesville, Indiana	2.14	40.305122	-84.041757
Stockton, Iowa	3.85	41.635457	-89.140162
Sully, Iowa	3.99	41.553701	-91.165035
Sutton, Nebraska	3.71	40.601569	-96.140399
Truman, Minnesota	3.14	43.809632	-93.571117
Versailles, Ohio	2.28	40.223748	-83.417556
Villisca, Iowa	2.85	40.857364	-93.013926
Warsaw/Clunnette, Indiana	2.66	41.319343	-85.934588
Washington, Indiana	2.28	38.66449	-87.08022
Willow Hill, Illinois	3.42	39.010336	-88.028506
Wolcott, Indiana	2.66	40.768361	-87.040975
York, Nebraska	3.71	3.71	-97.598991

C7.3b.xlsx

C-AC7.4/C-FB7.4/C-PF7.4

(C-AC7.4/C-FB7.4/C-PF7.4) Do you include emissions pertaining to your business activity(ies) in your direct operations as part of your global gross Scope 1 figure?

Yes

C-AC7.4a/C-FB7.4a/C-PF7.4a

(C-AC7.4a/C-FB7.4a/C-PF7.4a) Select the form(s) in which you are reporting your agricultural/forestry emissions.

Total emissions

C-AC7.4b/C-FB7.4b/C-PF7.4b

(C-AC7.4b/C-FB7.4b/C-PF7.4b) Report the Scope 1 emissions pertaining to your business activity(ies) and explain any exclusions. If applicable, disaggregate your agricultural/forestry by GHG emissions category.

Activity
Agriculture/Forestry

Emissions category
<Not Applicable>

Emissions (metric tons CO2e)
0

Methodology
Default emissions factor

Please explain
All of the emissions except for de minimis emissions fall under process/manufacturing.

Activity
Processing/Manufacturing

Emissions category
<Not Applicable>

Emissions (metric tons CO2e)
3044704

Methodology
Default emissions factor

Please explain
All of the emissions except for de minimis emissions fall under process/manufacturing.

Activity
Distribution

Emissions category
<Not Applicable>

Emissions (metric tons CO2e)
0

Methodology
Default emissions factor

Please explain
All of the emissions except for de minimis emissions fall under process/manufacturing.

C7.5

(C7.5) Break down your total gross global Scope 2 emissions by country/region.

Country/Region	Scope 2, location-based (metric tons CO2e)	Scope 2, market-based (metric tons CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low-carbon electricity, heat, steam or cooling accounted in market-based approach (MWh)
United States of America	2597619	0	4282646	0

C7.6

(C7.6) Indicate which gross global Scope 2 emissions breakdowns you are able to provide.

By facility

C7.6b

(C7.6b) Break down your total gross global Scope 2 emissions by business facility.

Facility	Scope 2 location-based emissions (metric tons CO2e)	Scope 2, market-based emissions (metric tons CO2e)
Albertville Complex	16518.32	
Berryville Complex	93360.88	
Carthage, MS Complex	32824.72	
Carthage, TX Complex	10919.47	
Center Complex	33488.94	
Clarksville Complex	33494.02	
Corydon Complex	15304.13	
Cumming Complex	33230.29	
Dardanelle Complex	29058.57	
Dexter Complex	19794.69	
Forest Complex	21003.55	
Forest RVAF	18021.22	
Fort Smith By Product Complex	4562.5	
Glen Allen Complex	16720.14	
Grannis Complex	47545.69	
Harmony	7219.68	
Hope Complex	22042.37	
Jackson Complex	140.01	
Portland Indiana Mexican Original	11037.6	
Sanford NC Mexican Original	7261.92	
Fayetteville Plant	21875.59	
Mississippi live Production Complex	13591.35	
Monett Complex	20180.08	
Monroe Complex	21891.93	
Nashville Complex	29854.08	
New Holland Complex	18669.49	
Noel Complex	29060.05	
North Alabama Complex	29712.75	
Rogers Plant	5026.15	
Chick -N- Quik	44862.05	
Oxford Complex	79.61	
Pine Bluff Complex	39833.79	
Robards Complex	57026.24	
Scranton Complex	23052.69	
Sedalia Complex	90822.89	
Seguin Complex	15537.01	
Shelbyville Complex	31575.46	
South Georgia Complex	43528.64	
Springdale Complex	54813.44	
Temperanceville Complex	26276.14	
Texarkana Complex	16332.66	
Union City Complex	39078.89	
N. Little Rock	6357.39	
Tyler Rd	15301.82	

Facility	Scope 2 location-based emissions (metric tons CO2e)	Scope 2, market-based emissions (metric tons CO2e)
Van Buren Plant	6631.06	
Vicksburg Complex	17379.38	
Waldron Complex	27386.23	
Wilkesboro Complex	41637.45	
Amarillo	83183.81	
Council Bluffs (Case Ready)	16723.93	
Dakota City	114779.26	
Denison	1995.33	
Emporia	31063.08	
Finney County Plant and Slaughter	93630.29	
Goodlettsville (Case Ready)	30319.67	
Joslin	67150.43	
Lexington	56628.86	
Logansport	37087.19	
Louisa County	29674.35	
Madison	26778.66	
Norfolk	9.22	
Ottawa Forward Warehouse	1813.81	
Pasco	14431.15	
Perry	27612.64	
Sherman, TX	22647.24	
Sioux City Freezer	7571.07	
Storm Lake	53231.91	
Waterloo	59937.36	
Bosco (Warren MI)	3722.37	
Bruss - Chicago, IL	2608.15	
Bruss Jacksonville	3389.33	
Buffalo, NY	328.22	
Cherokee, IA	730.29	
Columbia, SC	8918.37	
Concordia, MO	8288.97	
Council Bluffs Prepared	15428.01	
Dallas, TX (Rosani)	13550.54	
Ft Worth, TX (Kettle)	16435.54	
Ft. Worth Rental Freezer	1864.68	
Green Bay - Cedar Street	1547.92	
Green Bay - Elizabeth Street	10622.65	
Houston Portwall	11493.3	
Hutchinson, KS	35730.18	
Independence	5117.15	
Jefferson, WI	887.2	
North Richland Hills	25967.73	
Olathe	22298.69	
Omaha, NE	28359.71	
S. Hutchinson, KS (KPR)	8624.62	
Santa Teresa	362.15	
Vernon, TX	13800.71	
San Diego CA	3915.77	
Claryville, KY	3701.02	
Florence AL	248.26	
Haltom City, TX	24181.39	
Haltom City (MC), TX (4000 Meacham)	3159.42	
Kansas City, KS	18300.87	
Macon (MC), GA	3900.77	

Facility	Scope 2 location-based emissions (metric tons CO2e)	Scope 2, market-based emissions (metric tons CO2e)
New London, WI	27824.13	
Newbern, TN	19313.58	
Pottsville (MC), PA	1892.55	
Rancho Cucmonga	319.35	
Rochelle (MC), IL	11242.11	
Rome, GA	4666.09	
San Lorenzo, CA	2607.9	
Seymour CT	7.14	
St. Joseph, MO	35910.13	
Storm Lake Farms	1669.95	
Storm Lake Processing	16631.34	
Storm Lake Farms (2)	2234.98	
Tarboro, NC	20164.36	
Tarboro, NC Leased Warehouse	55.19	
Tolleson (MC), AZ	2019.86	
Traverse City, MI	20127.32	
Zeeland, MI	56046.23	
Corporate Springdale Office	13498.89	
Springdale R&D Pilot Processing	4276.07	
Springtown Propane Tank	41.13	
Springdale- 412 Bldg - 412 MIS Building	540.65	
Corp Lab Building Included in Springdale Corp Office	1020.59	
Corporate/Scalehouse Johnson Rd	224.71	
Johnson Rd Print Shop	802.57	
Dakota City Ctr	0.03	
Corp Center (Dakota Dunes), hanger, N Sioux City, Tasco	3305.7	
Tyson Aviation Department	125.32	
Russellville TVDC	7288.62	
NWA Employment Center	0.74	
Springdale Terminal	21.07	
Springdale Gas Co	2.55	
Springdale Data Center	2304.78	
Kansas City Tynet	11.29	
Records Retention (Dakota Dunes)	6.65	
Fayetteville Office (MLK Building)	739.46	
West Point MS	4.39	
Downer's Grove 3131 Woodcreek Drive	2391.73	
Scottsdale AZ Leased Property	39.57	
Mason OH	0.12	
Chicago	668.11	
Earth City Leased Office	36.72	
Chicago Service Ctr Office Leased Office	14.74	
United Bank Building	0.85	
Washington DC Office	8.35	
Highstarr	3.14	
George Training Sow	141.04	
Williamson Finish	48.07	
Anderson Nursery	150.53	
Baxter Nursery	11.46	
Canary Nursery	2.35	
Dustin Nursery	3.42	
Lucas Nursery	0.45	
Middleton Nursery	0.79	

Facility	Scope 2 location-based emissions (metric tons CO2e)	Scope 2, market-based emissions (metric tons CO2e)
Perkins Nursery	77.6	
County Line AI	266.87	
Delware AI	55.28	
Clyde	0.2	
Holcombe	17.92	
Holdenville Complex	1474.36	
Armour, South Dakota	2.54	
Bancroft, IA	4.23	
Biehle, Missouri	2.6	
Bloomfield, Iowa	3.64	
Bluffton, Indiana	6.6	
Burlington, Michigan	10.02	
Cambridge City, Indiana	4.15	
Cambridge, Illinois	6.86	
Carroll, Iowa	6.5	
Carthage, Illinois	3.9	
Coleman, South Dakota	9.75	
Conroy, Iowa	4.88	
Corunna, Indiana	15.72	
Creighton, Nebraska	5.2	
Crofton, Nebraska	5.4	
Delmar, Iowa	2.96	
DeMotte, Indiana	8.8	
Dixon, Illinois	12.48	
Donnellson, Iowa	7.96	
Elgin, Iowa	17.7	
Fancy Farm, Kentucky	3.14	
Farmersburg, Iowa	4.68	
Farmersburg/Waukon, Iowa	4.49	
Fontanelle, Iowa	4.16	
Forrest, Illinois	14.58	
Fostoria, Ohio	9.21	
Freeman, South Dakota	6.29	
Galva, Illinois	3.98	
Garner, Iowa	4.03	
Geneva, Minnesota	29.25	
Girard, Illinois	3.43	
Goodfield, Ilinois	19.49	
Greensburg, Indiana	6.04	
Hamilton, Michigan	6.58	
Harmony, Minnesota	2.02	
Hawk Point, Missouri	2.34	
Ireton, Iowa	8.3	
Jasper, Indiana	6.57	
Lakefield, Minnesota	4.88	
Lancaster Wisconsin	5.07	
Laurel, Nebraska	6.44	
Leipsic, Ohio	19.18	
Linden, Indiana	14.84	
Litchfield, Minnesota	4.94	
Lyndon, Illinois	20.28	
Manning, Iowa	2.47	
Mapleton, Minnesota	5.01	
Marion Kentucky	2.62	

Facility	Scope 2 location-based emissions (metric tons CO2e)	Scope 2, market-based emissions (metric tons CO2e)
Marshall, Minnesota	2.92	
Morenci, Michigan	10.37	
Mt. Ayr, Iowa	12.77	
Mt. Blanchard, Ohio	3.21	
N. Manchester, Indiana	8.49	
Osage, Iowa	10.73	
Oskaloosa, Iowa	3.64	
Ottawa, Illinois	8.58	
Pella Iowa	14.3	
Perryville, Missouri	6.24	
Pinckneyville, Illinois	4.84	
Portland, Indiana	7.86	
Prinsburg, Minnesota	4.42	
Ravenwood, Wisconsin	2.78	
Rock Rapids, Iowa	4.88	
Rossville, Indiana	2.01	
Rushford, Minnesota	4.45	
Rushville, Indiana	4.21	
Sheldon, Iowa	4.23	
Sleepy Eye, Minnesota	4.23	
St. Augstine, Ilinois	2.73	
Stilesville, Indiana	2.96	
Stockton, Iowa	5.85	
Sully, Iowa	3.25	
Sutton, Nebraska	4.1	
Truman, Minnesota	6.83	
Versailles, Ohio	13.59	
Villisca, Iowa	8.39	
Warsaw/Clunnette, Indiana	5.46	
Washington, Indiana	14.58	
Willow Hill, Illinois	9.36	
Wolcott, Indiana	8.08	
York, Nebraska	5.53	

C7.9

(C7.9) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year?

Increased

C7.9a

(C7.9a) Identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined) and for each of them specify how your emissions compare to the previous year.

	Change in emissions (metric tons CO2e)	Direction of change	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	26.65	Decreased	0.09	Less biogas was consumed for plant energy in 2017 due to a reduction in certain facilities' production of biogas. Biogas was reduced due to more recovery of waste routed to the WWTP.
Other emissions reduction activities	0	No change	0	Not applicable
Divestment	0	No change	0	Not applicable
Acquisitions	0	No change	0	Not applicable
Mergers	0	No change	0	Not applicable
Change in output	220000	Increased	3.78	Predominantly the increase is due to production increased 1.82%. The remainder of the change is most likely due to the product mixture where some products use slightly more energy per lbs of production.
Change in methodology	0	No change	0	Not applicable
Change in boundary	0	No change	0	Not applicable
Change in physical operating conditions	0	No change	0	Not applicable
Unidentified	0	No change	0	Not applicable
Other	0	No change	0	Not applicable

C7.9b

(C7.9b) Are your emissions performance calculations in C7.9 and C7.9a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

Location-based

C8. Energy

C8.1

(C8.1) What percentage of your total operational spend in the reporting year was on energy?

More than 0% but less than or equal to 5%

C8.2

(C8.2) Select which energy-related activities your organization has undertaken.

	Indicate whether your organization undertakes this energy-related activity
Consumption of fuel (excluding feedstocks)	Yes
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	No
Consumption of purchased or acquired steam	No
Consumption of purchased or acquired cooling	No
Generation of electricity, heat, steam, or cooling	Yes

C8.2a

(C8.2a) Report your organization's energy consumption totals (excluding feedstocks) in MWh.

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total MWh
Consumption of fuel (excluding feedstock)	HHV (higher heating value)	295741	8493417	8789158
Consumption of purchased or acquired electricity	<Not Applicable>	0	4282646	4282646
Consumption of purchased or acquired heat	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired steam	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of purchased or acquired cooling	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Consumption of self-generated non-fuel renewable energy	<Not Applicable>	0	<Not Applicable>	0
Total energy consumption	<Not Applicable>	295741	12776063	13071804

C8.2b

(C8.2b) Select the applications of your organization's consumption of fuel.

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	Yes
Consumption of fuel for the generation of steam	Yes
Consumption of fuel for the generation of cooling	No
Consumption of fuel for co-generation or tri-generation	No

C8.2c

(C8.2c) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.

Fuels (excluding feedstocks)
Biogas

Heating value
HHV (higher heating value)

Total fuel MWh consumed by the organization
293868.62

MWh fuel consumed for the self-generation of electricity
0

MWh fuel consumed for self-generation of heat
0

MWh fuel consumed for self-generation of steam
0

MWh fuel consumed for self-generation of cooling
<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration
<Not Applicable>

Fuels (excluding feedstocks)
Fuel Oil Number 2

Heating value
HHV (higher heating value)

Total fuel MWh consumed by the organization
327177

MWh fuel consumed for the self-generation of electricity
0

MWh fuel consumed for self-generation of heat
0

MWh fuel consumed for self-generation of steam
0

MWh fuel consumed for self-generation of cooling
<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration
<Not Applicable>

Fuels (excluding feedstocks)
Landfill Gas

Heating value
HHV (higher heating value)

Total fuel MWh consumed by the organization
1872

MWh fuel consumed for the self-generation of electricity
0

MWh fuel consumed for self-generation of heat
0

MWh fuel consumed for self-generation of steam
0

MWh fuel consumed for self-generation of cooling
<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration
<Not Applicable>

Fuels (excluding feedstocks)
Liquefied Petroleum Gas (LPG)

Heating value
HHV (higher heating value)

Total fuel MWh consumed by the organization
342481

MWh fuel consumed for the self-generation of electricity
0

MWh fuel consumed for self-generation of heat
0

MWh fuel consumed for self-generation of steam
0

MWh fuel consumed for self-generation of cooling
<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration
<Not Applicable>

Fuels (excluding feedstocks)
Natural Gas

Heating value
HHV (higher heating value)

Total fuel MWh consumed by the organization
7823760

MWh fuel consumed for the self-generation of electricity
0

MWh fuel consumed for self-generation of heat
0

MWh fuel consumed for self-generation of steam
0

MWh fuel consumed for self-generation of cooling
<Not Applicable>

MWh fuel consumed for self- cogeneration or self-trigeneration
<Not Applicable>

C8.2d

(C8.2d) List the average emission factors of the fuels reported in C8.2c.

Biogas

Emission factor
52.07

Unit
kg CO2 per million Btu

Emission factor source
EPA GHG Reporting April 4, 2014

Comment

Fuel Oil Number 2

Emission factor
73.96

Unit
metric tons CO2 per million Btu

Emission factor source
EPA GHG Reporting April 4, 2014

Comment

Landfill Gas

Emission factor
52.07

Unit
kg CO2 per million Btu

Emission factor source
EPA GHG Reporting April 4, 2014

Comment

Liquefied Petroleum Gas (LPG)

Emission factor
61.71

Unit
kg CO2 per million Btu

Emission factor source
EPA GHG Reporting April 4, 2014

Comment

Natural Gas

Emission factor
53.06

Unit
metric tons CO2 per million Btu

Emission factor source
EPA GHG Reporting April 4, 2014

Comment

C8.2e

(C8.2e) Provide details on the electricity, heat, steam, and cooling your organization has generated and consumed in the reporting year.

	Total Gross generation (MWh)	Generation that is consumed by the organization (MWh)	Gross generation from renewable sources (MWh)	Generation from renewable sources that is consumed by the organization (MWh)
Electricity	0	0	0	0
Heat	8789158	8789158	295741	295741
Steam	0	0	0	0
Cooling	0	0	0	0

C8.2f

(C8.2f) Provide details on the electricity, heat, steam and/or cooling amounts that were accounted for at a low-carbon emission factor in the market-based Scope 2 figure reported in C6.3.

Basis for applying a low-carbon emission factor
No purchases or generation of low-carbon electricity, heat, steam or cooling accounted with a low-carbon emission factor

Low-carbon technology type
<Not Applicable>

MWh consumed associated with low-carbon electricity, heat, steam or cooling
<Not Applicable>

Emission factor (in units of metric tons CO2e per MWh)
<Not Applicable>

Comment
Tyson does not actively seek out low carbon electricity at this time.

C9. Additional metrics

C9.1

(C9.1) Provide any additional climate-related metrics relevant to your business.

C10. Verification

C10.1

(C10.1) Indicate the verification/assurance status that applies to your reported emissions.

	Verification/assurance status
Scope 1	No third-party verification or assurance
Scope 2 (location-based or market-based)	No third-party verification or assurance
Scope 3	No emissions data provided

C10.2

(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5?

No, we do not verify any other climate-related information reported in our CDP disclosure

C11. Carbon pricing

C11.1

(C11.1) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)?

No, and we do not anticipate being regulated in the next three years

C11.2

(C11.2) Has your organization originated or purchased any project-based carbon credits within the reporting period?

No

C11.3

(C11.3) Does your organization use an internal price on carbon?

No, and we do not currently anticipate doing so in the next two years

C12. Engagement

C12.1

(C12.1) Do you engage with your value chain on climate-related issues?

Yes, other partners in the value chain

C12.1c

(C12.1c) Give details of your climate-related engagement strategy with other partners in the value chain.

We work toward continual improvement in finding new ways to reduce emissions, lower fuel consumption and decrease greenhouse gases, while improving the miles per gallon (MPG) performance of our fleet. As a partner in the EPA's SmartWay® program, we require all products be transported by SmartWay participating carriers. We implement several strategies to reduce our truck miles, including route optimization; shipping product directly to customer docks; using rail for product shipment instead of trucks when possible; and investing in ultra-light equipment that allows us to add product weight to our shipments and reduce the number of trucks on the road.

As another example, we are a founding member of the U.S. Roundtable for Sustainable Beef (USRSB). USRSB is an independent, multi-stakeholder, transparent effort focused on shaping the sustainability framework for the U.S. beef value chain. USRSB encourages and promotes continuous improvement in the U.S. beef value chain through several actions, including identifying sustainability indicators (inclusive of air and greenhouse gas emissions), establishing verification methodologies, generating field project data to test sustainability concepts, providing a forum for open discussion, information exchange and program development, and offering stakeholders an equal opportunity through membership participation.

Additionally, in FY16, we launched an initiative to better understand sustainability related risks and opportunities within our business with the intent of establishing strategies and programs to strengthen our social and environmental performance, including performance related to climate change. As part of this initiative as well as our deeper commitment to sustainable food production, we announced in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting science-based greenhouse gas (GHG) targets for our operations and our supply chain (i.e., Scope 1, 2, and 3). In early 2018, we announced a target to reduce greenhouse gases (GHG) 30 percent by 2030. We anticipate working with customers and suppliers on GHG reduction initiatives in the future.

Finally, while we don't own grain farms, we do buy corn and soybeans to feed our poultry, as do the independent farmers and ranchers who sell us cattle and pigs. We recently committed to support improved environmental practices on 2 million acres of corn production by the end of 2020. As farmers implement increasingly efficient land and nutrient management practices, the effects can be felt throughout the supply chain. Specifically, through optimized nutrient management, there will be less demand for fertilizer resulting in less energy used to produce the fertilizer; but more importantly, there will be less fertilizer applied per acre, resulting in reduced total nitrous oxide emissions. We will be collaborating with our supply chain and other stakeholders to achieve this goal.

C12.3

(C12.3) Do you engage in activities that could either directly or indirectly influence public policy on climate-related issues through any of the following?

Direct engagement with policy makers

C12.3a

(C12.3a) On what issues have you been engaging directly with policy makers?

Focus of legislation	Corporate position	Details of engagement	Proposed legislative solution
Energy efficiency	Support	We direct the National Chicken Council and the National Turkey Federation to lobby for EQIP (Environments Quality Incentives Program) and also do our own direct lobbying in support of the program. EQIP enables agricultural producers to identify ways to conserve energy on the farm through development of Agricultural Energy Management Plans (AgEMPs), and by providing financial assistance to implement conservation practices recommended in AgEMPs or other approved on-farm energy audits.	We support the legislation with no exceptions.
Clean energy generation	Support	We direct the National Chicken Council and the National Turkey Federation to lobby for REAP (Rural Energy for America Program) and also do our own direct lobbying in support of the program. REAP provides guaranteed loan financing and grant funding to agricultural producers and rural small businesses for renewable energy systems or to make energy efficiency improvements to existing energy using operations (e.g. Solar Chicken Houses).	We support the legislation with no exceptions.

C12.3f

(C12.3f) What processes do you have in place to ensure that all of your direct and indirect activities that influence policy are consistent with your overall climate change strategy?

While we currently do not have a formal process in place, we do maintain an Environmental, Legal, and Government Affairs team to help us monitor activities

C12.4

(C12.4) Have you published information about your organization's response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s).

Publication
In voluntary sustainability report

Status
Complete

Attach the document
CDP C12.4 Attachment.pdf

Content elements
Governance
Emissions figures
Emission targets

C14. Signoff

C-FI

(C-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

C14.1

(C14.1) Provide details for the person that has signed off (approved) your CDP climate change response.

	Job title	Corresponding job category
Row 1	Chief Sustainability Officer	Chief Sustainability Officer (CSO)

SC. Supply chain module

SC0.0

(SC0.0) If you would like to do so, please provide a separate introduction to this module.

Tyson Foods Inc. (NYSE: TSN) is one of the world's largest food companies and a recognized leader in protein. Founded in 1935 by John W. Tyson and grown under three generations of family leadership, the company has a broad portfolio of products and brands like Tyson®, Jimmy Dean®, Hillshire Farm®, Ball Park®, Wright®, Aidells®, ibp® and State Fair®. Tyson Foods innovates continually to make protein more sustainable, tailor food for everywhere it's available and raise the world's expectations for how much good food can do. Headquartered in Springdale, Arkansas, the company had 122,000 team members as of September 30, 2017. Through its Core Values, Tyson Foods strives to operate with integrity, create value for its shareholders, customers, communities and team members and serve as a steward of the animals, land and environment entrusted to it.

SC0.1

(SC0.1) What is your company's annual revenue for the stated reporting period?

	Annual Revenue
Row 1	38300000000

SC0.2

(SC0.2) Do you have an ISIN for your company that you would be willing to share with CDP?

Yes

SC0.2a

(SC0.2a) Please use the table below to share your ISIN.

	ISIN country code (2 letters)	ISIN numeric identifier and single check digit (10 numbers overall)
Row 1	US	9024941034

SC1.1

(SC1.1) Allocate your emissions to your customers listed below according to the goods or services you have sold them in this reporting period.

Requesting member
Wal-Mart Stores, Inc.

Scope of emissions
Scope 2

Emissions in metric tonnes of CO2e
976122

Uncertainty (±%)
20

Major sources of emissions
Our plants and trucks use electricity; various fuels which include biogas, diesel fuel, fuel oil, natural gas, and propane; and refrigerants. Our goal is to use renewable fuels like biogas from our wastewater treatment operations, where practical, and to make efficient use of energy to minimize emissions.

Verified
No

Allocation method
Other, please specify (Percent of consolidated sales)

Please explain how you have identified the GHG source, including major limitations to this process and assumptions made
The amount of GHG emissions allocated to Walmart are proportionate to the % of overall sales to them as outlined in our FY17 10-K. In FY17, Walmart accounted for 17.3% of our FY17 consolidated sales, therefore we allocated 17.3% of our overall Scope 1 & Scope 2 emissions to the production of their products. The generalized approach to the allocation is a limitation, but due to the sensitivity of the information in question, only publicly available information can be used to make the allocation.

SC1.2

(SC1.2) Where published information has been used in completing SC1.1, please provide a reference(s).

Page 4 of our Fiscal 2017 Form 10-K:

http://s1.q4cdn.com/900108309/files/doc_financials/2017/Q4/Tyson-2017-10K.pdf

Wal-Mart Stores, Inc. accounted for 17.3% of our fiscal 2017 consolidated sales. Sales to Wal-Mart Stores, Inc. were included in all of our segments. Any extended discontinuance of sales to this customer could, if not replaced, have a material impact on our operations. No other single customer or customer group represented more than 10% of fiscal 2017 consolidated sales.

SC1.3

(SC1.3) What are the challenges in allocating emissions to different customers, and what would help you to overcome these challenges?

Allocation challenges	Please explain what would help you overcome these challenges
Doing so would require we disclose business sensitive/proprietary information	At the current time, we are unable to provide customer specific allocations due to the sensitive/proprietary nature of the information and possible SEC violations by doing so. If a single customer or customer group did not make up more than 10% of our overall consolidated sales in a fiscal year, we do not disclosure the % of sales to them in our 10-K filing. Therefore, since the information is not publicly reported, we are unable to allocate emissions to them in this disclosure since it could violate the SEC regulation FD (fair disclosure).

SC1.4

(SC1.4) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

No

SC1.4b

(SC1.4b) Explain why you do not plan to develop capabilities to allocate emissions to your customers.

We are unable to provide customer specific allocations due to the sensitive/proprietary nature of the information and possible SEC violations by doing so. If a single customer or customer group did not make up more than 10% of our overall consolidated sales in a fiscal year, we do not disclosure the % of sales to them in our 10-K filing and will be unable to present such data via our CDP responses and risk violating the SEC regulation FD (fair disclosure).

SC2.1

(SC2.1) Please propose any mutually beneficial climate-related projects you could collaborate on with specific CDP Supply Chain members.

Requesting member

Please select

Group type of project

Please select

Type of project

Please select

Emissions targeted

Please select

Estimated timeframe for carbon reductions to be realized

Please select

Estimated lifetime CO2e savings

Estimated payback

Please select

Details of proposal

SC2.2

(SC2.2) Have requests or initiatives by CDP Supply Chain members prompted your organization to take organizational-level emissions reduction initiatives?

No

SC3.1

(SC3.1) Do you want to enroll in the 2018-2019 CDP Action Exchange initiative?

No

SC3.2

(SC3.2) Is your company a participating supplier in CDP's 2017-2018 Action Exchange initiative?

No

SC4.1

(SC4.1) Are you providing product level data for your organization's goods or services, if so, what functionality will you be using?

No, I am not providing data

SC4.2d

(SC4.2d) Have any of the initiatives described in SC4.2c been driven by requesting CDP Supply Chain members?

Please select

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

	Public or Non-Public Submission	I am submitting to	Are you ready to submit the additional Supply Chain Questions?
I am submitting my response	Public	Investors Customers	Yes, submit Supply Chain Questions now

Please confirm below

I have read and accept the applicable Terms