

Welcome to your CDP Water Security Questionnaire 2020

W0. Introduction

W0.1

(W0.1) Give a general description of 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 Foods and grown under three generations of family leadership, the company has a broad portfolio of products and brands like Tyson Foods®, 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 121,000 team members as of September 29, 2018. 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 9/28/19 to 10/1/19 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 9/30/18 to 9/28/19.

W-FB0.1a

(W-FB0.1a) Which activities in the food, beverage, and tobacco sector does your organization engage in?

- Agriculture
- Processing/Manufacturing
- Distribution

W0.2

(W0.2) State the start and end date of the year for which you are reporting data.

	Start date	End date
Reporting year	October 1, 2018	October 1, 2019

W0.3

(W0.3) Select the countries/areas for which you will be supplying data.

- United States of America

W0.4

(W0.4) Select the currency used for all financial information disclosed throughout your response.

USD

W0.5

(W0.5) Select the option that best describes the reporting boundary for companies, entities, or groups for which water impacts on your business are being reported.

Companies, entities or groups over which operational control is exercised

W0.6

(W0.6) Within this boundary, are there any geographies, facilities, water aspects, or other exclusions from your disclosure?

Yes

W0.6a

(W0.6a) Please report the exclusions.

Exclusion	Please explain
International Operations (outside U.S.)	Data for our international (outside US) operations is not available at this time. We are currently evaluating our management practices and partnerships in other countries to identify how to collect this information in the future.
Other	This footprint includes data from our U.S.-based operations. Information from our U.S.-based Cobb-Vantress , The Pork Group, hog buying stations and Keystone Foods are not included in this footprint.

W1. Current state

W1.1

(W1.1) Rate the importance (current and future) of water quality and water quantity to the success of your business.

	Direct use importance rating	Indirect use importance rating	Please explain
Sufficient amounts of good quality freshwater available for use	Vital	Important	Sufficient amounts of good quality freshwater is of vital importance for the production of all of our food products, and we recognize water of suitable quality and volume is a finite resource. Freshwater must be used and managed responsibly from farm

			<p>to finished product. It is vital because food safety and quality is our top priority, and water is essential to producing safe food. We aim to balance responsible water stewardship with protecting the quality and safety of our products. Indirectly, freshwater is also very important for the production of the animal products we source across our value chain (i.e., cattle), although we may be able to mediate some risk through supply chain diversification. We do not see this dependency on water in our direct and indirect operations becoming any less important in the future, which is why we take a holistic approach to water stewardship beginning with the responsible use of this resource in our operations.</p>
Sufficient amounts of recycled, brackish and/or produced water available for use	Important	Important	<p>We consider recycled water to be important but not vital to our direct business operations and our supply chain. Food safety and quality is our top priority and water is essential to producing safe food. Opportunities to use recycled water, while ensuring safety and quality, helps us deliver on our goals to water stewardship. We seek opportunities to use recycled water where feasible in our operations and supply chain in alignment with our goal for water stewardship. In accordance with USDA regulations, use of recycled water in food processing plants is currently limited to non-food contact applications. Outside of plant operations, we focus on beneficial re-use of recycled water. In the future we see the availability of recycled water as remaining important for direct and indirect uses as we seek to accomplish our water stewardship goals.</p>

W-FB1.1a

(W-FB1.1a) Which water-intensive agricultural commodities that your organization produces and/or sources are the most significant to your business by revenue?
Select up to five.

Agricultural commodities	% of revenue dependent on these agricultural commodities	Produced and/or sourced	Please explain

Cattle products	21-40	Sourced	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.
Soy	21-40	Sourced	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.
Other, please specify Chicken products	21-40	Produced	There are seven stages in producing chicken for consumers including breeder flock, pullet farm, breeder house, hatchery, broiler farm, processing/further-processing, and distribution. As a vertically integrated poultry company, we own each step of this process with the exception of the independent broiler chicken farmers who are independent contractors. We operate feed mills that produce scientifically formulated feeds for our chickens. Corn and soybean meal are two of the primary ingredients in chicken feed. Once the chickens are ready to harvest, they are transported to one of our harvesting plants. Food safety and quality is our top priority and water is essential to producing safe food. We aim to balance responsible water stewardship with protecting the quality and safety of our products.
Maize	21-40	Sourced	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.

W1.2

(W1.2) Across all your operations, what proportion of the following water aspects are regularly measured and monitored?

	% of sites/facilities/operations	Please explain
Water withdrawals – total volumes	76-99	Tyson Foods has implemented a third-party billing system and uses internal tracking mechanisms that provides access to water withdrawal data information for our US facilities. Many sites have flow meters (flow meters - method of measurement) which can be accessed as needed (frequency - daily or otherwise) to obtain flow data.
Water withdrawals – volumes by source	76-99	We have an understanding for almost all locations of the water source. Consumer confidence reports will list the water source(s). Some municipal sources use a combination of surface and ground water sources, and these cannot always be separated by volume. If a Tyson Foods site functions as the public water supply we will know the source. As noted for "Water Withdrawals – total volumes", many of these sites have flow meters (flow meters - method of measurement) which can be accessed as needed (frequency - daily or otherwise) to obtain flow data.
Water withdrawals quality	76-99	As a food company, and because our team members drink the water supplied in our plants, all water entering the plant must meet USEPA Primary Drinking Water Standards. If the water is withdrawn on Tyson Foods property and treated by Tyson Foods for use within the plant, the general water quality parameters are known (method of measurement – lab testing) in order to facilitate proper treatment to meet the previously mentioned drinking water Standards. This information is regularly gathered (frequency – per USEPA volume of withdrawal requirements) and documented.
Water discharges – total volumes	76-99	For locations where Tyson Foods holds a wastewater discharge permit from a state agency, water discharge is measured as part of the permit conditions. This is done using a flow meter or similar device (flow meter - method of measurement) to determine flow volumes on a daily basis (frequency – daily). For discharges to municipal systems, some systems monitor

		discharge flow. For those that do not, a conservative estimate can be made from the incoming water volume. In this case the incoming flow is metered as noted in "Water Withdrawals – total volumes".
Water discharges – volumes by destination	76-99	Water discharged either goes (1) to a Tyson Foods pre-treatment facility followed by a municipal treatment system; (2) directly to a municipal treatment system; or (3) to a Tyson full-treatment facility with a state issued direct discharge permit. We know which plants discharge to each type of location. This flow is measured using flow meters or similar devices (flow meter - method of measurement) (frequency – daily); see "water discharges – total volumes".
Water discharges – volumes by treatment method	76-99	This represents all of our full treatment facilities where we regularly monitor flow and quality prior to discharge. The remainder of our facilities discharge to municipal treatment facilities. This is done using a flow meter or similar device (flow meter - method of measurement) to determine flow volumes on a daily basis (frequency – daily).
Water discharge quality – by standard effluent parameters	76-99	Almost all of our US facilities are required to report discharge quality data to local and/or state regulatory bodies on a regular basis (method of measurement – lab testing). This data is gathered and reported in accordance with the facility discharge permit conditions (frequency – per USEPA volume of effluent requirements).
Water discharge quality – temperature	1-25	Very few Tyson Foods locations are required by their regulatory permits to monitor wastewater discharge temperatures. We do not monitor wastewater discharge temperatures at our other facilities. This data is gathered and reported in accordance with the facility discharge permit conditions.
Water consumption – total volume	76-99	We calculate our total water consumption at 100% of our US facilities (total withdrawals – total discharge). See metering and measuring notes form "Water Withdrawals – total volumes" and "Water Discharges – total volumes" (flow

		meter - method of measurement), (frequency – daily).
Water recycled/reused	1-25	At select plant locations we meter or otherwise measure water recycling and reuse. This includes wastewater irrigation and internal recycling. There are multiple other sites within Tyson Foods that reuse water, but it is not measured and there not capable of being quantified.
The provision of fully-functioning, safely managed WASH services to all workers	100%	100% of our US facilities provide WASH services to all workers (method of measurement –facility equipment testing). This is an OSHA regulatory requirement (frequency – per OSHA testing schedule).

W1.2b

(W1.2b) What are the total volumes of water withdrawn, discharged, and consumed across all your operations, and how do these volumes compare to the previous reporting year?

	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Total withdrawals	113,213	Lower	Water withdrawals were lower in 2019 as they were in 2018 and our water use intensity improved (decreased) during the same period. We attribute this to improved focus on water conservation and water savings projects. As we progress on our water stewardship goals we plan to further reduce intensity of water withdrawal in the future.
Total discharges	107,552	Lower	Water discharges were lower in 2019 as they were in 2018. This corresponds with lower water withdrawals. All water discharged either goes to a Tyson Foods treatment facility, or to a municipal treatment system. As we progress on our water stewardship goals we plan to further reduce intensity of water discharge in the future.
Total consumption	5,661	Lower	Water consumption was lower in 2019 as it was in 2018. This corresponds with lower water withdrawals. Tyson Foods' production processes have not changed substantially from the previous year and consumption is calculated

			as the difference between water withdrawal and discharge. As we progress on our water stewardship goals future water use intensity should decrease. Total consumption = total withdrawals – total discharges.
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W1.2d

(W1.2d) Indicate whether water is withdrawn from areas with water stress and provide the proportion.

	Withdrawals are from areas with water stress	% withdrawn from areas with water stress	Comparison with previous reporting year	Identification tool	Please explain
Row 1	Yes	1-10	About the same	WRI Aqueduct	We have worked with WRI to assess which production plants are considered to be in water stressed areas based on a combination of factors including exposure to mapped water stress, and water stress and risk of nutrient loss where we source animals and corn to feed those animals in our supply chain. As noted for "Water Withdrawals – total volumes", these sites have flow meters which can be accessed as needed (daily or otherwise) to obtain flow data.

W-FB1.2e

(W-FB1.2e) For each commodity reported in question W-FB1.1a, do you know the proportion that is produced/sourced from areas with water stress?

Agricultural commodities	The proportion of this commodity produced in areas with water stress is known	The proportion of this commodity sourced from areas with water stress is known	Please explain
Cattle products	Not applicable	Yes	Using the work we did with WRI, this value is based on an assumption that the commodity used at water stressed plants

			is 100% produced and sourced from a water stressed area. The data was obtained using the NorthStar Initiative for Sustainable Enterprise model and is believed to provide a very conservative estimate.
Soy	Not applicable	Yes	Using the work we did with WRI, this value is based on an assumption that the commodity used at water stressed plants is 100% produced and sourced from a water stressed area. The data was obtained using the NorthStar Initiative for Sustainable Enterprise model and is believed to provide a very conservative estimate.
Maize	Not applicable	Yes	Using the work we did with WRI, this value is based on an assumption that the commodity used at water stressed plants is 100% produced and sourced from a water stressed area. The data was obtained using the NorthStar Initiative for Sustainable Enterprise model and is believed to provide a very conservative estimate.
Other commodities from W-FB1.1a, please specify Chicken products	Yes	Not applicable	Using the work we did with WRI, this value is based on an assumption that the commodity used at water stressed plants is 100% produced and sourced from a water stressed area. The data was obtained using the NorthStar Initiative for Sustainable Enterprise model and is believed to provide a very conservative estimate.

W-FB1.2f

(W-FB1.2f) What proportion of the produced agricultural commodities reported in W-FB1.1a originate from areas with water stress?

Agricultural commodities	% of total agricultural commodity produced in areas with water stress	Please explain

Other produced commodities from W-FB1.2e, please specify Chicken products	1-10	This value aligns with the water stressed sites provided in W1.2d. We anticipate our future sourcing geographies for these commodities to remain consistent, so the percentage should stay approximately the same. Going forward we will utilize this information to provide additional focus on water stewardship activities in the affected areas.
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W-FB1.2g

(W-FB1.2g) What proportion of the sourced agricultural commodities reported in W-FB1.1a originate from areas with water stress?

Agricultural commodities	% of total agricultural commodity sourced from areas with water stress	Please explain
Cattle products	51-75	We anticipate our future sourcing geographies for these commodities to remain consistent, so the percentage should stay approximately the same. Going forward we will utilize this information to provide additional focus on water stewardship activities in the affected areas.
Soy	1-10	We anticipate our future sourcing geographies for these commodities to remain consistent, so the percentage should stay approximately the same. Going forward we will utilize this information to provide additional focus on water stewardship activities in the affected areas.
Maize	1-10	We anticipate our future sourcing geographies for these commodities to remain consistent, so the percentage should stay approximately the same. Going forward we will utilize this information to provide additional focus on water stewardship activities in the affected areas.

W1.2h

(W1.2h) Provide total water withdrawal data by source.

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Fresh surface water, including rainwater, water from wetlands, rivers, and lakes	Not relevant			This source is not relevant because Tyson Foods does not directly or indirectly control any withdrawal of

				water from fresh surface water, including rainwater, water from wetlands, rivers, and lakes for its operations. As noted in our response in W1.2 some municipal sources use a combination of surface and ground water sources, and these cannot always be separated by volume. We anticipate this will remain the same in the future.
Brackish surface water/Seawater	Not relevant			This source is not relevant because Tyson Foods does not withdrawal water from brackish surface water/seawater for its operations. We anticipate this will remain the same in the future.
Groundwater – renewable	Relevant	22,643	Lower	This source is relevant because Tyson Foods directly withdraws groundwater from renewable aquifers for its operations. Water withdrawals were lower in 2019 as they were in 2018 and our water use intensity improved (decreased) during the same period. We attribute this to improved focus on water conservation and water savings projects. As we progress on our water stewardship goals we plan to further reduce intensity of water withdrawal in the future.
Groundwater – non-renewable	Not relevant			This source is not relevant because Tyson Foods does not withdrawal water from non-renewable groundwater for its operations. We

				anticipate this will remain the same in the future.
Produced/Entrained water	Not relevant			This source is not relevant because Tyson Foods does not withdrawal water from produced water for its operations. We anticipate this will remain the same in the future.
Third party sources	Relevant	90,570	Lower	This source is relevant because Tyson Foods withdraws water from third-party sources. e.g. municipalities for its operations. Water withdrawals were lower in 2019 as they were in 2018 and our water use intensity improved (decreased) during the same period. We attribute this to improved focus on water conservation and water savings projects. As we progress on our water stewardship goals we plan to further reduce intensity of water withdrawal in the future .

W1.2i

(W1.2i) Provide total water discharge data by destination.

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Fresh surface water	Relevant	49,157	Lower	This source is relevant because Tyson Foods discharges water to fresh surface water sources from its operations. Water usage and subsequent discharges were lower in 2019 as they were in 2018 and our water use and discharge intensity improved (decreased) during the same period. We

				attribute this to improved focus on water conservation and water savings projects. As we progress on our water stewardship goals we plan to further reduce intensity of water discharges in the future.
Brackish surface water/seawater	Not relevant			This source is not relevant because Tyson Foods does not discharge water from its operations to brackish surface water/seawater. We anticipate this will remain the same in the future.
Groundwater	Relevant	11,165	Lower	This source is relevant because Tyson Foods discharges water to groundwater sources from its operations. Water usage and subsequent discharges were lower in 2019 as they were in 2018 and our water use and discharge intensity improved (decreased) during the same period. We attribute this to improved focus on water conservation and water savings projects. As we progress on our water stewardship goals we plan to further reduce intensity of water discharges in the future
Third-party destinations	Relevant	47,230	Lower	This source is relevant because Tyson Foods discharges water to third-party sources, e.g. municipalities, from its operations. Water usage and subsequent discharges were lower in 2019 as they were in 2018 and our water use and discharge intensity improved (decreased) during the same period. We attribute this to improved focus on water conservation and water savings projects. As we progress on our water stewardship goals we plan to further reduce intensity of water discharges in the future

W-FB1.3

(W-FB1.3) Do you collect/calculate water intensity for each commodity reported in question W-FB1.1a?

Agricultural commodities	Water intensity information for this produced commodity is collected/calculated	Water intensity information for this sourced commodity is collected/calculated	Please explain
Cattle products	Not applicable	No, not currently and we have no plans to collect/calculate this data within the next two years	We are not currently collecting this information.
Soy	Not applicable	No, not currently and we have no plans to collect/calculate this data within the next two years	We are not currently collecting this information.
Maize	Not applicable	No, not currently and we have no plans to collect/calculate this data within the next two years	We are not currently collecting this information.
Other commodities from W-FB1.1a, please specify Chicken products	No, not currently and we have no plans to collect/calculate this data within the next two years	Not applicable	We are not currently collecting this information.

W1.4

(W1.4) Do you engage with your value chain on water-related issues?

Yes, our suppliers

Yes, our customers or other value chain partners

W1.4a

(W1.4a) What proportion of suppliers do you request to report on their water use, risks and/or management information and what proportion of your procurement spend does this represent?

Row 1

% of suppliers by number

1-25

% of total procurement spend

26-50

Rationale for this coverage

Our rationale for this coverage was based on what we thought would be attainable based on the number of feedlots / cattle enrolled in the program as well as commitments to customers. Our suppliers are incentivized through supplier preference.

Impact of the engagement and measures of success

In 2018, we demonstrated our commitment to supply chain transparency by becoming the first beef processor to license the Progressive Beef™ (PB) program, a comprehensive quality management system designed for cattle feeding operations that sell to companies like Tyson Foods. Cattle feeding operators certified in the program follow best practices for animal welfare, food safety, responsible antibiotic use and environmental sustainability (including wastewater management models and capturing run off). All of these practices are verified twice per year by both USDA-approved auditors and a representative of Progressive Beef. Measures of success include sustainability benchmarks related to efficient use of natural resources and employee safety rates and responsible antibiotic use. Licensing the program allows us to better collaborate with our supply chain and we use this information within the company to measure the progress we're making in beef sustainability.

Comment

We met our goal in 2019 to buy two million program cattle in the first year and plan to grow this to 50 percent of the total cattle purchased. Coverage for this question is based on the number of chicken, cattle, hog & turkey farmers we worked with in FY2019 (9,247). While the percent of suppliers by number (less than 1%), participating in the PB program is not large, it does represent several of our large suppliers & a substantial volume of the cattle procured, approximately 30% in FY19.

W1.4b

(W1.4b) Provide details of any other water-related supplier engagement activity.

Type of engagement

Innovation & collaboration

Details of engagement

Encourage/incentivize innovation to reduce water impacts in products and services
Educate suppliers about water stewardship and collaboration

% of suppliers by number

Less than 1%

% of total procurement spend

Less than 1%

Rationale for the coverage of your engagement

This is our first year of effort to have a very focused engagement effort with local suppliers in water stressed areas that we operate in.

Impact of the engagement and measures of success

Because we have just initiated this effort, there is no quantifiable measure of success. From a qualitative standpoint, there was a high level of engagement between Tyson Foods and the local suppliers, and this is considered a success.

Comment

This is our first year of effort to have a very focused engagement effort with local suppliers in water stressed areas that we operate in. We expect to expand this work to other water stressed production plant locations in the future.

W1.4c

(W1.4c) What is your organization's rationale and strategy for prioritizing engagements with customers or other partners in its value chain?

We engage in active partnerships with key stakeholders across our business, including team members, farmers, contract growers, NGOs, academic/research institutions and more, to fulfill our purpose of raising the world's expectations for how much good food can do. The strategy for these engagements is driven by (regular discussion and routine engagement) that includes prioritizing our external stakeholders and including their views on what is most relevant to the company from a sustainability perspective. That way we can focus our efforts on what matters to our customers and other partners in our value chain.

Our partnership with Environmental Defense Fund (EDF) in 2019 to develop and deploy initiatives to help meet increasing consumer demand for more sustainably grown food is one example of how our strategy was informed by this process. Our engagement success is measured by our ability to solicit feedback on our activities through maintaining open dialogue and communication with our valued stakeholders.

W2. Business impacts

W2.1

(W2.1) Has your organization experienced any detrimental water-related impacts?

Yes

W2.1a

(W2.1a) Describe the water-related detrimental impacts experienced by your organization, your response, and the total financial impact.

Country/Area & River basin

United States of America

Alabama River & Tombigbee

Type of impact driver & Primary impact driver

Physical
Pollution incident

Primary impact

Fines, penalties or enforcement orders

Description of impact

As reported in Tyson Foods 2020 Form 10-Q (page 45), on June 6, 2019, our poultry rendering facility in Hanceville, Alabama, acquired from American Proteins, Inc. in 2018, experienced a release of partially treated wastewater that reached a nearby river and resulted in a fish kill. We took remediation efforts following the release to mitigate impacts. The State of Alabama filed suit against Tyson Farms, Inc. on April 29, 2020 for the June 6, 2019 release, as well as a prior release. Related civil suits have also been filed, which include individual and collective claims for compensatory and punitive damages against us and other defendants for alleged contamination of the local water supply, property damage, diminution in property values, loss of recreational waterway use, lost non-profit revenue and business damages. Certain plaintiffs also allege that the facility's historical and ongoing operations constitute a nuisance under Alabama law and are also seeking injunctive relief.

Primary response

Increase capital expenditure

Total financial impact

0

Description of response

Tyson Foods plans to improve the wastewater treatment system at our Hanceville facility. It is anticipated we will pay a civil penalty in connection to the incident, however, the total financial impact is unknown at this time.

W2.2

(W2.2) In the reporting year, was your organization subject to any fines, enforcement orders, and/or other penalties for water-related regulatory violations?

Yes, fines, enforcement orders or other penalties but none that are considered as significant

W2.2a

(W2.2a) Provide the total number and financial value of all water-related fines.

Row 1

Total number of fines

4

Total value of fines

3,971

% of total facilities/operations associated

2.5

Number of fines compared to previous reporting year

Higher

Comment

All of these fines represent relatively minor permit discharge noncompliance events.

Each of the events was addressed and corrected.

W3. Procedures

W-FB3.1

(W-FB3.1) How does your organization identify and classify potential water pollutants associated with its food, beverage, and tobacco sector activities that could have a detrimental impact on water ecosystems or human health?

Tyson Foods has policies and processes in place for identifying and classifying potential water pollutants. Internally, almost all of our US facilities are required to report discharge water quality data to local and/or state regulatory bodies on a regular basis. This data is gathered and reported in accordance with the facility discharge permit conditions. We understand that the world needs a more sustainable food system, predicated on improved land and fertilizer management, and it's up to companies like Tyson Foods to set the pace with bold goals that help protect the planet while also enabling us to feed a growing world.

Water is essential to producing safe food. We aim to balance responsible water stewardship with protecting the quality and ensuring the safety of our products. To date, Tyson Foods has prioritized water efficiency in production facilities¹, with a target of reducing our water use intensity 12% by 2020 against a baseline from FY2015. We have made progress toward this goal with efforts such as reusing process water, as Tyson Foods Fresh Meats did in 2019 with water from carcass washes and other machinery. Since our baseline year, we have achieved a 6.8% reduction against our 12% target. While these changes are making an impact, our processing facilities are responsible for only a small portion of our total water consumption. To broaden our water stewardship efforts, Tyson Foods worked with the World Resources Institute (WRI) to assess water risk and develop a water stewardship strategy. The water risk assessment focused on exposure to water stress across our processing facilities, locations where we source animals and locations where we source corn to feed animals. The water risk assessment helped us identify priority locations to set goals informed by the local watershed context. Because the majority of Tyson Foods' water consumption is associated with producing animal feed or raising animals, very little of the water required for finished products is consumed at our facilities. To balance these priorities, we will set contextual water targets at certain facilities, recognizing that we have influence on local watersheds at our processing facilities. Contextual water targets will be based upon each facility's water withdrawal, exposure

to high water stress and proximity to our supply chain. Our contextual water targets also connect to our land stewardship efforts, as one of the aspects of our definition of land stewardship is water quality and conservation. The process of setting contextual water targets involves developing an understanding of shared water challenges of concern to Tyson Foods as well as surrounding communities. Read our water position statement to learn more about our prioritization scheme for contextual water targets.

W-FB3.1a

(W-FB3.1a) Describe how your organization minimizes the adverse impacts of potential water pollutants on water ecosystems or human health associated with your food, beverage, and tobacco sector activities.

Potential water pollutant

Other, please specify

Nutrients

Activity/value chain stage

Agriculture – supply chain

Description of water pollutant and potential impacts

Nutrients are used in the production of grains to ensure they receive enough nutrients for optimized growth. Tyson Foods does not own grain farms but buys corn and soybeans to feed its poultry. It also buys cattle and hogs from farmers and ranchers who use grain to feed their animals. Nutrients which are not properly managed can potentially make their way into streams, rivers, and the ocean and stimulate an overgrowth of algae. If this happens there could be a negative effect on aquatic ecosystems, and indirectly human health.

Management procedures

Soil conservation practices

Other, please specify

Nutrient management

Please explain

Tyson Foods encourages farmers to implement efficient land and nutrient management practices. Tyson Foods has made a goal to support improved environmental practices on two million acres of corn by the end of 2020. To reach the land stewardship target, we are engaging the broader allied industry and other stakeholders in establishing criteria that result in meaningful outcomes. We are also working with multiple organizations to develop programs to encourage corn farmers to adopt practices that optimize soil health, and that reduce fertilizer use and soil loss. Our success is being measured and evaluated by various environmental groups, such as the Environmental Defense Fund, as well as academic experts. We look forward to updating you, our stakeholders, on our progress when we have more to share.

W3.3

(W3.3) Does your organization undertake a water-related risk assessment?

Yes, water-related risks are assessed

W3.3a

(W3.3a) Select the options that best describe your procedures for identifying and assessing water-related risks.

Direct operations

Coverage

Partial

Risk assessment procedure

Water risks are assessed as a standalone issue

Frequency of assessment

Every three years or more

How far into the future are risks considered?

More than 6 years

Type of tools and methods used

Tools on the market

Other

Tools and methods used

WRI Aqueduct

Internal company methods

External consultants

Other, please specify

NorthStar database methodology

Comment

In 2018 Tyson Foods assessed our exposure to water risk for our direct operations, for each Business Unit (Poultry, Beef, Pork, Prepared Foods). We modeled the water stress in the areas where animals are procured for Tyson Foods' processing facilities, exposure to water stress for Raising Animals (Poultry, Beef, Pork), water stress in the areas where animals are procured, corn feed for raising animals, exposure to water stress in corn feed (Poultry, Beef, Pork), and nitrogen loading resulting from raising animals and corn feed (Poultry, Beef, Pork). The results of the assessment were used to identify priority locations for water stewardship activities.

Supply chain

Coverage

Partial

Risk assessment procedure

Water risks are assessed as a standalone issue

Frequency of assessment

Every three years or more

How far into the future are risks considered?

More than 6 years

Type of tools and methods used

Tools on the market

Other

Tools and methods used

WRI Aqueduct

Internal company methods

External consultants

Comment

In 2018 Tyson Foods modeled the water stress in the areas where animals are procured for Tyson Foods' processing facilities, exposure to water stress for Raising Animals (Poultry, Beef, Pork), water stress in the areas where animals are procured, corn feed for raising animals, exposure to water stress in corn feed (Poultry, Beef, Pork), and nitrogen loading resulting from raising animals and corn feed (Poultry, Beef, Pork). The results of the assessment were used to identify priority locations for water stewardship activities.

Other stages of the value chain

Coverage

None

Comment

Not Applicable

W3.3b

(W3.3b) Which of the following contextual issues are considered in your organization's water-related risk assessments?

	Relevance & inclusion	Please explain
Water availability at a basin/catchment level	Relevant, always included	In 2018 Tyson Foods reassessed our water availability and quality parameters all of our business units using WRI Aqueduct and NorthStar data (WRI Aqueduct and NorthStar data - tool used) to understand water availability at a basin/catchment level to strengthen our social and environmental performance (improved social and environmental performance - relevancy). We completed a

		review of water usage, infrastructure, conservation practices, and scarcity risks at our operations to help ensure we have a complete picture of the current operational sustainability of our company's water supplies. We then assessed our facility efficiency to identify opportunities for water resource optimization.
Water quality at a basin/catchment level	Relevant, always included	In 2018 Tyson Foods reassessed our water availability and quality parameters all of our business units using WRI Aqueduct and NorthStar data (WRI Aqueduct and NorthStar data - tool used) to understand water quality at a basin/catchment level to strengthen our social and environmental performance (improved social and environmental performance - relevancy). We completed a review of water usage, infrastructure, conservation practices, and scarcity risks at our operations to help ensure we have a complete picture of the current operational sustainability of our company's water supplies. We then assessed our facility efficiency to identify opportunities for water resource optimization.
Stakeholder conflicts concerning water resources at a basin/catchment level	Relevant, sometimes included	We actively monitor water risks at our US operations and are actively engaging with local communities and stakeholders (active PR engagement – tool used) to reduce our impact on water resources, and to collaborate on projects to ensure the longevity of water resources (future access to water resources – relevancy). This is not included in our global water risk assessment; however, this is specifically included as an action point at some of our high water risk facilities.
Implications of water on your key commodities/raw materials	Relevant, always included	Through our 2018 WRI Aqueduct Assessment leveraging NorthStar data (WRI Aqueduct and NorthStar data - tool used) to review water usage, infrastructure, conservation practices, and scarcity risks at our operations. Any impact of water on our key raw materials is directly relevant to our business continuity (business continuity – relevancy).
Water-related regulatory frameworks	Relevant, always included	Our US-based facilities for processing chicken, beef, pork, turkey and prepared foods, milling feed and housing live chickens and swine are subject to a variety of federal, state and local environmental laws and regulations, which include provisions relating to the discharge of materials into the environment and generally provide for protection of the environment, making this issue relevant for our business (legal compliance – relevancy). Tyson Foods maintains an Electronic Compliance Assurance Toolset (eCAT) system as well as other Tyson Foods databases

		that are designed to: • Track regulatory and company required environmental tasks; • Highlight receipt of environmental awards and recognition; • Archive details on accidental environmental releases • Automatically generate escalating e-mail notifications to multiple layers of management if environmental tasks are not managed in a timely manner; and • Capture information and tasks resulting from regulatory agency visits. We also provide access to electronic copies of permit documents and information via our internal SharePoint platform.
Status of ecosystems and habitats	Relevant, always included	The WRI Aqueduct Water Risk Atlas that we used as part of our Water Risk Assessment does include an element of ecosystem status (WRI Aqueduct – tool used). We are actively collaborating with local stakeholder groups and non-governmental organizations to develop best management practices for water use and conservation to ensure quality of water resources and ecosystems in our areas of operation (maintain water resource quality – relevancy) . For example, we set a goal to influence improved environmental practices on 2 million acres of corn production by the end of 2020. This is the largest-ever land stewardship commitment by a U.S. protein company and is expected to lower the greenhouse gas emissions generated by our supply chain. Tyson Foods defines land stewardship as the application of environmental and conservation best practices focused on soil health, water quality and conservation, nutrient stewardship, and wildlife habitat.
Access to fully-functioning, safely managed WASH services for all employees	Not relevant, explanation provided	We currently provide fully-functioning WASH services to employees at all of our US-based locations. This is not anticipated to become relevant to water-related risk assessment in the future.
Other contextual issues, please specify	Not considered	Not applicable.

W3.3c

(W3.3c) Which of the following stakeholders are considered in your organization's water-related risk assessments?

	Relevance & inclusion	Please explain

Customers	Relevant, always included	Our water risk assessment process is focused on our US operations and currently does not extend to our value chain or customers. Although not specifically targeted in our water risk assessment, we engage with our customers in virtually every aspect of our operations and business transactions and are attuned to their concerns and interests, including aspects of our environmental performance and management. For example, customers were interviewed during our 2018 Materiality Assessment, in which water was ranked as a material issue.
Employees	Relevant, always included	Although employees were incorporated into the water risk assessment process because they are a part of the local community that is being impacted by water risks. The results of the water risk assessment have been used to inform plant managers of potential water risks and foster discussion on water initiatives at a facility level. As part of our 2018 Materiality Assessment, we conducted interviews with key internal decision makers to inform the "importance to business" ratings. Additionally, we conducted an on-line survey of internal employees and asked them to rank the issues of greatest importance and concern to them. Water management was a highly ranked sustainability issue in our Materiality Assessment. Additionally, in FY2016, we announced a 12 percent water reduction goal by the end of 2020 for our direct operations. Currently, we have achieved 6.8 percent reduction.
Investors	Relevant, always included	Tyson Foods is aware of the information investors are seeking on the water risks of our operations. Our 2018 Materiality Assessment was a stakeholder engagement exercise designed to identify environmental, social, and governance issues that could potentially impact our business and stakeholders. Additionally, in FY2016, we announced a 12 percent water reduction goal by the end of 2020 for our direct operations. In the late summer/early fall FY16 and into FY17, 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 water management. In 2018 Tyson Foods collaborated with the World Resources Institute (WRI) to conduct a Water Risk Assessment. As part of this risk assessment we conducted an analysis of water risk and scarcity across our direct operations and our supply chain in the United States using the WRI Aqueduct tool. Eleven facilities were identified to be in high-risk areas.

Local communities	Relevant, always included	We actively monitor water risks at our US operations and are actively engaging with local communities and stakeholders to reduce our impact on water resources, and to collaborate on projects to ensure the longevity of water resources. We engage with local communities on aspects of water stewardship via strategic community involvement plans, donations, community outreach, environmental management systems, partnerships and sponsorships.
NGOs	Relevant, always included	Tyson Foods acknowledges the interest that NGOs have in water risks, the role they play in addressing water risks, and the importance of collaboration and partnerships for water stewardship initiatives and opportunities. We are actively collaborating with local stakeholder groups and non-governmental organizations to develop best management practices for water use and conservation to ensure quality of water resources and longevity of watersheds and river basins in our areas of operation. For example, we continue to collaborate with The Nature Conservancy to support projects intended to conserve water quality in rivers and streams throughout Northwest Arkansas and Southwest Missouri. The projects include stream restoration, reforestation, erosion prevention, unpaved road improvements, watershed research and community engagement in conservation projects throughout the area, including the Kings, Elk and the Buffalo National River.
Other water users at a basin/catchment level	Relevant, always included	Our U.S.-based operations are regularly in contact with local regulators, agricultural users, and other water users to inform them about issues of water use, quality, availability, and wastewater discharge. Information from these engagements is used in our greater enterprise risk management process.
Regulators	Relevant, always included	Water is the foundation of our food production operations, and we recognize water of suitable quality and volume is a finite resource. Success in this area requires a holistic approach to water stewardship beginning with the responsible use of this resource at our operations, including compliance with regulatory discharge permits and applicable regulations. Compliance with these laws and regulations, and the ability to comply with any modifications to these laws and regulations, is material to our business.
River basin management authorities	Relevant, always included	Water is the foundation of our food production operations, and we recognize water of suitable quality and volume is a finite resource. Success in this area requires a holistic approach to water stewardship beginning with the responsible use of this resource at our operations, including compliance with

		regulatory discharge permits and applicable regulations. Compliance with these laws and regulations, and the ability to comply with any modifications to these laws and regulations, is material to our business.
Statutory special interest groups at a local level	Relevant, always included	We are actively collaborating with local stakeholder groups and non-governmental organizations to develop best management practices for water use and conservation to ensure quality of water resources and longevity of watersheds and river basins in our areas of operation. We also engage with several trade associations on aspects of statutory interest.
Suppliers	Relevant, sometimes included	Our 2018 Water Risk Assessment was focused using the watershed our facilities are located in and included an evaluation and assumptions about our potential suppliers within that same watershed.
Water utilities at a local level	Relevant, sometimes included	Although water utilities and suppliers at a local level, we are actively collaborating with local stakeholder groups and non-governmental organizations to develop best management practices for water use and conservation to ensure quality of water resources and longevity of watersheds and river basins in our areas of operation. Our operations are in regular contact with local water utilities to manage water availability and quality, as well as water discharge requirements. Local level work with water utilities is specifically included as an action point at some of our high water risk facilities.
Other stakeholder, please specify	Not considered	Not applicable.

W3.3d

(W3.3d) Describe your organization's process for identifying, assessing, and responding to water-related risks within your direct operations and other stages of your value chain.

In the late summer/early fall FY16 and into FY17, 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 water management. As part of this initiative as well as our deeper commitment to sustainable food production, we maintain a collaboration with the World Resources Institute (WRI) to become an industry leader by setting outcome-based as well as context-based water conservation targets for our operations and our supply chain. Through the use of the WRI Aqueduct tool along with data from NorthStar, we evaluated assessed our exposure to water risk for our direct operations, within each Business Unit (Poultry, Beef, Pork, Prepared Foods). To accomplish this we modeled the water stress of raising animals procured for Tyson Foods' processing facilities, exposure to water stress for raising animals (Poultry, Beef, Pork), water consumption of corn feed for raising animals, exposure to water stress in

corn feed (Poultry, Beef, Pork), and nitrogen loading resulting from raising animals and corn feed (Poultry, Beef, Pork). We then went one step further to evaluate several facilities to identify opportunities for water usage efficiency. The results of the assessment were used to identify priority locations for water stewardship activities and set water risk reduction targets. The next activity was to apply Alliance for Water Stewardship guidance for creating water stewardship plans which can be used at the priority locations. The results of these efforts have been announced in our 2019 company sustainability report, and we have a schedule established to roll out water stewardship plans at the priority locations.

W4. Risks and opportunities

W4.1

(W4.1) Have you identified any inherent water-related risks with the potential to have a substantive financial or strategic impact on your business?

Yes, both in direct operations and the rest of our value chain

W4.1a

(W4.1a) How does your organization define substantive financial or strategic impact on your business?

Tyson Foods, Inc. does not have a comprehensive definition of "substantive impact," though, as a publicly-traded company, Tyson Foods, Inc. is subject to various regulatory and contractual standards related to the measurement, reporting, and disclosure of impacts to the company's business. Many of these standards are financial- and/or risk-based and are publicly available. Per our 2019 Annual Report on Form 10-K, we depend on the availability of raw materials and contract farmers/independent producers to supply us with livestock. We are committed to the responsible management of our water resources and acknowledge that significant changes in water availability could have a direct or indirect impact on our company and supply chain. We recognize water of suitable quality and volume is a finite resource.

That's why, we maintain a goal to reduce the amount of water used to produce each pound of product by 12%, by the end of 2020, using Fiscal 2015 as the baseline year. In 2018 Tyson Foods collaborated with the World Resources Institute (WRI) to conduct a Water Risk Assessment. As part of this risk assessment we conducted an analysis of water risk and scarcity across our direct operations and our supply chain in the United States using the WRI Aqueduct tool. Eleven facilities were identified to be in high-risk areas. The results of this collaboration was Tyson Foods to become an industry leader by setting outcome- based water conservation targets for our direct operations and our supply chain.

W4.1b

(W4.1b) What is the total number of facilities exposed to water risks with the potential to have a substantive financial or strategic impact on your business, and what proportion of your company-wide facilities does this represent?

	Total number of facilities exposed to water risk	% company-wide facilities this represents	Comment
Row 1	11	1-25	In 2018 Tyson Foods collaborated with the World Resources Institute (WRI) to conduct a Water Risk Assessment. As part of this risk assessment we conducted an analysis of water risk and scarcity across our direct operations and our supply chain in the United States using the WRI Aqueduct tool. Eleven facilities were identified to be in high-risk areas based on a combination of factors including exposure to mapped water stress, and water stress and risk of nutrient loss where we source animals and corn to feed those animals in our supply chain.

W4.1c

(W4.1c) By river basin, what is the number and proportion of facilities exposed to water risks that could have a substantive financial or strategic impact on your business, and what is the potential business impact associated with those facilities?

Country/Area & River basin

United States of America

Mississippi River

Number of facilities exposed to water risk

7

% company-wide facilities this represents

1-25

% company's total global revenue that could be affected

Less than 1%

Comment

Because of the size of the company and diversity of facilities, in the event of a water risk-related issue we can move production to another facility. This would alleviate any significant revenue impact.

Country/Area & River basin

United States of America

Trinity River (Texas)

Number of facilities exposed to water risk

2

% company-wide facilities this represents

1-25

% company's total global revenue that could be affected

Less than 1%

Comment

Because of the size of the company and diversity of facilities, in the event of a water risk-related issue we can move production to another facility. This would alleviate any significant revenue impact.

Country/Area & River basin

United States of America

San Antonio River

Number of facilities exposed to water risk

1

% company-wide facilities this represents

1-25

% company's total global revenue that could be affected

Less than 1%

Comment

Because of the size of the company and diversity of facilities, in the event of a water risk-related issue we can move production to another facility. This would alleviate any significant revenue impact.

Country/Area & River basin

United States of America

Other, please specify

Coastal area

Number of facilities exposed to water risk

1

% company-wide facilities this represents

1-25

% company's total global revenue that could be affected

Less than 1%

Comment

Because of the size of the company and diversity of facilities, in the event of a water risk-related issue we can move production to another facility. This would alleviate any significant revenue impact.

W4.2

(W4.2) Provide details of identified risks in your direct operations with the potential to have a substantive financial or strategic impact on your business, and your response to those risks.

Country/Area & River basin

United States of America
Mississippi River

Type of risk & Primary risk driver

Physical
Increased water stress

Primary potential impact

Increased operating costs

Company-specific description

We have worked with WRI to assess which production plants are considered to be in water stressed areas based on a combination of factors detailed in the WRI Aqueduct tool.

Timeframe

More than 6 years

Magnitude of potential impact

Medium

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure - minimum (currency)

Potential financial impact figure - maximum (currency)

Explanation of financial impact

We are unable to calculate the financial impact at this time.

Primary response to risk

Establish site-specific targets

Description of response

We recognize water of suitable quality and volume is a finite resource. Our goal is to reduce the amount of water used to produce each pound of product by 12%, by the end of 2020, using Fiscal 2015 as the baseline year. 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 contextual water targets as part of our water stewardship activities at our high water risk operations. This work is currently underway.

Cost of response

0

Explanation of cost of response

Establishing any site specific targets will be done primarily using internal company resources.

Country/Area & River basin

United States of America
Trinity River (Texas)

Type of risk & Primary risk driver

Physical
Increased water stress

Primary potential impact

Increased operating costs

Company-specific description

We have worked with WRI to assess which production plants are considered to be in water stressed areas based on a combination of factors detailed in the WRI Aqueduct tool.

Timeframe

More than 6 years

Magnitude of potential impact

Medium

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure - minimum (currency)

Potential financial impact figure - maximum (currency)

Explanation of financial impact

We are unable to calculate the financial impact at this time.

Primary response to risk

Establish site-specific targets

Description of response

We recognize water of suitable quality and volume is a finite resource. Our goal is to reduce the amount of water used to produce each pound of product by 12%, by the end of 2020, using Fiscal 2015 as the baseline year. 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 contextual water targets as part of our water stewardship activities at our high water risk operations. This work is currently underway.

Cost of response

0

Explanation of cost of response

Establishing any site specific targets will be done primarily using internal company resources.

Country/Area & River basin

United States of America

San Antonio River

Type of risk & Primary risk driver

Physical

Increased water stress

Primary potential impact

Increased operating costs

Company-specific description

We have worked with WRI to assess which production plants are considered to be in water stressed areas based on a combination of factors detailed in the WRI Aqueduct tool.

Timeframe

More than 6 years

Magnitude of potential impact

Medium

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure - minimum (currency)

Potential financial impact figure - maximum (currency)

Explanation of financial impact

We are unable to calculate the financial impact at this time.

Primary response to risk

Establish site-specific targets

Description of response

We recognize water of suitable quality and volume is a finite resource. Our goal is to reduce the amount of water used to produce each pound of product by 12%, by the end of 2020, using Fiscal 2015 as the baseline year. 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 contextual water targets as part of our water stewardship activities at our high water risk operations. This work is currently underway.

Cost of response

0

Explanation of cost of response

Establishing any site specific targets will be done primarily using internal company resources.

Country/Area & River basin

United States of America

Other, please specify

Coastal areas

Type of risk & Primary risk driver

Physical

Increased water stress

Primary potential impact

Increased operating costs

Company-specific description

We have worked with WRI to assess which production plants are considered to be in water stressed areas based on a combination of factors detailed in the WRI Aqueduct tool.

Timeframe

More than 6 years

Magnitude of potential impact

Medium

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure - minimum (currency)

Potential financial impact figure - maximum (currency)

Explanation of financial impact

We are unable to calculate the financial impact at this time.

Primary response to risk

Establish site-specific targets

Description of response

We recognize water of suitable quality and volume is a finite resource. Our goal is to reduce the amount of water used to produce each pound of product by 12%, by the end of 2020, using Fiscal 2015 as the baseline year. 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 contextual water targets as part of our water stewardship activities at our high water risk operations. This work is currently underway.

Cost of response

0

Explanation of cost of response

Establishing any site specific targets will be done primarily using internal company resources.

W4.2a

(W4.2a) Provide details of risks identified within your value chain (beyond direct operations) with the potential to have a substantive financial or strategic impact on your business, and your response to those risks.

Country/Area & River basin

United States of America
Mississippi River

Stage of value chain

Supply chain

Type of risk & Primary risk driver

Physical
Increased water stress

Primary potential impact

Increased operating costs

Company-specific description

Tyson Foods has worked with WRI to assess which upstream supply chains associated with water stresses impact the production plants identified in question 4.2.

Timeframe

More than 6 years

Magnitude of potential impact

Medium

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure - minimum (currency)

Potential financial impact figure - maximum (currency)

Explanation of financial impact

We are unable to calculate the financial impact at this time.

Primary response to risk

- Supplier engagement
- Establish supplier performance targets

Description of response

As part of establishing targets we will engage with other parties in the watershed to align Tyson Foods' action with other parties needs and concerns surrounding water.

Cost of response

0

Explanation of cost of response

This will be done primarily using internal company resources.

Country/Area & River basin

- United States of America
- Trinity River (Texas)

Stage of value chain

- Supply chain

Type of risk & Primary risk driver

- Physical
- Increased water stress

Primary potential impact

- Increased operating costs

Company-specific description

Tyson Foods has worked with WRI to assess which upstream supply chains associated with water stresses impact the production plants identified in question 4.2.

Timeframe

- More than 6 years

Magnitude of potential impact

- Medium

Likelihood

- Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure - minimum (currency)

Potential financial impact figure - maximum (currency)

Explanation of financial impact

We are unable to calculate the financial impact at this time.

Primary response to risk

Supplier engagement

Establish supplier performance targets

Description of response

As part of establishing targets we will engage with other parties in the watershed to align Tyson Foods' action with other parties needs and concerns surrounding water.

Cost of response

0

Explanation of cost of response

This will be done primarily using internal company resources.

Country/Area & River basin

United States of America

San Antonio River

Stage of value chain

Supply chain

Type of risk & Primary risk driver

Physical

Increased water stress

Primary potential impact

Increased operating costs

Company-specific description

Tyson Foods has worked with WRI to assess which upstream supply chains associated with water stresses impact the production plants identified in question 4.2.

Timeframe

More than 6 years

Magnitude of potential impact

Medium

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure - minimum (currency)

Potential financial impact figure - maximum (currency)

Explanation of financial impact

We are unable to calculate the financial impact at this time.

Primary response to risk

Supplier engagement

Establish supplier performance targets

Description of response

As part of establishing targets we will engage with other parties in the watershed to align Tyson Foods' action with other parties needs and concerns surrounding water.

Cost of response

0

Explanation of cost of response

This will be done primarily using internal company resources.

Country/Area & River basin

United States of America

Other, please specify

Coastal areas

Stage of value chain

Supply chain

Type of risk & Primary risk driver

Physical

Increased water stress

Primary potential impact

Increased operating costs

Company-specific description

Tyson Foods has worked with WRI to assess which upstream supply chains associated with water stresses impact the production plants identified in question 4.2.

Timeframe

More than 6 years

Magnitude of potential impact

Medium

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure - minimum (currency)

Potential financial impact figure - maximum (currency)

Explanation of financial impact

We are unable to calculate the financial impact at this time.

Primary response to risk

Supplier engagement

Establish supplier performance targets

Description of response

As part of establishing targets we will engage with other parties in the watershed to align Tyson Foods' action with other parties needs and concerns surrounding water.

Cost of response

0

Explanation of cost of response

This will be done primarily using internal company resources.

W4.3

(W4.3) Have you identified any water-related opportunities with the potential to have a substantive financial or strategic impact on your business?

Yes, we have identified opportunities, and some/all are being realized

W4.3a

(W4.3a) Provide details of opportunities currently being realized that could have a substantive financial or strategic impact on your business.

Type of opportunity

Efficiency

Primary water-related opportunity

Improved water efficiency in operations

Company-specific description & strategy to realize opportunity

Tyson Foods has a goal to reduce water usage in its direct U.S.-based operations by 12% by 2020, compared to a 2015 baseline. This goal is strategic as it encourages all facilities to reduce water usage which will improve water efficiency and deliver cost savings to the business. This proactive approach to water management could result in cost savings and improved water efficiency as well as strengthen our reputation with internal and external stakeholders. 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 contextual water targets as part of our water stewardship activities at our high water risk operations. This work is currently underway.

Estimated timeframe for realization

Current - up to 1 year

Magnitude of potential financial impact

Low

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

5,600,000

Potential financial impact figure – minimum (currency)**Potential financial impact figure – maximum (currency)****Explanation of financial impact**

A reduction in our intensity will ultimately save us on our gallons used assuming production is flat. The stated cost is computed based on well vs. city water usage.

Type of opportunity

Markets

Primary water-related opportunity

Improved community relations

Company-specific description & strategy to realize opportunity

This opportunity is considered strategic for the company as increased operating costs through our supply chain is an identified risk for the company. We continue our conservation efforts with the Nature Conservancy's Arkansas Chapter. Over the last two years, including 2018, we have granted and provided volunteer support to help the chapter complete a significant stream bank restoration project in an oxbow of the Kings River, monitor sediment reduction, and survey a tributary and plan its restoration. The support also includes projects on the Elk River and enrolling conservation easements in Arkansas' Buffalo National River watershed. Tyson Foods employees have also been actively engaged in this partnership by supporting various on-the-ground conservation projects such as tree plantings, stream clean-ups, and water awareness learning centers.

Estimated timeframe for realization

1 to 3 years

Magnitude of potential financial impact

Low

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

0

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact

No financial impacts identified as part of this collaboration, until specific opportunities are explored.

Type of opportunity

Resilience

Primary water-related opportunity

Resilience to future regulatory changes

Company-specific description & strategy to realize opportunity

While our compliance with water quality regulations isn't voluntary, as regulatory agencies continue to increase their focus on nutrient discharges we encounter more stringent limits via our wastewater discharge permits. Subsequently, we continue to apply technologies, strategies and processes to reduce nutrient levels in our surface water discharges. This creates cleaner water, and lessens pressure on existing water supply quality. In turn, this has potential to benefit our company by lowering our water supply risk.

Estimated timeframe for realization

4 to 6 years

Magnitude of potential financial impact

Low

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

0

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact

No financial savings identified, rather only the cost of implementation which has not yet been quantified.

W5. Facility-level water accounting

W5.1

(W5.1) For each facility referenced in W4.1c, provide coordinates, water accounting data, and a comparison with the previous reporting year.

Facility reference number

Facility 1

Facility name (optional)

Dexter

Country/Area & River basin

United States of America

Mississippi River

Latitude

36.753911

Longitude

-89.944257

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

972

Comparison of total withdrawals with previous reporting year

Lower

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

972

Total water discharges at this facility (megaliters/year)

923

Comparison of total discharges with previous reporting year

Lower

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

923

Total water consumption at this facility (megaliters/year)

49

Comparison of total consumption with previous reporting year

Lower

Please explain

Our water withdrawal, consumption and discharge volumes will vary somewhat from year to year. This is a function of market conditions and product demand. We continue to focus on water stewardship activities, particularly in water stressed areas.

Facility reference number

Facility 2

Facility name (optional)

Seguin

Country/Area & River basin

United States of America

San Antonio River

Latitude

29.580243

Longitude

97.982536

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

1,080

Comparison of total withdrawals with previous reporting year

About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

1,080

Total water discharges at this facility (megaliters/year)

1,026

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

1,026

Total water consumption at this facility (megaliters/year)

54

Comparison of total consumption with previous reporting year

About the same

Please explain

Our water withdrawal, consumption and discharge volumes will vary somewhat from year to year. This is a function of market conditions and product demand. We continue to focus on water stewardship activities, particularly in water stressed areas.

Facility reference number

Facility 3

Facility name (optional)

Glen Allen

Country/Area & River basin

United States of America

Other, please specify

Coastal area

Latitude

37.698213

Longitude

-77.552268

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

949

Comparison of total withdrawals with previous reporting year

About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

949

Total water discharges at this facility (megaliters/year)

901

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

901

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

48

Comparison of total consumption with previous reporting year

About the same

Please explain

Our water withdrawal, consumption and discharge volumes will vary somewhat from year to year. This is a function of market conditions and product demand. We continue to focus on water stewardship activities, particularly in water stressed areas.

Facility reference number

Facility 4

Facility name (optional)

Sedalia

Country/Area & River basin

United States of America

Mississippi River

Latitude

38.749939

Longitude

-93.322359

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

2,732

Comparison of total withdrawals with previous reporting year

Higher

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

2,732

Total water discharges at this facility (megaliters/year)

2,595

Comparison of total discharges with previous reporting year

Higher

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

2,595

Total water consumption at this facility (megaliters/year)

137

Comparison of total consumption with previous reporting year

Higher

Please explain

Our water withdrawal, consumption and discharge volumes will vary somewhat from year to year. This is a function of market conditions and product demand. We continue to focus on water stewardship activities, particularly in water stressed areas.

Facility reference number

Facility 5

Facility name (optional)

Amarillo

Country/Area & River basin

United States of America

Mississippi River

Latitude

35.259306

Longitude

-101.648578

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

5,028

Comparison of total withdrawals with previous reporting year

About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

5,028

Total water discharges at this facility (megaliters/year)

4,777

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

4,777

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

251

Comparison of total consumption with previous reporting year

About the same

Please explain

Our water withdrawal, consumption and discharge volumes will vary somewhat from year to year. This is a function of market conditions and product demand. We continue to focus on water stewardship activities, particularly in water stressed areas.

Facility reference number

Facility 6

Facility name (optional)

Finney Co.

Country/Area & River basin

United States of America

Mississippi River

Latitude

37.999653

Longitude

101.025075

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

4,544

Comparison of total withdrawals with previous reporting year

Lower

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

4,544

Total water discharges at this facility (megaliters/year)

4,317

Comparison of total discharges with previous reporting year

Lower

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

4,317

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

227

Comparison of total consumption with previous reporting year

Lower

Please explain

Our water withdrawal, consumption and discharge volumes will vary somewhat from year to year. This is a function of market conditions and product demand. We continue to focus on water stewardship activities, particularly in water stressed areas.

Facility reference number

Facility 7

Facility name (optional)

Lexington

Country/Area & River basin

United States of America

Mississippi River

Latitude

40.761057

Longitude

99.736979

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

3,509

Comparison of total withdrawals with previous reporting year

About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

3,509

Total water discharges at this facility (megaliters/year)

3,333

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

3,333

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

176

Comparison of total consumption with previous reporting year

About the same

Please explain

Our water withdrawal, consumption and discharge volumes will vary somewhat from year to year. This is a function of market conditions and product demand. We continue to focus on water stewardship activities, particularly in water stressed areas.

Facility reference number

Facility 8

Facility name (optional)

Madison + ham plant

Country/Area & River basin

United States of America

Mississippi River

Latitude

41.817595

Longitude

97.467747

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

1,553

Comparison of total withdrawals with previous reporting year

About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

1,553

Total water discharges at this facility (megaliters/year)

1,475

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

1,475

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

78

Comparison of total consumption with previous reporting year

About the same

Please explain

Our water withdrawal, consumption and discharge volumes will vary somewhat from year to year. This is a function of market conditions and product demand. We continue to focus on water stewardship activities, particularly in water stressed areas.

Facility reference number

Facility 9

Facility name (optional)

Haltom City

Country/Area & River basin

United States of America

Trinity River (Texas)

Latitude

32.822204

Longitude

-97.289137

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

410

Comparison of total withdrawals with previous reporting year

About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

410

Total water discharges at this facility (megaliters/year)

390

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

390

Total water consumption at this facility (megaliters/year)

20

Comparison of total consumption with previous reporting year

About the same

Please explain

Our water withdrawal, consumption and discharge volumes will vary somewhat from year to year. This is a function of market conditions and product demand. We continue to focus on water stewardship activities, particularly in water stressed areas.

Facility reference number

Facility 10

Facility name (optional)

North Richland hills

Country/Area & River basin

United States of America
Trinity River (Texas)

Latitude

32.851786

Longitude

-97.244871

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

387

Comparison of total withdrawals with previous reporting year

Lower

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

387

Total water discharges at this facility (megaliters/year)

367

Comparison of total discharges with previous reporting year

Lower

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

367

Total water consumption at this facility (megaliters/year)

20

Comparison of total consumption with previous reporting year

Lower

Please explain

Our water withdrawal, consumption and discharge volumes will vary somewhat from year to year. This is a function of market conditions and product demand. We continue to focus on water stewardship activities, particularly in water stressed areas.

Facility reference number

Facility 11

Facility name (optional)

Vernon

Country/Area & River basin

United States of America

Mississippi River

Latitude

34.162883

Longitude

-99.291096

Located in area with water stress

Yes

Total water withdrawals at this facility (megaliters/year)

256

Comparison of total withdrawals with previous reporting year

About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

256

Total water discharges at this facility (megaliters/year)

243

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

243

Total water consumption at this facility (megaliters/year)

13

Comparison of total consumption with previous reporting year

About the same

Please explain

Our water withdrawal, consumption and discharge volumes will vary somewhat from year to year. This is a function of market conditions and product demand. We continue to focus on water stewardship activities, particularly in water stressed areas.

W5.1a

(W5.1a) For the facilities referenced in W5.1, what proportion of water accounting data has been externally verified?

Water withdrawals – total volumes

% verified

Not verified

Water withdrawals – volume by source

% verified

Not verified

Water withdrawals – quality

% verified

Not verified

Water discharges – total volumes

% verified

Not verified

Water discharges – volume by destination

% verified

Not verified

Water discharges – volume by treatment method

% verified

Not verified

Water discharge quality – quality by standard effluent parameters

% verified

Not verified

Water discharge quality – temperature

% verified

Not verified

Water consumption – total volume

% verified

Not verified

Water recycled/reused

% verified

Not verified

W6. Governance

W6.1

(W6.1) Does your organization have a water policy?

Yes, we have a documented water policy that is publicly available

W6.1a

(W6.1a) Select the options that best describe the scope and content of your water policy.

	Scope	Content	Please explain
Row 1	Company-wide	Description of business dependency on water Description of business impact on water Description of water-related performance standards for direct operations Reference to international standards and widely-recognized water initiatives Company water targets and goals Commitments beyond regulatory compliance Commitment to water stewardship and/or collective action Commitment to safely managed Water, Sanitation and Hygiene (WASH) in the workplace	We believe that to be effective, create full ownership by all parts of the business, and to have on-going applicability as the company grows that our water policy should apply company-wide. Our policy recognizes that our operations are dependent on water, and therefore creates corresponding impacts on water. To manage those impacts requires use of recognized performance standards, along with setting targets and goals that achieve more than simple regulatory compliance. We want to create action that addresses watershed-level impacts which requires water stewardship activities that include collective action. Another important part of water stewardship is ensuring that we have a commitment to our team members that adequate WASH is present in their workplaces.

W6.2

(W6.2) Is there board level oversight of water-related issues within your organization?

Yes

W6.2a

(W6.2a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for water-related issues.

Position of individual	Please explain

Chief Executive Officer (CEO)	The Environmental and Sustainability teams prepare and submit monthly progress reports to the President and to the CEO on environmental and sustainability initiatives (e.g., water-related items, GHGs, Compliance, etc.). Our President and CEO, who are both members of the board, share the information with the board. Further, in May 2017, we appointed our first Chief Sustainability Officer, who reports to our CEO. The Chief Sustainability Officer has oversight of four key functions including Sustainability, Environmental, Corporate Social Responsibility, and Animal Welfare. The areas collectively represent the “Tyson Sustainability Team”.
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W6.2b

(W6.2b) Provide further details on the board's oversight of water-related issues.

	Frequency that water-related issues are a scheduled agenda item	Governance mechanisms into which water-related issues are integrated	Please explain
Row 1	Scheduled - some meetings	Reviewing and guiding business plans Reviewing and guiding major plans of action Reviewing and guiding strategy	The Environmental and Sustainability teams prepare and submit monthly progress reports to the President and to the CEO on environmental and sustainability initiatives (e.g., water-related items, GHGs, Compliance, etc.). Our President and CEO, who are both members of the board, share the information with the board. Further, in May 2017, we appointed our first Chief Sustainability Officer, who reports to our CEO. The Chief Sustainability Officer has oversight of four key functions including Sustainability, Environmental, Corporate Social Responsibility, and Animal Welfare. The areas collectively represent the “Tyson Sustainability Team”.

W6.3

(W6.3) Provide the highest management-level position(s) or committee(s) with responsibility for water-related issues (do not include the names of individuals).

Name of the position(s) and/or committee(s)

Chief Sustainability Officer (CSO)

Responsibility

Both assessing and managing water-related risks and opportunities

Frequency of reporting to the board on water-related issues

More frequently than quarterly

Please explain

The Environmental and Sustainability teams prepare and submit monthly progress reports to the President and to the CEO on environmental and sustainability initiatives (e.g., water-related items, GHGs, Compliance, etc.). Our President and CEO, who are both members of the board, share the information with the board. Further, in May 2017, we appointed our first Chief Sustainability Officer, who reports to our CEO. The Chief Sustainability Officer has oversight of four key functions including Sustainability, Environmental, Corporate Social Responsibility, and Animal Welfare. The areas collectively represent the “Tyson Sustainability Team”.

W6.4

(W6.4) Do you provide incentives to C-suite employees or board members for the management of water-related issues?

Provide incentives for management of water-related issues		Comment
Row 1	Yes	

W6.4a

(W6.4a) What incentives are provided to C-suite employees or board members for the management of water-related issues (do not include the names of individuals)?

	Role(s) entitled to incentive	Performance indicator	Please explain
Monetary reward	Chief Sustainability Officer (CSO) Other, please specify Chief Environmental Services and Sustainable Food Strategy Teams	Other, please specify Reduction of product water intensity	Our environmental sustainability goals include Water Conservation, Greenhouse Gas (GHG) Emissions, and Land Stewardship. Our key business leaders and their teams have goals for water, energy (surrogate for GHGs), Animal Welfare, and our Upward Academy education process for front line Team Members. We have an incentives process that covers company financial performance and sustainability goals.
Non-monetary reward	No one is entitled to these incentives		No one is entitled to ‘Recognition (non-monetary)’ incentives.

W6.5

(W6.5) Do you engage in activities that could either directly or indirectly influence public policy on water through any of the following?

Yes, direct engagement with policy makers

Yes, trade associations

Yes, other

W6.5a

(W6.5a) What processes do you have in place to ensure that all of your direct and indirect activities seeking to influence policy are consistent with your water policy/water commitments?

Water touches everything we do at Tyson Foods — from the irrigation needed to grow the grain that feeds poultry and livestock to our processing plants where we use water to process animals, cook prepared foods and clean our facilities. Water is a finite resource that must be used and managed responsibly from farm to finished product. Food safety and quality is our top priority and water is essential to producing safe food. We aim to balance responsible water stewardship with protecting the quality and safety of our products. For example, we have engaged and collaborated with both the US Department of Agriculture and the US Environmental Protection Agency to identify food processing solutions that protect food safety while conserving water. Tyson Foods engages in trade associations, such as the North American Meat Institute, on water stewardship opportunities. Our goals for water stewardship is aligned with Alliance for Water Stewardship guidance which is an internationally recognized standard. By utilizing a recognized set of practices we can create consistency in our actions and responses to water-related challenges. We also utilize an Environmental Management Standard (EMS) throughout the company. By design, if an inconsistency is discovered our EMS system with its “plan-do-check-act” approach will help not only catch issues and inconsistencies, but drive corrections of such matters.

W6.6

(W6.6) Did your organization include information about its response to water-related risks in its most recent mainstream financial report?

Yes (you may attach the report - this is optional)

⌚ Tyson 2019 SR Proof #9.1 5.19.20.pdf

W7. Business strategy

W7.1

(W7.1) Are water-related issues integrated into any aspects of your long-term strategic business plan, and if so how?

	Are water-related issues integrated?	Long-term time horizon (years)	Please explain
Long-term business objectives	Yes, water-related issues are integrated	5-10	Water touches everything we do at Tyson Foods — from the irrigation needed to grow the grain that feeds poultry and livestock to our processing plants where we

			<p>use water to process animals, cook prepared foods and clean our facilities. We also recognize natural disasters, fire, bioterrorism, pandemic or extreme weather, including droughts, floods, excessive cold or heat, hurricanes or other storms, could impair the health or growth of livestock or interfere with our operations due to power outages, fuel shortages, decrease in availability of water, or damage to our production and processing. In 2018 Tyson Foods collaborated with the World Resources Institute (WRI) to conduct a Water Risk Assessment. As part of this risk assessment we conducted an analysis of water risk and scarcity across our direct operations and our supply chain in the United States using the WRI Aqueduct tool. Eleven facilities were identified to be in high-risk areas. The results of the assessment are being used to facilitate and guide our long term strategic business plan to decrease our use of water in water-stressed locations.</p>
Strategy for achieving long-term objectives	Yes, water-related issues are integrated	5-10	<p>In 2018 Tyson Foods collaborated with the World Resources Institute (WRI) to conduct a Water Risk Assessment. As part of this risk assessment we conducted an analysis of water risk and scarcity across our direct operations and our supply chain in the United States using the WRI Aqueduct tool. Eleven facilities were identified to be in high-risk areas.</p>
Financial planning	Yes, water-related issues are integrated	5-10	<p>Natural disasters, fire, bioterrorism, pandemic or extreme weather, including droughts, floods, excessive cold or heat, hurricanes or other storms, could impair the health or growth of livestock 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 or unfavorably impact the demand for, or our consumers' ability to purchase our products, among other things. Any of these factors could have an adverse effect on our financial results. Utilizing the results of our 2018 WRI Aqueduct Assessment we are currently evaluating water procurement strategies to best mitigate our water quality and strategy risks at the facility level.</p>

W7.2

(W7.2) What is the trend in your organization's water-related capital expenditure (CAPEX) and operating expenditure (OPEX) for the reporting year, and the anticipated trend for the next reporting year?

Row 1

Water-related CAPEX (+/- % change)

10

Anticipated forward trend for CAPEX (+/- % change)

0

Water-related OPEX (+/- % change)

1

Anticipated forward trend for OPEX (+/- % change)

1

Please explain

CAPEX can vary significantly from year to year based on newly enacted regulatory requirements relating to water and changes in food safety concerns. OPEX increases will be proportional to any increases in CAPEX but overall OPEX will raise in accordance with the inflation rate.

W7.3

(W7.3) Does your organization use climate-related scenario analysis to inform its business strategy?

	Use of climate-related scenario analysis	Comment
Row 1	Yes	Tyson Foods' climate scenario analysis targets the four primary components of the value chain: grain for livestock, operations, wastewater treatment, and transportation. With the assistance of WRI, science-based targets for Tyson Foods' Scope 1 and 2 inventories were developed using the absolute emissions contraction method. For the SBTi, a methodology, called the Sectoral Decarbonization Approach (SDA) was developed by CDP, WRI, and WWF with technical support from Ecofys. 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. Tyson Foods used a sector-specific approach to fully realize our operational impact. Tyson Foods used the Ecofys Model, actual 2016

		production data and anticipated 2030 production data to assess emission intensity reductions for Scope 3 emissions from poultry, pork and beef.
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W7.3a

(W7.3a) Has your organization identified any water-related outcomes from your climate-related scenario analysis?

Yes

W7.3b

(W7.3b) What water-related outcomes were identified from the use of climate-related scenario analysis, and what was your organization's response?

Climate-related scenarios and models applied	Description of possible water-related outcomes	Company response to possible water-related outcomes
Row 1 2DS	Water touches everything we do at Tyson Foods — from the irrigation needed to grow the grain that feeds poultry and livestock to our processing plants where we use water to process animals, cook prepared foods and clean our facilities. We also recognize natural disasters, fire, bioterrorism, pandemic or extreme weather, including droughts, floods, excessive cold or heat, hurricanes or other storms, could impair the health or growth of livestock or interfere with our operations due to power outages, fuel shortages, decrease in availability of water, or damage to our production and processing.	We are currently collaborating with the World Resources Institute (WRI) to establish context-based goals that will mitigate risks related to water stress.

W7.4

(W7.4) Does your company use an internal price on water?

Row 1

Does your company use an internal price on water?

No, but we are currently exploring water valuation practices

Please explain

We recognize that the base price paid for water does not necessarily reflect its true value when risk is factored in. Several publicly available models have been reviewed but we have not found any that we feel provide an estimation method that reflects what we

consider to be a reasonable reflection of risks and true cost. We intend to continue to pursue this area.

W8. Targets

W8.1

(W8.1) Describe your approach to setting and monitoring water-related targets and/or goals.

	Levels for targets and/or goals	Monitoring at corporate level	Approach to setting and monitoring targets and/or goals
Row 1	Company-wide targets and goals Business level specific targets and/or goals Activity level specific targets and/or goals Site/facility specific targets and/or goals	Targets are monitored at the corporate level Goals are monitored at the corporate level	To ensure we were creating an achievable, cost-effective target, we worked with a water treatment and process improvements supply partner to conduct multiple plant assessments and review historical water use data. We utilize a bottom-up approach; every site has their own specific goal. These plant-level goals are not all the same; they depend on what is reasonably achievable for the site. The plant-level goals are aggregated to the activity level (i.e. Beef Production). Those goals are further aggregated to the business level (i.e. Fresh Meats). Finally, all business-level goals are aggregated into corporate-level goals. Additionally, in 2018 Tyson Foods assessed our exposure to water risk for our direct operations, for each Business Unit (Poultry, Beef, Pork, Prepared Foods, International). We modeled the water consumption of Raising Animals procured for Tyson Foods' processing facilities, exposure to water stress for Raising Animals (Poultry, Beef, Pork), water consumption of Corn Feed for Raising Animals, exposure to water stress in Corn Feed (Poultry, Beef, Pork), and Nitrogen loading resulting from Raising Animals and Corn Feed (Poultry, Beef, Pork). The results of the assessment indicated that corn feed has the highest exposure to water stress (91%), followed by direct operations (2%) and raising animals (7%). These results will be used to identify priority locations for water stewardship activities, setting water risk reduction targets and goals, and monitoring progress towards goals.

W8.1a

(W8.1a) Provide details of your water targets that are monitored at the corporate level, and the progress made.

Target reference number

Target 1

Category of target

Product water intensity

Level

Company-wide

Primary motivation

Water stewardship

Description of target

Water is a key component of food production since it's essential to keeping food safe for consumers. We understand the important balance between protecting product quality and conserving water, a natural resource. In FY16, we announced a public goal of reducing water use in our direct operations by 12 percent by the end of 2020, using 2015 as the baseline year. Our intensity per pound of finished product also decreased by 4.71% since FY18.

Quantitative metric

% reduction per unit of production

Baseline year

2015

Start year

2016

Target year

2020

% of target achieved

57

Please explain

Through FY19, we have achieved 6.8 of our 12 percent reduction target. We continue to implement significant changes within our network including water reuse/recycle projects, changes to poultry processing, and multiple behavior changes related to water savings. We anticipate continued action in FY20 to reduce our water intensity.

W8.1b

(W8.1b) Provide details of your water goal(s) that are monitored at the corporate level and the progress made.

Goal

Promotion of sustainable agriculture practices

Level

Country level

Motivation

Reduced environmental impact

Description of goal

Tyson Foods defines land stewardship as the application of environmental and conservation best practices focused on soil health, water quality and conservation, nutrient stewardship, and wildlife habitat. The overall goal of our land stewardship goal—the largest ever by a U.S. protein company—is to provide farmers with tools to inform them how to improve their economic and environmental bottom line, as well as lower the GHG emissions generated by our supply chain. Our goal is to support improved environmental practices on 2 million acres of row crop corn by the end of 2020. This represents enough corn to feed all of Tyson Foods' annual broiler chicken production in the U.S., as well as some of the pigs and cattle the company buys from independent farmers and ranchers. In FY19, we implemented a partnership with the Environmental Defense Fund and launched two pilot projects to move us closer to achieving this goal.

Baseline year

2018

Start year

2018

End year

2020

Progress

The first pilot equipped a network of agronomists with MyFarms, a farm management software program, to provide farmers with insights about the value of conservation practices. Using MyFarms' platform, farmers can anonymously learn from one another about opportunities to improve yield and economic performance through the adoption of conservation practices such as planting cover crops, and improving soil and manure management. In 2019, a difficult planting season meant that we enrolled 11,000 acres in the program, falling short of our target. With two years remaining in our agreement with MyFarms, we will continue to enroll acres and evaluate how this approach can provide value to farmers.

The second pilot, is in partnership with Farmers Business Network (FBN), an organization offering technical and agronomic assistance across a network of 10,000 farmers who span nearly 35 million acres. This large network enabled FBN to recruit from their vast farmer membership, enrolling 408,000 acres of farmland in the first year. This wealth of baseline data allowed us to identify both use of conservation practices and areas for improvement. For example, many farmers are making use of effective practices such as reduced-till agriculture, cover crops and nitrogen inhibitors. At the

same time, the volume of nitrogen fertilizer used on corn by FBN members is higher than the national average, presenting an opportunity for farmers to optimize practices.

W9. Verification

W9.1

(W9.1) Do you verify any other water information reported in your CDP disclosure (not already covered by W5.1a)?

No, we do not currently verify any other water information reported in our CDP disclosure

W10. Sign off

W-FI

(W-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.

W10.1

(W10.1) Provide details for the person that has signed off (approved) your CDP water response.

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

W10.2

(W10.2) Please indicate whether your organization agrees for CDP to transfer your publicly disclosed data on your impact and risk response strategies to the CEO Water Mandate's Water Action Hub [applies only to W2.1a (response to impacts), W4.2 and W4.2a (response to risks)].

No

SW. Supply chain module

SW0.1

(SW0.1) What is your organization's annual revenue for the reporting period?

	Annual revenue
Row 1	42,405,000,000

SW0.2

(SW0.2) Do you have an ISIN for your organization that you are willing to share with CDP?

Yes

SW0.2a

(SW0.2a) Please share your ISIN in the table below.

	ISIN country code	ISIN numeric identifier (including single check digit)
Row 1	US	9024941034

SW1.1

(SW1.1) Could any of your facilities reported in W5.1 have an impact on a requesting CDP supply chain member?

We do not have this data and have no intentions to collect it

SW1.2

(SW1.2) Are you able to provide geolocation data for your facilities?

	Are you able to provide geolocation data for your facilities?	Comment
Row 1	Yes, for all facilities	

SW1.2a

(SW1.2a) Please provide all available geolocation data for your facilities.

Identifier	Latitude	Longitude	Comment
Dexter	36.753911	-89.944257	
Seguin	29.580243	97.982536	
Glen Allen	37.698213	-77.552268	
Sedalia	38.749939	-93.322359	
Amarillo	35.259306	-101.648578	
Finney Co.	37.999653	101.025075	
Lexington	40.761057	99.736979	
Madison + ham plant	41.817595	97.467747	
Haltom City	32.822204	-97.289137	
North Richland hills	32.851786	-97.244871	
Vernon	34.162883	-99.291096	

SW2.1

(SW2.1) Please propose any mutually beneficial water-related projects you could collaborate on with specific CDP supply chain members.

SW2.2

(SW2.2) Have any water projects been implemented due to CDP supply chain member engagement?

No

SW3.1

(SW3.1) Provide any available water intensity values for your organization's products or services.

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

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

Please confirm below

I have read and accept the applicable Terms