

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 and grown under three generations of family leadership, the company has a broad portfolio of products and brands like Tyson®, Jimmy Dean®, Hillshire Farm®, Ball Park®, Wright®, Aidells®, IBP® and State Fair®. Tyson Foods innovates continually to make protein more sustainable, tailor food for everywhere it's available and raise the world's expectations for how much good food can do. Headquartered in Springdale, Arkansas, the company had 139,000 team members at October 3, 2020. 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 10/1/2020 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 was 9/29/2019 to 10/3/2020.)

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 2019	September 30 2020

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 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.
Sufficient amounts of recycled, brackish and/or produced water available for use	Important	Important	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.

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.
Entrained water associated with your metals & mining sector activities - total volumes [only metals and mining sector]	<Not Applicable>	<Not Applicable>
Produced water associated with your oil & gas sector activities - total volumes [only oil and gas sector]	<Not Applicable>	<Not Applicable>
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	120000	Higher	Water withdrawals were higher in 2020 compared to 2019 due to acquisitions, but 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 continue progress on our water stewardship goals we plan to further reduce intensity of water withdrawal in the future.
Total discharges	110000	Higher	Water discharges were higher in 2020 compared to 2019 due to acquisitions. This corresponds with higher water withdrawals. All water discharged either goes to a Tyson Foods treatment facility, or to a municipal treatment system. As we continue progress on our water stewardship goals we plan to further reduce intensity of water discharge in the future.
Total consumption	10000	Higher	Water consumption was higher in 2020 compared to 2019 due to acquisitions. This corresponds with higher 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 continue progress on our water stewardship goals future water use intensity should decrease. Total consumption = total withdrawals – total discharges.

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-FB1.1a, 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. This metric is used by the company in two ways. First, the metric and information are used to select which plants to place additional focus on for water stewardship efforts. Second, this metric and information are used to help guide creation of contextual water target plans and the goals and targets incorporated into those plans.

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. This metric is used by the company in two ways. First, the metric and information are used to select which plants to place additional focus on for water stewardship efforts. Second, this metric and information are used to help guide creation of contextual water target plans and the goals and targets incorporated into those plans.
Soy	1-10	We anticipate our future sourcing geographies for these commodities to remain consistent, so the percentage should stay approximately the same. This metric is used by the company in two ways. First, the metric and information are used to select which plants to place additional focus on for water stewardship efforts. Second, this metric and information are used to help guide creation of contextual water target plans and the goals and targets incorporated into those plans.
Maize	1-10	We anticipate our future sourcing geographies for these commodities to remain consistent, so the percentage should stay approximately the same. This metric is used by the company in two ways. First, the metric and information are used to select which plants to place additional focus on for water stewardship efforts. Second, this metric and information are used to help guide creation of contextual water target plans and the goals and targets incorporated into those plans.

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	<Not Applicable>	<Not Applicable>	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	<Not Applicable>	<Not Applicable>	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	24000	Higher	This source is relevant because Tyson Foods directly withdraws groundwater from renewable aquifers for its operations. Water withdrawals were higher in 2020 compared to 2019 due to acquisitions, but 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 continue progress on our water stewardship goals we plan to further reduce intensity of water withdrawal in the future.
Groundwater – non-renewable	Not relevant	<Not Applicable>	<Not Applicable>	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	<Not Applicable>	<Not Applicable>	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	96000	Higher	This source is relevant because Tyson Foods withdraws water from third-party sources. e.g. municipalities for its operations. Water withdrawals were higher in 2020 compared to 2019 due to acquisitions, but 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 continue 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	50000	Higher	This source is relevant because Tyson Foods discharges water to fresh surface water sources from its operations. Water discharges were higher in 2020 compared to 2019 due to acquisitions. This corresponds with higher water withdrawals. All water discharged either goes to a Tyson Foods treatment facility, or to a municipal treatment system. As we continue progress on our water stewardship goals we plan to further reduce intensity of water discharge in the future.
Brackish surface water/seawater	Not relevant	<Not Applicable>	<Not Applicable>	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	11000	Lower	This source is relevant because Tyson Foods discharges water to groundwater sources from its operations. Water discharges were higher in 2020 compared to 2019 due to acquisitions. This corresponds with higher water withdrawals. All water discharged either goes to a Tyson Foods treatment facility, or to a municipal treatment system. As we continue progress on our water stewardship goals we plan to further reduce intensity of water discharge in the future.
Third-party destinations	Relevant	49000	Higher	This source is relevant because Tyson Foods discharges water to third-party sources, e.g. municipalities, from its operations. Water discharges were higher in 2020 compared to 2019 due to acquisitions. This corresponds with higher water withdrawals. All water discharged either goes to a Tyson Foods treatment facility, or to a municipal treatment system. As we continue progress on our water stewardship goals we plan to further reduce intensity of water discharge in the future.

W1.2j

(W1.2j) Within your direct operations, indicate the highest level(s) to which you treat your discharge.

	Relevance of treatment level to discharge	Volume (megaliters/year)	Comparison of treated volume with previous reporting year	% of your sites/facilities/operations this volume applies to	Please explain
Tertiary treatment	Relevant	49000	Higher	21-30	Water discharges were higher in 2020 compared to 2019 due to acquisitions.
Secondary treatment	Relevant	31000	Higher	21-30	Water discharges were higher in 2020 compared to 2019 due to acquisitions.
Primary treatment only	Relevant	30000	Higher	21-30	Water discharges were higher in 2020 compared to 2019 due to acquisitions.
Discharge to the natural environment without treatment	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	
Discharge to a third party without treatment	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	
Other	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	

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. In 2020, we bought approximately 4.3 million cattle in the Progressive Beef™ program. By the end of 2021, the third year of this program, we plan to increase this to approximately 4.7 million cattle, representing 75% of our total cattle purchases. In 2020, we also became one of the first major U.S. food companies to work with Where Food Comes From, Inc. to verify sustainable production practices at scale in its beef supply chain through the Where Food Comes From BeefCARE™ program, an industry-leading sustainability verification program for cattle ranchers. The program includes standard criteria for animal care, environmental stewardship, and people and community, which are verified through annual on-site, third-party audits.

Comment

Tyson Foods encourages farmers to implement efficient land and nutrient management practices. Tyson Foods made a goal to support improved environmental practices on two million acres of corn by the end of 2020. With our partners at the Environmental Defense Fund and Farmers Business Network, we work with farmers, offering technical and agronomic assistance that can improve yield and economic performance in row crop corn production.

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

We are continuing to expand work on 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 this will be a long term (years) effort, we do not expect an immediate quantifiable measure of success. From a qualitative standpoint, there has been a high level of engagement between Tyson Foods and the local suppliers, and this is considered a success.

Comment

We are continuing to expand work on a very focused engagement effort with local suppliers in water stressed areas that we operate in. We are expanding this work to other water stressed production plant locations.

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.

We have continued our partnership with the Environmental Defense Fund (EDF) in 2020 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	Mississippi River
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Type of impact driver & Primary impact driver

Physical	Flooding
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Primary impact

Closure of operations

Description of impact

High water levels closed roads and forced operations sites to cease operations. Damage to wastewater treatment system.

Primary response

Engage with customers

Total financial impact

500000

Description of response

Nashville. The location was down for one day. It was necessary to repair a lagoon dike wall because of erosion from the flooding. Both costs based on internal tracking of incurred costs.

Country/Area & River basin

United States of America	Pee Dee River
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Type of impact driver & Primary impact driver

Physical	Flooding
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Primary impact

Closure of operations

Description of impact

High water levels closed roads and forced operations sites to cease operations. Damage to wastewater treatment system. Damage to production equipment.

Primary response

Engage with customers

Total financial impact

1500000

Description of response

Harmony. The location was down for almost one week. Widespread flooding in the area required post-flood clean-up. Equipment was replaced which required bringing additional workers. Minor repairs were made to the wastewater treatment plant. Incoming product could not be received during this time. Both costs based on internal tracking of incurred costs.

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

2

Total value of fines

30400

% of total facilities/operations associated

2

Number of fines compared to previous reporting year

Higher

Comment

Both 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 and water reuse in production facilities, and have continue to make progress in this area. 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 are setting 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 corn acreage. 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.

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

Full

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. Tyson defines full coverage as all existing production facilities with the exception of recent, i.e. within <2 years, site acquisitions. The latest site acquisitions will be assessed in 2021.

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

Risk assessment procedure

<Not Applicable>

Frequency of assessment

<Not Applicable>

How far into the future are risks considered?

<Not Applicable>

Type of tools and methods used

<Not Applicable>

Tools and methods used

<Not Applicable>

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 evaluated water availability and quality parameters for 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). Since then we have done a refreshed view of water risk using Aqueduct 3.0. 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. The purpose of this exercise is to support water stewardship plans that are being created at certain facilities by applying the Alliance for Water Stewardship Standard.
Water quality at a basin/catchment level	Relevant, always included	In 2018 Tyson Foods evaluated 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). Since then we have done a refreshed view of water risk using Aqueduct 3.0. 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. The purpose of this exercise is to support water stewardship plans that are being created at certain facilities by applying the Alliance for Water Stewardship Standard.
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) we 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	All 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 watersheds 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 join the Alliance for Water Stewardship (AWS) organization and utilize their Standard to initiate creation of contextual water target stewardship plans at the priority locations. We have a schedule established to roll out water stewardship plans at the priority locations along with AWS certification at select locations; we are currently on track with that schedule.

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 adhere to a water stewardship strategy informed by local watershed contexts. This strategy and subsequent contextual water targets were developed in partnership with the Water Resources Institute (WRI).

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 set contextual water targets at our facilities, recognizing that we have significant influence on local watersheds at our processing facilities. Contextual water targets are 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.

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

Production value for the metals & mining activities associated with these facilities

<Not Applicable>

% company's annual electricity generation that could be affected by these facilities

<Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities

<Not Applicable>

% company's total global revenue that could be affected

1-10

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

Less than 1%

Production value for the metals & mining activities associated with these facilities

<Not Applicable>

% company's annual electricity generation that could be affected by these facilities

<Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities

<Not Applicable>

% 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

Production value for the metals & mining activities associated with these facilities

<Not Applicable>

% company's annual electricity generation that could be affected by these facilities

<Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities

<Not Applicable>

% 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

Production value for the metals & mining activities associated with these facilities

<Not Applicable>

% company's annual electricity generation that could be affected by these facilities

<Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities

<Not Applicable>

% 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, including the seven facilities located in the Mississippi River basin.

Timeframe

More than 6 years

Magnitude of potential impact

Medium-low

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure - minimum (currency)

<Not Applicable>

Potential financial impact figure - maximum (currency)

<Not Applicable>

Explanation of financial impact

Financial impact is unknown 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. 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 or 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, including the two facilities located in the Trinity River basin.

Timeframe

More than 6 years

Magnitude of potential impact

Low

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure - minimum (currency)

<Not Applicable>

Potential financial impact figure - maximum (currency)

<Not Applicable>

Explanation of financial impact

Financial impact is unknown 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. 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 or 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, including the facility located in the San Antonio River basin.

Timeframe

More than 6 years

Magnitude of potential impact

Low

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure - minimum (currency)

<Not Applicable>

Potential financial impact figure - maximum (currency)

<Not Applicable>

Explanation of financial impact

Financial impact is unknown 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. 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 or 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 area)
--------------------------	--------------------------------------

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, including the facility located within the coastal area.

Timeframe

More than 6 years

Magnitude of potential impact

Low

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure - minimum (currency)

<Not Applicable>

Potential financial impact figure - maximum (currency)

<Not Applicable>

Explanation of financial impact

Financial impact is unknown 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. 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 or 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 production costs due to changing input prices from supplier

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, including the seven facilities located in the Mississippi River basin.

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)

<Not Applicable>

Potential financial impact figure - minimum (currency)

<Not Applicable>

Potential financial impact figure - maximum (currency)

<Not Applicable>

Explanation of financial impact

Financial impact is unknown at this time.

Primary response to risk

Supplier engagement	Promote adoption of waste water management procedures among suppliers
---------------------	---

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 production costs due to changing input prices from supplier

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, including the two facilities located in the Trinity River basin.

Timeframe

More than 6 years

Magnitude of potential impact

Low

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure - minimum (currency)

<Not Applicable>

Potential financial impact figure - maximum (currency)

<Not Applicable>

Explanation of financial impact

Financial impact is unknown at this time.

Primary response to risk

Supplier engagement	Promote the adoption of alternative livestock management practices among suppliers
---------------------	--

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 production costs due to changing input prices from supplier

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, including the facility located in the San Antonio River basin.

Timeframe

More than 6 years

Magnitude of potential impact

Low

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure - minimum (currency)

<Not Applicable>

Potential financial impact figure - maximum (currency)

<Not Applicable>

Explanation of financial impact

Financial impact is unknown at this time.

Primary response to risk

Supplier engagement	Promote the adoption of alternative livestock management practices among suppliers
---------------------	--

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 area)
--------------------------	--------------------------------------

Stage of value chain

Supply chain

Type of risk & Primary risk driver

Physical	Increased water stress
----------	------------------------

Primary potential impact

Increased production costs due to changing input prices from supplier

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, including the facility located within the coastal area.

Timeframe

More than 6 years

Magnitude of potential impact

Low

Likelihood

Likely

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure - minimum (currency)

<Not Applicable>

Potential financial impact figure - maximum (currency)

<Not Applicable>

Explanation of financial impact

Financial impact is unknown at this time.

Primary response to risk

Supplier engagement	Promote the adoption of alternative livestock management practices among suppliers
---------------------	--

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 took action by announcing in May 2017 a collaboration with the World Resources Institute (WRI) to become an industry leader by setting contextual water targets as part of or water stewardship activities at our high water risk operations. This work is currently underway. We've acted on this strategy by achieving 8% reduction.

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)

5600000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

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, an estimated range

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

0

Potential financial impact figure – maximum (currency)

100000

Explanation of financial impact

Using internal metrics, community engagement activities could save upwards of \$100,000 of labor hours.

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

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

1030

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

1030

Total water discharges at this facility (megaliters/year)

948

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

948

Total water consumption at this facility (megaliters/year)

82

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 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

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

994

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

994

Total water discharges at this facility (megaliters/year)

914

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

914

Total water consumption at this facility (megaliters/year)

80

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 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

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

1010

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

1010

Total water discharges at this facility (megaliters/year)

929

Comparison of total discharges with previous reporting year

Higher

Discharges to fresh surface water

929

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)

81

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 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

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

2860

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

2860

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

0

Total water discharges at this facility (megaliters/year)

2631

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

2631

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)

229

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 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

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

4881

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

4881

Total water discharges at this facility (megaliters/year)

4491

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

4491

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

390

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

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

4085

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

4085

Total water discharges at this facility (megaliters/year)

3758

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

3758

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

327

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

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

3604

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

3604

Total water discharges at this facility (megaliters/year)

3316

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

3316

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)

288

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

Country/Area & River basin

United States of America	Mississippi River
--------------------------	-------------------

Latitude

41.817595

Longitude

97.467747

Located in area with water stress

Yes

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

1395

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

1395

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

0

Total water discharges at this facility (megaliters/year)

1283

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

1283

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

112

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 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

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

425

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

425

Total water discharges at this facility (megaliters/year)

391

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

391

Total water consumption at this facility (megaliters/year)

34

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

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

309

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

309

Total water discharges at this facility (megaliters/year)

284

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

284

Total water consumption at this facility (megaliters/year)

25

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

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

135

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

135

Total water discharges at this facility (megaliters/year)

124

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

124

Total water consumption at this facility (megaliters/year)

11

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.

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

What standard and methodology was used?
<Not Applicable>

Water withdrawals – volume by source

% verified
Not verified

What standard and methodology was used?
<Not Applicable>

Water withdrawals – quality

% verified
Not verified

What standard and methodology was used?
<Not Applicable>

Water discharges – total volumes

% verified
Not verified

What standard and methodology was used?
<Not Applicable>

Water discharges – volume by destination

% verified
Not verified

What standard and methodology was used?
<Not Applicable>

Water discharges – volume by treatment method

% verified
Not verified

What standard and methodology was used?
<Not Applicable>

Water discharge quality – quality by standard effluent parameters

% verified
Not verified

What standard and methodology was used?
<Not Applicable>

Water discharge quality – temperature

% verified
Not verified

What standard and methodology was used?
<Not Applicable>

Water consumption – total volume

% verified
Not verified

What standard and methodology was used?
<Not Applicable>

Water recycled/reused

% verified
Not verified

What standard and methodology was used?
<Not Applicable>

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
Board-level committee	Our Chief Sustainability Officer reports to our President and Chief Executive Officer and shares regular progress updates with the Governance and Nominating Committee of our Board of Directors. In early 2021, the Governance and Nominating Committee was formally assigned the responsibility to assist the Board on matters relating to corporate responsibility and sustainability, including environmental, social and governance matters affecting the company. Our CSO is supported by a team of professionals who facilitate our goal-setting efforts, including actions to manage or mitigate risks, as well as pursue continuous improvement opportunities related to people, nature and agriculture.

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 major plans of action Reviewing and guiding strategy	Our Chief Sustainability Officer reports to our President and Chief Executive Officer and shares regular progress updates with the Governance and Nominating Committee of our Board of Directors. In early 2021, the Governance and Nominating Committee was formally assigned the responsibility to assist the Board on matters relating to corporate responsibility and sustainability, including environmental, social and governance matters affecting the company. Our CSO is supported by a team of professionals who facilitate our goal-setting efforts, including actions to manage or mitigate risks, as well as pursue continuous improvement opportunities related to people, nature and agriculture.

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

Our Chief Sustainability Officer reports to our President and Chief Executive Officer and shares regular progress updates with the Governance and Nominating Committee of our Board of Directors. In early 2021, the Governance and Nominating Committee was formally assigned the responsibility to assist the Board on matters relating to corporate responsibility and sustainability, including environmental, social and governance matters affecting the company. Our CSO is supported by a team of professionals who facilitate our goal-setting efforts, including actions to manage or mitigate risks, as well as pursue continuous improvement opportunities related to people, nature and agriculture.

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)	Improvements in efficiency - direct operations	Our environmental sustainability goals include Water Conservation, Greenhouse Gas (GHG) Emissions, and Land Stewardship. Our key business leaders and their teams have efficiency goals for water (i.e., reduction of product water intensity), 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	<Not Applicable>	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_2020_Sustainability_Report.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 — water issues, 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, are integrated into our long term business objectives. 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 certain water issues such as 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.
Strategy for achieving long-term objectives	Yes, water-related issues are integrated	5-10	Access to suitable quantities of water is key to achieving our long-term objectives and integrated into our strategic business plan. As part of our strategic activities around water access, 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 related issues such as 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. As water stewardship plans are developed for these site, goals and targets are set to help address water risk and scarcity concerns that are informed by and specific to the individual locations.
Financial planning	Yes, water-related issues are integrated	5-10	Natural disasters, fire, bioterrorism, pandemic or extreme weather, including water issues such as 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 as part of our strategic business plan to best mitigate our water quality and strategy risks at the facility level.

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. In the case of this reporting year, COVID-related impacts, e.g. reduced production, labor availability, etc. all had a negative impact on CAPEX business spending related to water. CAPEX spending that did occur was related to water conservation and savings projects tied to production processes. OPEX increased in line 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. Current innovations to complement our climate strategy include capturing produced biogas to power facilities, leveraging renewable energy opportunities, reinventing our transportation program, eliminating food waste, and increasing land stewardship through resource reduction. This year we committed to supporting improved environmental practices on 2 million acres of row crop corn by the end of 2020. Tyson Foods utilizes the Ecofys Model online tool to select the type of commodity and the region where the commodity is produced. For beef, pork, and chicken it uses production of fresh meat to calculate emissions. Tyson Foods used this model and their actual 2016 production data and anticipated 2030 production data to assess emission intensity reductions for Scope 3 emissions from poultry, pork and beef.

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 identified as part of our scenario analysis that extreme weather, including droughts, could impair the health or growth of livestock or interfere with our operations due to a decrease in availability of water.	In response, Tyson is working to establish contextual water targets, which consider local environments and conditions in order to make meaningful change. We've set these targets at three priority facilities: Finney County, Kansas; North Richland Hills, Texas; and Seguin, Texas, and are working on targets for our Amarillo, Texas, facility. We will continue to develop targets for at least seven additional locations in future years. In 2020, we also engaged in efforts to reduce the strain on the local water supply by reusing more than 1.9 billion gallons of wastewater from three plants for crop irrigation.

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 have been 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 approximately 8% compared to the 2015 baseline.

Quantitative metric

% reduction per unit of production

Baseline year

2015

Start year

2016

Target year

2020

% of target achieved

67

Please explain

Through the end of 2020, we achieved approximately 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 FY21 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

Providing access to safely managed Water, Sanitation and Hygiene (WASH) in workplace

Level

Basin level

Motivation

Water stewardship

Description of goal

As water stewardship plans are developed for specific high water risk facilities, these plans follow the Alliance for Water Stewardship Standards which include WASH as a mandatory part of a water stewardship plan.

Baseline year

2019

Start year

2019

End year

2020

Progress

To date we have not encountered any issues with ensuring access to WASH at our facilities. This is also in conformance with US Occupational Safety and Health regulations which provide specific regulatory requirements for this area.

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	43200000000

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.

Product name

Assorted chicken, beef, pork and prepared food products

Water intensity value

0.95

Numerator: Water aspect

Water withdrawn

Denominator

Gallons

Comment

We aim to balance responsible water stewardship with protecting the quality and ensuring the safety of our products. The majority of Tyson Foods' water consumption is associated with producing animal feed or raising animals. Comparatively, a smaller amount is used for production purposes at our facilities. Accordingly, to broaden our water stewardship efforts, we adhere to a water stewardship strategy informed by local watershed contexts. This strategy and subsequent contextual water targets were developed in partnership with the Water Resources Institute (WRI).

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, I will submit the Supply Chain questions now

Please confirm below

I have read and accept the applicable Terms