

2025 LIFE CYCLE ASSESSMENT AND GHG INVENTORY: ADVANCING SUSTAINABILITY IN CANADIAN CHICKEN

COLLABORATING
ACROSS THE
ENTIRE CHICKEN
VALUE CHAIN

2016-
2023

Chicken Farmers of Canada (CFC) first published a Life Cycle Assessment (LCA) of Canadian chicken production in 2018. In 2025, the new LCA highlights measurable progress in reducing emissions, improving feed efficiency, and minimizing environmental impacts across the value chain.

As a commitment to continuous improvement in a science-based perspective, this LCA underwent a formal critical review by a panel of independent experts, in accordance with the international standard ISO 14044.



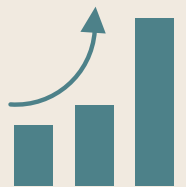
From coast to coast, farmers and businesses participated in this important study involving the entire supply chain of chicken production.

A LEGACY OF SUSTAINABILITY — REINFORCED BY OUR 2025 LIFE CYCLE ASSESSMENT

OUR APPROACH

DEDICATED EFFORTS TOWARDS CONTINUOUS IMPROVEMENTS

The 2025 LCA includes data from 2016 to 2023 and highlights that Canadian chicken farmers achieved a 6% reduction in carbon footprint per kilogram of eviscerated weight. Also, feed conversion ratio was improved by 6%. Using less feed to raise animals reduces land use for crops and decreases GHG emissions, as well as water and air pollution.



OUR RESULTS

LOWER ENVIRONMENTAL FOOTPRINT



6%
REDUCTION IN
CARBON FOOTPRINT



FEED HAS A LOWER
CARBON FOOTPRINT OF
APPROXIMATELY

10%
DUE TO CHANGES IN
COMPOSITION



6%
REDUCTION IN FEED
CONVERSION RATIO
(FCR)



A study conducted in 2024 by

AGÉCO

Funded by the Government of Canada under the Sustainable Canadian Agricultural Partnership.

Canada



**Sustainable Canadian
Agricultural Partnership**
Competitive. Innovative. Resilient.



THE ENVIRONMENTAL FOOTPRINT OF CHICKEN PRODUCTION IN CANADA



BENCHMARK AND PERSPECTIVE

KG CO₂ EQ. PER KG OF CHICKEN

When considering the average carbon footprint of chicken in different regions around the world, chicken from North America has the lowest carbon footprint overall, and Canada is leading the way with a 2.2 kg CO₂ eq. per kilogram of eviscerated chicken.

NORTH AMERICA – 100

CENTRAL AND SOUTH AMERICA – 113

WESTERN EUROPE – 122

SOUTH ASIA – 152

EAST ASIA – 153

WESTERN ASIA AND NORTHERN AFRICA – 161

Because the values are from a difference source, the carbon footprint of the different regions have been normalized with the North America result (100).

Source Values for 2015 taken from FAO. 2022. GLEAM 3 Dashboard.
In: https://foodandagricultureorganization.shinyapps.io/GLEAMV3_Public/

GHG INVENTORY:

The total GHG emissions of the Canadian chicken sector is estimated at 3 Mt of CO₂ equivalent, 23% of which are direct emissions at the farm. The remaining emissions are indirect from purchased feed, fuels and meat processing. Chicken farming GHG emissions account for 2% of Canada's agricultural emissions.

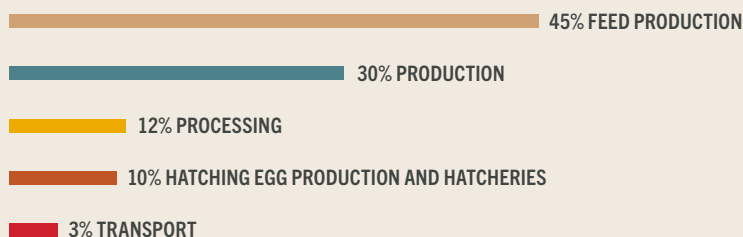
The good performance of chicken protein is explained by the fact that chickens do not produce significant emissions from enteric fermentation.



CARBON FOOTPRINT (GHG EMISSIONS)

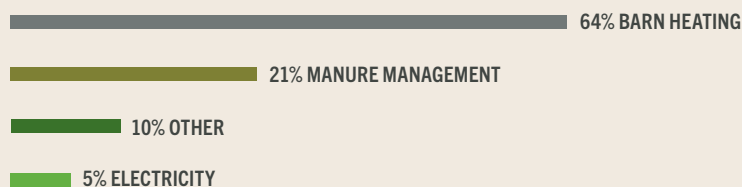
2.2 KG CO₂ EQ./ KG OF CHICKEN

CONTRIBUTION OF EACH LIFE CYCLE STAGE



With a contribution of 45% to the total carbon footprint, broiler feed production is the most significant contributor in the life cycle of chicken production.

BREAKDOWN OF GHG EMISSIONS AT BROILER FARMS

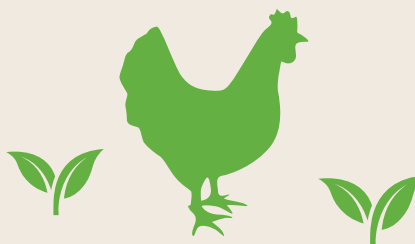
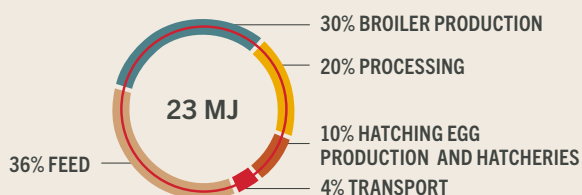


Energy use in broiler barns contributes to 69% of the carbon footprint at the broiler production stage. The carbon footprint is directly influenced by the amount of energy consumed, the type of heating fuel used, and the provincial electricity grid mix.



NON-RENEWABLE ENERGY USE

23 MJ / KG OF CHICKEN



WATER CONSUMPTION

61 L OF FRESHWATER / KG OF CHICKEN



Feed production accounts for 55% of total water use, with irrigation being the primary driver of this consumption.

WHAT'S NEXT FOR SUSTAINABILITY IN CANADA'S CHICKEN SECTOR?



CANADA'S CHICKEN SECTOR IS TAKING IMPORTANT STEPS TO BUILD A MORE SUSTAINABLE FUTURE



BUILDING A SUSTAINABILITY STRATEGY

We're developing a long-term plan that encourages environmental innovation, contributes to strong communities, and supports a thriving economy. This strategy will guide the industry in adapting to climate change and meeting future challenges.



LISTENING AND COLLABORATING

We're working closely with farmers, partners, and other stakeholders to understand their needs and expectations. By sharing the results of our environmental assessments, we aim to build support and highlight the progress already made.



TURNING GOALS INTO ACTION

Clear commitments and a roadmap will help us move from ideas to impact. We'll support farmers with education and research to help them succeed.



MAKING SUSTAIN- ABILITY PART OF OUR DECISIONS

We're strengthening our ability to track trends and make informed choices. Sustainability will be at the heart of everything we do—from planning to daily operations.

THE SOCIAL PERFORMANCE



A GLOBAL CONTRIBUTION TO THE CANADIAN ECONOMY 2,853 CHICKEN FARMERS & 191 PROCESSORS



PAY

\$4 billion
in taxes



CONTRIBUTE

\$12.2 billion
to Canada's Gross
Domestic Product



PURCHASE

3 million tons
of feed, supporting
other farmers in turn



SUSTAIN

112,604 jobs
across the
supply chain



COMMITTED TO FOOD SAFETY & ANIMAL CARE

100% Canadian chicken farmers are certified on the *Raised by a Canadian Farmer* On-Farm Food Safety Program (OFFSP) and Animal Care Program (ACP).



DEDICATED TO THEIR COMMUNITIES

In 2024, chicken farmers from coast to coast contributed over \$900,000 to charitable initiatives—much of it directed toward supporting local food banks and helping those in need across the country.



SUPPORTING ACTIVE LIFESTYLES

CFC proudly supports Canadian sports, helping athletes thrive from their first steps in sport to the national stage. Each year, CFC contributes \$100,000 to Swimming Canada and \$50,000 to Skate Canada.