The main objective of the life cycle assessment (LCA) is to quantify the environmental impact of milk production in Canada.<sup>1</sup> Two LCAs were conducted in 2011 and 2016 by an independent team of life cycle analysis professionals.

MAIN ENVIRONMENTAL FOOTPRINTS WERE ASSESSED:







## **ASSESSING THE COMPLETE LIFE CYCLE**

The study takes a comprehensive look at all the stages and inputs of milk production.



production



Feed

production



Growing

crops

Resource /energy extraction and usage



Milk

production

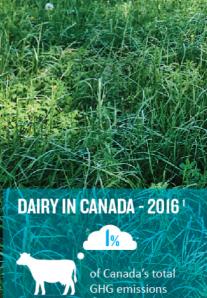
Farm operations



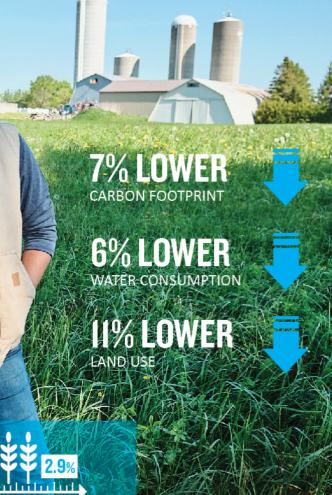
**Transport** 

Processor's

IMPROVED ENVIRONMENTAL IMPACT OF DAIRY 2011-2016'







## IMPROVING ENVIRONMENTAL OUTCOMES THROUGH INVESTMENT IN RESEARCH AND TECHNOLOGY

of Canada's total

agricultural land



Improvements in manure management and feed production helped reduce carbon footprint of dairy farms.



New approaches to reducing water consumption, increased water recycling, plus enhanced soil quality to retain more water led to less water needed.



Better crop management and precision agriculture helped increase crop yields and reduce land needed.



To keep advising farmers on the best strategies to further accelerate improvement of our environmental footprint, Dairy Farmers of Canada is conducting life cycle assessments every five years.

