

# GOOD THINGS COME FROM CORN



## Corn

Corn comes in many varieties including sweet corn, popcorn, Indian corn, and dent corn. The corn you eat off the cob, pop in the microwave, or heat from a can is very different from the majority of corn you see growing in the fields. In fact, less than 10 percent of the world's corn supply is consumed by humans in kernel form.

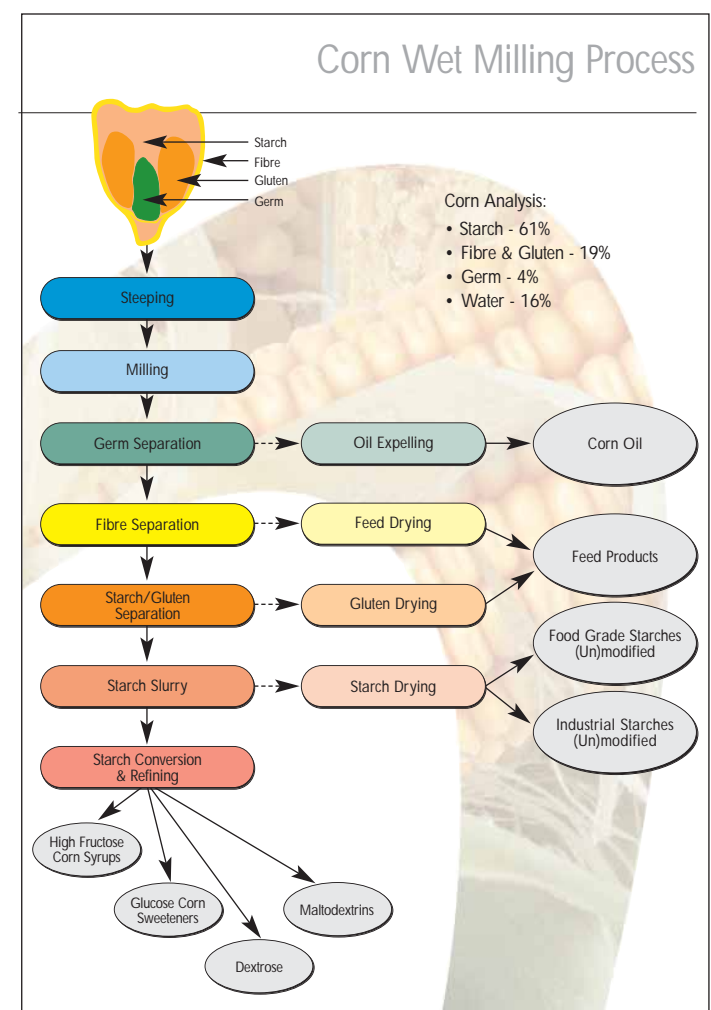
Dent corn, also known as industrial corn, is the most widely grown. In Canada, Ontario and Quebec are the largest corn producing provinces, with more than 350 million bushels harvested annually.

**1 ear = 800 kernels**  
**56 pounds of kernels = 1 bushel**  
**39 bushels = 1 tonne**  
**135 bushels = 1 acre**

When refined, dent corn can be used in the manufacture of literally thousands of products ranging from food, to pharmaceutical, to paper, to fuel.

## Corn Refining Process

There are two main refining processes – dry milling and wet milling. Dry milling grinds the kernels of corn – a process often used to make ethanol. The wet milling process soaks (steeps) the kernels and separates them into four components – starch, fibre, gluten, and germ. These components are then refined to make starch, sweetener, oil, and feed products.



## Corn Refined Products

### Corn Starches

There are two categories of starches refined from corn – food and industrial. Food grade starches are used extensively as thickening and gelling agents in food products such as pie fillings and soups. Industrial starches are used primarily by the paper and corrugating industries and, more recently, in chemical and plastic applications.

### Corn Sweeteners

There are numerous types of sweeteners made from corn including high fructose, glucose, and dextrose. High fructose and glucose syrups are used to sweeten a variety of products including baked goods, beverages, canned foods, ice cream, and candies. Dextrose is used for its light sweetness, texture, bulking, and colour in a variety of food and confectionery applications. It is also used for making solutions for intravenous injections.

### Corn Oil

Corn oil is used extensively for cooking, and is a main ingredient in margarine, salad dressing, and mayonnaise. It is also used in a number of pharmaceutical, feed, and industrial applications.

### Feed Products

Used in dairy, poultry, and pet foods, feed products form the basic protein source and provide a nutritionally well-balanced diet.

## Casco Inc.

Casco Inc., founded in 1858, was the first corn refining company in Canada. Initially manufacturing corn starch for the textile industry, the Company now provides an array of products used in food, beverage, feed, and industrial applications.

In Canada, Casco is the only corn wet miller and the largest industrial user of corn. Millions of bushels are processed annually at Casco's three refining facilities located in Ontario: Cardinal, Port Colborne, and London.

The "original" Cardinal plant is now a state-of-the-art facility producing the most extensive range of products, many specifically refined to meet customers' requirements.

The Port Colborne plant was built in 1982 to supply the growing high fructose corn syrup (HFCS) markets in Canada and the northeast region of the United States.

The London plant was acquired in 1987 to meet the continuous demand for corn refined products. This facility is now Casco's largest processor of corn.

Casco pioneered an industry that produces an extensive range of products that have become a part of our everyday living.



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