

Further Down the Supply Chain

THE CORN INDUSTRY'S COMMITMENT TO SUSTAINABILITY

Animal Agriculture Focus

Corn production has made great strides in sustainability while increasing productivity over the last several decades. While the focus at the front of the supply chain is on continuous improvement for farmers, the same can be seen for those downstream in animal agriculture, where innovation from the corn industry continues to be introduced.

Between 1980 and 2015, corn farmers have:



REDUCED SOIL
LOSS PER ACRE BY

58%



IMPROVED IRRIGATION
EFFICIENCIES, LEADING
TO PER BUSHEL
DECLINES IN IRRIGATION
WATER USE OF

46%



DECREASED THE
AMOUNT OF LAND
REQUIRED TO
PRODUCE A BUSHEL
OF CORN BY

41%



IMPROVED ENERGY
USE EFFICIENCY
PER BUSHEL BY

41%



REDUCED
GREENHOUSE GAS
(GHG) EMISSIONS
PER BUSHEL BY

31%

Source: Field to Market Indicators Report, 2016

WHY CORN IN FEED?

Corn and corn-based products (Distillers Grain, Corn Gluten Feed, etc.) play a very important role as animal feed for the beef, dairy, pork, poultry, aquaculture and pet food sectors.

Meeting Nutritional Needs

Did you know that corn and the co-products of ethanol, distillers grain, are a nutritious source of feed?

Low fiber content makes it the easiest grain for chickens to ingest.

Increases feed efficiency in beef cattle, leading to reduced days needed to finish, plus increased marbling.

Aquaculture gains a more economical source of feed, plus with advanced milling technologies – more customizable feed per species.



Adding to Sustainability

The bioethanol products: ethanol, distillers grains, distillers corn oil and biogenic CO₂.

The versatility of corn utilizes all parts of the kernel, with minimal waste.

Provides affordable, extended shelf-life for feed products.

Economic option for livestock, pets and aquaculture feeds with continued opportunities for efficiencies in production.

INVESTING IN THE FUTURE

Advanced fractionation technologies within the bioethanol industry will aid the animal ag sector to further customize feed rations based on species. Supporting the delivery of an optimized feed profile to the right animal at the right time:



BEEF

Customized rations, i.e. higher protein, during varying stages of a development to meet nutritional needs.



POULTRY

Low oil DDGs help poultry producers gain more energy, while supplementing less fat, supporting improved egg yolks and skin yellowness.



AQUACULTURE

Provides aquaculture with an economical source of sustainable feed, capable of being customized by species thanks to advanced processing technologies.

THE POWER OF AND

Corn's versatility added to its availability and affordability making it a smart choice for food AND feed AND fuel AND biobased products. Corn processing continues to find efficiencies and reduce waste.

WHAT YOU GET FROM A BUSHEL OF CORN



33 LBS.
SWEETENER

OR



31 LBS.
STARCH

OR



22 LBS.
PLA FIBER/
POLYMER

OR



AVERAGE DRY-GRIND ETHANOL PROCESS

2.9 GALLONS
FUEL ETHANOL

0.8 LBS.
DISTILLERS CORN OIL

15.2 LBS.
DISTILLERS DRIED
GRAINS (DDGS)

1.1 LBS.
BIOGENIC CO2