

IMPROVED FEED EFFICIENCY FOR YOUR BEEF CATTLE

Enogen™ corn for feed offers proven, high-yielding hybrids that can help deliver improved feed efficiency, potentially lowering feed costs for your beef operation.

Improved Feed Efficiency of About **5%** when fed as grain or silage¹

5%

Enogen corn can improve feed efficiency in growing and finishing beef cattle, whether you feed it as whole-shelled (WSC), dry-rolled (DRC) or steam-flaked corn (SFC), or as silage. You also get:

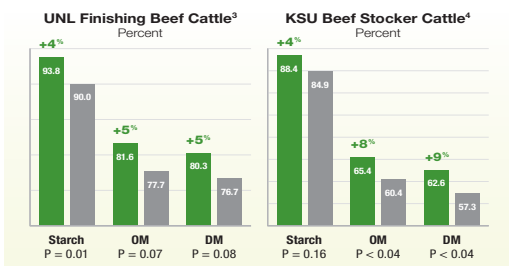
- **Farm-proven results**, with demonstrated yield potential and elite genetics and traits
- **Ultimate flexibility**, with the option to harvest as silage, high-moisture corn or grain
- **Silage quality and consistency**, delivering greater levels of starch digestibility and more immediately available nutrients from day one after harvest and for more than eight months in the silo²



More Available Energy in Every Pound

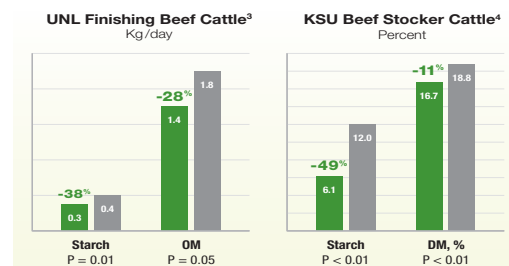
Enogen corn contains a robust amylase enzyme that quickly converts starch to usable sugars, meaning there is more available energy per pound of Enogen silage or grain than in any other corn. Improved starch digestibility means more available energy for your beef cattle with improved total tract digestion and reduced fecal output, as shown by university data.^{3,4}

Total Tract Digestibility



- Both studies showed increases in total tract digestibility of starch, organic matter (OM) and dry matter (DM) when Enogen grain was included in feed rations in place of conventional grain.

Fecal Output



- Reduced fecal output of starch and OM or DM when cattle were fed Enogen grain confirms that more of the nutrients consumed are being retained for conversion into energy by the animals.



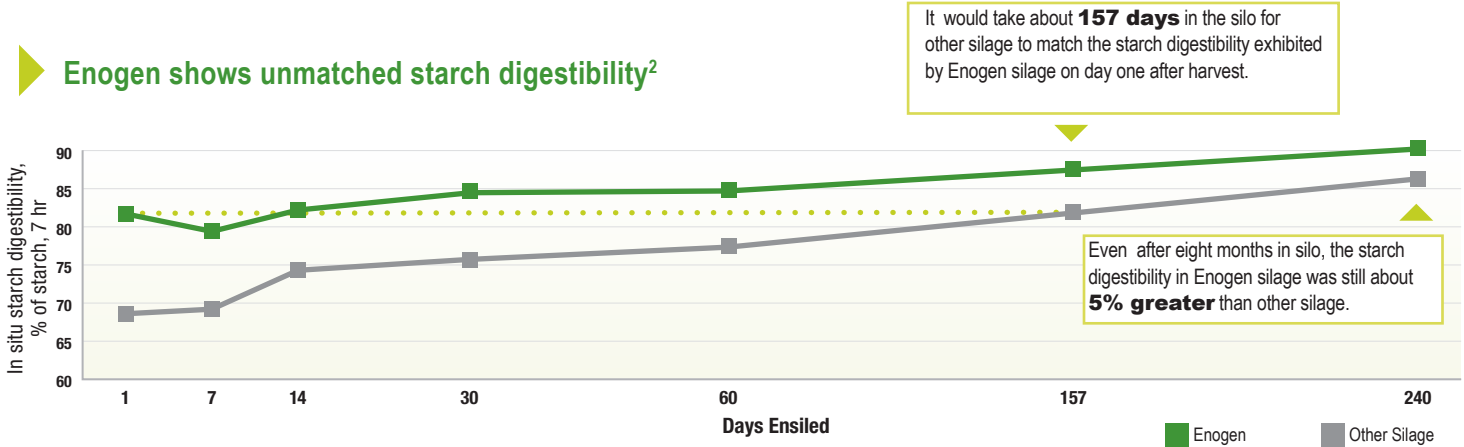
For more information, visit Syngenta.ca/Enogen or contact your Enogen representative.

Silage Quality and Consistency

▶ Enogen silage may last longer than other silage⁴

- +42 hours of aerobic stability in a standard lab “bucket” test
- 12% higher level of acetate (which may act as a preservative)

▶ Enogen shows unmatched starch digestibility²



Paving the Path to Sustainable Beef Production

- ▶ Life Cycle Assessment (LCA) shows **potential environmental savings could be significant** — increasing feed efficiency by about 5% in backgrounding and the feed yard could yield savings like these per 1,000 head.⁵

CLIMATE CHANGE:
> 162k kg CO₂e

GHG Equivalent of **35** Passenger Cars for 1 Year

LAND USE:
66 Acres

Land Use Equivalent of **50** Football Fields for 1 Year

WATER USE:
> 6M Gallons

Water to Fill **9** Olympic Swimming Pools Over 1 Year

ENERGY USE:
> 269k kWh

Energy to Power **25** Average Homes for 1 Year

OUR STEWARDSHIP COMMITMENT

As a high-value output product, Enogen corn for feed must be grown as an Identity Preserved (IP) crop and fed on-farm only. Farmers must adhere to all applicable stewardship requirements and sign and comply with an Enogen contract with Syngenta.



¹ University of Nebraska-Lincoln Research Studies, 2013-2017; Kansas State University Research Study, 2017.

² Syngenta Contract Research 2019, Estimated from linear regressions for each hybrid type, R² > 84%, Enogen n=104, Other n=64; Trials were conducted in the U.S. and included a Canadian Enogen hybrid and U.S. Enogen hybrids.

³ University of Nebraska-Lincoln Research Study, 2016.

⁴ Kansas State University Research Study, 2017.

⁵ Based on LCA conducted by the University of Arkansas Resiliency Center, 2020, for 1,000 head, backgrounding through feed yard, using these experimental data and resources: Translational Animal Science Volume 3, Issue 1, January 2019, 504-512, <https://doi.org/10.1093/tas/txy121> (Exp 2); Kansas Agricultural Experiment Station Research Reports: Volume 4: Issue 1, <https://doi.org/10.4148/2378-5977.7543> (Exp 1); <https://epa.gov/energy/greenhouse-gas-equivalencies-calculator>.

All photos are either the property of Syngenta or are used with permission.