



ENOGEN VALUE PRESERVATION & STEWARDSHIP GUIDE

FOR ENOGEN CORN GROWERS

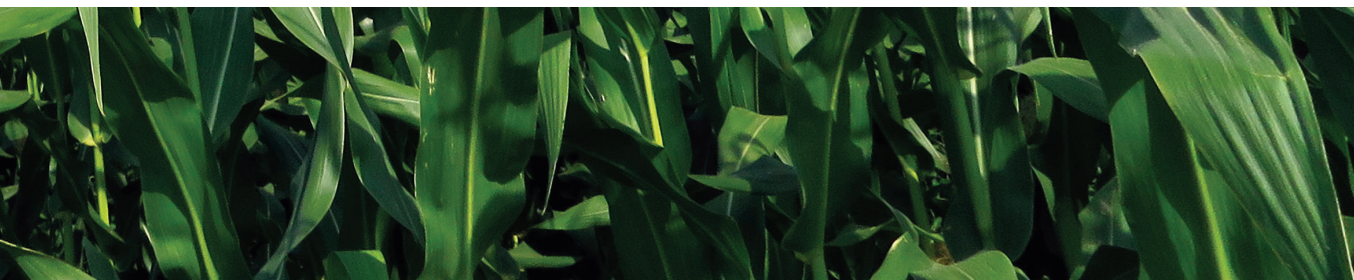


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TECHNOLOGY OVERVIEW

Enogen® corn features a unique enzyme technology exclusively from Syngenta. Compared to other commercially available corn hybrids, this technology creates a higher concentration of alpha-amylase within the endosperm of grain.

Alpha-amylase is crucial to ethanol production because it helps break down starch during the process. By providing a vital ingredient right in the kernel, Enogen corn improves overall efficiency and throughput.

Enogen technology also delivers a unique benefit in the form of a more digestible feed ration for beef and dairy cattle.

With all these unique properties, Enogen corn must be grown as an identity-preserved crop. That's why participating in this program requires communication with your neighbors to ensure coexistence with all crops near your farm.

As long as you follow the proper stewardship requirements, you can still use your existing cultural farming practices including nutrient, insect and disease management programs.





STEWARDSHIP MISSION

Enogen corn is not commodity corn. It is a high-value specialty grain that must be grown as an identity-preserved crop.

Syngenta has developed the following stewardship program to simplify proper management of the crop, and to ensure it reaches the intended channels.

COMMUNICATION

Proactive communication with your neighbors is vital to the stewardship mission of Enogen corn.

You are expected to share your crop intentions with your neighboring growers and to understand their intentions as well. By doing so, you'll help to protect Enogen corn as an identity-preserved crop and its grower premium programs.

If you need support in sharing the necessary information, please contact your Enogen Representative.





STEWARDSHIP OVERVIEW

DIRECT

(FED ON FARM)

- ▶ Read your Enogen contract
- ▶ Ensure 30 ft. border rows are adjacent to other annual crops (regardless of ownership) unless separated by a physical border of 30 ft. or greater
- ▶ Clean any equipment used during planting, harvest, storing and transport, including the following:
 - Seed tenders, planters, combines, choppers, trailers, wagons, grain carts, conveying equipment and grain bins*
- ▶ Return all unplanted seed to your reseller or dispose of it properly
- ▶ Inform reseller of planting and harvesting dates and details for them to complete all necessary documentation in GrowMore360, including identifying Enogen field locations no later than March 15 of the planting season*

DESTINATION

(COMMERCIAL FEED & BIO FUELS)

- ▶ Read your Enogen contract
- ▶ Verify your destination requirements for Enogen production contracts (delivery months, pricing options, quality specs, etc.)
- ▶ Ensure 30 ft. border rows are adjacent to other annual crops (regardless of ownership) unless separated by a physical border of 30 ft. or greater
- ▶ Clean any equipment used during planting, harvest, storing and transport, including the following:
 - Seed tenders, planters, combines, choppers, trailers, wagons, grain carts, conveying equipment and grain bins*
- ▶ Identify and segregate Enogen seed (visual aids will be provided for identification)
- ▶ Return all unplanted seed to your reseller or dispose of it properly
- ▶ Inform reseller of planting and harvesting dates and details for them to complete all necessary documentation in GrowMore360, including identifying Enogen field locations no later than March 15 of the planting season*

After planting, both the Enogen rows and the border rows may be verified by audits. Audits may also be conducted after harvest. Per the Enogen contract, Syngenta reserves the right to enter your fields to ensure Enogen related stewardship requirements are being followed, including:

- ▶ Field map accuracy
- ▶ Yield checks
- ▶ Border row verification

*Field changes are acceptable, but you must first communicate with your neighbor, verify field location change with your Enogen Representative and inform your reseller so they can update the system accordingly.



GRAIN TRACKING

To more easily identify loads and simplify grain tracking, Enogen corn features a naturally derived colored tracer trait called the Enogen Value Tracker.

Up to 5% of seed in Enogen bags will contain the colored tracer. Once planted, the tracer will be expressed in random plants throughout the field.

Enogen Value Tracker is non-Enogen seed* to be used as a color tracer enabling Enogen grain to be easily identified relative to commodity corn via the inclusion of purple or maroon kernels.

The goal of the Enogen Value Tracker is to ensure the grain can be easily identified throughout the transportation and delivery process.

**Enogen Value Tracker grain may contain the alpha-amylase enzyme (event 3272) found in Enogen corn.*



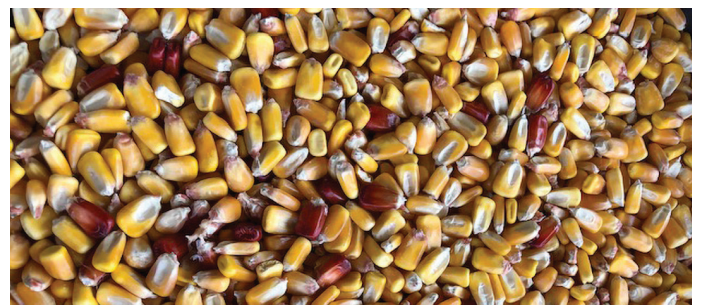
Enogen Value Tracker Corn Plant (Purple)



Enogen Value Tracker Grain (Purple)



Enogen Value Tracker Corn Plant (Maroon)



Enogen Value Tracker Grain (Maroon)



CONTRACT AND MANAGEMENT SYSTEM

Enogen corn is contracted through an online contracting and management system that enables you to easily manage your stewardship obligations. A valid Syngenta Seeds, LLC Stewardship Agreement is also required for the grower.

FEATURES

- ▶ GPS mapping tool for Enogen fields, border rows and storage locations
- ▶ Distribution plan to the destination
- ▶ Inventory management
- ▶ Stewardship documentation

REQUIRED INPUTS

Certain inputs are required at key stages to document your stewardship activities and ensure the end-use destination has a clear view of the projected Enogen corn inventory.

KEY STAGES

- ▶ Planting
- ▶ Harvest



BORDER ROWS

Enogen stewardship requires you to plant 30 ft. border rows from any annual crop unless separated by a physical border of 30 ft. or greater (e.g., tree lines, roads, perennial crops, etc.).

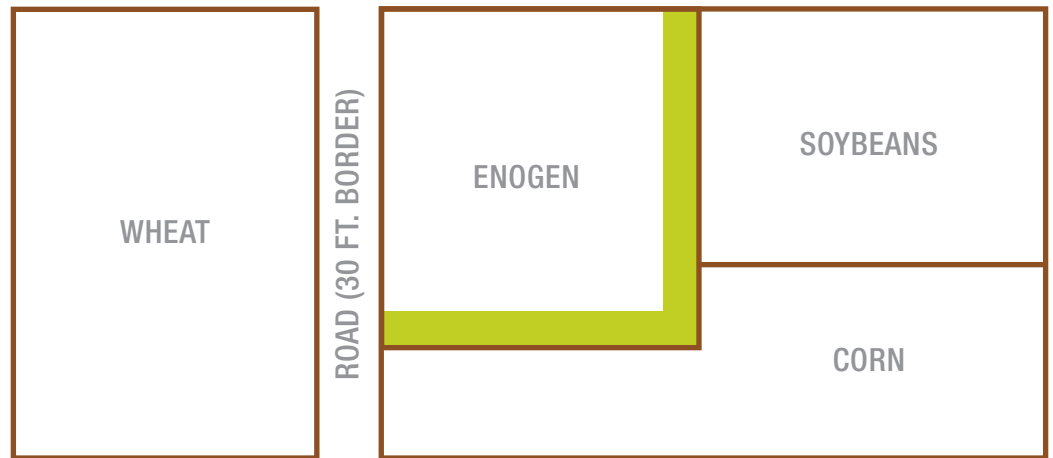
KEY



BORDER ROW
REQUIRED



GROWERS' LAND



SAMPLING

After planting, both Enogen corn rows and border rows may be audited and verified through sampling.

If you've made any changes* in planting from your contract, please consult your Enogen Representative.

**(Changes could be altered border rows, unclear planting patterns or overplanting due to planter turnaround and unspecified field edges.)*



PARTIAL BAG RETURN

Any unplanted Enogen seed is required to be returned to the seed reseller. Partial bags of Enogen seed must be returned or properly destroyed (bury or burn).

PROCESS

- ▶ Growers will return ALL partial paper bags or Q-Bits* boxes to reseller.
- ▶ Reseller will inventory and consolidate seed in empty Q-Bits for return to plant.
- ▶ Reseller dumps all partial units into Q-Bit (partial Enogen units are acceptable to mix).
- ▶ Resellers maintain a list of growers and approximate seed weights to aid in reimbursement to growers.

PACKETS

A packet will be provided with an optional tracking form, identification label and zip pouch for returning Enogen seed.

The identification label should be placed inside the pouch on the front of the partial bag or Q-Bit(s) to clearly identify it as Enogen Partial Bag Returns.

If you are returning pallets, the form should be placed on the pallet and shrink-wrapped with all partial bags.

RETURN DATES

All Enogen seed returns (full and partial units) must follow the same seed return dates as all other non-Enogen corn seed returns.



CLEANOUT CHECKLIST

Remove all visible seed from the following:

PLANTER

- ▶ Planter boxes
- ▶ Pneumatic system
- ▶ Seed plates

SEED TENDER

- ▶ Hopper
- ▶ Auger

COMBINE

- ▶ Header
- ▶ Feeder house
- ▶ Rock trap
- ▶ Grain tank
- ▶ Platforms and shields
- ▶ Engine compartments
- ▶ Monitor sensors
- ▶ Walkers

NON-GRAIN STORAGE FACILITIES

Clean to the best of your ability.

GRAIN CART

- ▶ Hopper
- ▶ Auger

TRAILER

- ▶ Storage area
- ▶ Gates
- ▶ Sides
- ▶ Tarp

GRAIN STORAGE FACILITIES

- ▶ Augers
- ▶ Legs
- ▶ Sweeps
- ▶ Bin
- ▶ Dryers



STORAGE REQUIREMENTS

GRAIN STORAGE FACILITIES

- ▶ Clearly display magnetic Enogen signs or stickers for identification
- ▶ Mark auger and leg switches
- ▶ Check the corn on a monthly basis for quality
- ▶ Aerate the bin as needed

NON-GRAIN STORAGE FACILITIES

- ▶ Check for quality specifications





SILAGE TESTING

When sending silage samples to the Enogen Lab at Stanton, please clearly identify your sample as Enogen corn. If you need information on where to send silage samples, please reach out to your Enogen Representative.

If you have specific questions regarding Enogen corn testing, please contact the Enogen Lab at Stanton at 507-645-5621.





TRANSPORTATION REQUIREMENTS

- ▶ Trailer must be tarped at all times during movement
- ▶ Trailer must be cleaned of any spilled grain prior to leaving loading site
- ▶ An Enogen placard must be in place and highly visible

*If an incident occurs while hauling or any grain is spilled,
please call 1-800-888-8372*





GRAIN TESTING

All Enogen grain is required to undergo a verification test. If any grain fails the test, please consult with an on-site Enogen Representative.

Enogen grain should not be delivered to any unspecified location. You may only deliver to an alternate location if directed by an Enogen Representative or Enogen Stewardship Lead.

Remember, your local destination discount schedule still applies. Please keep your placards and hopper tags for future use after delivery.





SYNGENTA GROWER STEWARDSHIP AGREEMENT

A strong stewardship program is essential for protecting and preserving the long-term value of trait technology. Syngenta provides responsible agriculture programs and information regarding the safe handling and storage of products.

STEWARDSHIP REQUIREMENTS

Prior to planting corn hybrids with traits, you are required to sign a Syngenta Seeds, LLC Stewardship Agreement. This agreement outlines the terms and conditions of growing Syngenta seed hybrids, including the terms of a limited license under Syngenta's intellectual property, compliance with the Environmental Protection Agency (EPA)-mandated Insect Resistance Management (IRM) programs and grain channeling requirements. The deadline to have all completed agreements to Syngenta is June 30th, annually.

AGREEMENTS CAN BE SENT USING ONE OF THE FOLLOWING METHODS:

Online

agcelerate.com

Electronic Statement

Electronic signatures will be accepted only through agcelerate.com. Any other form of electronic signature will be rejected.

Email

agreements@agdata.com

Fax

1-704-919-5581

Mail

AgCelerate

Attn: Stewardship

P.O. Box 221679, Charlotte, NC 28222-1678

CORN REFUGE REQUIREMENTS

It is important to recognize that different hybrid or trait packages may have different IRM requirements. On-farm mixing of any seed is not an approved method to comply with stewardship requirements. Always check the bag tag to ensure the accurate refuge size requirement.

BEST MANAGEMENT PRACTICES

Syngenta and other industry registrants have cooperatively developed the EPA-mandated IRM Compliance Assurance Program. This program requires corn seed companies to evaluate the extent to which growers are adhering to the IRM requirements and ensure that those who do not are brought back into compliance.

For more information on corn refuge requirements, refuge acres and Insect Resistance Management, see the [Syngenta Stewardship Guide](#)



FURTHER ASSISTANCE

General Info

[Syngenta-us.com/enogen](https://syngenta-us.com/enogen)

Contract & Management System

[Enogen-sellers.growmore360.com/login](https://enogen-sellers.growmore360.com/login)

Contract Support

support@syngentadigital.com

270-435-4369

Additional Contract & Stewardship Support

[Agconnections.zendesk.com](https://agconnections.zendesk.com)

IP360 - Enogen Field Locations

ip360.agconnections.com

General Support

1-866-SYNGENTA

Stewardship Compliance Hotline

1-800-888-8372

Nutrition Support Line

Need an Enogen expert to reach out to a nutritionist?

Nutrition.Help@Syngenta.com



