



# 2026

## Sunflower & Canola

Hybrid & Market Guide

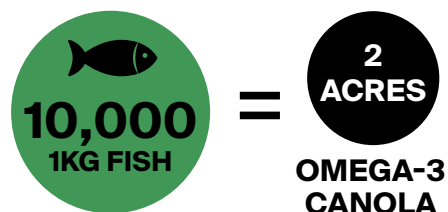




## AN EMERGING CROPPING OPPORTUNITY DELIVERING PROFIT AND PERFORMANCE FOR GROWERS, DRIVEN BY MARKET DEMAND.

Nufarm is partnering with select growers to provide a sustainable source of land-based omega-3's – supporting the growing needs of both aquaculture and human nutrition markets.

### DHA PRODUCTION COMPARISON



### THE OMEGA-3 CANOLA PRODUCTION SYSTEM ADVANTAGES

- Soil health and water management benefits
- Stable yields
- Weed resistance management
- Premiums
- End use market opportunities and agronomy support



Nuseed Omega-3 Canola is processed into our proprietary oil ingredients, Aquaterra® for aquafeed and Nutriterra® for human nutrition markets. Both products are more than just alternative sources of omega-3; they are uniquely rich in total DHA, vital building blocks for good nutrition.



END-USE  
MARKET  
OPPORTUNITY



ATTRACTIVE  
PREMIUM  
OPPORTUNITIES



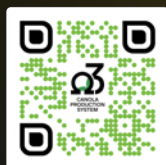
TRUCKING  
ALLOWANCE



AGRONOMY  
SUPPORT



# PROFIT AND PERFORMANCE FOR GROWERS, DRIVEN BY MARKET DEMAND.



**Interested in becoming a Nufarm Omega-3  
Canola Production System grower?**

Go to [Omega3Canola.com](http://Omega3Canola.com) to learn more and  
see if you're a good fit for our program.



# Cutting-Edge Canola Hybrids

With The Most Advanced  
Weed Control System

**TruFlex**  
CANOLA



## IMPROVED CONTROL OF TOUGH WEEDS

The TruFlex canola system offers flexible, season-long control of tough weeds like cleavers, foxtail barley, wild buckwheat, and dandelions.



## FLEXIBILITY IN SPRAY RATES AND TIMING

TruFlex canola offers a wider spray window than Roundup Ready®, allowing applications up to first flower with sequential 22 fl oz/ac rates. It also provides flexibility in Roundup PowerMAX® rates to handle late weed flushes or weather delays.



## HIGHER YIELD POTENTIAL THROUGH GENETICS AND CROP SAFETY

TruFlex canola combines high-yield genetics with improved trait technology for better weed control and crop safety than Roundup Ready®, boosting yield potential at harvest.

**TruFlex**  
CANOLA

# NC527CR TF

Leading Edge Clubroot Resistance

## MATURITY: MEDIUM-LATE

- TruFlex® Canola with Roundup Ready® Technology
- Multigenic clubroot resistance
- High yielding
- Excellent harvestability

## DISEASE PACKAGE

**Blackleg:** Multi-gene Resistant  
**Fusarium Wilt:** Resistant

## AGRONOMICS

**Plant height:** Tall

**Seed color:** Black

**Early season vigor:** 8

**Standability:** 7

## HARVEST CHARACTERISTICS

**Oil content:** 7

**Straight cut rating:** 5.5



Nufarm sunflower hybrids are bred and tested in the heart of the U.S. sunflower region for strong, reliable performance. With R&D based in Breckenridge, Minn., and support from the Nufarm Innovation Center in Sacramento, Calif., we deliver leading-edge traits to U.S. growers.

Our hybrids feature advanced downy mildew resistance, Phomopsis tolerance, and herbicide tolerance to meet your field's needs. With a wide range of maturities, sizes, and oil profiles, Nufarm supports all four market segments: high oleic, NuSun® (mid-oleic), conoil (dehull), and confection.

Nufarm sunflowers are tested on acres like yours, so they perform on acres like yours.

## Herbicide Tolerant Traits

Sunflowers are a non-GMO crop. Through years of selective breeding techniques, Nufarm has introgressed the Clearfield®, Clearfield® Plus and ExpressSun® traits into the majority of our hybrids to help growers manage weeds.



The Clearfield® Production System for sunflowers offers broad-spectrum control of grass and broadleaf weeds, including ACCase-resistant types. It pairs high-yield hybrids with Beyond® Xtra herbicide tolerance for effective postemergent weed control in any tillage system.



Maximize sunflower yields with the Clearfield® Plus Production System. Paired with Beyond® Xtra herbicide and methylated seed oil, it tackles tough weeds more effectively.



ExpressSun® hybrids tolerate Express® herbicide, delivering broadleaf weed control, improved yield potential, and cost-effective management with full re-cropping flexibility.



Sunflower Hybrid Characteristics

	HIGH OLEIC							
	N4H161 CL	NEW N4H205 E	N4H302 E	NEW N4H337	N4H422 CL	NEW N4H462 E	N4H470 CLP	N4H490 E
MATURITY	ULTRA- EARLY	EARLY	MED-EARLY	MED- EARLY	MEDIUM	MEDIUM	MEDIUM	MEDIUM
TRAITS	Clearfield/ DMR	ExpressSun/ DMR	ExpressSun	ExpressSun/DMR	Clearfield/ DMR	ExpressSun/ DMR	Clearfield Plus/ DMR	ExpressSun/ DMR
EMERGENCE	8	8	9	8	8	8	8	8
DROUGHT TOLERANCE	7	7	6	7	8	8	8	8
UNIFORMITY AT FLOWERING	8	8	8	9	8	9	9	9
YIELD FOR MATURITY	8	8	7	8	8	9	9	9
TEST WEIGHT	8	7	7	8	8	8	8	8
DRY DOWN	5	9	8	7	7	6	6	6
OIL CONTENT	6	9	7	8	7	8	8	8
LATE SEASON PLANT HEALTH	8	7	7	8	8	8	8	8
STALK RATING	7	8	7	8	9	8	7	7
ROOT RATING	8	8	6	7	9	8	7	7
PLANT HEIGHT	3	6	6	6	8	8	8	8

Hybrid Rating Scale 1=Poor, 9=Excellent    Plant Height Rating Scale 1=Shortest, 9=Tallest



	NUSUN	CONOIL (DEHULL)	CONFECTION
	FALCON	N5H493 CL	PANTHER DMR
MATURITY	MED- EARLY	MEDIUM	EARLY
TRAITS	ExpressSun	Clearfield	DMR
EMERGENCE	7	7	7
DROUGHT TOLERANCE	8	7	6
UNIFORMITY AT FLOWERING	8	8	7
YIELD FOR MATURITY	8	8	8
TEST WEIGHT	8	6	8
DRY DOWN	7	7	7
OIL CONTENT	7	3	N/A
LATE SEASON PLANT HEALTH	8	7	7
STALK RATING	8	8	8
ROOT RATING	7	8	7
PLANT HEIGHT	6	6	6



# High Oleic



Developed in the U.S., our high oleic oil sunflower hybrids deliver strong agronomics, high yields, and excellent oil content. The oilseed crush industry requires a minimum oleic level ranging from 82% to 85%.

While oleic levels can vary year to year due to environmental pressure, Nuseed sunflower hybrids target a minimum oleic level of 85% or higher, with some hybrids reaching greater than 90% oleic acid.

High oleic sunflower oil has a neutral taste and provides excellent stability without hydrogenation for the food industry and high oleic sunflower oil offers a trans fat free oil solution for end use customers. High-oleic sunflower oil is also being used in many of the new plant-based food products.

## N4H161 CL

This ultra-early high oleic is the perfect hybrid for Northern climates with short growing seasons or in the High Plains for a double crop option. With a shorter plant height, N4H161 CL has excellent root strength and late season plant health.

**MATURITY:** Ultra-Early

**MARKET:** High Oleic

**TRAIT:** Clearfield

**DMR:** Yes

- Beyond Xtra herbicide tolerant
- Earliest maturity in the Nuseed lineup
- Excellent yield and oil content for maturity
- Short plant height

## N4H205 E

NEW

N4H205 E is a wonderful early option for your operation, with multiple advanced Downey Mildew Resistance (DMR) genes, lightning-fast dry down, and exceptional stalk and root strength. All without sacrificing yield or oil with this early powerhouse of a hybrid

**MATURITY:** Early

**MARKET:** High Oleic

**TRAIT:** ExpressSun

**DMR:** Yes

- Express herbicide tolerant
- Excellent oil content
- Strong stalks and roots
- Fast dry down
- Advanced downy mildew resistance



## N4H337 E

NEW

N4H337 E is part of Nufarm's ever evolving Express portfolio. This hybrid's outstanding plant health starts off with its resistance to all known downy mildew strains and plant health does not stop. This hybrid has a wonderful disease tolerance package that helps keep it growing strong through the season. Growers can count on high yields with this healthy hybrid.

**MATURITY:** Medium-Early

**MARKET:** High Oleic

**TRAIT:** ExpressSun

**DMR:** Yes

- Express herbicide tolerant
- Strong stalks and root strength
- Advanced downy mildew resistance
- Excellent oil

## N4H302 E

N4H302 E will not disappoint. Best suited for the northern growing regions, this hybrid performs well from east to west. N4H302 E impresses producers all season long with its early season emergence and excellent oleic content at harvest.

**MATURITY:** Medium-Early

**MARKET:** High Oleic

**TRAIT:** ExpressSun

**DMR:** No

- Express herbicide tolerant
- Excellent high oleic content
- Great early season emergence
- Good late season plant health



## N4H422 CL

Top of the rating scale for stalk and root strength, this hybrid has consistently high test weights and uniformly clean stalks. A black seed coat with above average oil content makes the N4H422 CL an ideal hybrid for the bird food or the oil crush market.

**MATURITY:** Medium

**MARKET:** High Oleic

**TRAIT:** Clearfield

**DMR:** Yes

- Beyond Xtra herbicide tolerant
- Strong stalk and roots
- Excellent late season plant health
- Solid test weight

## N4H462 E

NEW

N4H462 E is part of Nufarm's ever evolving Express portfolio, with one of the main highlights of this hybrid being that it is resistant to all known strains of downy mildew. N4H462 E shows a 3.3% increase on oil and has yielded 2.9 % more than P64HE101. N4H462 E also shows improvement over N4H490 E plant health and uniformity.

**MATURITY:** Medium

**MARKET:** High Oleic

**TRAIT:** ExpressSun

**DMR:** Yes

- Express herbicide tolerant
- Great stalk and root strength
- Consistently strong yield and oil content
- Advanced downy mildew resistance

## N4H470 CLP

N4H470 CLP delivers an all around win on the farm. With excellent agronomics including solid stalks and roots, plus the added benefits of downy mildew resistance and improved weed control with the Clearfield Plus production system, growers will achieve solid yields and top-end oil content.

**MATURITY:** Medium

**MARKET:** High Oleic

**TRAIT:** Clearfield Plus

**DMR:** Yes

- Beyond Xtra herbicide tolerant
- Clearfield Plus for improved weed control
- Excellent stalk and root strength, good late season plant health
- Consistently strong yield and oil content

## N4H490 E

N4H490 E is part of Nuseed's expanding Express portfolio. It's also the first of many products coming down the pipeline with advanced downy mildew resistance. This high oleic oilseed is able to compete in the field with its root strength, excellent oil content and yield.

**MATURITY:** Medium

**MARKET:** High Oleic

**TRAIT:** ExpressSun

**DMR:** Yes

- Express herbicide tolerant
- Very competitive in yield across regions
- Excellent test weight and oil content
- Strong stalks and roots
- Advanced downy mildew resistance







The NuSun sunflower oil profile was developed by the U.S. National Sunflower Association, in coordination with the USDA, to create an oil essential for the food industry.

NuSun oil has a naturally high smoke point and does not require trans fat creating hydrogenation to remain stable at high temperatures. It has a good shelf life and neutral taste profile making it an excellent choice for frying oil. A typical fatty acid profile is 65% oleic acid, 26% linoleic acid and 9% combined saturates.

## FALCON

Falcon is a fiercely resilient hybrid. Strong agronomics and the ExpressSun herbicide trait make for a low management season. Easy to grow and even easier to market, Falcon consistently delivers in both yield and oil content, making it a good fit for the NuSun and bird food markets.

**MATURITY:** Medium-Early

**MARKET:** NuSun

**TRAIT:** ExpressSun

**DMR:** No

- Express herbicide tolerant
- Excellent stalk strength
- Consistently good yields
- Medium plant height

## Conoil (Dehull)



The conoil seed type is the most versatile of the sunflower seed types and offers opportunities across multiple markets including kernel, oil, confection and bird food. This seed is generally higher in oil content than confection seeds.

### N5H493 CL

N5H493 CL, Nuseed's first high oleic conoil bred specifically with the dehull market in mind. With excellent standability, fast dry down and Beyond Xtra herbicide tolerance, fields will be clean and standing straight into harvest.

**MATURITY:** Medium

**MARKET:** Dehull

**TRAIT:** Clearfield

**DMR:** No

- Beyond Xtra herbicide tolerant
- Processor preferred for the dehull high oleic market
- Striped seed with excellent hullability
- Shorter plant height with high yield
- Confection planting seed

# Confection



Confection sunflowers are grown to meet the specific needs of processors in the in-shell snack market.

## PANTHER DMR

Panther DMR offers confection growers excellent yield potential and high test weight. Known for its very early maturity and great standability, this processor preferred hybrid with downy mildew resistance is a perfect fit for northern growers.

**MATURITY:** Early

**MARKET:** Confection

**TRAIT:** None

**DMR:** Yes

- Very high percentage of large seed
- High yield and test weight
- Shorter height, uniform plant type
- Very early flowering







## SUNFLOWER MARKETS

While the vibrant, strong sunflower is recognized worldwide for its beauty, it is also an important source of healthy edible oil and protein meal. As one of the world's leading oilseed crops, sunflower oil is a valued and healthy vegetable oil. Sunflower seeds are also enjoyed as a healthy snack and nutritious ingredient to many foods.



### OIL

Approximately 75% of sunflowers grown are utilized for the oil that can be extracted from the seeds. Sunflower oil is naturally made up of a combination of monounsaturated, polyunsaturated, and low levels of saturated fat. Oil sunflowers are generally classified based on their oleic (monounsaturated fat) content. Oil sunflowers that are not used for oil extraction purposes can also be used in producing high quality bird food.

#### Primary categories of commercially available hybrid seeds

**Nusun®:** Oleic levels of 55-75%

**High Oleic:** Oleic levels greater than 82%  
(common minimum crush requirement)



### CONOIL (DEHULL)

The dehull market requires processors to mechanically remove the hull and separate the kernel to be sold as a raw ingredient or roasted for snacking. The shell of conoil type sunflower seeds (a cross between confection and oilseeds) is the easiest to separate.



### CONFECTION

This highly recognizable black and white seed serves as a tasty and healthy snack. Confection sunflower hybrids are planted at a lower population in the field to grow longer more plump seeds. The largest of the seeds get sold to the in-shell market, like what you eat at baseball games, while the smaller seeds are utilized in the dehull market.

# BUILT FOR YOUR FIELDS. EVOLVING WITH YOUR NEEDS.

**The name on the front of this guide may look different, but what's behind it hasn't changed.**

The people, the hybrids, and the commitment to your success remain the same. As Nuseed takes on their parent Nufarm brand, we're combining two strengths under one name – bringing you more connected solutions and a simplified experience, with the same trusted support you've always had.

At Nufarm, evolving agriculture means supporting growers with seed systems that go beyond agronomics. It means delivering hybrids that are built for local performance and backed by decades of global R&D. It means offering contract opportunities that open doors to premium markets. And it means standing behind you with expert agronomic advice, hands-on support, and clear solutions from planting to delivery.

Whether you're growing for performance, rotation, or a specialized end-use market, we're here to help you do it better and with more certainty. Our sunflower and canola hybrids are built to meet the challenges of your region and your goals. And with proprietary innovations like Omega-3 Canola Production System, we're helping shape the future of oilseed crops by connecting growers to high-value, purpose-driven markets.

From top-performing hybrids to fully supported value chains, the Nufarm Seed Technologies Canola and Sunflower portfolio is evolving, just like agriculture itself. And we're proud to be evolving it with you.

**If you have questions at any point in the season, our team is here to help. Please don't hesitate to reach out:**



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