

BIG FLEXIBILITY

BIG

RESULTS



2025

BIG DIVERSITY

Our development of our Sorghum portfolio for Europe demonstrates the increased global demand for this highly versatile product. **Unlock growth. Choose Sorghum.**

28



BIG MARKET

The Confection market continues to be driven by health benefits for consumers and changing trends in food consumption. It has demonstrated excellent profitability for growers – with consistent high yields.

6



BIG

24

FUTURE

Open up BIG opportunities with Carinata. This non-food, low-carbon energy feedstock can be contract grown using sustainable farming practices. You could have a big future with Carinata.

BIG INNOVATION

Grow profits with sunflower oil hybrids. Choose from a wide range of high-calibre linoleic or high oleic oil sunflower hybrids with Ultra-early maturity, mid-early and mid-late maturity and bred with **Clearfield®** or sulfonlurea tolerant systems for easy weed management.

10



32

BIG SERVICE

Whether you're a producer, distributor, processor, or roaster our highly trained local Nuseed® teams are working throughout the region to provide great service and value **BEYOND YIELD™**.



Comparisons 4

Compare each hybrid's outstanding agronomics against product performance in this easy-to-use chart to identify the ideal option for your farm.

Confection hybrids 6-9

Our confection breeding programme has led to the development of high performance hybrids for dehull, in-shell, striped and bird food markets.

Oil hybrids 10-23

We are focused on advances in breeding which offer herbicide tolerance for weed control.

Carinata hybrids 24-27

Pioneering certifiable non-food, low-carbon biofuel contract grown using sustainable farming practices.

Sorghum 28-30

Nuseed's sorghum hybrids are leading in yield, maturity, digestibility, agronomic performance, allowing expansion into new climatic regions.

We are Nuseed® 32-39

Our regional team leverages our rich bank of germplasm to deliver advanced hybrids to customers across Europe.

BIG IMPACT

Choose from a wide range of high performance linoleic and high oleic oil sunflower hybrids with different maturities, multi-stacked traits and with options for both **Clearfield®** and sulfonlurea herbicide tolerance technology.



SU

BIG OPTIONS

Expand your possibilities with value **BEYOND YIELD™**.

We have a wide range of products suitable for all regions of Europe. Compare each hybrid's outstanding agronomics against product performance in this easy-to-use chart to identify the ideal option for your farm.

Confection HYBRIDS

TYPE	NAME	MATURITY	HERBICIDE TECHNOLOGY	PAGE
Onyx®	N5LM307	mid		8
ConOil	X9767	late		9

Oil HIGH OLEIC

TYPE	NAME	MATURITY	HERBICIDE TECHNOLOGY	PAGE
High Oleic	N4HE115 E SU	Ultra-early	SU	12
High Oleic	N4H161 CL	Ultra-early		13
High Oleic	N4H205 E SU	early	SU	14
High Oleic	N4H302 E SU	mid-early	SU	15
High Oleic	NHK12M010	mid		16
High Oleic	N4H469 CL	mid		17
High Oleic	N4H471 CL	mid		18



Oil LINOLEIC

TYPE	NAME	MATURITY	HERBICIDE TECHNOLOGY	PAGE
Linoleic	N4L102 CL	Ultra-early		19
Linoleic	N4L215 E SU	early	SU	20
Linoleic	N4L207 E SU	early	SU	21
Linoleic	N4LM408	mid		22
Linoleic	N4L472 CL	mid		23

Carinata

TYPE	NAME	PAGE
Biofuel	Nujet 350	27

Sorghum

TYPE	NAME	SPROUTING TO BLOOM	YIELD POTENTIAL T/HA	PAGE
Sorghum	319X120 (N2G207)	101-109	10-12 t/ha	30
Sorghum	95-105 (N2G102)	95-105	11-12 t/ha	31

BIG VALUE

The Nuseed® value chain.





BIG MARKETS

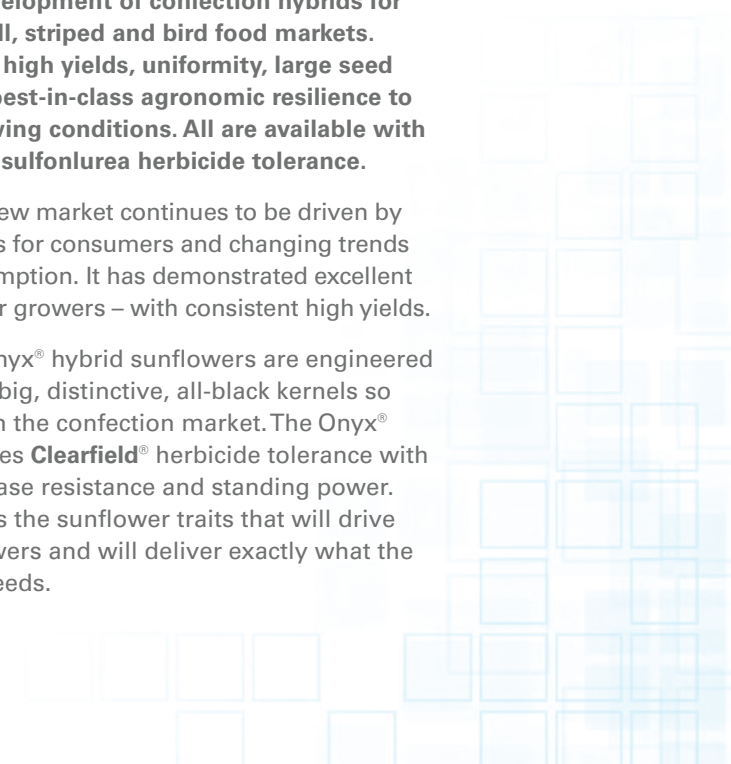


A WORLD LEADER IN CONFECTION SUNFLOWER HYBRIDS

Our ground-breaking breeding programme has led to the development of confection hybrids for dehull, in-shell, striped and bird food markets. These deliver high yields, uniformity, large seed size and the best-in-class agronomic resilience to stressed growing conditions. All are available with Clearfield® or sulfonlurea herbicide tolerance.

This distinct new market continues to be driven by health benefits for consumers and changing trends in food consumption. It has demonstrated excellent profitability for growers – with consistent high yields.

Our unique Onyx® hybrid sunflowers are engineered to deliver the big, distinctive, all-black kernels so sought after in the confection market. The Onyx® range combines Clearfield® herbicide tolerance with excellent disease resistance and standing power. Onyx® delivers the sunflower traits that will drive profit for growers and will deliver exactly what the end market needs.



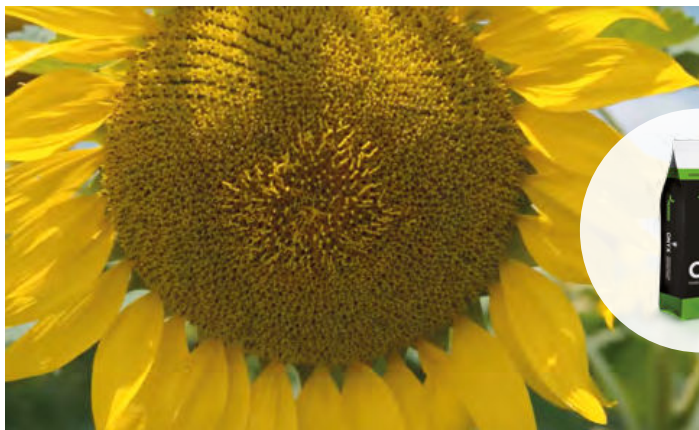
CONFECTION – ONYX® N5LM307

Top-class hybrid for multiple regions.

Onyx® N5LM307's late-season health and standability make it a great choice for in-shell and dehull markets. This high-yielding, multi-purpose hybrid gives growers, in key sunflower production regions, flexibility due to its uniformity and mid-late maturity. High level of resistance to downy mildew provides additional protection.

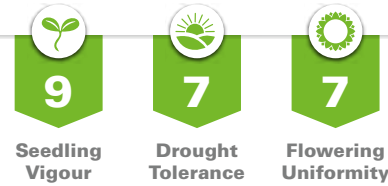
KEY FEATURES

- Mid maturity, black confection type.
- Suitable for in-shell usage and dehull.
- Excellent kernel to hull ratio.
- Resistant to multiple races of downy mildew.

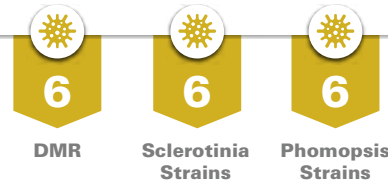


BIG YIELDS

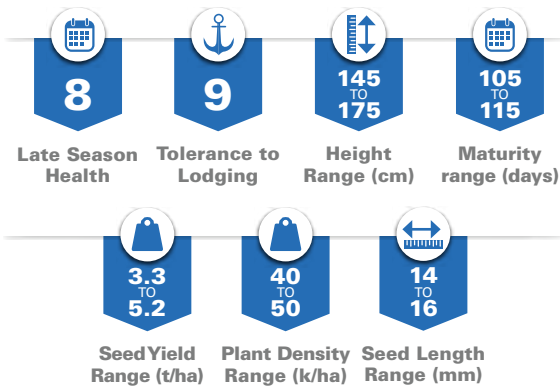
PERFORMANCE POTENTIAL



DISEASE RESISTANCE



AGRONOMICS & PLANT HEIGHT



Hybrid Rating Scale // 1 = Poor, 9 = Excellent

CONFECTION – CONOIL X9767

Loved by processors.

This high-yielding, striped hybrid is ideal for dehulling as well as for bird food. X9767's good kernel to hull ratios and high test weights are highly valued by processors. This hybrid provides excellent protection against downy mildew supporting growers in high risk areas.

KEY FEATURES

- Late maturity, conoil type.
- Excellent kernel to hull ratio.
- Striped seed developed for dehulling.
- Resistant to multiple races of downy mildew.

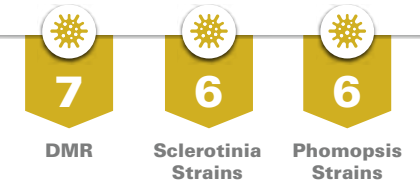


BIG VALUE

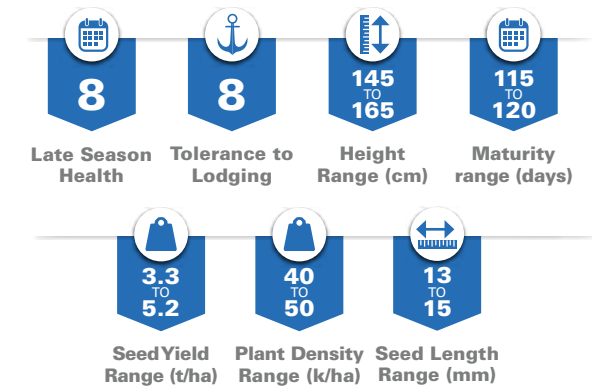
PERFORMANCE POTENTIAL



DISEASE RESISTANCE



AGRONOMICS & PLANT HEIGHT



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BIG RETURNS



OIL HYBRIDS DEVELOPED FOR AGRONOMIC RESILIENCE IN CHALLENGING GROWING CONDITIONS

The elite genetics in our progressive range of hybrid sunflower seeds will deliver unparalleled results to meet the specific needs of your region.

We are focused on advances in breeding which offer herbicide tolerance for weed control, orobanche and downy mildew resistance and exceptional agronomics. These combine to provide growers with higher returns from lower inputs.

Choose from a wide range of high-calibre linoleic or high oleic oil sunflower hybrids with Ultra-early maturity, mid-early and mid-late maturity and bred with **Clearfield®** or sulfonlurea systems for easy weed management.

OIL - HIGH OLEIC N4HE115 E *SU*



Next generation, ultra-early hybrid.

N4HE115 E SU matures around two weeks earlier than traditional hybrids providing growers with the option of an early harvest, late sowing or single crop. This high oleic hybrid is resistant to sulfonlurea herbicides and has improved protection against sclerotinia.

KEY FEATURES

- Ultra-early maturity high oleic type.
- Excellent late season plant health.
- Best for late plant or as a double crop option.
- Under best agricultural practices, high oleic levels can reach up to 87%.

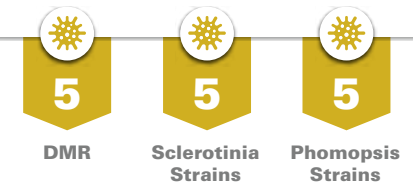


BIG PROTECTION

PERFORMANCE POTENTIAL

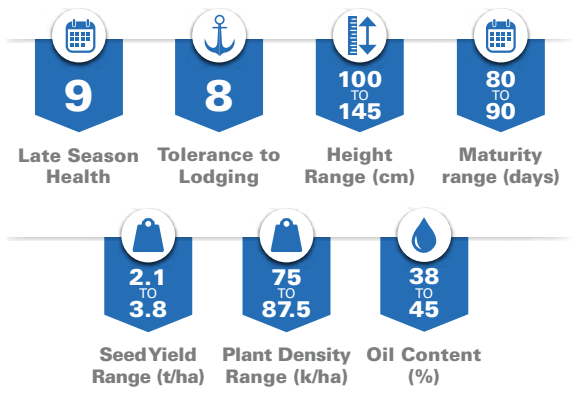


DISEASE RESISTANCE



SU

AGRONOMICS & PLANT HEIGHT



Hybrid Rating Scale // 1 = Poor, 9 = Excellent

OIL - HIGH OLEIC N4H161 CL



Advanced hybrid which matures early.

This ultra-early, high oleic hybrid provides up to 90% high oleic levels and matures around two weeks earlier than traditional hybrids giving growers the option of an early harvest, a late planting or a double-crop.

KEY FEATURES

- Ultra-early maturity.
- Excellent late season plant health.
- Resistant to multiple races of downy mildew.
- Under best agricultural practices, high oleic levels can reach up to 90%.

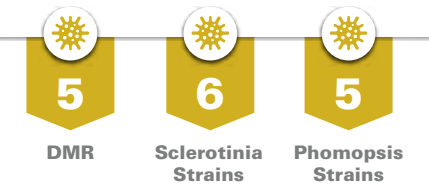


BIG OPTIONS

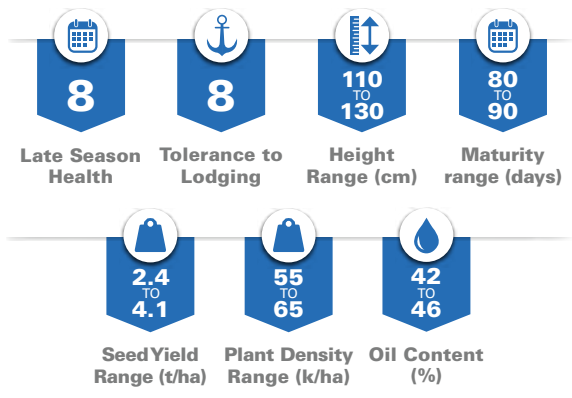
PERFORMANCE POTENTIAL



DISEASE RESISTANCE



AGRONOMICS & PLANT HEIGHT



Hybrid Rating Scale // 1 = Poor, 9 = Excellent

OIL - HIGH OLEIC N4H205 E *SU*

Early harvest provides flexibility to the grower.

N4H205 E SU is a sulfonlurea resistant, early, high oleic hybrid. A great fit for every short season with excellent disease resistance including protection against multiple races of downy mildew. N4H205 E SU is a hybrid you can rely on.

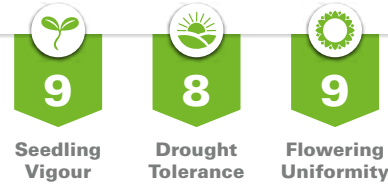
KEY FEATURES

- Advanced genetic resistance to orobanche.
- Advanced resistance to the multiple races of downy mildew.
- Highly reliable and stress-free to grow.
- Advanced traits to support the grower.

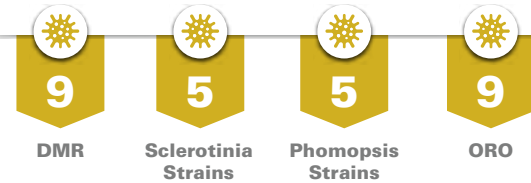


**BIG
PRODUCTIVITY**

PERFORMANCE POTENTIAL

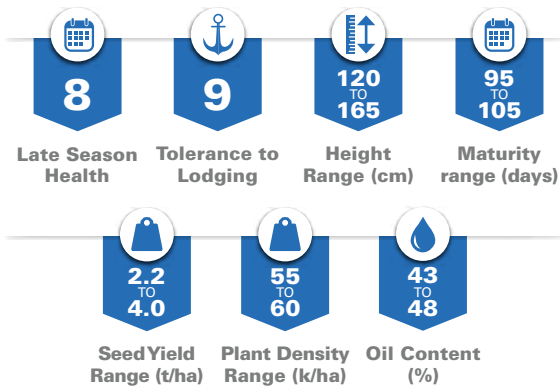


DISEASE RESISTANCE



SU

AGRONOMICS & PLANT HEIGHT



Hybrid Rating Scale // 1 = Poor, 9 = Excellent

OIL - HIGH OLEIC N4H302 E *SU*

High performance all rounder.

With its elevated high oleic profile, N4H302 E SU is already proving to be a firm favourite hybrid with growers. Its early season emergence and late season good health, combined with optimal head positioning against sunburn, ensures this hybrid always delivers. N4H302 E SU is a sulfonlurea tolerancehigh oleic hybrid bred to be adaptable across all sunflower regions.

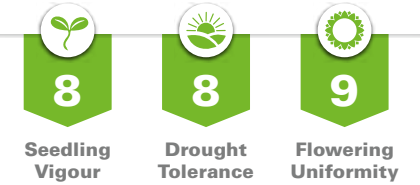
KEY FEATURES

- Mid-maturity, high oleic type.
- Very good head positioning against sunburn.
- Strong stalk and good plant habit.
- Good late season plant health.

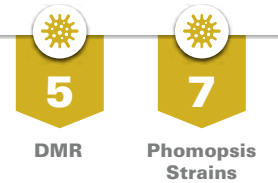


**BIG
FAVOURITE**

PERFORMANCE POTENTIAL

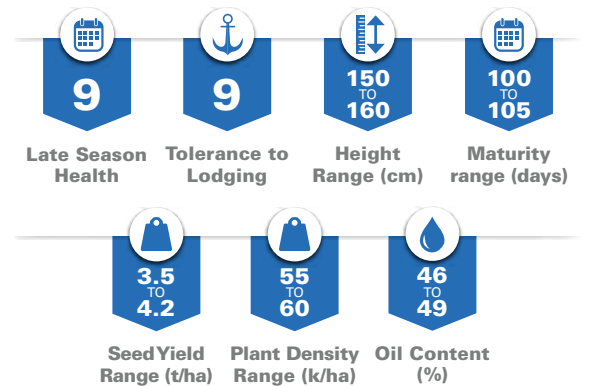


DISEASE RESISTANCE



SU

AGRONOMICS & PLANT HEIGHT



Hybrid Rating Scale // 1 = Poor, 9 = Excellent

OIL - HIGH OLEIC NHK12M010

Proven to deliver.

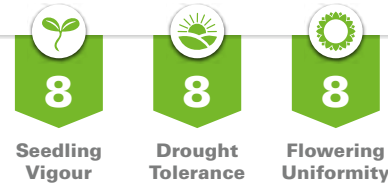
NHK12M010 provides 'best in class' grain yield with good late season plant health. This high performance, high oleic sunflower hybrid delivers both good oil content and top-line high oleic values. It is resistant to multiple races of downy mildew.

KEY FEATURES

- Mid-maturity, high oleic type.
- Outstanding yield potential and late season plant health.
- Resistant to multiple races of downy mildew.
- Under best agricultural practices, high oleic levels can reach up to 90%.



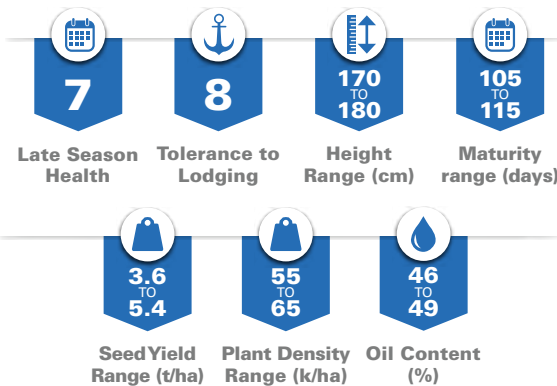
PERFORMANCE POTENTIAL



DISEASE RESISTANCE



AGRONOMICS & PLANT HEIGHT



Hybrid Rating Scale // 1 = Poor, 9 = Excellent

OIL - HIGH OLEIC N4H469 CL

Top choice of weed-infested sites.

N4H469 CL has exceptional agronomics with both genetic resistance to race H of orobanche and Clearfield® tolerance technology. This uniform, high oleic hybrid provides strong yields and top quality oil.

KEY FEATURES

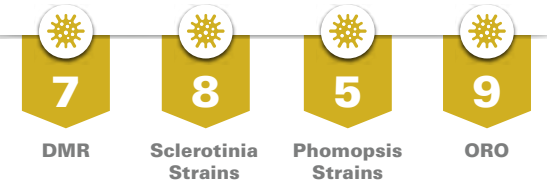
- Mid-maturity, high oleic type.
- Bred to have genetic resistance to race H of orobanche.
- Resistant to multiple races of downy mildew.
- Good tolerance for sclerotinia.



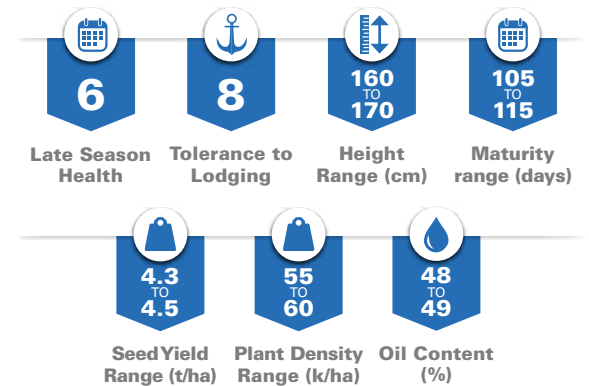
PERFORMANCE POTENTIAL



DISEASE RESISTANCE



AGRONOMICS & PLANT HEIGHT



Hybrid Rating Scale // 1 = Poor, 9 = Excellent

OIL - HIGH OLEIC N4H471 CL

Excellent agronomics.

The high oleic levels of this mid-late hybrid can reach up to 90%, under best agricultural practices. N4H471 CL is bred with **Clearfield**® tolerance technology and with genetic resistance to race H of orobanche.

KEY FEATURES

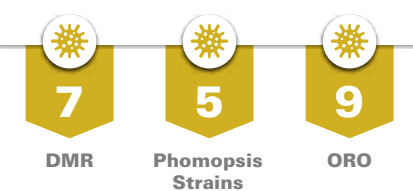
- Mid-maturity, high oleic type.
- Bred to have genetic resistance to race H of orobanche.
- Resistant to multiple races of downy mildew.
- Under best agricultural practices, high oleic levels can reach up to 90%.



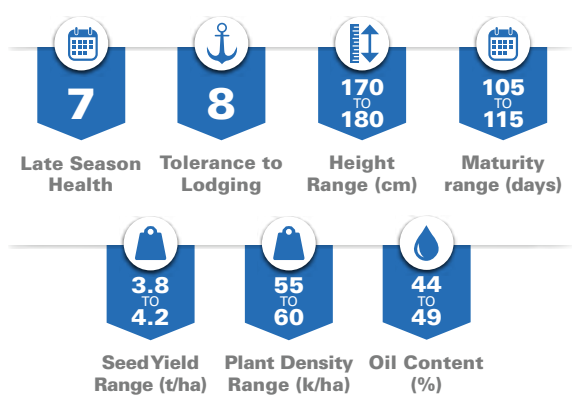
PERFORMANCE POTENTIAL



DISEASE RESISTANCE



AGRONOMICS & PLANT HEIGHT



Hybrid Rating Scale // 1 = Poor, 9 = Excellent

OIL - LINOLEIC N4L102 CL



Ultra-early hybrid.

This ultra-early, linoleic hybrid matures around two weeks earlier than traditional hybrids giving growers the option of an early harvest, a late planting or a double-crop with the resistance of orobanche.

KEY FEATURES

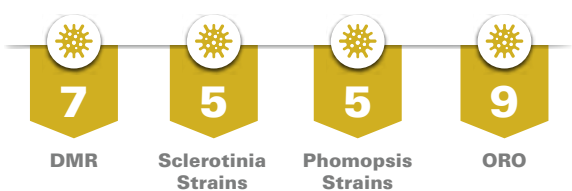
- Ultra-early maturity.
- Resistant to multiple races of downy mildew.
- Early flowering and harvest option.
- Bred to have genetic resistance to race H of orobanche.



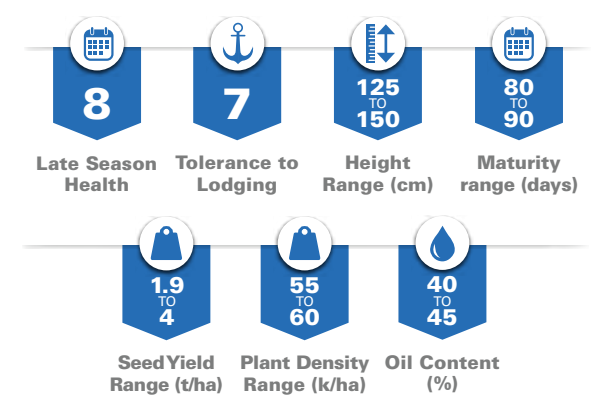
PERFORMANCE POTENTIAL



DISEASE RESISTANCE



AGRONOMICS & PLANT HEIGHT



Hybrid Rating Scale // 1 = Poor, 9 = Excellent

OIL - LINOLEIC N4L215 E SU



High performance and early harvest.

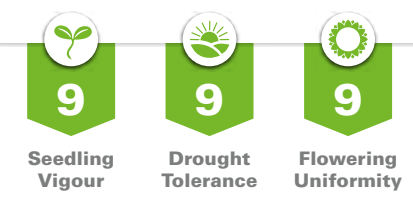
N4L215 E SU is our new linoleic hybrid that performs well across the regions. Its early harvest gives the grower the option of more time to prepare for the winter crop and to avoid drought conditions, or later planting. With excellent downy mildew disease resistance and sulfonlurea herbicide tolerance, N4L215 E SU is a hybrid you can rely on to provide high yields with low inputs.

KEY FEATURES

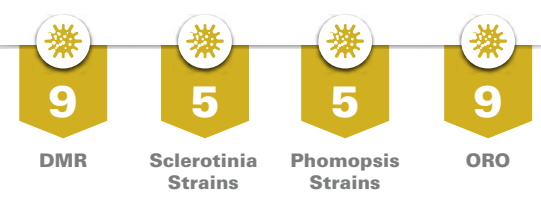
- Advanced resistance to the multiple races of downy mildew.
- Advanced genetic resistance to orobanche.
- Highly reliable and stress-free to grow.
- Advanced traits to support the grower.



PERFORMANCE POTENTIAL

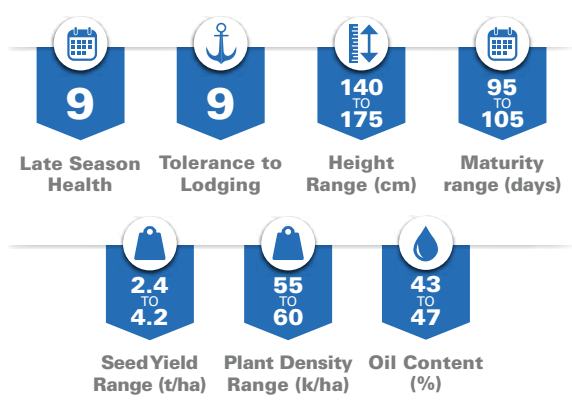


DISEASE RESISTANCE



SU

AGRONOMICS & PLANT HEIGHT



Hybrid Rating Scale // 1 = Poor, 9 = Excellent

OIL - LINOLEIC N4L207 E SU



High yields at low inputs.

The early maturity of N4L207 E SU offers growers greater flexibility. This new linoleic hybrid thrives in all regions. With strong resistance to downy mildew and tolerance to sulfonlurea herbicides, N4L207 E SU is a reliable choice for achieving high yields with minimal inputs.

KEY FEATURES

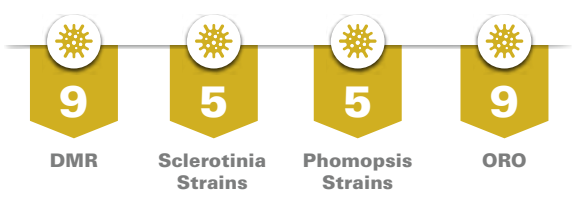
- Advanced genetic resistance to orobanche.
- Advanced resistance to multiple types of downy mildew.
- Highly reliable and stress-free to grow.
- Advanced traits to support the grower.



PERFORMANCE POTENTIAL

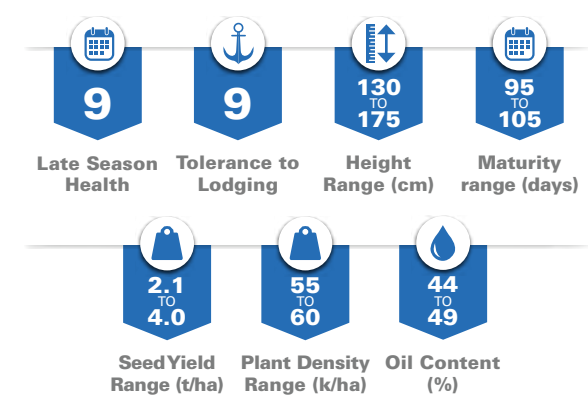


DISEASE RESISTANCE



SU

AGRONOMICS & PLANT HEIGHT



Hybrid Rating Scale // 1 = Poor, 9 = Excellent

OIL - LINOLEIC N4LM408

Stands up to weeds and diseases.

N4LM408 is bred with the **Clearfield®** tolerant production system and resistance to multiple races of downy mildew to combat weeds and sunflower diseases. This mid-maturity, robust, high-yielding hybrid delivers high oil content even in fields overrun with weeds.

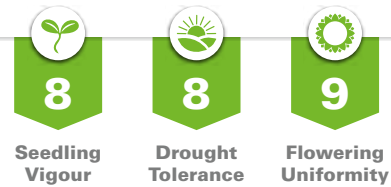
KEY FEATURES

- Mid-maturity, linoleic type.
- High-yielding with strong plant feature.
- Resistant to multiple races of downy mildew.



BIG TOLERANCE

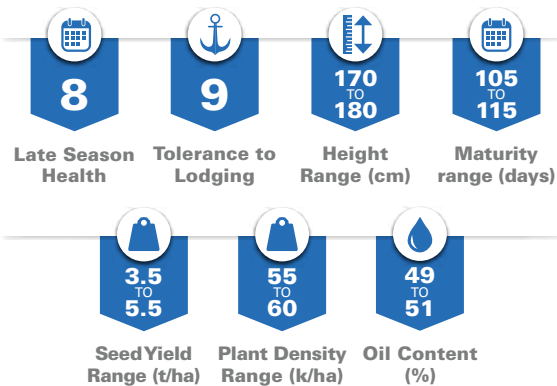
PERFORMANCE POTENTIAL



DISEASE RESISTANCE



AGRONOMICS & PLANT HEIGHT



Hybrid Rating Scale // 1 = Poor, 9 = Excellent

OIL - LINOLEIC N4L472 CL

High genetic resistance

This high performance, mid-maturity linoleic oil hybrid will deliver a high yield every season. Its high resistance to both orobanche race H and multiple races of downy mildew makes it simple to grow.

KEY FEATURES

- Mid-maturity.
- Bred to have genetic resistance to race H of orobanche.
- Resistant to multiple races of downy mildew.

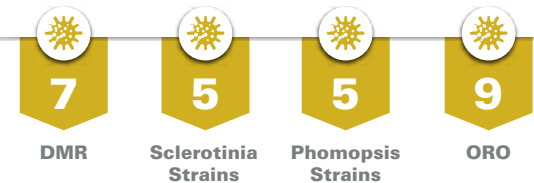


BIG YIELDS

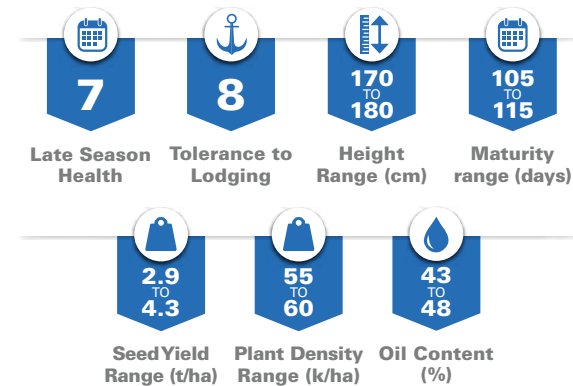
PERFORMANCE POTENTIAL



DISEASE RESISTANCE



AGRONOMICS & PLANT HEIGHT



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BIG FUTURE

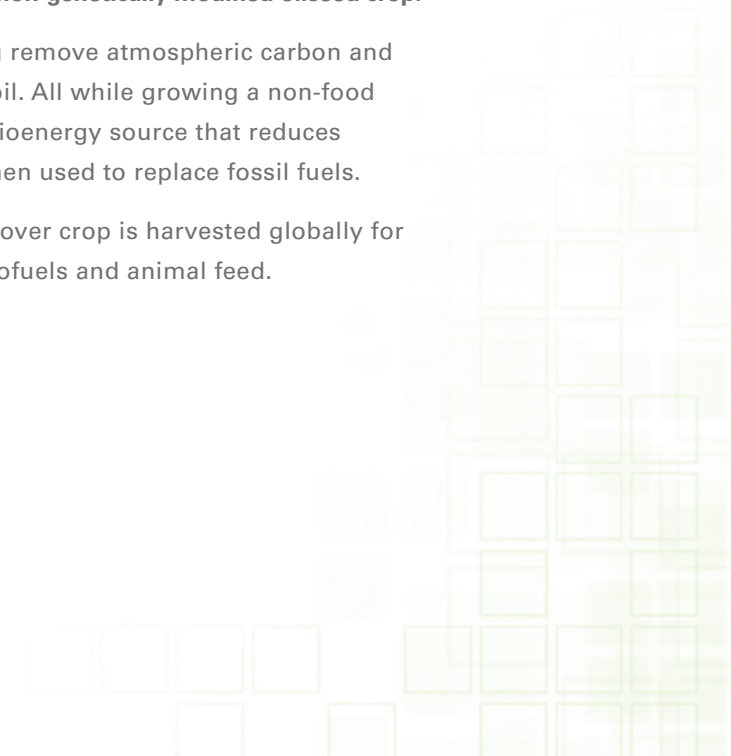


SO MUCH FROM SO LITTLE

Nuseed® Carinata also known as Brassica Carinata, is a sustainable non-genetically modified oilseed crop.

We're helping remove atmospheric carbon and regenerate soil. All while growing a non-food sustainable bioenergy source that reduces emissions when used to replace fossil fuels.

This unique cover crop is harvested globally for alternative biofuels and animal feed.



THE COVER CROP WHICH JUST MAKES SENSE

Driving the advancement of certifiable non-food, low-carbon energy feedstock, Nuseed® Carinata offers a sustainable alternative to fossil fuels. The oil extracted from Carinata significantly reduces emissions when used as a drop-in fuel replacement. While growing, it helps prevent soil erosion and carbon loss, with its extensive biomass both above and below ground capturing carbon from the

atmosphere and returning it to the soil, enhancing conditions for future food crops.

Additionally, its non-GM meal co-product is a traceable, certifiable source of protein. The Nuseed® Carinata production system adds value throughout its closed-loop supply chain, ensuring quality, efficiency, and identity preservation from field to fuel.

MANAGEMENT RECOMMENDATIONS

- Sowing dates:** Spring April-May – Winter October-November.
- Soil:** Well-drained, sow at 1-2 cm depth.
- Herbicides:** Intolerant to ALS and some PPOs
- Field selection:** Avoid seedbeds with heavy stubble or residue. Avoid plots with high cruciferous presence.
- Prior crop:** Avoid brassicas in the last 2 years.
- Sowing density:** 4 kg/ha (60 plants/m² at harvest).
- Low density:** Thick stems may complicate harvest.
- High density:** Risk of lodging –focus on good sowing distribution over density.
- Row Spacing:** 30-50 cm, ideally 40 cm for better weed control.
- Harvest:** Direct harvest recommended; Carinata is pod shatter-resistant. Wait for seed color to change from green to light tan or reddish before harvesting.

SEED AGRONOMICS

- Frost behaviour:** Recovers well from early frosts, critical stages are cotyledons/seedlings (early frosts) and early seed development (late frosts).
- Stubble Management:** Cultivate to avoid excess residues; manage planting times to avoid frost during bloom.
- Fertilization:** Nitrogen: 60 units/ha (soil test required before planting).
- Sulfur:** 15-25 units recommended to boost oil content.
- Phosphorus:** 20 units at planting in the seed row.
- Potassium:** No need if soil test shows 300 units; otherwise, apply 25-30 units/ha.
- Biostimulants & Organic Fertilizers:** Allowed with prior content analysis and certification.

CARINATA NUJET 350

High performance and easy to cultivate.

NUJET 350 has between 42-45% high-quality inedible oil in winter environments, making it an excellent alternative for the production of second-generation biofuels. It is a certified and sustainable crop that is ideal for rotations, providing the farmer with one more alternative for the diversification of crops.

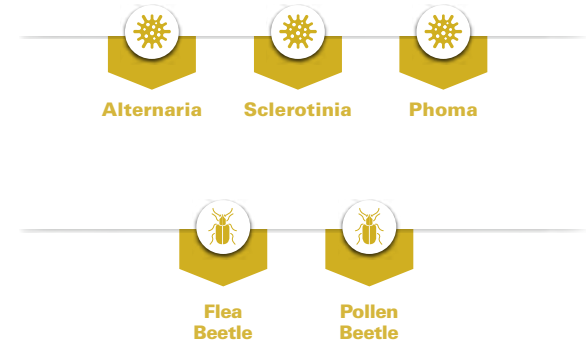
KEY FEATURES

- Cover crop with a tap root.
- Inedible oil, second generation biofuels.
- Main use: jet fuel and protein meal for animal feed.
- Non GMO.

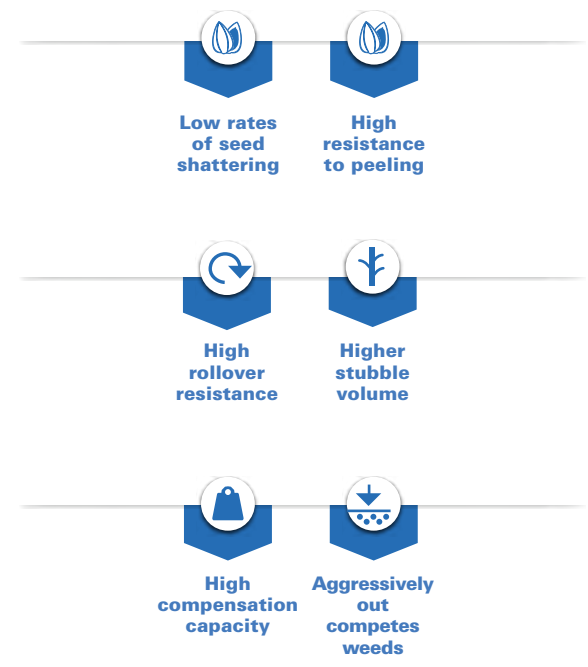


BIG FLEXIBILITY

HIGH RESISTANCE



SEED CHARACTERISTICS



BIG DIVERSITY



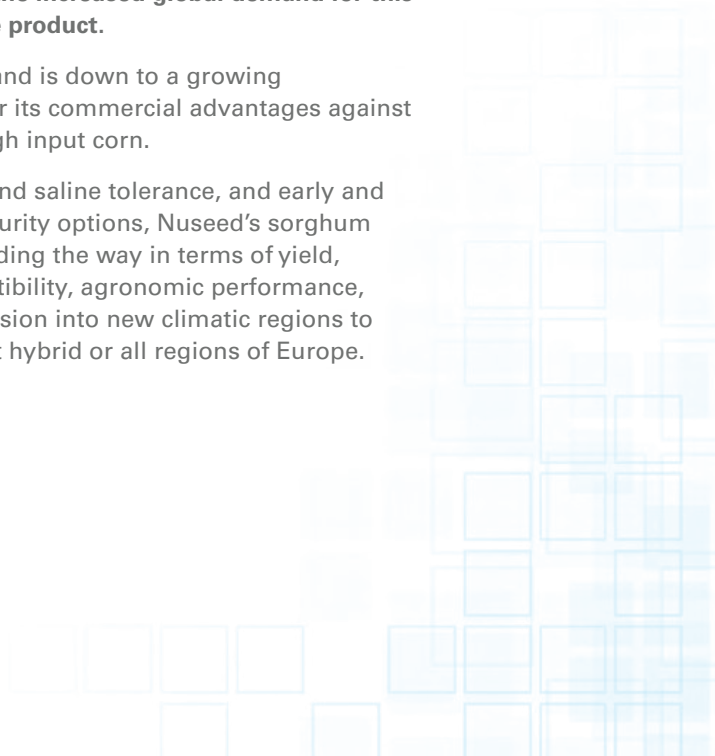
nuseed®

**DIVERSIFY YOUR BUSINESS.
CHOOSE SORGHUM.**

Our introduction of sorghum to Europe demonstrates the increased global demand for this highly versatile product.

This high demand is down to a growing appreciation for its commercial advantages against high priced, high input corn.

With drought and saline tolerance, and early and Ultra-early maturity options, Nuseed's sorghum hybrids are leading the way in terms of yield, maturity, digestibility, agronomic performance, allowing expansion into new climatic regions to deliver the best hybrid or all regions of Europe.



SORGHUM 319X120 (N2G207)

Stable and high yielding, even in poor soils.

This red grain sorghum hybrid is easy to cultivate with good resistance to lodging. 319X120 (N2G207) does not contain tannins making it a favourite with processors.

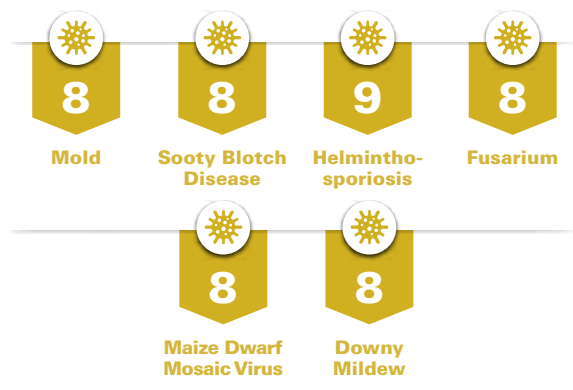
KEY FEATURES

- Mid-early.
- High-yielding.
- Tolerant to infertile soils and alkali soil.

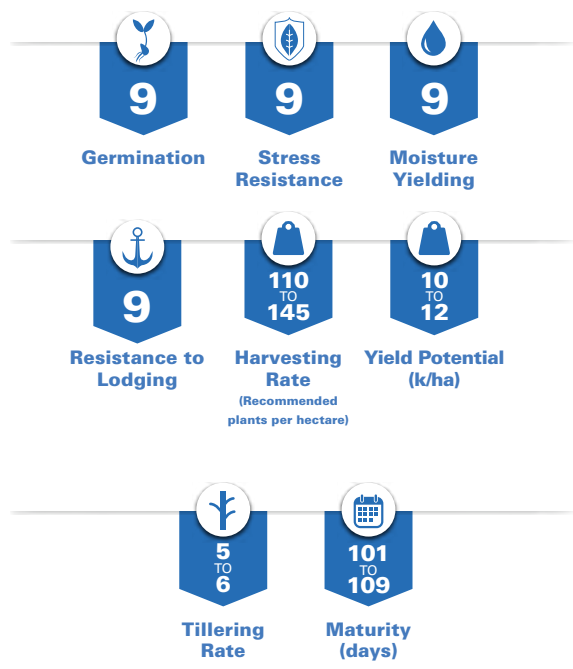


BIG BENEFITS

DISEASE RESISTANCE



AGRONOMICS & CROP FEATURES



Hybrid Rating Scale // 1 = Poor, 9 = Excellent

SORGHUM 419X124 (N2G102)

High performance and easy to cultivate.

This high yielding hybrid is resistant to diseases and straightforward to grow with the potential for early harvesting. 419X124 (N2G102) is a red grain sorghum hybrid with no tannins.

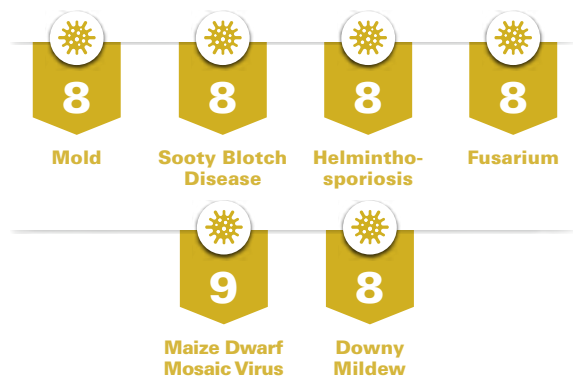
KEY FEATURES

- Early.
- Stable and stress resistant.
- Intensive.
- Good for early harvesting programs.
- Tolerant to low-fertile and alkali soils.

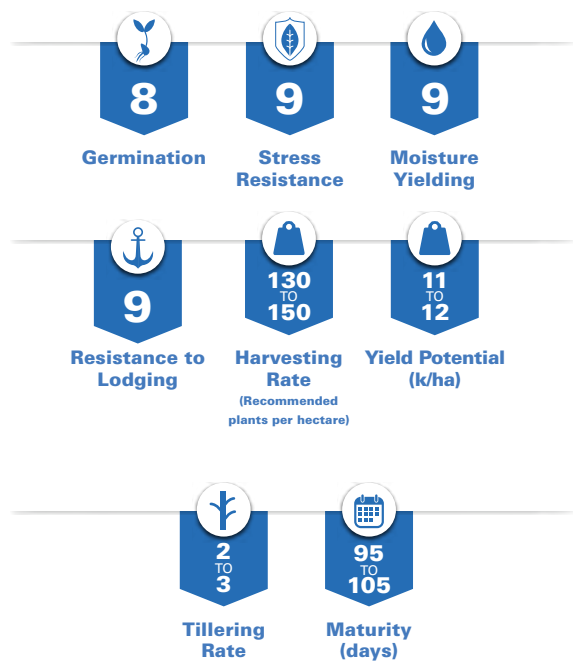


BIG RESILIENCE

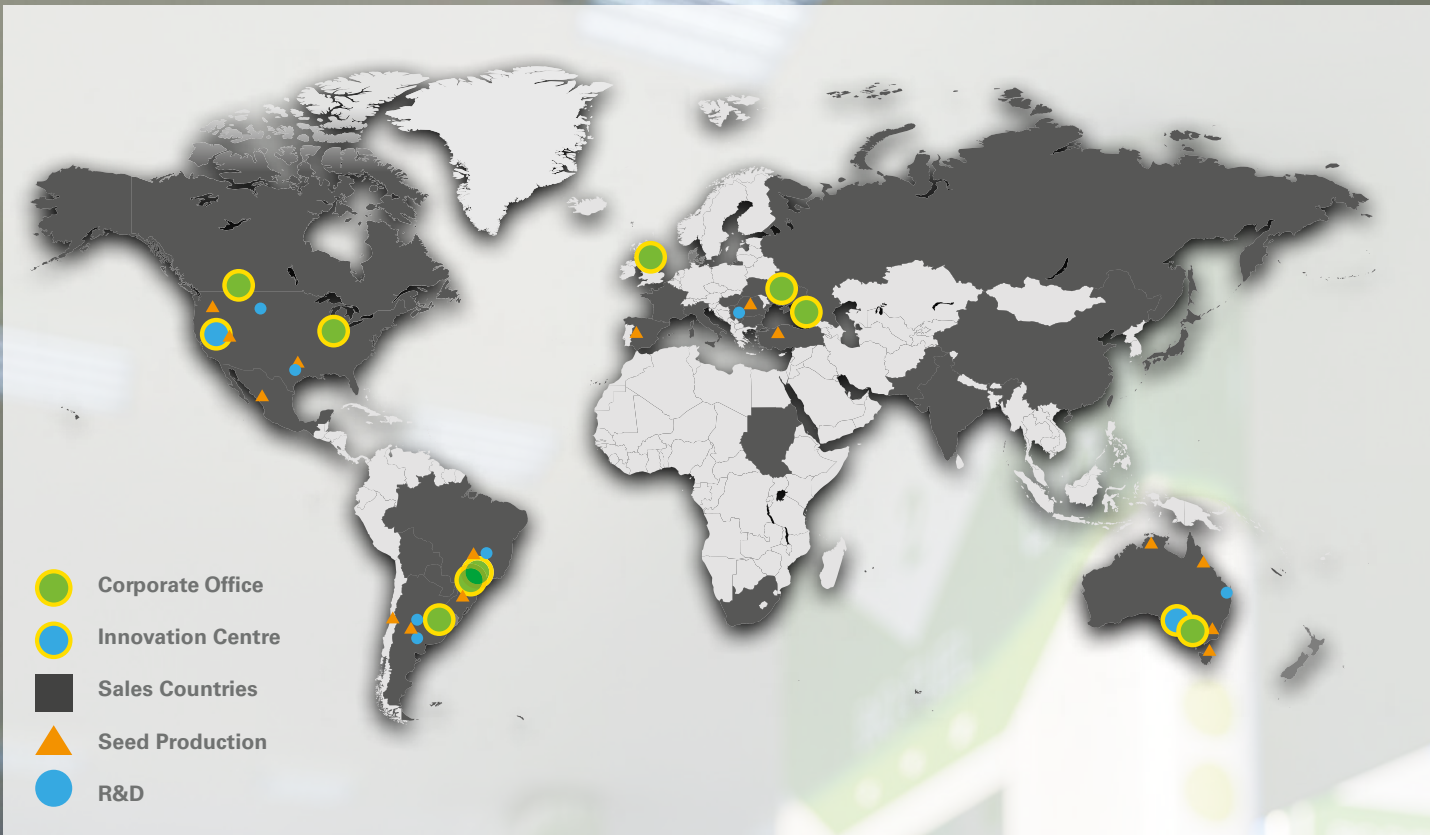
DISEASE RESISTANCE



AGRONOMICS & CROP FEATURES



Hybrid Rating Scale // 1 = Poor, 9 = Excellent



BIG REACH



UNLOCKING PLANT POTENTIAL

Nuseed® is advancing canola, carinata, sorghum and sunflower by adding value BEYOND YIELD™ for growers, end-use customers, consumers and our planet.

We work across 40 countries with regional headquarters and advanced trials in Australia, Europe, North America and South America. Our BEYOND YIELD™ commitment and development of output traits produce novel oils and proteins with specific consumer benefits for added value and completely new end-use markets. Worldwide, across every region and every business, our teams are working to provide value BEYOND YIELD™ in everything we do.

Nuseed® Europe Ltd Head Office

No.1 Spinningfields
Quay Street
Manchester UK
M3 3JE



BIG ADVANCES



UNCOVERING WAYS TO DELIVER AGRONOMIC AND CONSUMER BENEFITS THROUGH INNOVATION

Our aim is to supply our customers with new opportunities to produce sustainable plant-based solutions, with specific consumer benefits, for Nuseed® end-use customers.

Developed in our R&D centre in Sacramento, California, Nuseed's pioneering breeding, global germplasm and advanced new hybrids- combined with local field trials and partnerships across the supply chain – ensures our products will help customers reach their potential across sunflower oil, dehull, confection, carinata and sorghum markets.

Nuseed® innovation in numbers

- 4** We undertake extensive fields trials across four continents, in Asia, North and South America and Europe.
- 4** We have four sunflower research stations in Serbia, California, Minnesota and Argentina.
- 100** 100s of Nuseed® experts are involved in bringing a hybrid to market.
- 5** Nuseed® genetics comes from five different countries to give Nuseed® an array of plant input traits to work with.
- 10** It takes up to ten years to develop a new hybrid.

Working closely with the global breeding programme at our R&D centre, our regional team leverages our rich bank of germplasm to deliver advanced hybrids to customers across Europe.

Our highly trained local Nuseed® team is working throughout the region with select local distributors and is dedicated to delivering outstanding service and value BEYOND YIELD™, whether you're a grower, distributor, processor or roaster.

This makes Nuseed® a partner of choice.



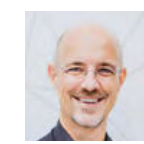
BIG SERVICE



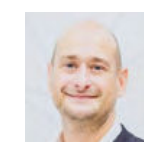
MEET THE TEAM OF PROFESSIONALS READY TO SUPPORT YOUR BUSINESS



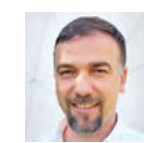
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BIG SUPPORT



GET THE PRODUCTS AND SUPPORT YOU NEED WITH OUR EXPERIENCED DISTRIBUTOR PARTNERS

Nuseed® distributors are carefully selected. We work with them to deliver the support and guidance you need to maximise yields and profits.

Their extensive knowledge of the Nuseed® hybrid range and the agronomical advice they provide means they can assist you to identify the perfect hybrid for your farm and growing conditions, evaluating the price of seed against other farming inputs.



Find a local distributor

Talk to your local Nuseed® distributor about the wide-ranging benefits of using Nuseed® products.



Virtual Field Tours

Visit our Virtual FieldTour without leaving your home! Discover, Learn, and Connect

see more online at nuseed.com/eu/



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Always follow product label instructions and consult the seed bag and tag for detailed product information and warranty statements.