

Variety Guide 2021 - 22

Innovation for your growth



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your growth

www.dsv-uk.co.uk



Established nearly 100 years ago, DSV is a specialist plant breeding company focused on the development and sales of market leading agricultural and amenity crops.

Based in Germany with subsidiaries across Europe, the company is increasingly an international player with DSV seed growing in popularity across the world.

Employing over 600 people globally, the company currently produces more than 51,000 tonnes of seed annually.



DSV Headquarters Lippstadt, Germany

DSV UK breeding centre, Waddington

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DSV UK

DSV has been established in the UK for over 40 years with an exemplary track record of providing the best seed for many popular agricultural crops including oilseed rape, grasses, winter wheat, barley, maize, cover crops, lupins and linseed.

DSV UK operates from its breeding and trials centre at Waddington in Oxfordshire comprising of around 50ha of land used to breed winter wheat and forages and for National List trials of wheat and grass.

DSV has achieved several exciting firsts within the cereals sector in recent years.

For example, British-bred THEODORE has the distinction of being the UK's cleanest wheat variety. A group four variety, THEODORE has an 8.3 score for septoria resistance, a 9 for yellow rust and a 7 for brown rust.

We've also just launched our candidate list-topping hard feed winter wheat variety CHAMPION which is expected to become one of the most sought after varieties in the market place next year.

On the barley front, DSV has also introduced a new 6 row variety SENSATION with protection against both Barley Yellow Dwarf Virus (BYDV) and Barley Yellow Mosaic Virus (BYMV) type 1 and type 2. This protection is increasingly important as seed treatments have no influence on these types of infections.

Our oilseed rape varieties are highly regarded with their signature high gross outputs combined with low growing costs alongside important agronomic features such as protection from TuYV and RLM7+ phoma stem canker.

We've also pioneered the concept of layered traits in oilseed rape to give customers maximum disease resistance and yield protection features, and this year DSV launches its first Quad Layer varieties in the shape of MATRIX CL and CROSSFIT CR. Look out for our new HarvestMax and N-Efficiency features too.

As well as high yielding maize varieties such as LiROYAL and a full range of grass and forage options, DSV also offers cover crop varieties as straight for the UK.

Cereals

Lupins

Oilseed Rape

Grass and Legumes

Maize

Cereals

The cereals breeding programme at DSV is designed to produce varieties for all market segments. With a number of scientific tools at DSV's disposal, the company is able to select lines which combine high quality with a good disease resistance package without sacrificing yield. Our wheat programme is based in the UK whilst our barley programme is run from our breeding station in Germany.

DSV Winter Wheat Breeding

DSV UK prides itself in attention to detail with each breeding line receiving a tailored analysis package and trial network. Our conventional breeding programme allows potential varieties to be adjusted by selection of the best-performing sub-lines and we have a state-of-the-art molecular laboratory. Our laboratory carries out analyses of our breeding lines for trait-related markers such as disease resistance, bread-making potential and yield components. In addition, disease observation nurseries are positioned around the UK and abroad to capture any susceptibility to major diseases such as Septoria tritici and the rusts. DSV UK has a unique location away from the other wheat breeding companies and as such produces some of the best Septoria tritici resistance on offer.

Our replicated yield trials are situated throughout the UK as well as in neighbouring countries to give a strong indicator of yield potential on-farm across different soil-types and management practices.

When it comes to bread-making quality, DSV UK invests a lot of time evaluating the performance potential of grain and flour. Rheological tests are run to allow predictions to be made on the end-use of a breeding line and those destined for the bakery are test-baked.

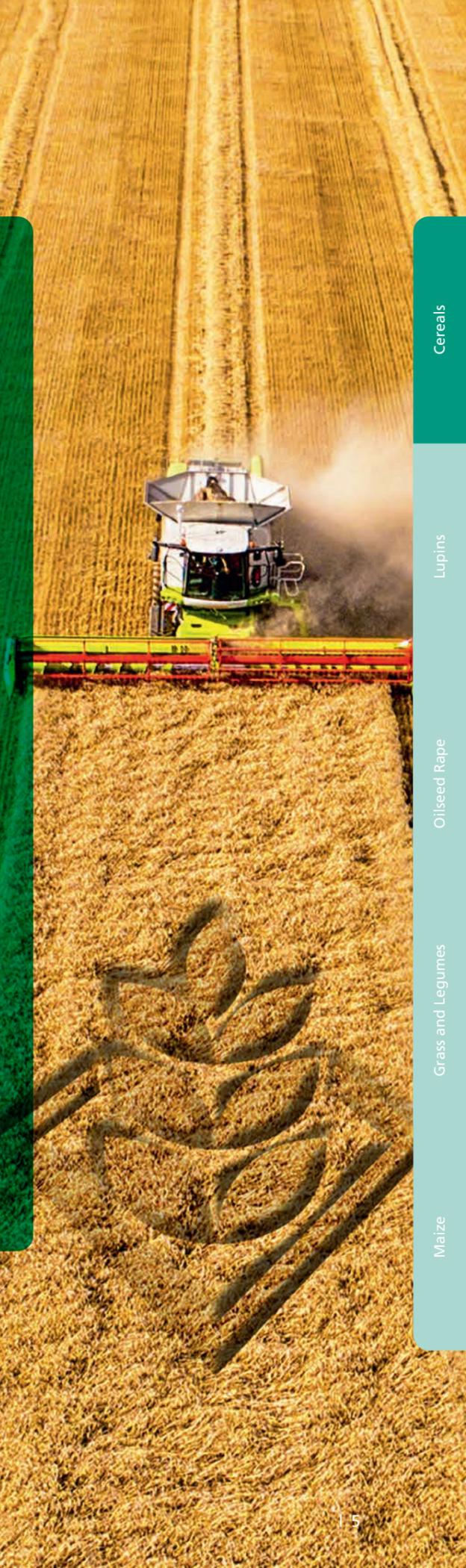
The end-result of all this field and laboratory testing is a growing portfolio of unique winter wheat varieties for the British grower.

DSV Winter Barley Breeding

Our winter barley programme has been successfully developing varieties for Europe over a number of years. The screening nursery for diseases such as the rusts, rhynchosporium and net blotch is vast and includes a wide genetic base to allow novel sources of resistance to be identified. The barley is also rigorously tested in our virus nurseries. Once a breeding line has passed these selections, the line is targeted towards a specific end-use and is put into the yield trial network, including the UK. Our breeding programme is now seeing potential in the UK market with the introduction of our first winter barley.

DSV UK is a forward-thinking company and as such takes part in many research projects. Some of these are in collaboration with academic research centres and other cereal breeders, whilst others are in-house projects. As new problems arise, new traits are developed along with diagnostic markers. The breeding team are continually screening novel as well as heritage material for new genetics and traits, which might be useful in modern elite varieties.

Dr. Matt Kerton, UK Cereal Breeder



SENSATION

NEW!

Winter Barley



Type: 6 row, Conventional
Status: National Listed

SENSATION is the first DSV 6 row winter barley variety to be launched in the UK. It contains two very important traits – Barley Yellow Dwarf Virus (BYDV) and Barley Yellow Mosaic Virus (BaYMV) Type 1 and Type 2 protection. This protection is important since seed treatments have no effect on these types of infection.

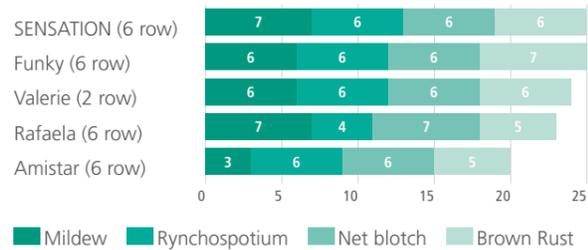
SENSATION is a high yielding variety with good straw strength and high specific weight. It has performed well in both treated and untreated trials – with and without BYDV virus pressure. It is very early to head and to ripen and is listed as one of the earliest heading varieties in France. Its speed of growth in the spring could make it particularly strong in black-grass situations where it quickly outgrows the weed.

Yield	104%
Untreated Yield	93%
Lodging	7
Height Untreated	104cm
Maturity	-3
Mildew	6
Yellow rust	8
Brown rust	8
Rhynchosporium	6
Net blotch	5
Specific weight	68.6kg/hl

Data Source:
DSV UK interpretation of internal trials and Common Catalogue

Disease Scores

SENSATION has been vigorously tested in many European countries including the UK. In recent DSV and independent trials, SENSATION has performed very well especially in untreated trials. It shows disease improvement compared to other varieties on the market, which carry the same traits.



Source: ARVALIS, 20 May 2021 (official scoring France).

“SENSATION offers a superior disease protection package when compared with other barleys on the market that also offer the BaYMV protection trait.”

Clive Tuffin, Pearce Seeds



BYDV and BaYMV Protection

BYDV is spread by two major aphids – the bird cherry oat aphid (*Rhopalosiphum padi*) and the grain aphid (*Sitobion avenae*). The former is easy to control using pyrethroid sprays but pyrethroid resistance has been confirmed in UK grain aphids by Rothamsted.

Varietal tolerance is especially valuable in winter barleys as the only cultural control method for BYDV is delaying drilling until the cold weather starts to kill the aphid population. This may be an option in winter wheat but drilling winter barley at this time can be extremely detrimental to yield.

 SENSATION carries the BYDV protection gene (YD2), which means plants may get infected but will tolerate the virus and grow normally. Although YD2 was first identified in the 1960s, the availability of neonicotinoid seed treatments has, until now, obscured its potential to cause significant yield loss.

Whilst SENSATION does give protection against BYDV, an insecticide spray may still be necessary to ensure that the aphid population is controlled.

 Type 1 BaYMV protection is now standard across most varieties. However, SENSATION is unique in the UK for carrying additional genetic protection against the threat of Type 2 BaYMV, which is now common across Europe.

CHAMPION – the wheat to beat



Group 4 Feed Wheat – Hard

Status: AHDB Candidate List 2021/22

CHAMPION is the ultimate barn buster sitting right at the top of the NEW 2021/22 Candidate List with the very highest yield available. It is a hard feed wheat (Group 4) and is very versatile, being well suited to a wide range of soil types and carrying a strong disease resistance package.

CHAMPION is the highest yielding candidate variety across all groups at 105% and its untreated yield is also high at 83%. It has a medium length straw, with very little lodging seen over 5 years of trials in the UK. In common with many varieties it may require a pgr on more fertile sites.

CHAMPION has orange wheat blossom midge resistance and unique DSV genetics offer robust resistance to brown rust and, in particular, yellow rust. It also has very strong Septoria resistance.

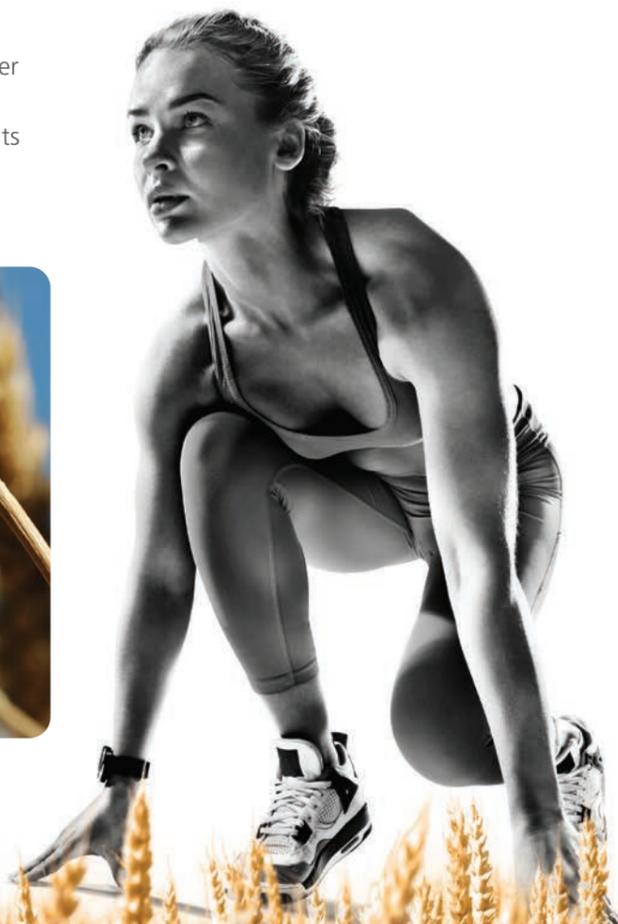
With outstanding overall yield performance – the highest yielding variety across both years of trials, CHAMPION also boasts a robust package for agronomics, disease resistance and grain quality. It is one of the few varieties which has overcome the ‘yield/resistance’ trade-off.

CHAMPION can be sown across a range of drilling dates but it has shown strong early growth, making it better suited than some to later drilling. The latest safe sowing date for CHAMPION is mid-February. CHAMPION is able to fulfil the high volume feed market requirements successfully.

Treated Yield	105% (UK) 108% (E) 102% (W) 102% (N)
Untreated Yield	83%
Protein	11.3%
Hagberg Falling No	241
Specific Weight	75.0
Ripening	0
Yellow Rust	8
Brown Rust	6
Septoria tritici	7
Mildew	6
Orange Wheat Blossom Midge	R

Data Source:
AHDB Candidate List Trials

* Untreated Yield – % of treated controls.



THEODORE – the UK’s cleanest wheat

Group 4 Feed Wheat – Hard

Status: AHDB Recommended – West Region

THEODORE is a high yielding hard feed winter wheat with outstanding disease resistance. It has a group leading Untreated Yield in trials (88% of treated controls), outperforming all of the feed varieties (Gleam 81% and SY Inisitor 78%), making it a farmer-friendly variety to grow with the ever-increasing reductions in available chemistry.

THEODORE has performed very well in the trials network; particularly in the West of the country, with a Treated Yield of 102% of controls which makes it one of the highest yielding varieties for that area. THEODORE has the highest Septoria tritici score (8.3) of all the recommended varieties and controls, (DSV’s other varieties also score highly for this disease resistance, making DSV a top choice for Septoria tritici resistance). It also has the highest score for Yellow Rust (9) and a strong Brown Rust score of 7. Overall, it has a robust and all-round package for disease resistance. Standing at 83cm, THEODORE has good resistance to lodging in both treated and untreated plots, with no lodging seen in breeders’ plots throughout its time in trialling.

Treated Yield	102% (W)
Untreated Yield*	88%
Protein	12.2%
Hagberg Falling No	313
Specific Weight	74.3
Ripening	0
Yellow Rust	9
Brown Rust	7
Septoria tritici	8.3
Mildew	7

Data Source:
AHDB Recommended List 2021/22
(West Region)

* Untreated Yield – % of treated controls.

Lupins

The protein queen is back

For a long time the white lupin disappeared from mainstream cultivation: the reason – the fungal disease anthracnose (*Colletotrichum lupini*). It appeared in the 1990s and the practical cultivation of grain legumes all but disappeared. With low alkaloid and anthracnose-tolerant varieties, the ‘protein queen’ now returns to our fields. As an alternative indigenous protein crop, lupins can be used as a replacement for soya. Apart from their excellent intrinsic values, lupins have a very good position in crop rotations due to their nitrogen binding properties, soil loosening and phosphate mobilisation, delivering a very high ‘previous crop’ value. The white lupin is characterised by its high protein content and delivers the highest gross protein yield per unit area.

FRIEDA and CELINA are real protein wonders. In contrast to soya bean, they have much better climate adaptation, a lower heat requirement, and can therefore be grown over a wider area. Due to their anthracnose tolerance, these two white lupins provide farmers with a high degree of yield security. Their pronounced taproot makes them much less sensitive to summer drought.

Depending on the location, the yield potential is between 2 and 5.5t/ha. The average crude protein content is 32% with 86% dry matter. Inoculation with a rhizobia preparation is recommended.

Certified Seed is available for sowing 2022. Ask your merchant!

FRIEDA

A true protein bomb

- High yields of high-quality protein
- Very high yield security, as anthracnose tolerant
- Insensitive to summer drought due to pronounced taproot

CELINA

The protein queen

- TOP Earnings level
- High yields of high-quality protein, preferably for animal feed
- Domestic GMO-free protein source



How to grow lupins (suggestions):

Location requirements

- Cultivation possible with pH values up to at least 7.3
- Select fields with low weed potential

Sowing

- Sow as early as possible at soil temperatures of 4°C and above
- Depending on the region from the beginning of March to mid-April
- Turning tillage in autumn or spring in sufficiently dry soil conditions
- Mulch or direct sowing with intact soil structure

Sowing depth

- 3–4 cm
- Seed planted too deep is strongly yield-reducing (epigenetic germination)

Seeding rate

- 50–60 live grains/m² with row spacing from 12–25 cm

Seed treatment

- Inoculation with a rhizobia preparation for lupins is necessary

Seed

- Use only certified seed: Reproduction is forbidden by law, so that no anthracnose infected farm-saved seed is sown

Harvest

- Harvest date: Usually mid August to mid September
- At a grain moisture content of 13–16%, the lupin is ready for threshing (grains rustle in the pods)
- Open the threshing concave wide, lowest possible drum speed (legume gearbox is advantageous)

Mechanical weed control

- Weeds must be controlled until the rows are no longer visible
- Use hoe and/or harrow
- Before emergence, ‘blind’ weeding 2–3 times (cotyledon stage of the weeds) may be required
- Drive slowly while harrowing (approx. 2km/h)
- No further weeding from emergence to the first pair of true leaves



Oilseed Rape

DSV has been leader in the breeding and development of oilseed rape for over 50 years. Our high performing hybrid varieties, produced using both MSL and Ogura systems to give a wide range of beneficial characteristics and traits, have been some of the UK's most successful oilseed rapes over the years.

Features such as our unique trait layering approach, PNN (post neonicotinoid) breeding initiative and features including TuYV resistance, HOLL, Clearfield®, clubroot resistance, high N-Efficiency, optimum vigour, high oil content and resistance to pod shatter, have continued to keep us at the forefront of our field.

Variety	Status	Yield		Seed Quality	Agronomic Characteristics										Disease Resistance				
		Gross Output	Seed Yield		Oil Content	Winter Hardiness	Autumn Vigour	Spring Vigour	Plant Height	Earliness of Flowering	Earliness to Maturity	Resistance to Lodging	Stem Stiffness	Resistance to Pod Shatter	Light Leaf Spot	Stem Canker	Verticillium wilt	TuYV	Clubroot
Hybrid	DART	AHDB Candidate List 2021/22	113% (E/W)	112% (E/W)	45.7%	High	High	High	140cm	6	6	9	9	High	6	7		✓	
	DARLING	AHDB Recommended List 2021/22	103% (E/W)	103% (E/W)	46.1%	High	High	High	159cm	7	5	8	8	High	6	8	✓	✓	
	DAZZLER	AHDB Recommended List 2021/22	102% (E/W)	101% (E/W)	46.2%	High	High	High	153cm	8	6	8	9	High	6	8		✓	
	DUKE	Common Catalogue	105%	105%	45.6%	High	High	High	168cm	6	4.5	8	8	High	5	8	✓	✓	
	DUPLO	AHDB Candidate List 2021/22	109% (E/W)	107%	46.8%	High	High	High	146cm	5.4	6	8	8	High	5.2	9		✓	
	TEMPTATION	AHDB Recommended List 2021/22	103% (E/W) 98% (N)	102% (E/W) 97% (N)	46.1%	High	High	High	154cm	6	5	8	7		6	5	✓	✓	
Clubroot	CROCODILE CR	AHDB Recommended List 2021/22	102%	103%	45%	High	High	High	153cm	6	5	8	8		6	4			✓
	CROSSFIT CR	AHDB Candidate List 2021/22	109%	107%	46.8%	High	V. High	V. High	146cm	5	6	8	8	High	6	9		✓	✓
Clearfield®	WRH 67 (BEATRIX CL)	National List Trials 2021	110%	110%	46.1%	High	High	High	134cm	7	6	9	8.3	High	5	9		✓	
	MATRIX CL	AHDB Candidate List 2021/22	103% (E/W) 108% (E/W) 96% (N)	102% (E/W) 107% (E/W) 97% (N)	46%	High	High	High	148cm	5.3	6.2	9	8.2	High	5	9	✓	✓	
	PLURAX CL	Common Catalogue	104%	103%	44.6%	High	Medium	High	134cm	6	6	8	9		7	6	✓		

Data Source: AHDB and DSV Internal Trials

Key to Oilseed Rape Variety Traits

We have developed a series of simple icons to help growers identify, at a glance, the different key characteristics of our winter oilseed rape varieties. These are listed below with a brief explanation. Some traits are shared by almost every variety we list, for example, their superior primary response and early vigour shown over the first 45 days – as in INCENTIVE 45. Others are unique to different varieties and result from the skilled hybrid breeding for which DSV is renowned, for example, the varieties in our expanding Clearfield® portfolio and the latest PNN Triple and Quad Layer varieties. However, for full details and performance data you should refer to the detailed product descriptions and data tables.

- A PNN Variety**
Bred to include specific growth characteristics that deliver reliable establishment and consistent high performance year after year.
- A Triple Layer PNN Variety**
Unique three-way disease resistance and yield protection against Phoma Stem Canker, Light Leaf Spot, Turnip Yellow Virus and Pod Shatter providing new levels of security in OSR production.
- A Quad Layer PNN Variety**
Builds on our Triple Layer package of agronomic features by adding a further layer of management benefits in the shape of Verticillium wilt tolerance, clubroot resistance or Clearfield® technology.

- N-Efficiency**
DSV's new N-Efficiency feature combines several key plant characteristics, including root structure, plant architecture and drought tolerance, to ensure varieties are able to make as much use of every kg of nitrogen applied as possible.
- A Clearfield® Variety**
Resistant to Imazamox-based herbicides allowing you to safely control the majority of broadleaf weeds and volunteer cereals commonly found in UK crops.
- RLM7+ Disease Resistance**
Multi-gene resistance to phoma stem canker plus light leaf spot – the most common diseases of oilseed rape in the UK.
- High Oil Content**
High oil content ensuring growers receive the maximum potential oil bonus at harvest.



- 45 DAYS Superior Primary Response**
Outstanding vigour in the first 45 days combined with deep tap root development to provide the best foundation for yield and protection against pest and disease threat.
- Pod Shatter Resistance**
Minimises seed shed and loss in later stages of growth and at harvesting making it particularly useful when weather conditions are poor or in late seasons.
- Suitable for Min-till or No-till**
Optimised for strong establishment, exceptional performance and consistent gross output delivery in reduced cultivation systems.
- HarvestMax**
HarvestMax yield protection gives a new level of defence against harvest challenges through combining DSV's longest and largest pods to date alongside a short and compact canopy structure. This allows for quick and efficient harvesting combined with minimum seed loss and quick, even dry down of the plant.
- Turnip Yellow Virus Resistance**
Resistance to the growing threat of TuYV now endemic across the UK and potentially reducing oil content and yields by up to 20%.
- Verticillium wilt Tolerance**
Protection against yield loss from this Europe-wide disease that is difficult to identify, has no effective agronomic option and causes premature plant death.
- Clubroot Resistance**
Effective resistance to all common forms of clubroot, safeguarding yield in affected areas.

Hybrid breeding to improve resistance and control costs

DSV leads the way in developing OSR varieties that offer increased disease resistance and agronomic performance.



Triple and Quad Layer OSR Explained

Triple Layer varieties

Triple Layer oilseed rape varieties from DSV provide growers with new levels of crop security by combining optimum levels of disease resistance and agronomic characteristics to produce consistent high outputs without the need for costly inputs.

Developed as a direct result of the neonicotinoid ban and the need to move towards less intensive and more environmentally friendly production methods, DSV Triple Layer oilseed rape takes as much of the guesswork out of growing the crop as possible.

Every Triple Layer variety has unique three-way disease resistance and yield protection built in making them a genuine industry first.

Layer 1: RLM7+ Disease Resistance

Multi-gene resistance to phoma stem canker and light leaf spot – the most common diseases of oilseed rape in the UK.

Layer 2: Turnip Yellows Virus Resistance

Resistance to the growing threat of TuYV now endemic across the UK and potentially reducing oil content and yields by up to 20%.

Layer 3: Pod Shatter Resistance

Minimises seed shed and loss in later stages of growth and at harvesting, making it particularly useful when weather conditions are poor or in late seasons.

Furthermore, our new Triple Layer varieties are built on DSV's long established genetic foundation of exceptional early vigour to drive establishment and allow crops to grow through disease and pest threat. A deep taproot lays the foundation for high yields and optimum plant architecture to capture as much light as possible.

They are the most 'self-contained' oilseed rape varieties available and the closest you'll get to a 'drill and forget' production system for this uniquely valuable crop.

- Full disease resistance package reduces the need for costly agronomic interventions
- Advanced plant physiology provides reliable establishment, added resilience and consistent yield delivery
- Simplified management and greater peace of mind
- Reliably high oil content maximises crop value



Quad Layer varieties

Building on the success of our Triple Layer oilseed rape varieties, DSV Quad Layer varieties have now been introduced marking a huge step forward in breeding innovation and adding even greater production resilience and reliability for growers.

DSV MATRIX CL layers four complex traits together without compromising yield. Alongside proven Clearfield® technology, MATRIX CL also has TuYV resistance, pod shatter resistance and RLM7+ resistance to phoma stem canker.

DSV CROSSFIT CR is another new Quad Layer variety, this time adding Clubroot resistant to TuYV Protection and Pod Shatter Resistance as well as RLM7+ stem canker resistance. No other variety in the UK has all of these traits together making it the ideal choice for a worry-free crop when clubroot is an issue.



DART from DSV – Right on target

DART – A significant step forward in DSV’s reliable, simple to grow, high output oilseed rape varieties.

- 2021 Candidate variety with 113% Gross Output.
- Trials indicate that DART is proving very resilient to CSFB damage at both adult and larval stage.
- TuYV protection with good tolerance to Verticillium wilt.
- HarvestMax technology to minimise pre harvest seed losses.
- Low biomass variety for early maturity and easy harvest.

Source: AHDB Candidate List 2021/22

DART

Hybrid Oilseed Rape



Status: AHDB Candidate List 2021/22

DART joined the new AHDB Candidate List in December. It is a very high yielding variety performing particularly well in the East and West regions. DART has consistently performed well in UK trials, with its parents having been particularly adapted to the UK climate and growing conditions.

DART marks another significant step forward in DSV’s production of reliable, simple to grow, high output oilseed rape varieties especially developed for the current economic and environmental climate. DART offers protection from the growing threat of the TuYV virus now endemic across the UK where it has the potential to reduce yields by up to 20%.

DART is one of only a few varieties to feature RLM7+ and multi-gene resistance to stem canker. It also has high resistance to light leaf spot with a score of 6 making it an agronomist-friendly variety well suited to integrated crop management systems. Rapid development of new leaves is one this variety’s key attributes. DART has strong spring vigour and grows away quickly as the days start to get longer.

In addition to stand-out disease resistance characteristics, DART also holds its own in Gross Output comparisons with a score of 113%, a Seed Yield of 112% and an excellent Oil Content of 45.7%.

DART is the first of the DSV varieties to carry the new HarvestMax protection traits, giving our varieties the maximum protection against harvest challenges. DART offers our longest and largest pods, that we have bred to date, with new pod technology inbuilt, ensuring maximum seed retention during harvesting. This new characteristic also helps to ensure quick and even dry down of the plant. DART offers a new short and compact canopy structure allowing quick and efficient combining.

In addition, DART has a prostrate growth habit which quickly produces considerable weed-inhibiting ground cover. This feature also means DART is unlikely to need an autumn PGR.

Although ideally drilled in the optimum autumn window, DART’s considerable vigour means it can safely be later drilled if weather conditions dictate this.

Gross Output	113% (E/W)
Seed Yield	112% (E/W)
Oil Content	45.7%
Winter Hardiness	High
Autumn Vigour	High
Spring Vigour	High
Plant Height	140cm
Flowering	6
Maturity	6
Lodging	9
Stem Stiffness	9
Light Leaf Spot	6
Stem Canker	7

Data Source:
AHDB Candidate List 2021/22

DART marks another significant step forward in DSV’s production of reliable, simple to grow, high output oilseed rape varieties.



DARLING

Hybrid Oilseed Rape



Status: AHDB Recommended List 2021/22

DARLING is one of DSV's flagship Triple Layer varieties, combining top yields with three important traits from DSV to offer growers increased agronomic flexibility.

One of its particularly noticeable features is its outstanding Autumn Vigour as well as having Turnip Yellow Virus (TuYV) Resistance, Pod Shatter Resistance, and the RLM7+ for multi-gene resistance to phoma stem canker. It is one of the first varieties to have these pioneering three traits stacked together.

Developed as a direct result of the Neonicotinoid ban and the need to move towards less intensive and more environmentally friendly production methods, DSV Triple Layer oilseed rape takes as much of the guesswork out of growing the crop as possible.

DARLING has shown that it can deliver high Gross Output (103%) and high Oil Content (46.1%), overtaking many other varieties currently on the AHDB Recommended List. It also has good agronomic features with an upright canopy that demonstrates no weakness to lodging (8) and a strong Stem Stiffness score (8) from a medium – tall variety, standing at 159cm. DARLING has performed well in Verticillium wilt trials in the UK.

Gross Output	103% (E/W)
Seed Yield	103% (E/W)
Oil Content	46.1%
Winter Hardiness	High
Autumn Vigour	High
Spring Vigour	High
Plant Height	159cm
Flowering	7
Maturity	5
Lodging	8
Stem Stiffness	8
Light Leaf Spot	6
Stem Canker	8

Data Source:
AHDB Recommended List 2021/22

DAZZLER

Hybrid Oilseed Rape



Status: AHDB Recommended List 2021/22

DAZZLER is a new Triple Layer variety from DSV that has the highest Gross Output and Oil Content data for the East / West Regions on the latest Recommended List.

The three outstanding traits of DAZZLER are its TuYV resistance, pod shatter resistance and the RLM7+ for multi-gene resistance. It also has excellent Autumn Vigour.

Growing DAZZLER can be a step forward in the direction of more environmentally friendly crop production methods requiring less costly inputs. DAZZLER has high Gross Output (102%) and impressive Oil Content (46.2%). It has a good Resistance to Lodging (8) and a Stem Stiffness score of 9. It is a medium height variety standing at 153cm.

DAZZLER's spring vigour is its major selling point. It is one of the fastest growing varieties in our portfolio. As temperatures begin to rise, DAZZLER is quick off the block ahead of its competitors.

Gross Output	102% (E/W)
Seed Yield	101% (E/W)
Oil Content	46.2%
Winter Hardiness	High
Autumn Vigour	High
Spring Vigour	High
Plant Height	153cm
Flowering	8
Maturity	6
Lodging	8
Stem Stiffness	9
Light Leaf Spot	6
Stem Canker	8

Data Source:
AHDB Recommended List 2021/2022 and DSV Internal Trials



DUKE

Hybrid Oilseed Rape



Status: Common Catalogue

DUKE is a new variety that is already registered in several European countries including France and Poland. It has been trialed and tested extensively in the UK during the past two years.

DUKE is a high yielding variety with excellent Oil Content of 45.6%. It boasts three sought-after traits – TuYV protection, pod-shatter resistance and the RLM7 gene for stem canker resistance which, added to its powerful autumn vigour, makes DUKE a must for growers planting into higher risk situations.

DUKE has a medium green leaf and is quick to put on additional leaves within the critical first 45 days of growth. The N-Efficiency of this hybrid variety is extremely high supporting some impressive scores so far this year thanks to its extensive rooting system. DUKE's standing power and resistance too are everything you would expect from a DSV variety.

DUKE has also shown exceptional vigour in the spring, making a quick start to grow away from other varieties. It has a mid-early flowering score but is slightly later to mature – this, in conjunction with DUKE's Pod-Shatter Resistance package, will help to spread the harvest workload. The quick flowering period also gives DUKE far higher potential for optimum grain-fill.

Gross Output	105%
Seed Yield	105%
Oil Content	45.6%
Winter Hardiness	High
Autumn Vigour	High
Spring Vigour	High
Plant Height	168cm
Flowering	6
Maturity	4.5
Lodging	8
Stem Stiffness	8
Light Leaf Spot	5
Stem Canker	8

Data Source:
Extensive DSV Data

DUPLO

Hybrid Oilseed Rape



Status: AHDB Candidate List 2021/22

DUPLO is one of DSV's flagship Triple Layer varieties, combining top yields with three important traits from DSV. Just added to the AHDB Candidate List, DUPLO has been fast tracked to the UK market due to its exceptional vigour. DUPLO has the highest vigour of any of DSV's Triple Layer varieties in both autumn and spring. DUPLO has performed well all across Europe and the whole of the UK in all conditions, proving it is a very robust variety.

DUPLO is our breeders' pick for growing in all conditions. Features of particular note are its outstanding autumn vigour and DSV Triple Layer protection of Turnip Yellow Virus (TuYV) resistance, pod shatter resistance, and RLM 7+ multigene resistance to phoma stem canker. DUPLO is part of the next generation of DSV varieties, which offer unique three-way disease protection and thus stability of accompanying yields.

DUPLO performed exceptionally well in DSV's new non-inversion tillage trials which include no till. This proves that plants are optimised for strong establishment, exceptional performance and consistent gross output delivery in reduced cultivation systems. DUPLO is also the first variety which DSV have launched with our new improved N-Efficiency, bred to ensure growers get the highest possible response to Nitrogen fertilisers so every kg applied works as hard as possible to produce yield with minimum waste.

Developed as a direct result of the Neonicotinoid ban and the need to move towards less intensive and more environmentally friendly production methods, DSV Triple Layer oilseed rape takes as much of the guesswork out of growing the crop as possible.

Gross Output	109% (EWW)
Seed Yield	107%
Oil Content	46.8%
Winter Hardiness	High
Autumn Vigour	High
Spring Vigour	High
Plant Height	146cm
Flowering	5.4
Maturity	6
Lodging	8
Stem Stiffness	8
Light Leaf Spot	5.2
Stem Canker	9

Data Source:
AHDB Candidate List 2021/22

DUPLO has performed well all across Europe and the whole of the UK and is our breeders' pick for growing in all conditions.



TEMPTATION

Hybrid Oilseed Rape



Status: AHDB Recommend List 2021/22

The first DSV variety to carry the TuYV protection, TEMPTATION is one of the few varieties to be recommended for the whole of the UK demonstrating the great flexibility of performance from this variety.

TuYV has been a well-known threat to oilseed rape for over 30 years throughout Europe, where it is known that this disease can cause a considerable loss of yield. Spread by the peach potato aphid (*Myzus persicae*), indications are that losses can be as high as 20%. DSV have been breeding varieties with resistance to TuYV for over 10 years, and due to the reduction in availability and restrictions in the use of key plant protection products, genetic protection has become all the more valuable.

TEMPTATION delivers a high and consistent yield and an impressive Oil Content of 46.1%. While not a problem in the last year, TEMPTATION has strong Winter Hardiness, reducing the impact of late frosts and snow cover. Its aggressive Autumn and Spring Vigour is very noticeable both in official trials and on farm.

Independent trials show that TEMPTATION has strong tolerance to Verticillium wilt, It also has good field disease resistance and has proven to be robust in UK conditions, with one of the top untreated performances in official trials. A high performance variety with low input management potential.

Gross Output	103% (UK) 103% (EWW) 98% (N)
Seed Yield	102% (UK) 102% (EWW) 97% (N)
Oil Content	46.1%
Winter Hardiness	High
Autumn Vigour	High
Spring Vigour	High
Plant Height	154cm
Flowering	6
Maturity	5
Lodging	8
Stem Stiffness	7
Light Leaf Spot	6
Stem Canker	5

Data Source:
AHDB Recommend List 2021/22

CROCODILE CR

Hybrid Oilseed Rape

Status: AHDB Recommended List 2021/22

CROCODILE CR has closed the gap between clubroot resistant varieties and 'normal' varieties, in many cases it is actually out-yielding them! As clubroot infection rates appear to indicate that the disease is continuing to spread south, CROCODILE CR offers growers a valuable, high yielding option as part of their crop rotation on land where common strains of clubroot are known to be an issue.

CROCODILE CR is now recommended for use on clubroot infected land. It is one of the highest yielding varieties across the AHDB List (Gross Output – 102% and Seed Yield – 103%) also scoring well for oil content (45.0%). It has a strong score for Light Leaf Spot (6) and good standing power.

At DSV we always aim to deliver yield with traits rather than traits at the expense of yield. Clubroot has become more apparent on farm during the last five years, with closer rotations, meaning it is often costly and hard to control. CROCODILE CR may, however, be infected by certain strains and infections that have been reported in some fields. It is important that growers protect the clubroot genetics by only planting the variety where clubroot is known to be an issue.

Due to the rapid development of the lower branches of CROCODILE CR, DSV recommends a sowing rate of 40 – 50 seeds per m² and a PGR in spring is only required on fertile sites to ensure efficient harvestability. Its vigorous autumn growth allows it to be drilled over a broad range of dates without any issues.



Gross Output	102%
Seed Yield	103%
Oil Content	45.0%
Winter Hardiness	High
Autumn Vigour	High
Spring Vigour	High
Plant Height	153cm
Flowering	6
Maturity	5
Lodging	8
Stem Stiffness	8
Light Leaf Spot	6
Stem Canker	4

Data Source:
AHDB Recommended List 2021/22

CROCODILE CR has closed the gap between clubroot resistant varieties and 'normal' varieties, in many cases it is actually out-yielding them!



CROSSFIT CR

Hybrid Oilseed Rape



Status: AHDB Candidate List 2021/22

New for 2021 is CROSSFIT CR – a variety with outstanding qualities. CROSSFIT CR stands out from other varieties as it is resistant to clubroot which is on the increase in the UK.

It is a Quad Layer variety – meaning it has resistance to clubroot, TuYV Protection, Pod Shatter Resistance as well as RLM7+ stem canker resistance. No other variety in the UK has all of the above stacked traits together making it the ideal variety for a worry free crop in a clubroot situation.

CROSSFIT CR has been in trials in the UK for five years. Not only is it recommended for use on clubroot infected land, it has been seen to produce high Seed Yield (104%) and has a very high Oil Content (46.6%). CROSSFIT CR is slightly later flowering than some varieties. It has a Maturity score of 6, and scores strongly for Lodging with an 8 and a 7 for Stem Stiffness.

Alongside clubroot resistant varieties it is also important to consider other factors such as the pH of the soil, this should be pH 7 or above; adding calcium; and lengthening rotations. Consideration should also be given to the eradication of brassica weeds, such as runch and charlock, which can amplify the problem.

CROSSFIT CR may, however, be infected by certain strains and infections that have been reported in some fields.

Gross Output	106% (E/M)
Seed Yield	104% (E/M)
Oil Content	46.6%
Winter Hardiness	High
Autumn Vigour	Very High
Spring Vigour	Very High
Plant Height	136cm
Flowering	6
Maturity	6
Lodging	8
Stem Stiffness	7
Light Leaf Spot	4
Stem Canker	9

Data Source:
AHDB Candidate List 2021/22

CROSSFIT CR – the ideal variety for a worry-free crop in a clubroot situation.



Clearfield® Oilseed Rape

The Clearfield® Production System was designed as a risk management tool for oilseed rape that combines hybrid seed varieties and high quality BASF herbicides to combat many of the key issues OSR growers face.

The system allows you to adopt a 'wait and see' approach. The post emergence timings for the Clearfield® product range (Cleravo® and Cleranda®) allow you to wait and see if you have a healthy established crop before applying your herbicide programme, enabling you to manage cabbage stem flea beetle risk.

Crucially, Clearfield® is highly effective at controlling those difficult weeds shown to contain erucic acid such as charlock, runch and hedge mustard, as well as volunteer OSR, allowing you to remove a potential source of erucic acid contamination from your crop.

What's more, these varieties are strong establishing and offer a rapid start. They're tolerant of sulfonylurea (SU) soil residues, which may be present where SU herbicides were used in previous cereal crops. This enables them to get away quicker and achieve a high vigour, a key factor in helping defend against difficult autumn issues e.g. dry seedbed and cabbage stem flea beetle attack.

Clearfield, Cleravo and Cleranda are registered trademarks of BASF. Cleravo contains imazamox and quinmerac. Cleranda contains imazamox, quinmerac and metazachlor. Use plant protection products safely. Always read the label and product information before use. For further product information including warning phrases and symbols, refer to agricentre.basf.co.uk.



DSV's highest yielding Clearfield® variety

MATRIX CL is the only commercial Quad Layer Clearfield® variety to stack four valuable, complex traits together without compromising yield, offering:

- Invaluable TuYV protection.
- Enhanced agronomic performance with RLM7+ stem canker protection and pod shatter resistance.
- Strong early vigour – defence against flea beetle.
- Impressive Yields (108% EW) and Oil Content (46.0%)

Source: AHDB Candidate List 2021/22 and DSV Internal Trials

WRH 567 (BEATRIX CL)

Clearfield® Oilseed Rape



Status: National List Trials 2021

DSV are delighted to add WRH 567 (BEATRIX CL) to their portfolio of Clearfield® winter oilseed rape varieties. It is one of the first Quad Layer PNN varieties to offer a complementary package of traits, with no compromise on quality. WRH 567 (BEATRIX CL) has four major traits which include RLM7+ stem canker resistance, TuYV Protection, Pod Shatter Resistance and Clearfield® Technology.

WRH 567 (BEATRIX CL) offers a significant advance in the market place to be one of only a few to offer TuYV in the Clearfield® segment. This powerful yield enhancing trait possessed by all highest yielding recommended varieties, is an essential feature in the post-neonicotinoid era of growing oilseed rape.

One of our higher yielding varieties, WRH 567 (BEATRIX CL) boasts 110% Seed Yield and 110% Gross Output as well as having a good Oil Content (46.1%), coupled with a robust Resistance to Lodging (9) and Stem Stiffness (8.3). WRH 567 (BEATRIX CL) is early to flower (7) and to mature (6) – these are all essential traits that any grower should consider when selecting a variety to grow on farm.

With the addition of Pod Shatter Resistance as well as RLM7+ resistance to stem canker it delivers one of the best agronomic packages to date.

Gross Output	110%
Seed Yield	110%
Oil Content	46.1%
Winter Hardiness	High
Autumn Vigour	High
Spring Vigour	High
Plant Height	134cm
Flowering	7
Maturity	6
Lodging	9
Stem Stiffness	8.3
Light Leaf Spot	5
Stem Canker	9

Data Source:
National List Trials 2021
and DSV Internal Trials

BEATRIX CL delivers one of the best agronomic packages to date.



MATRIX CL

Clearfield® Oilseed Rape



Status: AHDB Candidate List Trials 2021/22

As the first Quad Layer PNN Variety from DSV, MATRIX CL marks a huge step forward in breeding innovation being the first variety to stack four complex traits together without compromising yield.

MATRIX CL demonstrates a significant advance in Clearfield® winter oilseed rape varieties and addresses many of the shortcomings of previous varieties. MATRIX CL allows the grower to choose powerful post emergence Clearfield® chemistry without facing the potential drop in performance shown in the previous generations of varieties. MATRIX CL has left the pack, significantly raising the bar for Clearfield® varieties making it the highest yielding Clearfield® variety available to the UK grower.

MATRIX CL is one of a few varieties selected as a candidate for the whole of the UK making it suitable for growing in both the North, and East and West regions.

MATRIX CL is one of two commercially available UK varieties in the Clearfield® segment to offer TuYV protection. This powerful yield enhancing trait possessed by all the current highest yielding recommended varieties is an essential trait for OSR growing.

With the vigour pushing on from successful varieties like PLURAX CL and mirroring the vigour profiles of the top performing hybrids in both autumn and early spring – MATRIX CL performed particularly well in our high pressure flea beetle trials where high vigour was a ‘must’.

With Pod Shatter Resistance, RLM7+ resistance to stem canker, and added TuYV protection, MATRIX CL offers the best agronomic package seen in any Clearfield® variety to date.

MATRIX CL offers the top standing scores with 9 for Lodging and 8 for Stem Stiffness. It has a medium Flowering score of 5 and an early Maturity score of 6.

Offering a complete Clearfield® package. MATRIX CL is the first Clearfield® variety without compromise.

Gross Output	102.5% (UK) 108.3% (E/W) 96.3% (N)
Seed Yield	102.1% (UK) 106.9% (E/W) 96.9% (N)
Oil Content	46.0%
Winter Hardiness	High
Autumn Vigour	High
Spring Vigour	High
Plant Height	148cm
Flowering	5.3
Maturity	6.2
Lodging	9
Stem Stiffness	8.2
Light Leaf Spot	5
Stem Canker	9

Data Source:
AHDB Candidate List 2021/22

MATRIX CL is the first commercially available UK variety in the Clearfield® segment to offer TuYV protection.

PLURAX CL

Clearfield® Oilseed Rape



Status: Common Catalogue / Clearfield® Variety

PLURAX CL is one of the latest Clearfield® winter oilseed rape varieties released by DSV. PLURAX CL has the highest oil content, best early vigour and is the earliest to flower of the Clearfield® varieties independently tested by NIAB data set 2017. It is one of the few varieties which has been tested across seven sites. It has been bred and selected to bring together DSV’s pioneering genetics with the latest Clearfield® hybrid technology.

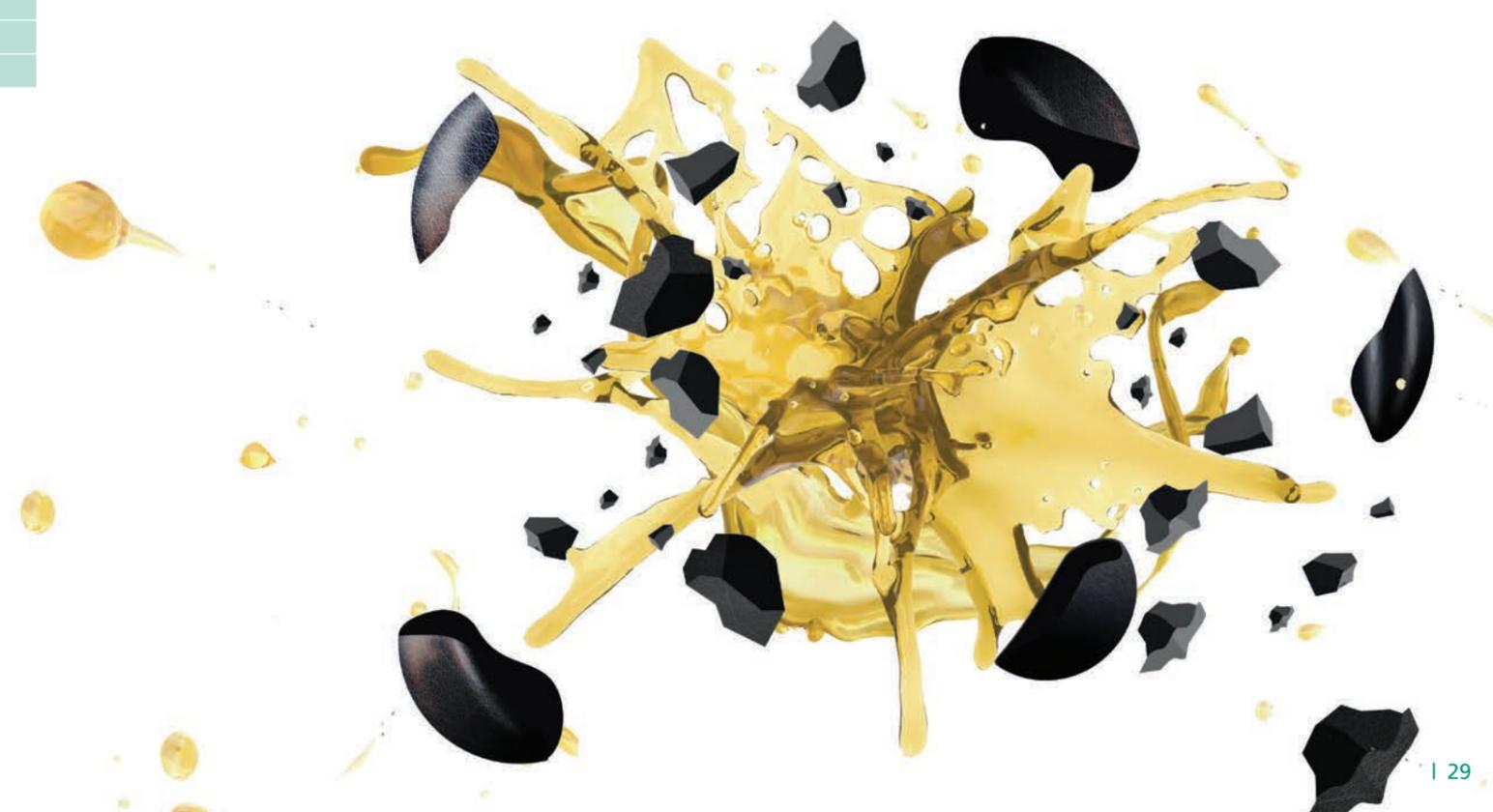
PLURAX CL is a step forward in Clearfield® genetics as it has been specifically bred to have a strong tolerance to Verticillium wilt and has proven itself in recent ADAS trials. It is a new generation hybrid with high yields and outstanding levels of oil content. In NIAB trials from 2017 PLURAX CL has produced a very high seed yield and the highest Oil Content of 46.2%. It is quick to establish in the autumn putting down a robust rooting system. Its stem stiffness and resistance to lodging are two of its key strengths. The NIAB data for 2017 puts PLURAX CL as the most vigorous variety in the autumn, highlighting PLURAX CL’s Autumn Vigour – being on par with market leading varieties – for making maximum use of the first 45 days of growth after drilling, where OSR plants lay the foundations for future yields. PLURAX CL has a strong agronomic package with a score of 7 for Light Leaf Spot and 6 for Stem Canker.

PLURAX CL is suitable for sowing in a range of soil types and conditions, due to its autumn vigour and the branching capacity of the plant. DSV would recommend planting this variety at 50 seed/m².

Gross Output	102%
Seed Yield	103%
Oil Content	44.8%
Winter Hardiness	High
Autumn Vigour	High
Spring Vigour	High
Plant Height	134cm
Flowering	6
Maturity	6
Lodging	9
Stem Stiffness	9
Light Leaf Spot	7
Stem Canker	6

Data Source:
NIAB Trials Summary 2017–2020

PLURAX CL has been specifically bred to have a strong tolerance to Verticillium wilt and has proven itself in recent ADAS trials.



Spring Oilseed Rape

We saw a dramatic rise in the spring rape drilling area in 2020. Spring oilseed rape crops deliver excellent gross margin opportunities allowing flexibility in the rotation following a late harvest – which often means poor weather conditions and, in general, allows growers an excellent opportunity to sort out pernicious weed problems, such as black-grass, while fields lie fallow through the winter. This is a key benefit compared to winter oilseed rape crops, which offer few cultural control measures to reduce grass weed numbers and rely heavily on agro-chemistry.

	Variety	Status	Yield		Seed Quality	Agronomic Characteristics			
			Gross Output (%)	Seed Yield (%)	Oil Content (%)	Spring Vigour	Shortness of stem	Earliness of Flowering	Earliness to Maturity
Hybrid	LAGONDA	AHDB Descriptive List 2021	111	112	44	High	7	7	5
	LAKRITZ	AHDB Descriptive List 2021	109	110	44.1	High	7	7	5
	LUMEN	AHDB Descriptive List 2021	105	105	44.6	High	7	7	6
Clearfield*	CLICK CL	National List	Good	Good	High	High	Good	Medium	Medium
	CONTRA CL	AHDB Descriptive List 2021	99	101	43.5	High	6	7	5



Grass and Legumes

Extensive breeding and testing is carried out on the most important forage grass species in addition to small-seeded legumes. The main species are perennial, Italian, annual and hybrid ryegrass, Timothy, meadow fescue, tall fescue, cocksfoot and various clover species.

In the UK, our grass breeding station in Oxfordshire has been a centre for excellence in breeding very high quality perennial and hybrid ryegrass in the "Aston" series. Class leading varieties like ASTONENERGY, ASTONKING and ASTONCRUSADER have been at the forefront of UK grass forage mixtures for many years. Our specialist grass trials and breeding operation is headed up by Jamie Cotton. DSV UK also run the National and Recommended List Trials on behalf of AHDB, NIAB and BSPB from the site.



Annual ryegrass *Lolium westerwoldicum*

	Variety	Type	Yield	Rust Resistance
diploid	LIFLORIA	I	4	3
tetraploid	ALBERTO	I	5	5
	LIBONUS	I	5	3
	LIQUATTRO	I	5	3
	POLLANUM	M/I	4	3

I = Intercrop M = Maincrop Range: 1–5 (5 = best); breeders classification

LIFLORIA

- Outstanding performance for intercropping
- Good Rust Resistance guarantees high quality

POLLANUM

- One of the best in Rust Resistance
- Double purpose type ensures high flexibility

Italian ryegrass *Lolium multiflorum*

	Variety	Status	Yield	Rust Resistance	Persistence
diploid	JAVORIO	A/S	5	4	3
	SANDERO	A	5	4	3
	PINACO	A	5	4	4
	SHAKIRA	A	5	4	3
tetraploid	ARMAN	A	5	5	4
	FABIO		4	3	3
	HUNTER	A	5	4	3

SANDERO

- Outstanding yields with good disease resistance
- Exceptional Winter Hardiness and standing ability

ARMAN

- Very good resistance to different diseases
- High total Yield based on impressive early growth

Hybrid ryegrass *Lolium hybridum*

	Variety	Status	Yield	Sward Density	Winter Hardiness	Rust Resistance	Persistence
diploid	PIROL	A/S	5	3	3	3	4
tetraploid	ASTONCRUSADER	A/S	5	3	3	4	5
	PERKINS	A	5	2	4	4	5

Range: 1–5 (5 = best); breeders classification

ASTONCRUSADER

- Excellent in Yield and Persistence
- Top recommendation in England and Wales

PERKINS

- New very persistent hybrid tetraploid
- Excellent quality and disease resistance

Recommended Status: Some varieties have Recommended Status from either AHDB, SRUC or both. Where applicable to the varieties in the tables, this is noted as follows:



Perennial ryegrass *Lolium perenne*

	Variety	Status	Yield Sward	Density	Winter Hardiness	Rust Resistance	Persistence	Forage Quality
Inter	diploid	ASTONCONQUEROR	A/S	4	4	2	3	3
		GUSTO	S	4	4	2	4	4
	tetraploid	ASTONENERGY	A/S	4	3	3	4	3
		ASTONVISION	A	4	3	3	2	4
		CHATSWORTH	A	5	4	4	3	5
Late	diploid	ASTONCHIEFTAIN	A	4	4	2	3	2
		ASTONKING	A	4	4	2	4	3
		GLENEAGLE	A	4	4	4	3	4
	tetraploid	GLENROCK	S	4	4	4	3	4
		ALFONSO	A/S	4	3	3	4	3
		HURRICANE	A	5	4	3	4	4

Range: 1–5 (5 = best); breeders classification

ASTONCONQUEROR

- Excellent all round, under cutting and grazing management
- Creates excellent dense sward
- Good quality complemented by outstanding disease resistance

ASTONKING

- Excellent late-heading diploid variety with top yields throughout the growing season
- High D-values achieved in all dairy enterprises

Timothy *Phleum pratense*

	Variety	Status	Yield Sward	Density	Winter Hardiness	Rust Resistance	Persistence	Forage Quality
	ATURO		4	4	3	—	4	
	LISCHKA		4	4	4	—	4	
	PRESTO	A/S	4	4	4	—	4	4

Range: 1–5 (5 = best); breeders classification.





Meadow fescue *Festuca pratensis*

	Variety	Yield Sward	Density	Winter Hardiness	Rust Resistance	Persistence	Forage Quality
diploid	LIHEROLD	5	4	5	4	5	4

Range: 1–5 (5 = best); breeders classification.

Festulolium *Festulolium*

	Variety	Yield	Sward Density	Winter Hardiness	Rust Resistance	Persistence
	FEDORO	4	2	4	4	4

Cocksfoot *Dactylis glomerata*

	Variety	Status	Yield	Sward Density	Winter Hardiness	Rust Resistance	Persistence
	LIDACTA	A	4	4	3	3	4

Red clover *Trifolium pratense*

	Variety	Status	Yield	Winter Hardiness	Crude Protein Content	Resistance to			Persistence
						Stem Rot	Anthracnose	Mildew	
diploid	MILVUS	A	3	4	3	3	4	4	5
	HARMONIE	A/S	4	4	5	4	4	4	4
tetraploid	ATLANTIS	A/S	5	5	4	4	4	4	4

Range: 1–5 (5 = best); breeders classification

HARMONIE

- By far the highest Crude Protein Content on the Recommended List in England and Wales
- A variety without weaknesses

ATLANTIS

- Outstanding in Persistence
- High yields and Winter Hardiness



Maize

DSV distribute competitive maize varieties in Germany and throughout Europe. Our range comprises various maize hybrids from several gene pools specially selected through our stringent internal testing system. We focus on quality and high-yielding varieties. The varieties shown on the following pages are specially selected to enable UK growers to balance maximum agronomic flexibility with proven performance.



Variety	Site Type	Suitability	FAO	DM% Harvest	DM Yield t/ha	DM Yield % (4/5 Yr)	ME Harvest (MJ/kg DM)	ME Yield-Harvest (000s MJ/ha)	Starch (% - Harvest)	Starch Yield (t/ha)	Digestibility (%)	Early Vigour	Lodging	Leaf Senescence	Eyespot
LIKEIT	Favourable	Forage; AD; Grain	190	31.9	18.1	101	11.55	209	31.7	5.73	58.3	7.6	8	6.7	4.7
LIROYAL	Favourable	Forage; AD; Grain	180	33.1	18.1	101	11.79	213	33.7	6.1	59.6	7.1	7.9	6.3	6.4
	Less Favourable	Forage; AD; Grain	190	32.9	17.6	102	11.74	206	33.7	5.91	59.3	7	7.8	6.7	6.4
EXPEDIA	Favourable	Forage; AD	200	30.4	18.3	102	11.85	216	31.2	5.69	61	7.2	7.5	7.2	5.9
FARMUNOX	Favourable	Forage; AD	210	31.2	18.6	104	11.69	217	31.5	5.86	58.9	6.9	6.9	7.7	*
	Less Favourable	Forage; AD	210	30.8	18.3	106	11.62	212	30.7	5.62	58.5	6.8	5.9	8	8.9
MOVANNA	Very Favourable	Forage; AD	210	32.8	19.5	99	11.45	224	33.5	6.53	57	7.1	7.5	4.2	5.9
PETROSHKA	Very Favourable	Forage; AD	230-Late	32.3	20.6	104	11.45	235	32.4	6.66	57.3	6.7	7	6	5.8

Early

LIKEIT

Maturity Class: FAO 190

LIKEIT is a high yielding variety with excellent standing power and high disease resistance, offering all things to all growers. With a bold plant and fully enclosed cob, LIKEIT is a dependable heavy yielder for every site and hits the mark as a tri-purpose variety.

Listed for Favourable sites from the NIAB/BSPB data, LIKEIT offers high dry matter yields (18.1t/ha) and is suitable for forage, AD and grain. Although the variety has a relatively tall growth habit, it develops a well-formed cob that ensures high starch content (31.7%).

LIKEIT prefers cooler climates, which makes it suitable for a wide range of sites. It has rapid early vigour (7.6) with huge potential as an early maturing variety. What is more, with a strong disease package that offers tolerance to fusarium and eyespot as well a strong score for lodging (8), growers have an ideal all-round performer.



LIROYAL

Maturity Class: FAO 180/190

LIROYAL typifies the DSV UK maize portfolio, balancing yield, quality and agronomics to give the UK grower the ultimate package.

LIROYAL is a very early forage maize that is equally well suited to Favourable and Less Favourable sites. Although very early, it has a relatively tall growth habit and a well-formed cob that leads to high starch content, great digestibility and strong yields, as UK trials have demonstrated.

LIROYAL is a high performing all-rounder with the top yield in its class, which means all growers and, in particular, dairy farmers, have the opportunity to profit from a variety that is agronomically complete.

“LIROYAL typifies the DSV UK maize portfolio, balancing yield, quality and agronomics to give the UK grower the ultimate package.”

Frank Trockels, Maize Product Manager, DSV



Intermediate

EXPEDIA

Maturity Class: FAO 200

EXPEDIA produces top quality forage with high yield potential. This stay-green type has excellent digestibility, starch, standing power and strong resistance to eyespot and fusarium.

EXPEDIA is listed as suited to Favourable sites from NIAB / BSPB data and has great silage quality for its class, with excellent starch content (31.2%) and cell wall digestibility (61%).

EXPEDIA is the earliest intermediate variety offered by DSV in the UK, making it a great dual-purpose variety suitable for livestock and the biogas sector.

EXPEDIA matures slightly earlier than its sister variety MOVANNA but has the same powerful vigour and strong yields. It has a robust disease profile with a 5.9 for eyespot. It has high early vigour (7.2) and at harvest offers outstanding dry matter yields (18.3 t/ha) plus high standing power scored at 7.5.

FARMUNOX

Maturity Class: FAO 210

FARMUNOX is the earliest intermediate offered by DSV in the UK and has the best yields in this maturity bracket. This variety has excellent quality with good fusarium and outstanding eyespot resistance. It is listed as being equally well suited to Favourable and Less Favourable sites from the NIAB / BSPB data, producing excellent quality for both forage and AD plants.

FARMUNOX makes high energy forage thanks to its huge ME and dry matter yields in combination with high starch content. Dry matter yields at harvest are high – 18.6t/ha Favourable and 18.3t/ha Less Favourable and the ME yield of fresh plant at harvest is at least 212 (1000s MJ/ha) on Unfavourable sites.

With list-topping eyespot resistance and excellent vigour (6.9) for rapid growth at the start of the season, FARMUNOX really is the rising star with its outstanding starch content (31.5%) and great yields.

MOVANNA

Maturity Class: FAO 210

MOVANNA is DSV UK's most consistent forage and AD variety. This vigorous, mid-harvest performer has a very robust agronomic package with excellent standing power and resistance to fusarium and eyespot, all of which means a healthy plant, even if harvest is delayed.

MOVANNA is listed as suitable for Very Favourable sites from the NIAB / BSPB data and is ideal for forage and AD. It is a tall, dark green variety, which has increased its popularity with biogas growers.

With proven performance on-farm and in independent BSPB/ NIAB trials, MOVANNA is a later intermediate type, which is ideal for spreading the harvest and/or drilling window. It is a stiff plant with a low percentage score for lodging (1.9%). This variety's excellent vigour (7.1) supports rapid growth at the start of the season that culminates in high dry matter yields at harvest (19.5t/ha).



Late

PETROSCHKA

Maturity Class: FAO 230 – Late

PETROSCHKA is a high quality AD variety for the UK. What's more, this mixed flint/dent maize can be used as a quality input for dairy cows and bull fattening. For the best sites Petroscka is the perfect choice.

PETROSCHKA is listed as suitable for Very Favourable sites from the NIAB / BSPB data and, as an attractive variety with a dark green leaf, it is ideal for forage and AD plants.

PETROSCHKA offers the opportunity to spread the harvest or drilling window with very good vigour (6.7) supporting rapid early growth. It has good eyespot tolerance and the ability to stay green until harvest.



DUPLO – Stands out from the crowd

DUPLO – another Triple Layer flagship variety from DSV combining outstanding disease protection with top yields.

- Triple Layer protection against Turnip Yellow Virus (TuYV), pod shatter and RLM7+ resistance to phoma stem canker.
- Outstanding Autumn Vigour and strong establishment – ideal for reduced cultivation systems.
- High performance across the board with Gross Output (109% E/W), Seed Yield (107%) and Oil Content (46.8%).

Source: AHDB Candidate List 2021/22



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All data is sourced from the UK AHDB Recommended List 2021/22, National List trials for cereals and oilseeds and DSV Internal Trials. On the 1 – 9 scales, high figures indicate that a variety shows the character to a high degree. Note: Whilst every effort has been made to ensure that the information in this variety guide is accurate and complete, some of the information is supplied to us by third parties and we are not able to check the accuracy and completeness of that information. No guarantee is given, that the listed information represents all aspects of agricultural practice. We do not accept any liability arising from any inaccuracy or omission in any of the information provided in this guide.