



agrovista
seeds



Maize
key
varieties

*growing through
innovation*



Welcome

to Agrovista's maize seed varieties brochure

Maize, in its many guises, be it forage, energy or grain, continues to be of increasing importance to Agrovista and our customers.

Our market share in this sector continues to grow at a considerable pace, and this is reflected through the quality of the maize hybrids we offer to the market.

2019 has been a mixed year - establishment and early growth were, in most cases, very satisfactory, and most regions obtained the required 1200 heat units and 300mm of rain to grow a financially viable crop. The main issue that most growers experienced was that the required rainfall was somewhat exceeded from mid-September onwards. This inevitably had consequences for harvest, which at best was delayed, and at worst, crops are still out in the field.

As a result, responsible suppliers and growers are currently reviewing what is acceptable best practice for growing maize. Key points such as earlier harvesting, minimising soil contamination on local highways, reducing damage to soil structure, and minimising soil erosion to ensure nutrients are captured for use in the following crop, have never been so important.

Here at Agrovista, we have practical solutions to help address these problems. For example, we offer the earliest to mature hybrid variety KWS Cito. We are also at the forefront of undersowing maize crops with the correct species of grass seed, enabling growers to minimise crop competition and soil erosion whilst maximising nutrient retention.

I hope you enjoy reading about our maize varieties and undersowing solutions, and that 2020 is a successful year for all involved in the maize crop. If you have any questions regarding the information in this brochure, don't hesitate to contact your Agrovista representative, who will be able to support you in your agronomic decisions.



NIGEL WALLEY
National Seed Manager

Speak to your local Agrovista Agronomist about our market-leading deferred payment scheme for maize seed



The complete maize package

Within this brochure you will find our selection of the best maize seed varieties on the market.

We can advise on all aspects of maize production including;

Nutrient planning

Full nutrient plans can be created for maize crops.

Soil health analysis

We offer a range of options providing full nutritional, physical and biological soil analysis with detailed reports to give you practical solutions to unlock your soils full potential. Speak to your local Agronomist or visit www.agrovista.co.uk/soilhealth

Seed selection

Our variety trials and experience in your local area means variety choices are suited to the local conditions.

Establishment

Seed rates for optimum establishment and maturity, cultivation advice and pest control guidance can be obtained from your Agrovista agronomist.



Weed and disease control

It is crucial to gain good weed control in maize. Early weed competition has a considerable impact on final yields. Our team of agronomists can advise on herbicide choice and timing.

Monitoring

Monitoring for pests and diseases such as eyespot and northern leaf blight is very important, and advice can be given on these also.

Harvest

Advice given on the best time to harvest and inoculant choice.



Key to icons

The icons that appear along side the variety description indicate potential use.



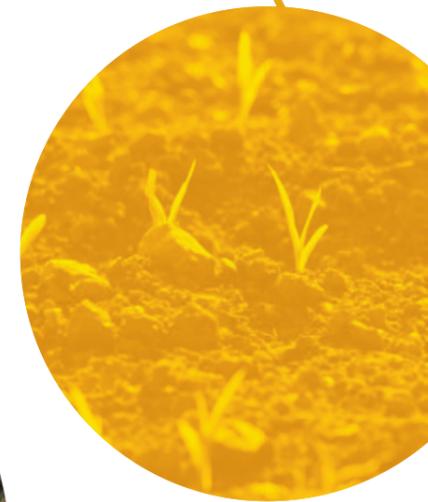
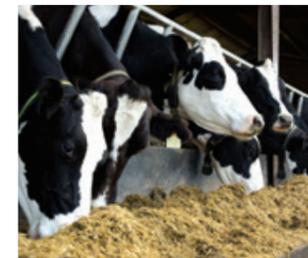
Forage Maize



Energy Maize



Maize grown under plastic film using the SAMCO System



Ultra-early maturity

KWS CITO



- KWS Cito is the earliest variety in the KWS portfolio.
- The best combination of earliness, feed quality and disease resistance of any ultra-early variety on the NIAB descriptive list.
- Cito consistently produces very large mature cobs and produces the largest starch and energy yield of any ultra-early variety currently in the market place.
- With more focus being given to the environmental aspects of growing maize, Cito offers the opportunity to grow a very energy dense crop and be able to harvest early, minimising soil damage and road contamination.

Early maturity

LiRoyal



- LiRoyal is a new entrant onto both the less favourable and favourable NIAB descriptive lists for 2020.
- The variety is a product of Europe's most advanced breeding programme for early maturing hybrids guaranteeing consistent reliable performance in UK growing conditions.
- LiRoyal sits in the FAO 170 – 180 maturity category and is suitable for the vast majority of the UK maize growing area.
- Producing very high levels of starch and dry matter coupled with good disease and standing power scores LiRoyal is the ideal variety for high performance dairy and beef systems.
- The high starch, ME and cell wall digestibility figures also make LiRoyal perfect as the early variety in a balanced energy maize programme.

P7326



- P7326 is now firmly established as a consistent performer over a range of soil types and geographical locations.
- P7326 has early cob maturity and benefits from robust eyespot and fusarium tolerance.
- For those looking for consistent yield and feed quality allied with good standing ability and early maturity P7326 is the perfect compromise.

Medium maturity

SY NORDICSTAR



- SY Nordicstar from Syngenta features as a first choice variety on both the favourable and less favourable 2020 NIAB descriptive lists.
- High yields of starch and ME coupled with excellent cell wall digestibility create a truly versatile variety which has enjoyed considerable success in both forage and energy situations.
- SY Nordicstar has class leading eyespot tolerance and exceptional resistance to fusarium, a vital factor when drilling wheat after maize.
- As well as being ideally suited to the forage sector SY Nordicstar is perfect as the early variety in large acreage energy maize situations.

EMBLEM



- Emblem is a high yielding, high feed value LGAN variety from Limagrain.
- Emblem has an excellent quality profile making it the perfect variety for those looking to maximise milk or beef production.
- Enjoying high yields of starch, cell wall digestibility and ME, Emblem can be grown in most mainstream maize areas and is a very cost effective option for those looking to maintain quality without increasing costs.

P7034



- P7034 was successfully introduced by Pioneer in 2018.
- Utilising high yielding "Dent" genetics in an earlier to harvest hybrid enables the variety to be grown in all but the most marginal of sites.
- P7034 is a very robust plant type with exceptional eyespot and fusarium tolerance compared to leading competitor hybrids.
- The genetic makeup of P7034 makes it ideal for those growers looking to feed maize soon after ensiling without compromising starch availability.

SY ACTUAL



- SY Actual is a new entrant onto the 2020 NIAB descriptive list and features exceptionally high starch and ME yields.
- SY Actual is a robust plant type with outstanding disease resistance and standing power.
- Suitable for both forage and energy maize production with dry matter yields over 19 tonnes hectare.
- SY Actual prefers good maize growing ground but has performed well when grown under plastic film as far North as the Scottish borders.

Mid to late maturity

CRANBERRI CS



- Cranberri CS is the ideal mid maturity hybrid for the energy sector and more favourable forage maize sites.
- Featuring on the NIAB first choice favourable sites list Cranberri CS is set to build on last season's success.
- Excellent early vigour coupled with high dry matter and ME yields place Cranberri CS at the forefront of the mid maturity energy and forage sector.

ES PALLADIUM



- ES Palladium is a new variety from Euralis which benefits from high dry matter yield, high levels of starch and ME and good standing power.
- High cell wall digestibility completes the quality profile of ES Palladium.
- Cob set is uniform and low down on the stem offering good plant stability especially on exposed sites.
- Capable of over 19 tonne per hectare dry matter yield on favourable sites making ES Palladium the ideal compromise between yield and maturity.

SY KARTHOUN



- SY Karthoun is a new entrant on the 2020 NIAB descriptive list. Agrovista have two years' experience with SY Karthoun and it has found favour in the mid maturity slot with an increasing number of energy maize growers.
- Ideal for spreading the harvest window where large areas of maize need to be ensiled. Capable of yields in excess of 20 tonnes hectare dry matter and performs well on a range of soil types.

MAXIMAI 215



- A new approach to maximising yield and quality in the energy sector. Maximais 215 is a blend of three complimentary varieties specially selected to perform better when grown as a blend than when grown as individual plants.
- One of the key benefits of Maximais 215 is that the pollination window is increased for the crop resulting in more even and consistent cob formation. This is especially important in our maritime UK climate where pollination can coincide with a period of wet and cold weather.
- Extensive trial work in Holland and Belgium proves that with the right combination of hybrids, blends consistently outperform straight varieties.
- Maximais 215 is ideal as a mainstream variety in a large energy maize portfolio and is a genuine step forward in maximising yields in our challenging UK climate.

LG30.248



- LG30.248 is a later maturing variety from Limagrain suited to the very best energy maize growing areas.
- Featuring the highest yield of dry matter on the NIAB 2020 descriptive list makes this a variety of interest to any energy maize grower with favourable soils.
- Massive yield on a consistent basis with good disease and standing power make this the ideal choice for the later maturing slot in a balanced energy maize portfolio.



Undersowing mixtures for maize

There are a lot of concerns about the impact the maize crop is currently having on the environment. Factors such as soil erosion and nutrient leaching need addressing as a matter of priority.

In the future, leaving maize stubbles unprotected from soil erosion and nutrient leaching may no longer be allowed to continue. It is also a big challenge to try and establish any sort of cover crop after a maize crop has been harvested due to the time of year.

Undersowing the maize crop with a grass mixture has been proven to be successful when done correctly. It is imperative to sow at the right time with the right species/mixture so the growing crop isn't affected.



The benefits of under-sowing a cover crop into maize

- Reduce nitrate leaching
- Potential for improved digestate utilisation
- Improve soil structure
- Can help to reduce soil erosion
- Improve organic matter levels
- Can create winter grazing for livestock



TECHNISWARD SOIL MAX

Tall Fescue
Advanced Tall Fescue
Sow at 5kg/acre (12.5kg per hectare)

- This mix is most suited to being drilled at the same time as the maize crop (inter-row)
- The slow growing tall fescue and advanced tall fescue will help to suppress weed emergence
- As the grasses mature along with the maize crop, the root mass will develop to help retain any residual nutrients which are left in the soil post harvest
- Benefits the soil structure from the inclusion of deeper rooting grass species

TECHNISWARD ENVIRO MAX

Late Perennial Ryegrass
Advanced Tall Fescue
Sow at 5kg/acre (12.5kg per hectare)

- An under-sown mix which is more suited to be sown inter-row once the maize has established and is at the 4-6 leaf stage
- The inclusion of a perennial ryegrass will make the mixture faster at establishing
- It is important that the grass has established before the maize canopy fully develops.
- Excellent ground cover post-harvest with a fibrous root system for soil stabilisation



Speak to your local Agrovista Agronomist to find out more





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*Speak to your local
Agrovista Agronomist
about our market-leading
deferred payment
scheme for maize seed*