agrovista
seeds

Maize

key varieties

2025 *season*

*growing through **innovation***

Welcome

to the Agrovista 2025 maize brochure

Harvest 2024 has proved to be one of the more challenging in recent memory but at the time of writing most crops are now harvested and safely ensiled.

A difficult harvest has followed a difficult growing season so all in all 2024 has not been a fine vintage with regards to growing maize in the UK.

A lot of crops were late drilled but went into fairly decent seed beds and grew away well, too well in many instances! Rapid growth and easily available nutrients meant root growth was very shallow, and buttress roots were poorly formed which resulted in some severe lodging on some farms.

It is easy to look for blame in these instances and variety choice is the first thing that comes to mind. However, this year variety choice is unlikely to be the culprit as we have seen varieties that have never previously lodged going completely flat but on closer inspection the plant has simply fallen over with a poorly formed root mass that has simply lifted out of the soil surface. Unusual and explainable but nevertheless deeply frustrating.

Later drilling has also impacted quality with many crops struggling to achieve 30% dry matter and 30% starch content which is the goal we strive for. SFI has created a much greater interest in undersowing the maize crop and we can offer solutions for SAM2, CSAM2 and SOH4 schemes which are both profitable and benefit the environment.

Seed treatment options include the bird repellent Korit for 2025, but we anticipate this product being withdrawn from the market at some point in 2026. Alternative bird repellent products are currently undergoing evaluation so hopefully we will have a seamless transition from Korit to a replacement product when the time comes.

I hope you enjoy our maize brochure and please contact your local Agrovista agronomist if you require further information.

National Seed Manager
NIGEL WALLEY

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

Comprehensive nutrient plans can be created to maximise the potential of your maize crop.

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. For soil health information visit www.agrovista.co.uk/soil-health

Seed selection

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

Maize establishment and SFI cover crop options

Seed rate and cultivation advice for optimum establishment and maturity of the maize crop. Agrovista are also market leaders in the advice and supply of SAM2, CSAM2 and SOH4 cover crop mixtures for your maize crop.

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.

Pests and disease

Advice on effective IPM strategies to reduce pest damage and preventative fungicide programmes to minimise disease in high risk situations.

Harvest and ensiling

Tailored advice on harvest dates to help maximise dry matter and starch yield. Best practice for ensiling crops to minimise in clamp losses and advice on the correct silage inoculant depending on end use and harvest quality parameters.

Instinct™

Get the most from your nitrogen

Getting the best return from any maize crop is based on two things – choosing the right variety for your circumstances and providing your crop with adequate nutrition.

Nitrogen is core to fulfilling a maize crop's yield potential, but it's a balancing act – too little and the crop's yield will be limited; too much is not only uneconomical, but it has consequences for the environment.

Nitrogen stabilisers, such as Instinct™, slow down the conversion of ammonium to nitrate and keep nitrogen available to crops for longer to optimise yield and quality. Instinct will do three things:

- Keep more nitrogen in the soil for longer
- Maximise the yield potential of the crop
- Reduce nitrogen escape into the environment

Maximise the yield potential of your crop

By keeping more nitrogen in the soil for longer, the chances of a crop fulfilling its potential are increased. There have been many trials across the UK and Europe that look at the impact Instinct has on maize yield; the results of which are shown in the chart on the right.

In the UK, yield increases of more than 10% have been seen, especially if the crop is grown on light soils in high rainfall areas and where total nitrogen rates were moderate.

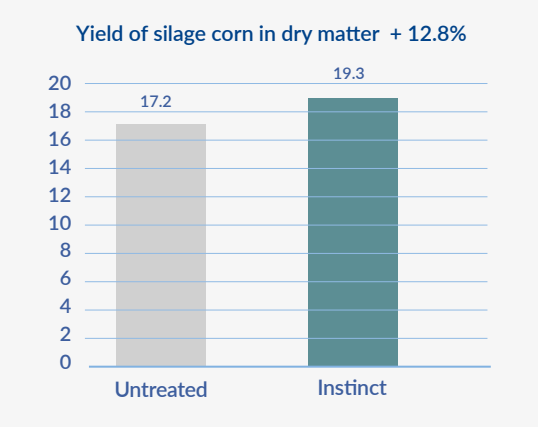
Instinct®
Optinyte™ Technology
NITROGEN STABILIZER

These trials were conducted using a variety of fertiliser types – urea, UAN, AN, slurry and digestate. If the fertiliser contains ammonium, Instinct stabilises the ammonium, keeping more in the soil for longer, just when the crop needs it.

Instinct optimises nitrogen

Maize is an ideal crop for Instinct as it typically requires more fertiliser than it receives, which means it's extremely important to keep as much nitrogen in the soil as possible, for as long possible, and it needs more nitrogen later in it's life than other crops. Instinct does both – preventing loss of nitrogen, and extending it's availability.

Results of 43 trials



MZ 28

A foliar applied controlled release nitrogen fertiliser to use on various crops including maize, cereals and oilseed rape

MZ28 contains nitrogen polymers of variable chain lengths. Because these polymers degrade at different rates, this provides a sustained source of nitrogen to the crop, especially beneficial during the rapid growth phase.

This, combined with an optimised formulation, ensures excellent crop safety.

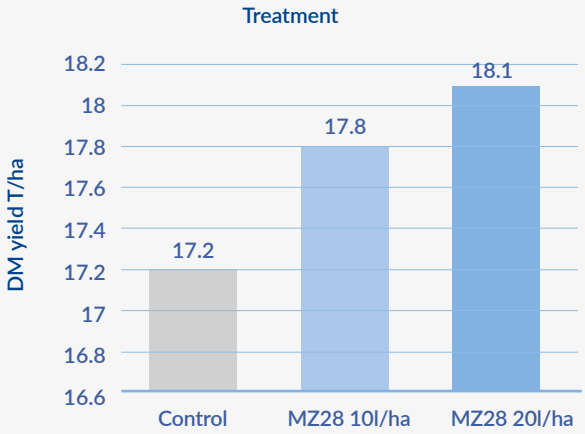
Formulation: Total nitrogen (N) 28% w/w (300g/l) of which 11.5% ureic nitrogen and 16.5% urea formaldehyde.

Benefits

MZ28 offers the following benefits:

- **Controlled release** for sustained nutrient provision
- **Boosts chlorophyll content** and dry matter yield
- **Excellent crop safety** – low salt and biuret content
- **Enhanced formulation** to minimise risk of volatilisation

Effect of MZ28 on dry matter yield in forage maize



Agronomist Quentin Ham's customer Russell Butler in Reading applied MZ28 to a crop of maize:

"The result was a healthy crop with a strong green colour until harvest that showed no signs of drought or stress. Yield and silage analysis has been extremely good which has helped sell stock out of the clamp."

TAKE CONTROL

Reduce the carbon footprint on your farm

Maize undersowing and post harvest options

Key benefits

- Reduce nitrate leaching
- Potential for better digestate utilisation
- Improves soil structure
- Helps to reduce soil erosion
- Increase soil organic matter levels
- Potential for winter livestock grazing
- Options available for the following SFI schemes: SAM2, CSAM2 and SOH4

The environmental impact of maize growing in the UK is a topic that continues to cause debate amongst growers, environmentalists and the general public.

However, taking a more holistic approach to maize growing can drastically reduce the impact of the crop. Cover cropping maize ground reduces soil erosion, protects the soil profile and reduces nutrient leaching and one of the most reliable ways to establish a cover crop is by undersowing the growing maize crop.

There are now a number of options for maize growers within the Sustainable Farming Incentive including SAM2 multi-species winter cover crop, CSAM2 multi-species winter cover crop for growers entered into the expanded 2024 offer and SOH4 winter cover crops for maize, also within the expanded offer. All of these options can be undersown with the growing crop.

Agrovista's range of maize undersowing and post-harvest mixtures offer flexibility around sowing, are fully compliant for the relevant SFI actions when grown in a way that meets the aims of the action and come backed by many years of research and experience.

TechniSward Soilmax
(SAM2, SOH4)

Hipast *Tall fescue plus™ (festulolium)*	40%
Tower *Tall fescue*	50%
Donata *Soft leaved cocksfoot*	10%

TechniSward Soilmax Plus
(SAM2, CSAM2, SOH4)

Hipast *Tall fescue plus™ (festulolium)*	35%
Tower *Tall fescue*	62%
Rivendel *Small white clover*	3%

- Specifically designed to being drilled at the same time as the maize crop (inter-row)
- The slow growing tall fescue and tall fescue PLUS™ helps to suppress weed emergence without competing with the maize
- As the grasses mature the root mass develops, helping to retain any residual nutrients which are left in the soil post-harvest
- The deep rooting grass species also help to improve soil structure
- Sow at 3 to 5kg/acre (7.5–12.5kg/ha)

TechniSward Enviromax
(SAM2, SOH4)

Twymax *Tetraploid late perennial ryegrass*	70%
Hipast *Tall fescue plus™ (festulolium)*	20%
Donata *Soft leaved cocksfoot*	10%

TechniSward Enviromax Plus
(SAM2, CSAM2, SOH4)

Twymax *Tetraploid late perennial ryegrass*	60%
Donata *Soft leaved cocksfoot*	10%
Common vetch	30%

- Suitable for sowing at the 4-6 leaf stage
- This mixture establishes quickly but then slows as the maize canopy closes above it
- Once maize is harvested the sward will quickly establish effective ground cover to protect the soil over the winter months and then provide a crop of silage the following spring
- Sow at 3 to 5kg/acre (7.5–12.5kg/ha)

Fastmax
(SAM2, SOH4)

Fox *Diploid Italian ryegrass*	60%
Lofa *Festulolium*	30%
Donata *Soft leaved cocksfoot*	10%

- Designed to be sown at the 4 to 6 leaf stage
- Rapid early establishment slows as the maize canopy closes and then grows quickly post-harvest to provide good winter cover
- Capable of providing an early cut of silage the following spring
- Sow at 7.5–12.5kg/ha

After Maize Cover Crop
(SAM2, CSAM2, SOH4)

Westerwolds ryegrass	56%
Winter vetch	44%

- A fast-establishing winter cover crop for sowing after maize is harvested
- Provides quality late winter grazing or an early cut of high protein silage the following spring
- Care should be take to avoid soil contamination if a silage cut is planned for the following spring. Topping the maize stalks is also advised if a silage cut is intended.
- Sow at 30-37kg/ha before mid-October

Selecting a **silage inoculant**

CORTEVA™ agriscience

PIONEER® MADE TO GROW™

Use this to help you to select the correct silage inoculant for your farm.

Or for further guidance, contact your local Agrovista agronomist.

Forage maize 30-35% DM

Crimped maize grain

11B91

Specifically designed for preserving crimped maize grain

Improved aerobic stability and reduced fermentation losses

Improved animal performance

For high performing dairy and beef enterprises where farmers are seeking to optimise production from forage

11C33 RR

Improved aerobic stability

Improved animal performance through more efficient fermentation

11CFT

Improved aerobic stability

Enzymes help lift lignin from cell walls increasing digestibility

Increase in milk yields of up to 40 litres per tonne

Extreme heating challenge

For use where forage maize is prone to heating, such as slow feed-out, lack of compaction, long chop length, summer

11A44

Improved aerobic stability

Reduction in yeasts and moulds

Anaerobic digestion

For treating forage maize for use in anaerobic digester

11CH4

Faster and more efficient fibre digestibility

8% increase in methane yield

Improved aerobic stability

Maize varieties

Key to icons

The icons that appear alongside the variety description indicate potential use.

- Forage maize
- Maize grown under plastic film using the SAMCO System
- Energy maize
- Grain maize

Ultra-early maturity

KWS Cito

KWS Cito is the earliest variety in the KWS portfolio and is a first choice variety on both the NIAB BSPB favourable and less favourable descriptive lists

- Cito boasts the highest levels of starch, ME and cell wall digestibility of any of the ultra early competitors and remains the best option for those looking for early harvest and maximum feed value
- Cito consistently produces very large mature cobs and is well proven over a range of soil types and geographical areas
- With more focus being given to the environmental aspects of growing maize, Cito offers the opportunity to grow an extremely energy dense crop and be able to harvest early minimising soil damage and road contamination

KWS Portobello

KWS Portobello is a new FAO 160 variety from the leading maize breeder in the UK

- Capable of exceptional yields for such an early variety achieving 105% of control and up to 19 tonnes of dry matter per hectare
- Starch levels of up to 40% make Portobello a truly outstanding high feed value variety and with a class leading early vigour score of 8.0 Portobello ticks all the boxes for an ultra early maize variety
- As well as being suitable for high performance livestock regimes Portobello also has a place as the early variety in a balanced energy maize portfolio due to its dry matter yield exceeding that of far later maturing varieties traditionally used in that sector

Early maturity

P7326

P7326 is now firmly established as a consistent performer over a range of soil types and geographical locations

- P7326 has been the biggest selling variety in the UK for the past four years and benefits from early maturity and 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

Early maturity

LiRoyal

LiRoyal remains a leading variety in the early to mid maturity sector and is a truly versatile hybrid being suitable for forage, energy and grain production

- Maturity is within the FAO 180 range and therefore suitable for growing across the vast majority of the UK maize growing area
- LiRoyal offers the perfect balance of yield, quality and maturity to suit a wide range of applications at a cost effective price point
- Capable of producing over 18 tonnes of dry matter and well in excess of 6 tonnes of starch per hectare, LiRoyal is the ideal choice for high performing livestock systems or as the early variety in a balanced energy maize portfolio

P7381

P7381 is a high yielding, high feed value variety from Pioneer first introduced in 2024

- Initial harvest results look very favourable and the variety has proved to be adaptable to all sectors of the maize market
- Excellent early vigour coupled with impressive late season disease tolerance makes P7381 a very robust and easy to grow hybrid
- Impressive dry matter and starch yields make P7381 an ideal replacement for the likes of Prospect or Resolute in either a forage or energy maize situation
- Being such a versatile hybrid, P7381 will make an ideal addition to any maize growers cropping plan

Foxtrot

Introduced in 2023 and being a first choice variety on both the favourable and less favourable descriptive lists Foxtrot offers an outstanding combination of yield and quality making it the perfect variety for use in high yielding livestock systems

- Class leading figures for starch yield, ME, and cell wall digestibility make Foxtrot the variety of choice for those looking to maximise returns from feeding maize based forage rations
- Foxtrot has been well received by growers and as such will remain a leading hybrid in the early to mid maturity sector in 2025

Medium maturity

P7034

P7034 has firmly established itself as a leading mid maturity hybrid in both forage and AD situations

- 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 and it has proved to be an exceptionally consistent hybrid across varying soil types and geographical locations
- P7034 is a very robust plant type with exceptional eyespot and fusarium tolerance which also makes it suitable for grain maize production
- The genetic make up of P7034 makes it ideal for those growers looking to feed maize soon after ensiling without compromising starch availability

RGT Bluefoxx

RGT Bluefoxx is from the RAGT stable and features the perfect balance of yield and maturity

- Suitable for both forage and energy maize applications Bluefoxx has been very well received by growers and is well placed to increase its market share in 2025
- Good disease resistance coupled with excellent standing ability make Bluefoxx a reliable performer in all sectors
- A solid performer at a competitive price point

Marcopolo

Marcopolo is a new variety from KWS being suitable for all sectors of the maize market

- Yield surpasses that of much later maturing hybrids and therefore Marcopolo is a great option for AD operators looking to bring harvest dates forward without sacrificing yield
- Good lodging resistance ensures the variety is suitable for the grain maize sector whilst high starch and CWD figures ensure that for those looking for a high yielding forage option then Marcopolo also fits the bill

Medium maturity

LG31205

LG31205 is a variety from Limagrain suitable for forage, grain and energy sectors and remains the product choice for growers looking to combine high yields with a relatively early harvest date

- One of the highest dry matter yields in Limagrain and NIAB trials combined with exceptionally high starch, ME and cell wall digestibility figures
- Maturity is within the FAO 190-200 range making LG31205 suitable for growing on favourable sites with good soils
- Being a single cross hybrid ensures reliable and consistent performance and LG31205 has all the qualities to satisfy the most demanding of growers

Later maturity

ES Blackjack

Blackjack was introduced to the market in 2023 from the same breeder as ES Palladium

- Blackjack has a similar dry matter yield to its sister variety but is slightly earlier to mature
- As well as exceptional dry matter yields Blackjack boasts high levels of starch, ME and cell wall digestibility, making it equally suitable for forage or energy applications
- Blackjack has also demonstrated exceptional yield capability when grown under plastic film with growers claiming best ever results with this variety in harvest 2023
- Robust standing power completes an impressive set of characteristics for this high yielding and versatile maize hybrid

Later maturity

Maskaret

Exclusive variety to Agrovista from MAS Seeds

- Maturity is in the FAO 200-210 sector making Maskaret suitable for the energy maize market and more favourable forage maize sites
- Impressive early vigour and reliable cob set make Maskaret a reliable performer while good standing power ensures a safe harvest
- Capable of dry matter yields well in excess of 19 tonnes per hectare combined with high starch levels and cell wall digestibility make Maskaret a versatile and competitively priced high yielding option for forage or energy situations

ES Palladium

ES Palladium is one of the highest yielding varieties currently available on the NIAB/BSPB descriptive list

- ES Palladium is a large impressive hybrid with one of the highest dry matter yields currently available and is suitable for both the forage and energy markets
- With high levels of starch, ME, cell wall digestibilty and impressive standing power, Palladium offers an unbeatable combination for those looking to maximise yield and quality
- Cob set is uniform on a very robust stem which gives exceptional standing power and plant stability especially on exposed sites
- Capable of producing over 20 tonnes per hectare of dry matter yield on favourable sites makes ES Palladium the ideal variety for those looking to maximise yield potential

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

agrovista seeds

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